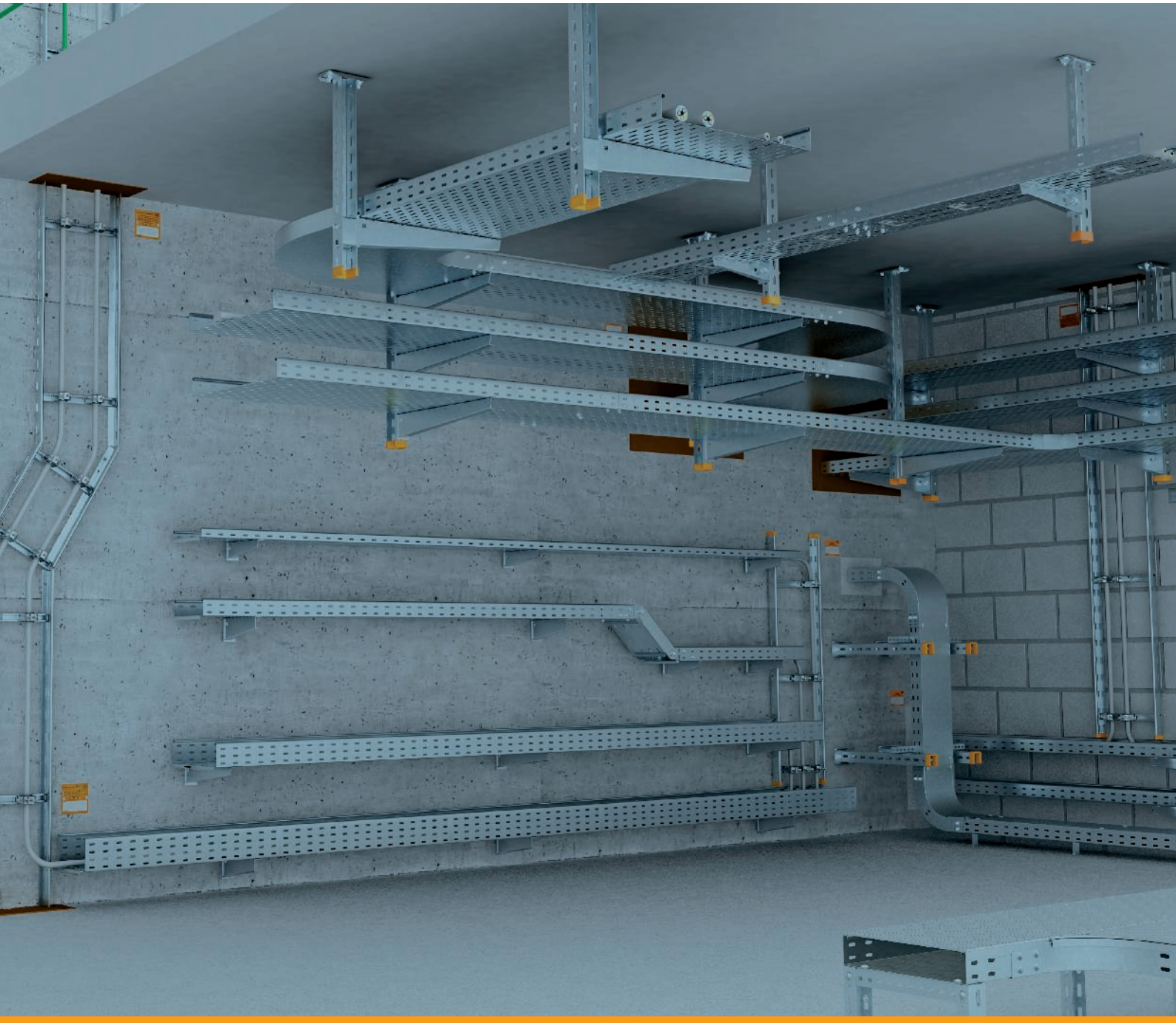
INDUSTRIAL INSTALLATIONS



# Cable support systems

OBO BETTERMANN



# Building Connections

Digitalisation, the Energiewende (energy transition), mobility – the future is gathering speed. At OBO Bettermann, we're proud to be a driving force. And as a facilitator, we make connections. Today, we are already developing the innovative electrical infrastructure systems and solutions of tomorrow. Reliably, flexibly, sustainably.

Already today, OBO is one of the leading manufacturers of installation systems for the electrical infrastructure in buildings and plants. When it comes to the friction-free flow of power, energy and data, engineers and tradespeople worldwide rely on the comprehensive range from OBO.





OBO applies its slogan "Building Connections" to around 30,000 high-quality branded electrical products and services, which are used in application solutions for projects in industry, business and infrastructure.

OBO operates a global network and employs more than 4,200 people in more than 60 countries. The headquarters of the family company, which was founded in 1911, is located in Menden, Germany. In addition, more than 40 subsidiaries are present in markets on all continents.



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# Improved structure, sharpened profile




Each of our products carries a benefit which only the OBO brand can offer. Products are developed, manufactured and tested with a high level of competence – from the idea through to the final check. From flawless logistics through to practical information – we can provide support at every level. We can offer additional security through certificates on the conformity of our products with the most important standards and directives. In a nutshell – OBO helps you more. In every location and in every phase of a project.

To maintain this, we continually challenge ourselves. Not as an end in itself but for the better processing of each customer's requests – fast, reliably and future-oriented. That is the reason we have not only established our three central application areas, but also reworked our catalogue structure. In this way, we can display our service offers more clearly, highlight the product benefits more effectively and illustrate the respective application areas more tangibly.

# OBO Product Worlds



## Industrial installations

- Cable support systems
- Connection and routing systems
- Fastening material



## Building installations

- Cable routing systems
- Device installation ducts, trunking and poles
- Floor installation systems and underfloor applications
- Installation systems



## Safety and protection installations

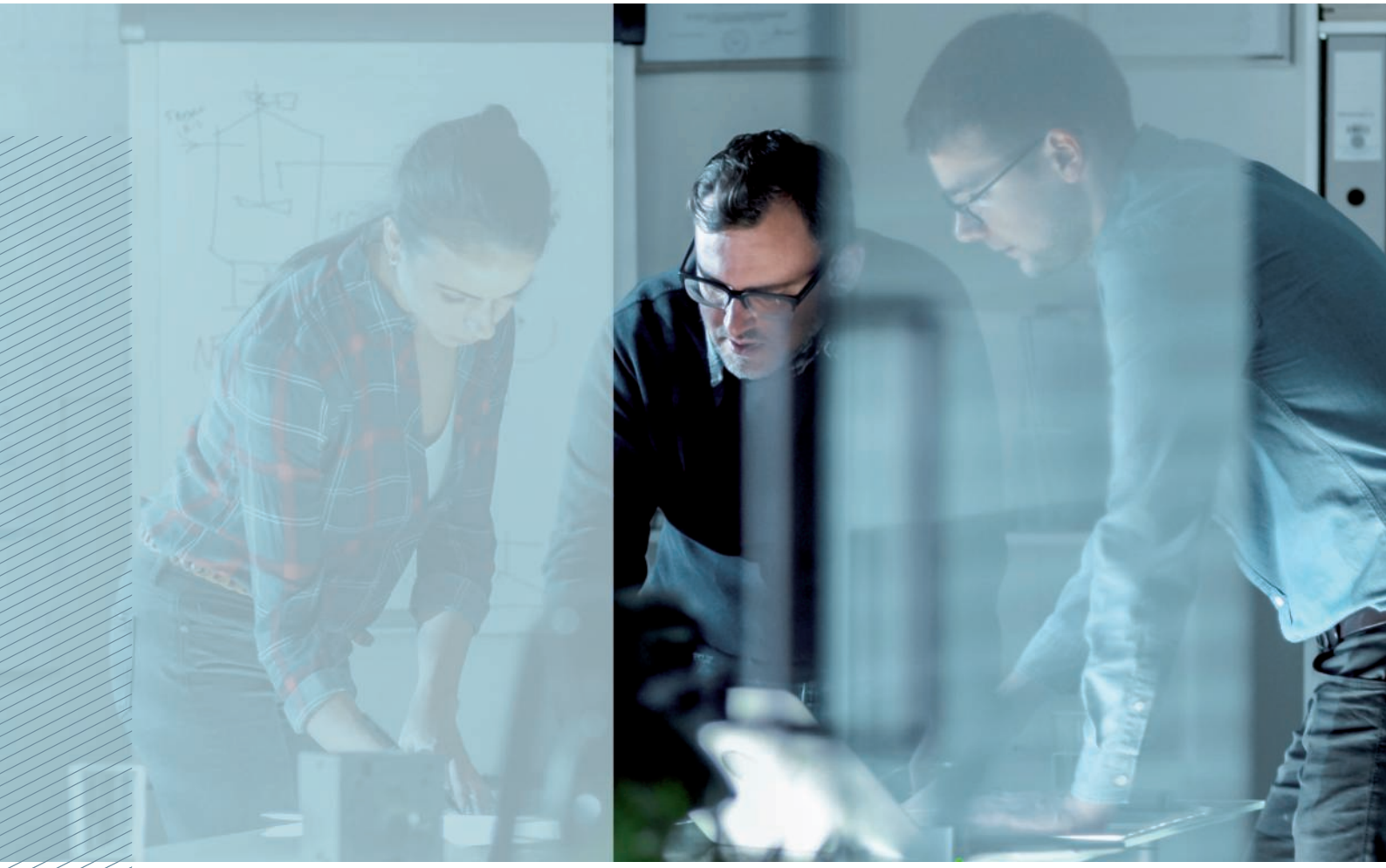
- Surge protection
- External lightning protection
- Equipotential bonding and earthing
- Insulation and cable bandages
- Fire-tested support and routing systems
- Fire protection ducts



It's your choice – from now on there's a catalogue for each OBO product category. Simply select the catalogues and order together with a collection case.

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# OBO Support *& contact*



***You have a problem? We have the solution!***

OBO Bettermann is more than the sum of its products. In any situation, we are the reliable partner right buy your side. You have a problem? We have the solution!

It doesn't matter in which area of industry our support is needed – from industrial and plant engineering to private, public and administrative buildings, as well as in the areas of mobility and renewable energies – we have everything that you need.

OBO can not only provide the entire electro-technical infrastructure with the best possible products. We can also support you with sound expert knowledge and more than 100 years of experience, right from the planning phase through to the realisation of your projects. OBO – solutions you can rely on.

## What is OBO Support?

Every OBO product carries a plus inside it, which only a branded product can offer. It is developed, manufactured and tested with a high level of competence, from the idea right through to the final check. In addition, our specialists are available for consultation and can offer you assistance and training courses for products at any time.

Together with you, we plan your project and help you choose the right products, and are also available to you at any time should you need us. From flawless logistics through to practical information – we can provide support at every level. We can offer security through certificates on the conformity of our products with the most important standards and directives.

We are as flexible as you are – because we know how practical people work and what is important to them. Each step is a plus – that is the OBO Support concept.

## *Customer Service*
## *Tel.:+49 23 73 89 - 17 00*

**Monday–Thursday**
07.30–17.00

**Friday**
07.30–15.00

**export@obo.de**



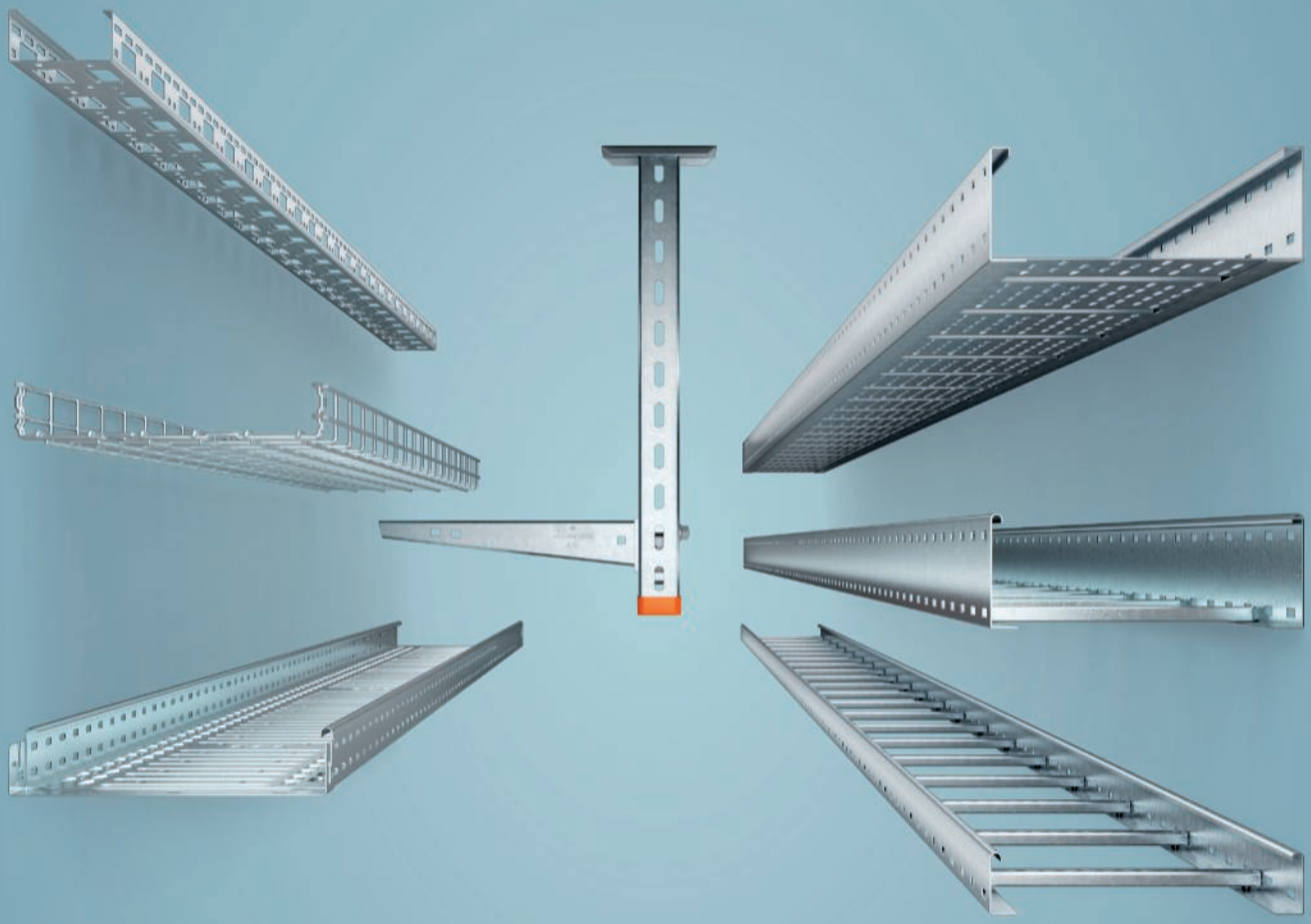

**Service – OBO can help**
Everywhere and in every project phase:
- Highly competent hotline
- Product and system information, digitally or printed
- Selection and planning aids on the web, as an app, as a CAD application or in printed form
- 2D and 3D product data for planning
- Field service, branch offices and subsidiaries in 60 countries
- Engineering services for major projects

**Training courses from OBO**
- Seminars and workshops
- Local consultation and training courses
- Planner days

**Handling – OBO delivers reliably**
With optimised delivery processes:
- Reliable logistics
- Practical transport systems and packaging
- Loading gear handling and disposal concepts

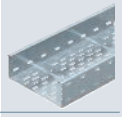
**Certification and guarantee**
OBO offers safety. Our products fulfil the most important country-specific regulations:
- Conformity (e.g. IEC, VDE, CE, KEMA, KEUR, UL)
- Certification (e.g. DIN EN, DGNB)
- 5-year guarantee for surge protection products
- Guarantee management

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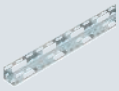
**Planning aids** Page 10 

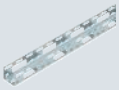
**Cable trays** Page 60 

**Wide span systems** Page 266 

**Mesh cable trays** Page 314 

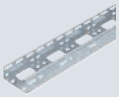
**Cable ladder systems** Page 394 

**Luminaire support systems** Page 510 

**Modular systems** Page 530 

**Mounting systems** Page 544 

**Motor connection columns** Page 758 

**Industrial ducts** Page 762 

**Directories** Page 772 


Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04





Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:01 / 2023/05

# Planning aids




| | |
|---|---|
| Surfaces and corrosion | 12 |
| Properties of plastics | 20 |
| Protection ratings | 24 |
| Nominal values of electrical equipment | 26 |
| Zone division for explosive areas | 27 |
| Cable sizes | 28 |
| Basic values for the calculation of the cable volume | 29 |
| Fastening clips | 30 |
| Selection of the correct cable support system | 31 |
| Cable load | 34 |
| Cable glands and the DIN EN 50262 standard | 42 |
| Information on cable fastening | 43 |
| Classification of installation pipes (according to DIN EN 61386-1) | 44 |
| Definition of electromagnetic compatibility (EMC) | 46 |
| Guaranteeing EMC | 47 |
| Magnetic shield insulation of cable support systems | 48 |
| Transfer impedance of cable support systems | 49 |
| Maintenance of electrical function | 50 |
| OBO Construct - planning software and product configurators | 54 |
| Standards, certifications and test marks | 55 |
| First-hand support and knowledge | 57 |
| Every test mark at a glance | 58 |


Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Metal: corrosion and corrosion protection



**Corrosion**
(from the Latin corrodere, “to eat or gnaw to pieces”) in a technical context is a reaction between a material (generally a metal) and its surroundings, leading to a measurable change in the material and potentially impairing the functionality of a component or system.

A large number of products used in industrial installations are made of metal. Metals are much tougher than many other materials and are less sensitive to mechanical loading. The OBO metal products are made of aluminium, die-cast zinc, stainless steel or steel.

Steel (St), the most commonly used material, is very strong and has good elasticity and chemical resistance. However, steel is susceptible to corrosion and must therefore be protected accordingly.

Stainless steels consist mainly of alloyed, very hard and rustproof steels. The stainless steels are divided into quality classes according to the percentage of alloys. These are indicated by the material number according to DIN EN 10027.

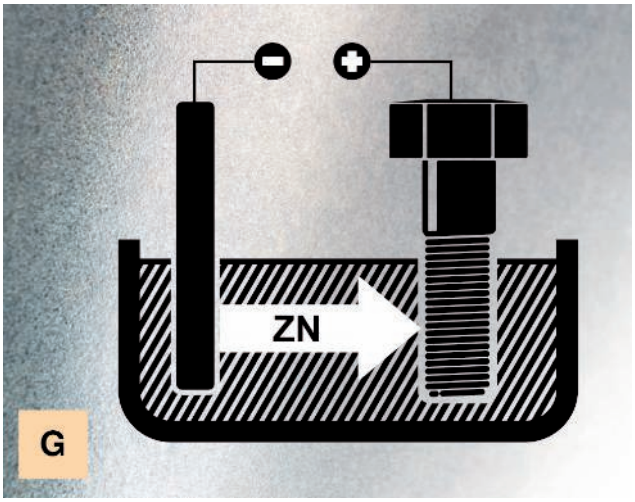
Aluminium (Al), as a light metal, has comparatively low strength but good electrical conductivity and high corrosion resistance.

Die-cast zinc components (Zn) are very strong and hard. The manufacturing process enables the production of very precise components with good corrosion resistance.

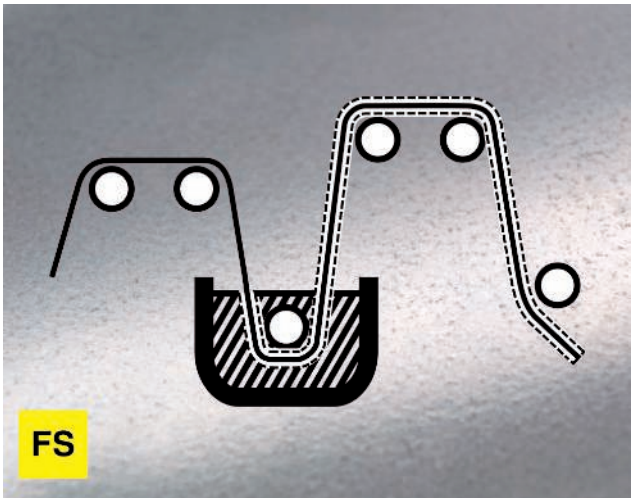
**Corrosion protection**
Corrosion protection means all steps taken to prevent corrosion damage to metallic components. It is impossible to prevent corrosion permanently, so corrosion protection measures generally aim to reduce the speed of corrosion so that the component is not damaged by corrosion for the duration of its service life. The term “passive corrosion protection” refers to all measures designed to shield products from corrosive media. Coatings are one way of achieving passive corrosion protection. At OBO, most steel products are protected from corrosion by a layer of zinc. Zinc coatings can be applied to components using a variety of methods.

**Zinc slat covering**
Zinc slat coverings are coatings applied in a non-electrolytic manner. They offer cathodic protection and thus have excellent corrosion protection, while at the same time, there is no risk of hydrogen-induced breakage. Due to these properties, this coating type is used for connection components with a high strength classification or structural parts with high tensile strength. The low layer thickness of the zinc slat covering allows a thin, homogeneous coating, which is particularly important for maintaining the accuracy of screw threads. This coating achieves a resistance of 480 hours in the salt spray test for the connection elements.

# Galvanisation types



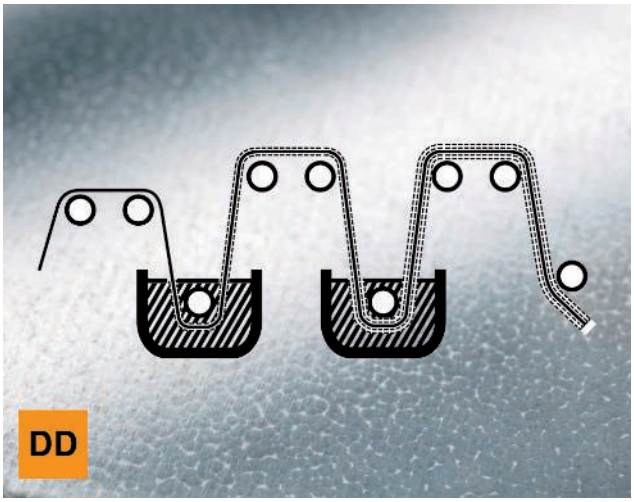

**Electrogalvanisation – electrolytic galvanisation in accordance with DIN EN ISO 2081**
In electrogalvanisation or electrolytic galvanisation, the component is coated by dipping it not in molten zinc, but in a zinc electrolyte, through which a direct electric current is passed.




**Strip galvanising – hot galvanised according to the strip-galvanising method in accordance with DIN EN 10346 (formerly DIN EN 10147 and DIN EN 10142)**
Strip galvanisation or Sendzimir galvanisation is where a continuous ribbon of steel is galvanised in a continuous line.



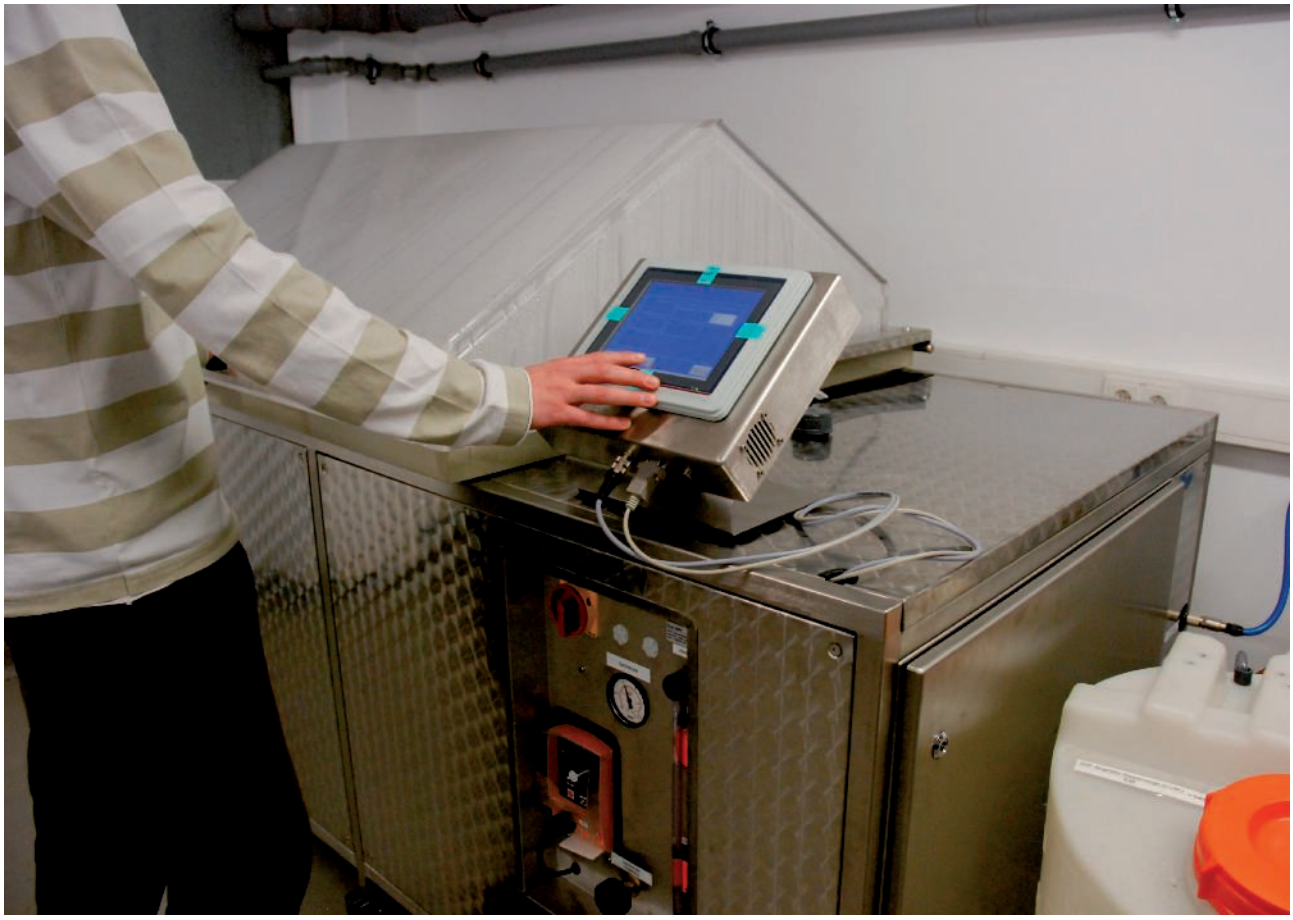

**Hot-dip galvanisation – hot galvanisation using the dipping method according to DIN EN ISO 1461**
Batch galvanisation is mainly used for galvanising prefabricated steel parts, by dipping them in molten zinc at a temperature of around 450 °C.




**Hot-dip coating – zinc-aluminium coating in accordance with DIN EN 10346**
In contrast to conventional coating systems, the material being galvanised in the double-dip process passes through two baths in succession: the first contains pure zinc, the second a zinc-aluminium alloy.

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# Surface testing and corrosion categories



**Classification of corrosion resistance**
All the system components must show sufficient resistance against corrosion in agreement with the standard DIN EN 61537. The minimum zinc layer thicknesses are determined through a measurement. The grouping into the appropriate class is detailed in the table “Classification of corrosion resistance”. The table “Corrosion categories according to DIN EN ISO 12944” shows the area of application and the zinc loss to be expected.

**Classification of corrosion resistance**
All components, depending on the environment, must show sufficient resistance against corrosion in agreement with the standard DIN EN 61537. This is how corrosion categories are determined, e.g. with a salt spray test. In this procedure, components are sprayed with salt for a certain time period. The resulting level of red rust is the basis for allocation to a corrosion category, i.e. in which environment the component is resistant to corrosion.

## Classification of corrosion resistance according to EN 61537

| Class | Reference material and surface treatment |
|---|---|
| 0* | None |
| 1 | Electroplated to a minimum thickness of 5 µm |
| 2 | Electroplated to a minimum thickness of 12 µm |
| 3 | Pre-galvanised to grade 275 to EN 10327 and EN 10326 |
| 4 | Pre-galvanised to grade 350 to EN 10327 and EN 10326 |
| 5 | Post-galvanised to a zinc mean coating thickness (minimum) of 45 µm according to ISO 1461 |
| 6 | Post-galvanised to a zinc mean coating thickness (minimum) of 55 µm according to ISO 1461 |
| 7 | Post-galvanised to a zinc mean coating thickness (minimum) of 70 µm according to ISO 1461 |
| 8 | Post-galvanised to a zinc mean coating thickness (minimum) of 85 µm according to ISO 1461 (usually high-silicon steel) |
| 9A | Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S30400 or EN 10088 grade 1-4301 without a post-treatment * |
| 9B | Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S31603 or EN 10088 grade 1-4404 without a post-treatment * |
| 9C | Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S30400 or EN 10088 grade 1-4301 with a post-treatment ** |
| 9D | Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S31603 or EN 10088 grade 1-4404 with a post-treatment ** |

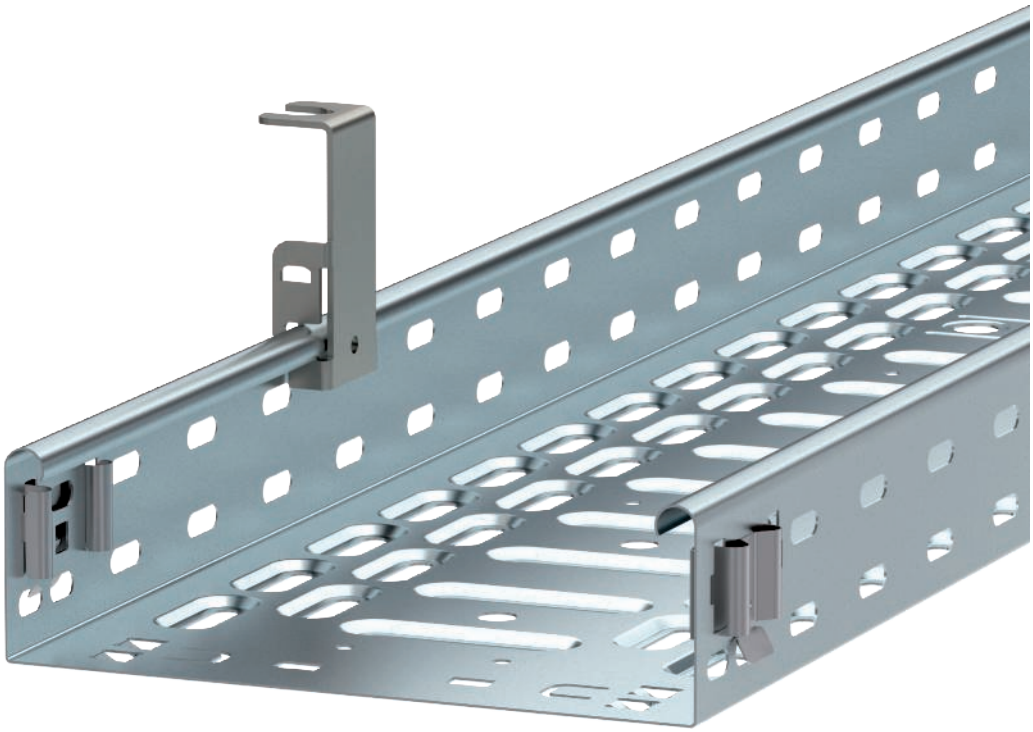
* For materials which do not have a declared corrosion resistance classification
** The end treatment process is used to improve the protection against crack corrosion and the contamination of other steels

## Corrosion categories to DIN EN ISO 12944

| Corrosion category | Typical environment, inside | Typical environment, outside | Corrosion load | Average zinc removal |
|---|---|---|---|---|
| C 1 | Heated buildings with neutral atmospheres, e.g. offices, shops, schools, hotels | - | Insignifi-cant | <0.1 µm/a |
| C 2 | Unheated buildings in which condensation can occur, e.g. warehouse, sports halls | Atmosphere with low level of impurities, often rural areas | Low | 0.1 to 0.7 µm/a |
| C 3 | Production facilities with a high level of humidity and some air impurities, e.g. plants for food production, laundries, breweries, dairies | City and industrial atmosphere, considerable impurities through sulphur dioxide, coastal areas with low salt load | Medium | 0.7 to 2.1 µm/a |
| C 4 | Chemical plants, swimming pools, boat sheds over seawater | Industrial areas and coastal areas with low salt load | Strong | 2.1 to 4.2 µm/a |
| C 5-I | Buildings or areas with almost constant condensation and with high levels of impurities | Industrial areas with high levels of humidity and aggressive atmosphere | Very strong (industry) | 4.2 to 8.4 µm/a |
| C 5-M | Buildings or areas with almost continuous condensa-tion and with high levels of impurities | Coastal or offshore areas with salt load | Very strong (sea) | >4.2 to 8.4 µm/a |

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# Contact corrosion



If two different metals are conductively connected with each other, contact corrosion can occur. This poses a considerable risk to the load capacity and lifespan of the components used.

The level of contact corrosion is determined primarily by the level of the potential difference between the contact partners. Contact corrosion occurs at potential differences of 100 mV or greater and the anodic (electrically negative) partner is at risk of corrosion. Therefore, strongly non-precious metals should never be brought into contact with precious metals.

**Additional contact corrosion criteria:**

- Level of electrical resistance between the contact partners. The higher the resistance, the lower the contact corrosion. Positive on Al and Ti.
- Occurrence of an electrolyte. An electrolyte, such as perspiration or condensation, attacks the protective layers, increasing conductivity. Dirt increases this effect through released ions.
- Length of the impact of the electrolyte. The longer the electrolyte is active, the greater the corrosion will be.
- The surface ratios of the contact partners influence the current density. The best thing to have is a small surface ratio of the “precious” to the “less precious” contact partner.
- Different environments or atmospheres can increase or influence the risk of contact corrosion to varying degrees.

# Installation locations

Whether indoors or outdoors, in aggressive atmospheres or under special hygienic conditions, OBO can offer the perfect surface and materials for your installation, no matter what the requirements may be. OBO metal products are machined from high-quality sheet steel or steel wire and are available with various surfaces. Different hardening and coating methods ensure tailor-made corrosion protection, specially tailored to the appropriate application:

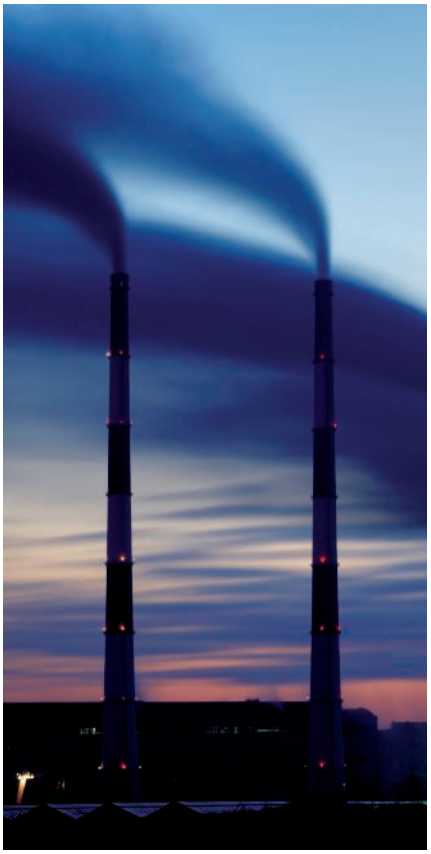
| Application | Material | Surface protection |
|---|---|---|
| **Indoors**  | St Steel | L Painted/powder-coated |
| | St Steel | FS Strip galvanised DIN EN 10346 |
| | St Steel | G Electrogalvanised DIN EN ISO 2081 |
| **Outdoors**  | St Steel | FT Hot galvanised DIN EN ISO 1461 |
| | St Steel | DD Hot galvanised DIN EN ISO 1461 |
| | VA Stainless steel A2 | |
| | VA Stainless steel A4 | |
| **Especially corrosive areas**  | VA Stainless steel A2 | |
| | VA Stainless steel A4 | |

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Contact corrosion in different environments



**Land climate**



**Industrial atmosphere**



**Sea climate**

| Small/large | Zn | FT | Al | Cu | VA | CuZn |
|---|---|---|---|---|---|---|
| Zn | | ✓ | ○ | ✗ | ✗ | ○ |
| FT | ✓ | | ○ | ✗ | ✗ | ○ |
| Al | ✓ | ✓ | | ✗ | ✗ | ○ |
| Cu | ✓ | ✓ | ✓ | | ✓ | ✓ |
| VA | ✓ | ✓ | ✓ | ✓ | | ✓ |
| CuZn | ✓ | ✓ | ✓ | ✓ | ✓ | |

| | |
|---|---|
| ✓ | Little to no corrosion |
| ○ | Moderate corrosion |
| ✗ | Heavy corrosion |

The precondition for corrosion is a conductive medium that connects the metal combination. The more damp and contaminated the atmosphere is, the more pronounced the contact corrosion.

# Surfaces for special visual requirements or special environmental loads




**Applications with specific optical requirements or special environmental conditions**

Colour-coated products are becoming ever more popular. The coating may be required for optical reasons or for reasons of corrosion protection.

**Colour coatings for reasons of corrosion protection**

- Products in FT (hot-dip galvanised version)
- All RAL colours available
- Coating of the visible surfaces or the complete system
- Suitable for the colour of the structure when routed openly
- Separation of different voltages/functions (e.g. blue 230/400 V power supply; red weak current such as telephone cables and IT)

Colour-coated systems are not specifically indicated in this Industrial installation product catalogue. You can obtain details of these systems by contacting our telephone hotline on +49 23 73 89 - 17 00.

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# Plastic: materials and properties

Essentially plastics can be of one of three types: thermoplastics, elastomers and Duroplast.

**Thermoplastics**
are plastics that can be shaped within a specific temperature range. This process is reversible, in other words, thermoplastics can theoretically be cooled and then melted down again any number of times. Another unique advantage of thermoplastics is that they can be welded.

**Elastomers**
have a fixed shape, but can be elastically deformed. They can elastically deform under tensile and compressive stresses, but afterwards will return to their original shape. Elastomers are used for producing seals and membrane entries.

**Duroplast**
or thermosetting polymers/plastics, are plastics that can no longer be deformed following curing. Duroplasts produce hard, glass-like (brittle) polymeric materials with a high thermo-mechanical strength.

**Properties**
The area of application for which plastic OBO products are suitable depends mainly on the properties of the material being used. The most important material properties are:
- Temperature resistance
- Risk of stress cracks
- Chemical resistance
- Halogen freedom
- UV resistance
- Flame resistance

| | | Material | Max. temperature resistance Permanent | Max. temperature resistance Short-time | Min. temperature resistance Static |
|---|---|---|---|---|---|
| Thermoplast | ABS/ ASA | Acrylonitrile butadiene styrene | 70 °C | 85 °C | –25 °C |
| | EVA | Ethylene vinyl acetate | 55 °C | 70 °C | –15 °C |
| | PA | Polyamide | 120 °C | 150 °C | –25 °C |
| | PA/ GF | Polyamide, fibreglass reinforced | 120 °C | 160 °C | –25 °C |
| | PBPT | Polybutylene terephthalate | 120 °C | 140 °C | –25 °C |
| | PC | Polycarbonate | 110 °C | 125 °C | –25 °C |
| | PE | Polyethylene | 70 °C | 90 °C | –25 °C |
| | PP | Polypropylene | 90 °C | 110 °C | –25 °C |
| | PS | Polystyrene | 70 °C | 80 °C | –15 °C |
| | PVC | Polyvinyl chloride | 65 °C | 80 °C | –25 °C |
| Elastomers | NBR SBR | Rubber mixture | 100 °C | 110 °C | –25 °C |
| | NBR | Nitrile rubber | 100 °C | 110 °C | –25 °C |
| Duroplast | UF | Duroplast, aminoplast, type 131.5 | 65 °C | 90 °C | –25 °C |
| | MF | Duroplast, melamine resin, type 150 | 80 °C | 110 °C | –25 °C |

# Plastic: stress crack risk and chemical resistance

## Risk of stress cracks

| Medium | ABS/ ASA | UF | MF | EVA | NBR SBR | NBR | PA | PA/ GF | PBPT | PC | PE | PP | PS | PVC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Risk of stress cracks | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ○ | ○ | ✓ | ! | ✓ | ✗ | ○ |

Danger of tension cracks: ✓ Virtually negligible ○ Low ! High ✗ Very high

## Chemical resistance

| Medium | ABS/ ASA | UF | MF | EVA | NBR SBR | NBR | PA | PA/ GF | PBPT | PC | PE | PP | PS | PVC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Petroleum | ✓ | ✓ | ✓ | ○ | ✓ | ○ | ✓ | ✓ | ✓ | | ○ | ○ | ○ | ✓ |
| Fat | ✓ | ✓ | ✓ | ✓ | ✓ | ○ | ✓ | ✓ | ✓ | | | | ○ | ✓ |
| Benzole | ! | ✓ | ✓ | ○ | ✓ | ! | ✓ | ✓ | ○ | ! | ! | ○ | ! | ! |
| Solvents | ! | | | | | | ✓ | ✓ | ○ | | | | ! | ! |
| Formic acid | ✓ | ! | | | | | | | | | ! | ○ | | |
| Citric acid | ✓ | ! | | ○ | | | | | | | ! | | | |
| Lactic acid | ✓ | ! | | ○ | | | | | | | ! | ○ | ! | ! |
| Hydrochloric acid | ○ | ! | | | | | | | | | ✓ | | | ! |
| Sulphuric acid | ○ | ! | | | | | | | | | ✓ | | | ! |
| Acetone | ! | ✓ | | | | | ✓ | ✓ | ○ | ! | ! | ○ | ! | ! |
| Petrol | ! | ✓ | ✓ | ○ | ○ | ! | ✓ | ✓ | ✓ | ✓ | ! | ○ | ! | ✓ |
| Butyric acid | ! | ! | | ○ | | | | | | | ! | ○ | | ! |
| Chlorine | ! | | | | | | ! | ! | ! | ! | ! | ! | ! | |
| Acetic acid | ! | ! | | ○ | | | | | | | ! | | ! | |
| Nitric acid | ! | ! | | | | | | | | | ✓ | | ! | |
| Ester | | ✓ | ✓ | ○ | ! | ! | | | | | | | | |
| Alcohol | | ✓ | ✓ | ○ | | | ✓ | | | | | | ✓ | |
| Mild alkalis | | ✓ | ✓ | ✓ | ✓ | ✓ | ○ | ○ | ! | | ✓ | ✓ | | ✓ |
| Mild acids | | ○ | ○ | ✓ | ✓ | ✓ | ! | ! | ✓ | ✓ | ✓ | | | ✓ |
| Ether | | ✓ | ✓ | ○ | | | | | | | | | ! | |
| Water | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | |
| Strong acids | | ! | ! | ○ | | | | | ! | ! | ! | | | ! |
| Strong alkalis | | ! | ! | ✓ | | | | | ! | | ✓ | ✓ | | ✓ |
| Hydrofluoric acid | | | | ○ | | | | | | | ✓ | | | |
| Paraffin hydrocarbon | | | | ○ | | | | | | | | ○ | | |
| Haloalkanes | | | | ! | | | | | | | | | | |
| Ketones | | | | ! | ! | | | | | | | | ! | |
| Aldehyde | | | | ✓ | | | | | | | | | | |
| Organic acids | | | | ○ | | | | | | | ! | ○ | | |
| Seawater | | | | | ✓ | ✓ | | | | | | | | |
| Diesel fuel | | | | | | | ✓ | ✓ | ✓ | | ○ | ○ | ! | |
| Ammoniac | | | | | | | | | ○ | | | | ! | |

Resistance: ✓ Resistant ○ Limited resistance ! Not resistant

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Plastic: material properties




**Halogen freedom**
Estimates suggest that around 95% of fire victims die not due to the immediate effects of the fire, but of poisoning from the smoke. In addition, the corrosive fire gases created during fires cause immense damage to property and can permanently damage the structure of a building. Therefore, halogen-free installation systems must, or should, always be used in public areas (emergency routes, lifts, etc.). The chemical composition of these halogen-free systems is designed in such a way that, in the event of fire, they produce less hazardous (toxic/corrosive) gases, which could combine with extinguishing agents to form hydrochloric acid. In the sense of the standard DIN VDE 0472, this means that materials are considered halogen-free when "the proportions of the halogens chlorine, bromine and iodine are ≤ 0.2% for chlorine and ≤ 0.1% for fluorine". OBO Bettermann offers a wide range of halogen-free products that reduce the risk of harm to people and property to a minimum in case of fire.




**UV resistance**
Outdoor installations should always be viewed particularly critically with regard to the mounting locations and the selection of the installation materials.
UV radiation is damaging to many plastics, causing them to turn yellow and/or brittle or lose their elasticity. However, plastics can be protected against UV damage through the addition of UV stabilisers. Products made from UV-resistant materials are specially marked. In general, besides UV radiation, installations outdoors must also take other environmental influences into account. Factors such as maximum temperatures, regularity of (extreme) temperature changes, humidity and the location of use/mounting (housing, industry, town, region, continent) all have an important role to play here.



**Flame resistance/fire resistance**
Materials are described as flame-resistant if they prevent the spread of fire or are sufficiently fire-resistant. According to DIN EN 60695-2-11 (VDE 0471 Part 2–11), electrical connection materials must be subjected to a glow wire test in order to evaluate the fire risk of the end product. When the glow wire test is being carried out, a glowing wire (for temperature see table below) is inserted into the component to be tested for a period of 30 seconds and then removed. After a further 30 seconds at the latest, the object, if it has caught light, must have extinguished again, in order to specify the flame resistance.




## Types of installation systems

| Types of samples<br>Test temperatures in °C | Surface-mounted | Flush-mounted | In-plaster | Cavity wal-l/furniture | Concrete structure | Installation duct |
|---|---|---|---|---|---|---|
| Connection sockets | 650 | 650 | 750 | 850 | 650 | 750 |
| Device sockets and device connection sockets | 750 | 650 | - | 850 | 650 | 750 |
| Ceiling lights, connection sockets | 750 | 650 | - | 850 | 650 | 750 |
| Wall luminaire connection boxes | 750 | 650 | - | 850 | 650 | 750 |
| Device connection sockets | 750 | 650 | - | 850 | 650 | 750 |
| Connection sleeves | 750 | - | - | - | - | 750 |
| Insulation sections, which support active parts | 960 | - | - | - | - | - |
| Lid for installation sockets | 750 | - | - | - | - | - |

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Protection ratings




**IP protection rating**
The IP protection rating specifies how far a component is protected against contact and foreign bodies and the ingress of water. The IP protection ratings are controlled by the standard DIN EN 60529 (VDE 0470 Part 1). The IP is always made up of two digits.

The first digit designates the contact and foreign body protection. On the one hand, it specifies how far a housing prevents access to dangerous parts, by preventing or limiting the ingress of body parts or objects held by a person. On the other hand, it specifies how far the housing protects the installed resources against the ingress of solid foreign bodies.

## Protection rating

| First code digit | ...against access to the hazardous parts | ...against solid foreign bodies |
|---|---|---|
| 0 | Protected against access to hazardous parts with the back of the hand | Non-protected |
| 1 | Protected against access to hazardous parts with a finger | Protected against solid foreign bodies of 50 mm diameter and larger |
| 2 | Protected against access to hazardous parts with a tool | Protected against solid foreign bodies of 12.5 mm diameter and larger |
| 3 | Protected against access to hazardous parts with a wire | Protected against solid foreign bodies of 2.5 mm diameter and larger |
| 4 | Protected against access to hazardous parts with a wire | Protected against solid foreign bodies of 1.0 mm diameter and larger |
| 5 | Protected against access to hazardous parts with a wire | Dust-protected |
| 6 | Protected against access to hazardous parts with a wire | Dust-proof |

The second digit specifies the protection against water. It specifies how far the resource is protected against incoming water and the resulting damage.

**Protection rating against the entry of water with a damaging impact**

| Second code digit | Short description | Definition |
|---|---|---|
| 0 | Non-protected | - |
| 1 | Protected against water droplets | Droplets falling vertically must not have a damaging impact. |
| 2 | Protected against drip water when enclosure tilted up to 15° | Vertically falling drops must not have harmful effects when the enclosure is tilted at any angle up to 15° on either side of the vertical. |
| 3 | Protected against spray water | Water being sprayed at an angle of 60° on both sides of the vertical must not have any damaging impact. |
| 4 | Protected against spray water | Water spraying the housing from any direction must not have any damaging impact. |
| 5 | Protected against water jets | Jets of water pointing at the housing from any direction must not have any damaging impact. |
| 6 | Protected against strong water jets | Strong jets of water pointing at the housing from any direction must not have any damaging impact. |
| 7 | Protected against the effects of being temporarily immersed in water | If the housing is sometimes underwater under standard pressure and time conditions, then water may not enter in such volumes as would have a damaging impact. |
| 8 | Protected against the effects of being continuously immersed in water | Ingress of water in quantities causing harmful effects must not be possible when the housing is continuously immersed in water under conditions which shall be agreed between manufacturer and user. However, the conditions are more difficult to fulfil than for number 7. |




**IK code**

The IK code to DIN EN 50102 indicates the protection rating of housings against external mechanical loads. It is made up of the code letters IK and a two-digit number from 00 to 10. Each group of numbers stands for a load energy value in joules (J). The IK code always applies to the complete housing, which guarantees the protection of resources against the damaging effects of mechanical loads. The housings are tested by knocking them with different testing hammers.

| IK code | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Stress energy value [J] | - | 0.15 | 0.20 | 0.35 | 0.50 | 0.70 | 1 | 2 | 5 | 10 | 20 |

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Nominal values of electrical equipment



When using junction boxes, connection sockets and connection terminals, the resources are assigned nominal values. In the designation, a distinction is made between the maximum approved voltage (nominal voltage), the maximum approved current (nominal current) and the maximum approved cross-section (nominal cross-section of the cables to be connected).

2,5 mm²

**Nominal cross-section**
Largest tested-approved cross-section of the cables to be connected.

16 A

**Nominal current**
The nominal current is the highest permissible operating current that can be continuously passed through connections (e.g. terminals) marked with that value.

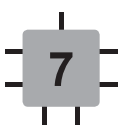
660 V

**Nominal voltage**
Greatest approved voltage at the connection point.

In addition to the nominal values, the number of entries for junction boxes and the number of poles of clamp connectors are also possible labels.

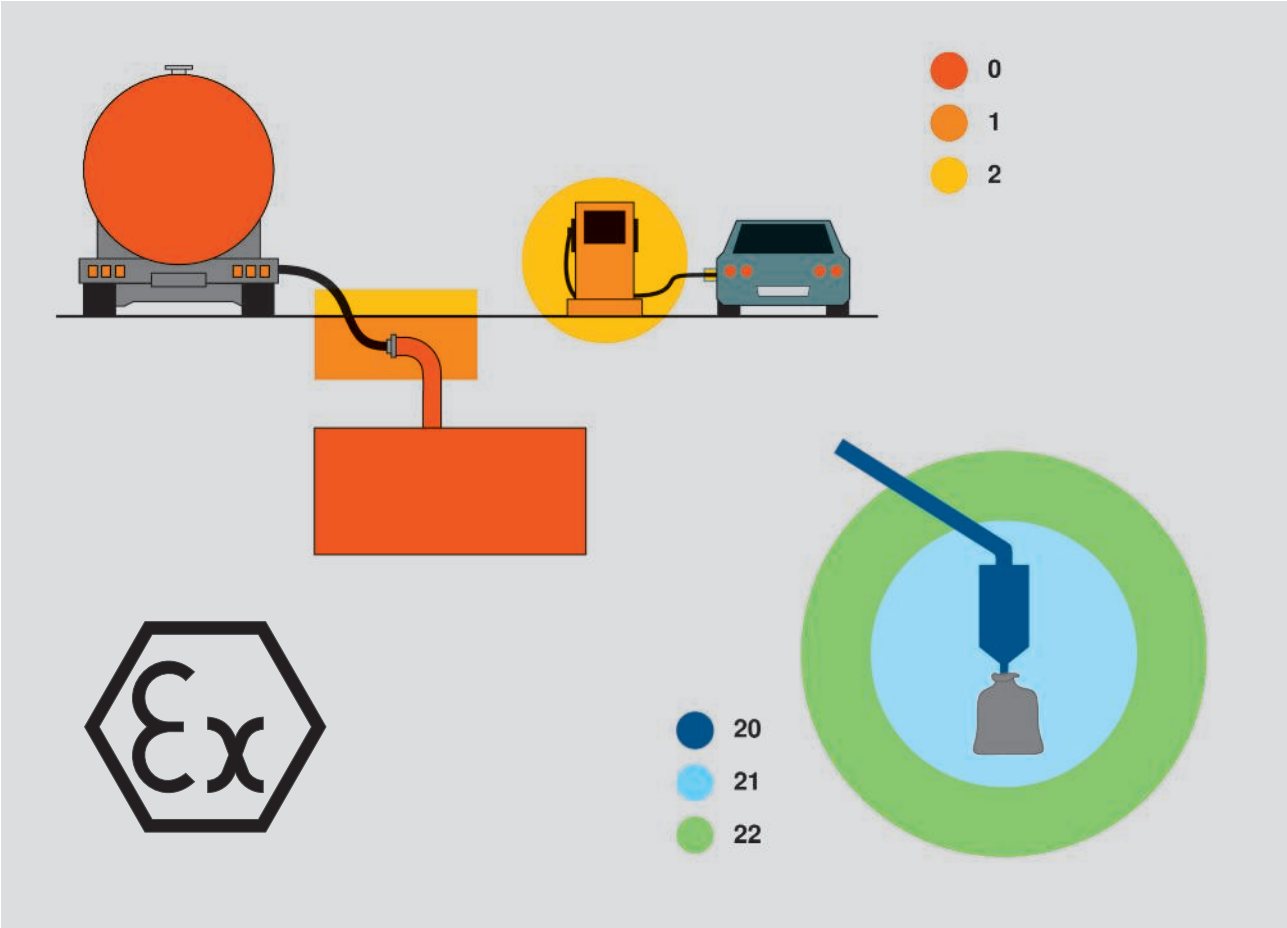



**No. of poles**
Number of connection points of the clamp connector.




**Number of entries**
Number of entries in an electrical connection box or connection socket.

# Zone division for explosive areas



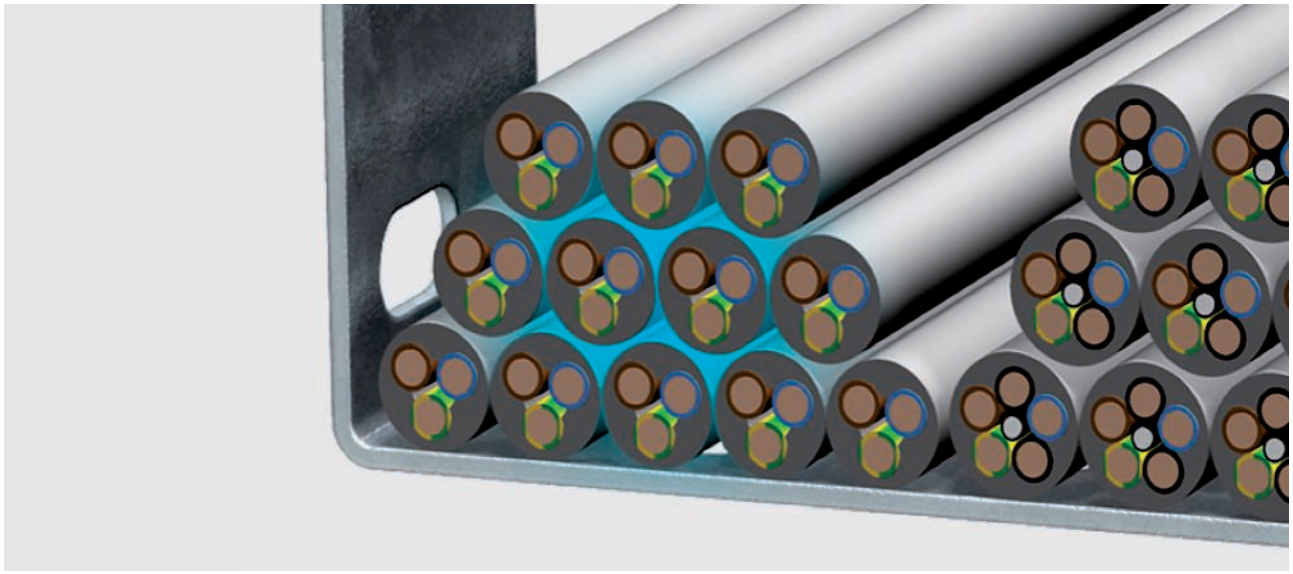

Products used in potentially explosive areas must comply with the ATEX directives. The ATEX workplace directive 1999/92/EC sets out the minimum requirements for improving the safety and health protection of workers at risk from potentially explosive atmospheres. The directive divides areas with dangerous, potentially explosive atmospheres into zones. Ex-tested products may be used in the respective zones in accordance with their approval.

### Zone allocation of device group II (applied)

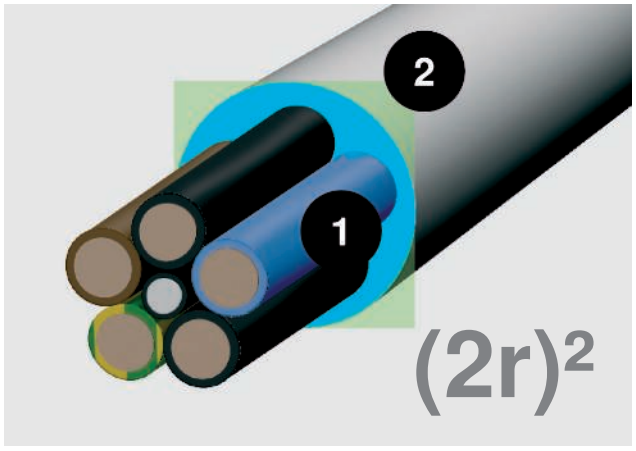
| Gas | Dust |
|---|---|
| **Explosive gas atmosphere, zone division to DIN EN 60079-10** | **Explosive dust/air mixtures, zone division to DIN EN 61214-10** |
| Zone 0 | Zone 20 |
| An area in which it can be expected that, under normal conditions, an explosive atmosphere of gas occurs continuously or for long periods of time. | An area in which it can be expected that, under normal conditions, an explosive atmosphere of dust/air occurs continuously or for long periods of time. |
| Zone 1 | Zone 21 |
| An area in which it can be expected that, under normal conditions, an explosive atmosphere of gas occasionally occurs. | An area in which it can be expected that, under normal conditions, an explosive atmosphere of dust/air occasionally occurs. |
| Zone 2 | Zone 22 |
| Area, in which it can be expected that, under normal conditions, an explosive atmosphere of gas seldom or only briefly occurs. | Area, in which it can be expected that, under normal conditions, an explosive atmosphere of dust/air seldom or only briefly occurs. |

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Cable sizes

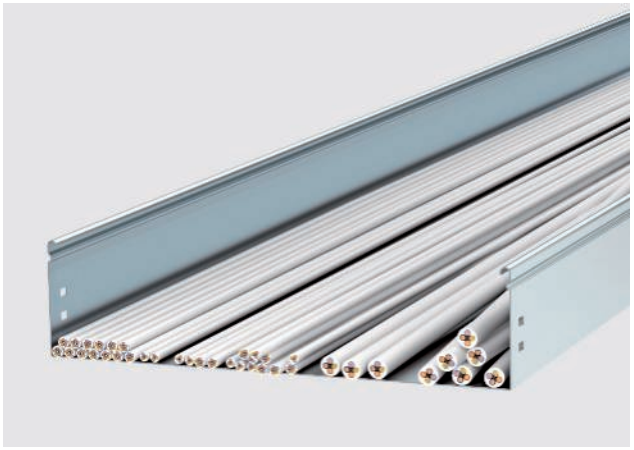


The term “cable” means a jacketed electrical cable for the transmission of electrical energy and data. Cables are given according to their nominal cross-section. The external diameter and usable cross-section depend on their nominal cross-section and the number of individual wires contained in the cable. When fastening clips or cable support systems are used, it is important to know the actual space requirements of the individual cables. It is not sufficient to take only the diameter as a basis for the calculation of the cable volume.




*Circular area (1) and space required (2)*

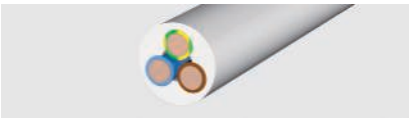
**Calculation with the formula (2r)²**
The diameter says little about the actual space required by a cable. Calculate: (2r)². This value reflects the realistic space requirements, including the compartments.



To save you work, we have listed the diameter and usable cross-section of the most important cable types below.

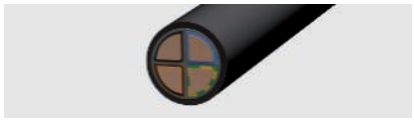
**Important:**
These values are average values, which may vary from manufacturer to manufacturer. Please refer to the manufacturer's specifications for the exact values.

# Basic values for the calculation of the cable volume



## Insulated power cables

| Type | Diameter mm | Usable cross-section cm² |
|---|---|---|
| 1 x 4 | 6.5 | 0.42 |
| 1 x 6 | 7 | 0.49 |
| 1 x 10 | 8 | 0.64 |
| 1 x 16 | 9.5 | 0.9 |
| 1 x 25 | 12.5 | 1.56 |
| 3 x 1.5 | 8.5 | 0.72 |
| 3 x 2.5 | 9.5 | 0.9 |
| 3 x 4 | 11 | 1.21 |
| 4 x 1.5 | 9 | 0.81 |
| 4 x 2.5 | 10.5 | 1.1 |
| 4 x 4 | 12.5 | 1.56 |
| 4 x 6 | 13.5 | 1.82 |
| 4 x 10 | 16.5 | 2.72 |
| 4 x 16 | 19 | 3.61 |
| 4 x 25 | 23.5 | 5.52 |
| 4 x 35 | 26 | 6.76 |
| 5 x 1.5 | 9.5 | 0.9 |
| 5 x 2.5 | 11 | 1.21 |
| 5 x 4 | 13.5 | 1.82 |
| 5 x 6 | 14.5 | 2.1 |
| 5 x 10 | 18 | 3.24 |
| 5 x 16 | 21.5 | 4.62 |
| 5 x 25 | 26 | 6.76 |
| 7 x 1.5 | 10.5 | 1.1 |
| 7 x 2.5 | 13 | 1.69 |



## Insulated power cables

| Type | Diameter mm | Usable cross-section cm² |
|---|---|---|
| 1 x 10 | 10.5 | 1.1 |
| 1 x 16 | 11.5 | 1.32 |
| 1 x 25 | 12.5 | 1.56 |
| 1 x 35 | 13.5 | 1.82 |
| 1 x 50 | 15.5 | 2.4 |
| 1 x 70 | 16.5 | 2.72 |
| 1 x 95 | 18.5 | 3.42 |
| 1 x 120 | 20.5 | 4.2 |
| 1 x 150 | 22.5 | 5.06 |
| 1 x 185 | 25 | 6.25 |
| 1 x 240 | 28 | 7.84 |
| 1 x 300 | 30 | 9 |
| 3 x 1.5 | 11.5 | 1.32 |
| 3 x 2.5 | 12.5 | 1.56 |
| 3 x 10 | 17.5 | 3.06 |
| 3 x 16 | 19.5 | 3.8 |
| 3 x 50 | 26 | 6.76 |
| 3 x 70 | 30 | 9 |
| 3 x 120 | 36 | 12.96 |
| 4 x 1.5 | 12.5 | 1.56 |
| 4 x 2.5 | 13.5 | 1.82 |
| 4 x 6 | 16.5 | 2.72 |
| 4 x 10 | 18.5 | 3.42 |
| 4 x 16 | 21.5 | 4.62 |
| 4 x 25 | 25.5 | 6.5 |
| 4 x 35 | 28 | 7.84 |
| 4 x 50 | 30 | 9 |
| 4 x 70 | 34 | 11.56 |
| 4 x 95 | 39 | 15.21 |
| 4 x 120 | 42 | 17.64 |
| 4 x 150 | 47 | 22 |
| 4 x 185 | 52 | 27 |
| 4 x 240 | 58 | 33.6 |
| 5 x 1.5 | 13.5 | 1.82 |
| 5 x 2.5 | 14.5 | 2.1 |
| 5 x 6 | 18.5 | 3.42 |
| 5 x 10 | 20.5 | 4.2 |
| 5 x 16 | 22.5 | 5.06 |
| 5 x 25 | 27.5 | 7.56 |
| 5 x 35 | 34 | 11.56 |
| 5 x 50 | 40 | 16 |



## Telecommunications cables

| Type | Diameter mm | Usable cross-section cm² |
|---|---|---|
| 2 x 2 x 0.6 | 5 | 0.25 |
| 4 x 2 x 0.6 | 5.5 | 0.3 |
| 6 x 2 x 0.6 | 6.5 | 0.42 |
| 10 x 2 x 0.6 | 7.5 | 0.56 |
| 20 x 2 x 0.6 | 9 | 0.81 |
| 40 x 2 x 0.6 | 11 | 1.12 |
| 60 x 2 x 0.6 | 13 | 1.69 |
| 100 x 2 x 0.6 | 17 | 2.89 |
| 200 x 2 x 0.6 | 23 | 5.29 |
| 2 x 2 x 0.8 | 6 | 0.36 |
| 4 x 2 x 0.8 | 7 | 0.49 |
| 6 x 2 x 0.8 | 8.5 | 0.72 |
| 10 x 2 x 0.8 | 9.5 | 0.9 |
| 20 x 2 x 0.8 | 13 | 1.69 |
| 40 x 2 x 0.8 | 16.5 | 2.72 |
| 60 x 2 x 0.8 | 20 | 4 |
| 100 x 2 x 0.8 | 25.5 | 6.5 |
| 200 x 2 x 0.8 | 32 | 10.24 |



## IT cables type Cat...

| Type | Diameter mm | Usable cross-section cm² |
|---|---|---|
| Cat. 5 | 8 | 0.64 |
| Cat. 6 | 8 | 0.64 |



## Coax cable (Standard)

| Type | Diameter mm | Usable cross-section cm² |
|---|---|---|
| SAT/BK cable | 6.8 | 0.48 |

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Selection of the correct fastening clip



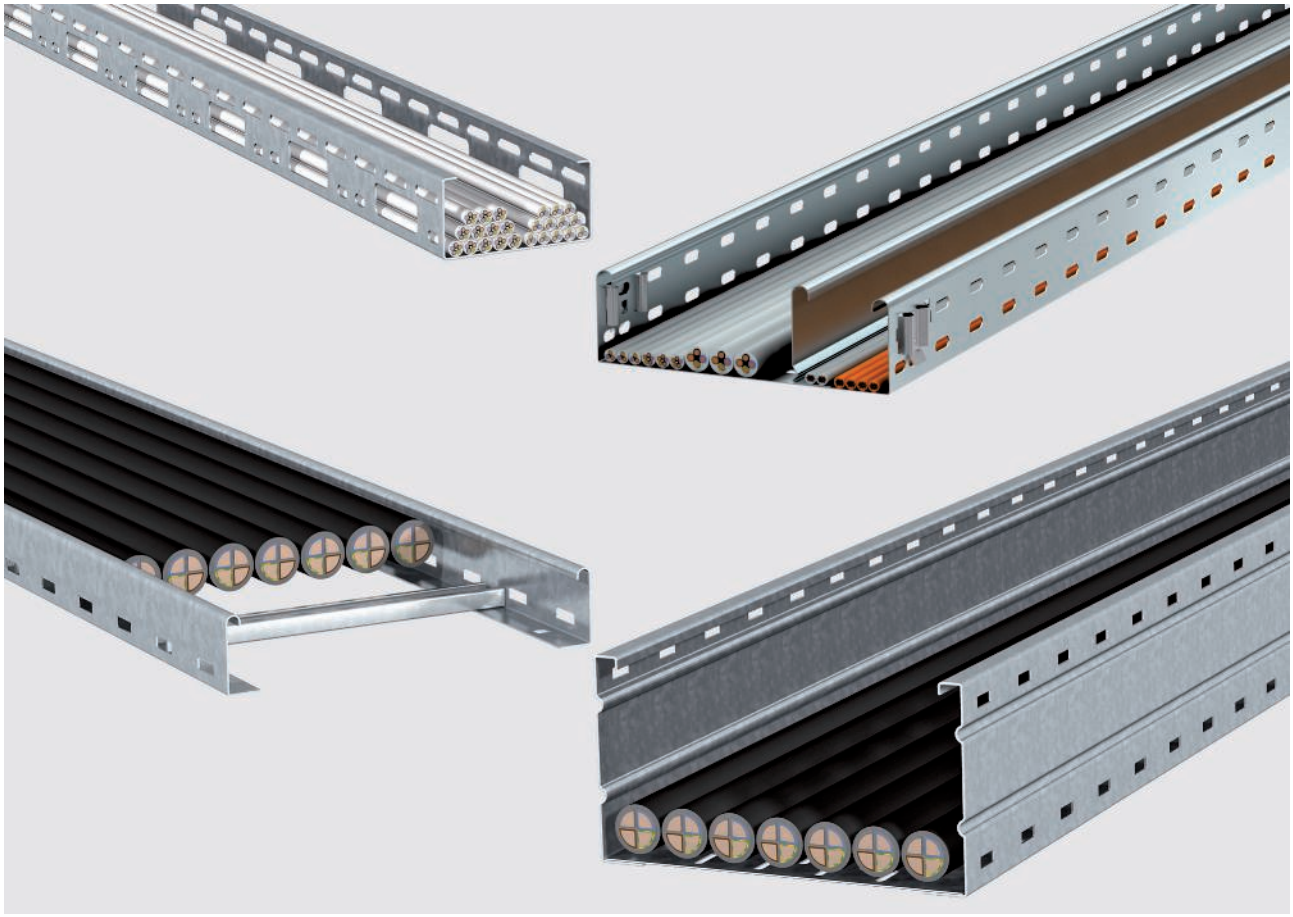
Fastening clips are given with their maximum span distance as a nominal size in mm. This makes it easy to determine the appropriate clip for the planned cable volume. If the necessary clamping range is between two nominal sizes, e.g. 16 mm, we recommend using the smaller nominal size.

If cables are not fastened directly in the clip, but routed through an installation pipe for example, the relationship between the external diameter and metric or PG sizes must be observed when selecting the correct fastening clip. You will find more information on this in the table below.

### Overview of external diameters, metric and PG sizes

| External diameter in mm | Metric size | PG size |
|---|---|---|
| Up to 12 | M12 | PG 7 |
| Up to 16 | M16 | PG 9/PG 11 |
| Up to 20 | M20 | PG 13.5/PG 16 |
| Up to 25 | M25 | PG 21 |
| Up to 32 | M32 | PG 21 |
| Up to 40 | M40 | PG 36 |
| Up to 50 | M50 | PG 42/PG 48 |
| Up to 63 | M63 | - |

# Selection of the correct cable support system



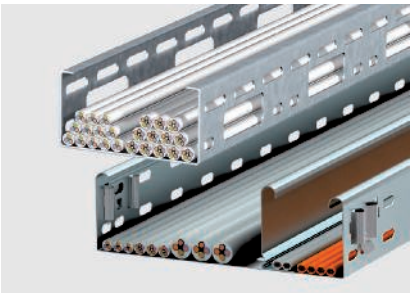
When selecting the right cable support system, the cable volume is not the only decisive factor. The type of cabling, method of laying and cable weight all play an important role. The most important aspects are explained on the following pages.

**Cable types**

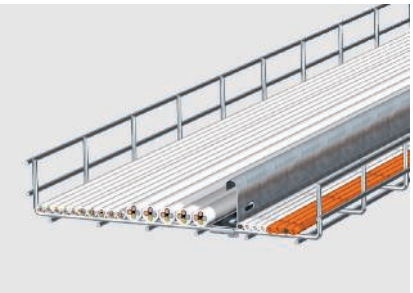
Not all cables are the same. To select the perfect cable support system, you need to know which type of cables are to be laid: Are they sensitive data cables, which must be laid at a certain distance from each other on account of the necessary shielding? Or power cables, for which a not inconsiderable heat build-up must be taken into account? For all these applications OBO can offer tailor-made system solutions.

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# System types



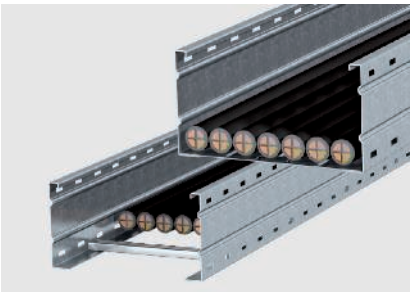
**Universal cable trays**
Areas of application: From low-voltage cabling to power supply.



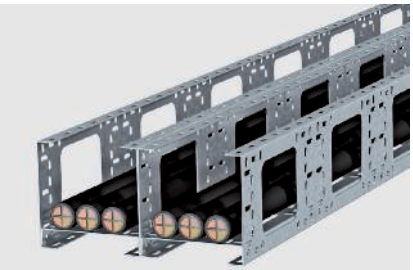
**Mesh cable trays for the installation of light cables**
Areas of application: IT cabling, telephone cabling and control cables. Also suitable for use in false ceilings and cavity floors.



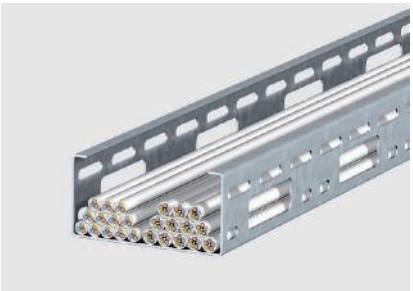
**Cable ladders for power cables with a large cross-section**
Areas of application: Cables and power conductors with large cross-sections. These can be fastened to the rungs using clamp clips. The high load capacity and good ventilation ensure perfect cable laying.



**Wide span cable trays and ladders for large support distances**
Areas of application: For installations in which the support distances are more than three metres, on account of the construction conditions.



**Modular system for special tasks**
The product range that knows no bounds. The range of individually combinable products is particularly suited to complex installation tasks.



**AZ small duct for universal use**
Areas of application: for luminaire support systems through to low-voltage cabling and power supply.

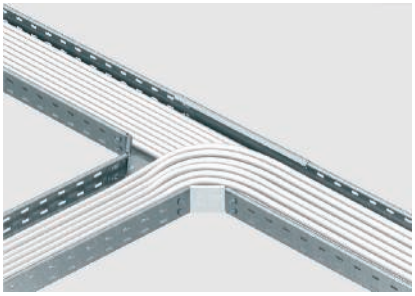
# Finding the appropriate system for the planned cable volume



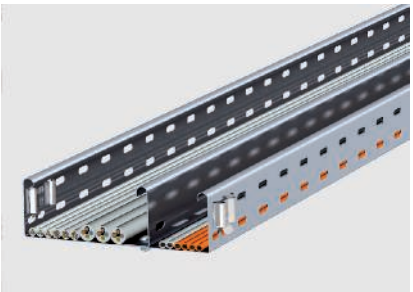
**Cable height**
The cable height may not exceed the edge height of the cable tray.



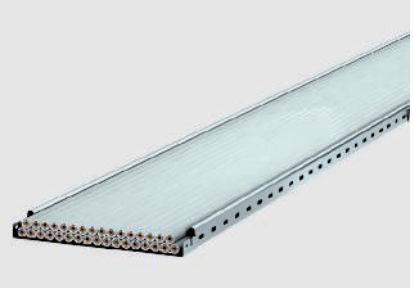
**Volume reserve**
When selecting the system, a volume reserve of at least 30% should be planned for possible later installations.



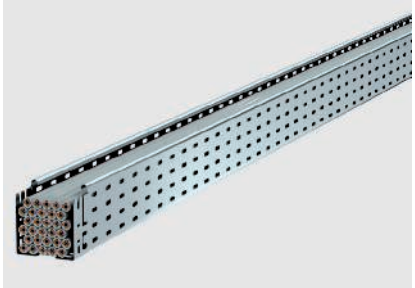
**Branches**
When dimensioning branches, the bending radii of the cables must be taken into account.



**Separation of system levels**
When selecting the volume, pay attention to the different conductors. To separate different voltage levels, you must take the required spacings into account.



**Same usable cross-section, different requirements**
There are different requirements for laying data and power cables. Even if the usable cross-section or cable volume is the same, data cables tend to have a narrow, high tray, whereas power cables require a wide, flat version to avoid heat build-up.

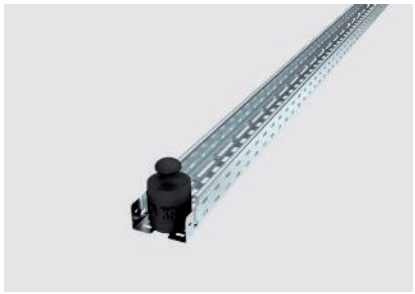


**Examples**
Flat, wide variant:
- e.g. for power cables
- Cable tray width: 300 mm
- Side height: 35 mm
- Usable cross-section: 103 cm²

Narrow, high variant:
- e.g. for data cables
- Cable tray width: 100 mm
- Side height: 110 mm
- Usable cross-section: 108 cm²

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Calculating the cable load



100 mm = 15 kg/m



200 mm = 30 kg/m



300 mm = 45 kg/m



400 mm = 60 kg/m



500 mm = 75 kg/m



600 mm = 90 kg/m

Of equal significance for the selection of the most suitable cable support system is the load capacity. This must be matched with the expected cable weight (including the reserve for later installation). There are three variants for determining the cable weight:

**Variant 1: Orientation to experience values**
The average load capacity of a cable tray can be calculated roughly using experience values. For a system with a strut height of 60 mm, a value of 15 kg per 100 mm width is valid for each metre of cable tray or cable ladder. However, more accurate than orientation to experience values is to calculate the cable load using the formula from DIN VDE 0639 Part 1 (Variant 2) or the manufacturer's specifications (Variant 3).
The graphics show the load capacities, based on experience values, of cable trays with a rail height of 60 mm, relative to cable tray widths of 100 to 600 mm.

**Variant 2: Calculation formula according to VDE 0639 T1**
DIN VDE 0639 Part 1 (cable support systems) offers a formula for calculating the maximum permitted cable load. In the example calculation below, the maximum approved cable load for a cable tray is worked out using the dimension 60 x 300 mm and a usable cross-section of 178 cm².

**Variant 3: Exact calculation according to manufacturer‘s specifications**
Most cable manufacturers offer a very accurate method of calculating cable weights, and appropriate lists or tables can be obtained from them. Important: The following tables only provide a rough overview. They are average values, which may vary from manufacturer to manufacturer. Please refer to the manufacturer‘s specifications for the exact values.

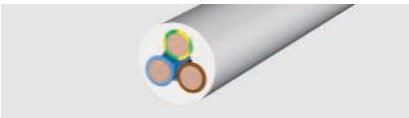
| | | |
|---|---|---|
| | 0.028 N | |
| Cable load (F) = | ––––– | x Usable cross-section |
| | m x mm² | |

| | | |
|---|---|---|
| | 0.028 N | |
| 1. Cable load (F) = | ––––– | x 17,800 mm² = 500 N/m |
| | m x mm² | |

2. Conversion from Newtons (N) to kilogrammes (kg)
10 N ~ 1 kg – in our example, this means: 500 N/m = 50 kg/m

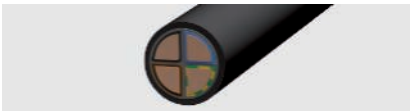
3. Maximum occurring load = 50 kg/m

# Actual cable load of different cable types



## Insulated power cables

| Type | Cable load kg/m |
|---|---|
| 1 x 4 | 0.08 |
| 1 x 6 | 0.105 |
| 1 x 10 | 0.155 |
| 1 x 16 | 0.23 |
| 1 x 25 | 0.33 |
| 3 x 1.5 | 0.135 |
| 3 x 2.5 | 0.19 |
| 3 x 4 | 0.265 |
| 4 x 1.5 | 0.16 |
| 4 x 2.5 | 0.23 |
| 4 x 4 | 0.33 |
| 4 x 6 | 0.46 |
| 4 x 10 | 0.69 |
| 4 x 16 | 1.09 |
| 4 x 25 | 1.64 |
| 4 x 35 | 2.09 |
| 5 x 1.5 | 0.19 |
| 5 x 2.5 | 0.27 |
| 5 x 4 | 0.41 |
| 5 x 6 | 0.54 |
| 5 x 10 | 0.85 |
| 5 x 16 | 1.35 |
| 5 x 25 | 1.99 |
| 7 x 1.5 | 0.235 |
| 7 x 2.5 | 0.35 |



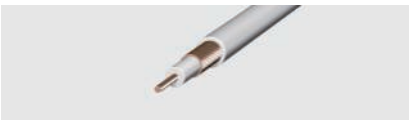
## Insulated power cables

| Type | Cable load kg/m |
|---|---|
| 1 x 10 | 0.18 |
| 1 x 16 | 0.24 |
| 1 x 25 | 0.35 |
| 1 x 35 | 0.46 |
| 1 x 50 | 0.6 |
| 1 x 70 | 0.8 |
| 1 x 95 | 1.1 |
| 1 x 120 | 1.35 |
| 1 x 150 | 1.65 |
| 1 x 185 | 2 |
| 1 x 240 | 2.6 |
| 1 x 300 | 3.2 |
| 3 x 1.5 | 0.19 |
| 3 x 2.5 | 0.24 |
| 3 x 10 | 0.58 |
| 3 x 16 | 0.81 |
| 3 x 50 | 1.8 |
| 3 x 70 | 2.4 |
| 3 x 120 | 4 |
| 4 x 1.5 | 0.22 |
| 4 x 2.5 | 0.29 |
| 4 x 6 | 0.4 |
| 4 x 16 | 1.05 |
| 4 x 25 | 1.6 |
| 4 x 35 | 1.75 |
| 4 x 50 | 2.3 |
| 4 x 70 | 3.1 |
| 4 x 95 | 4.2 |
| 4 x 120 | 5.2 |
| 4 x 150 | 6.4 |
| 4 x 185 | 8.05 |
| 4 x 240 | 11 |
| 5 x 1.5 | 0.27 |
| 5 x 2.5 | 0.35 |
| 5 x 6 | 0.61 |
| 5 x 10 | 0.88 |
| 5 x 16 | 1.25 |
| 5 x 25 | 1.95 |
| 5 x 35 | 2.4 |
| 5 x 50 | 3.5 |



## Telecommunications cables

| Type | Cable load kg/m |
|---|---|
| 2 x 2 x 0.6 | 0.03 |
| 4 x 2 x 0.6 | 0.035 |
| 6 x 2 x 0.6 | 0.05 |
| 10 x 2 x 0.6 | 0.065 |
| 20 x 2 x 0.6 | 0.11 |
| 40 x 2 x 0.6 | 0.2 |
| 60 x 2 x 0.6 | 0.275 |
| 100 x 2 x 0.6 | 0.445 |
| 200 x 2 x 0.6 | 0.87 |
| 2 x 2 x 0.8 | 0.04 |
| 4 x 2 x 0.8 | 0.055 |
| 6 x 2 x 0.8 | 0.08 |
| 10 x 2 x 0.8 | 0.115 |
| 20 x 2 x 0.8 | 0.205 |
| 40 x 2 x 0.8 | 0.38 |
| 60 x 2 x 0.8 | 0.54 |
| 100 x 2 x 0.8 | 0.875 |
| 200 x 2 x 0.8 | 1.79 |



## Coax cable (standard)

| Type | Cable load kg/m |
|---|---|
| SAT/BK cable | 0.06 |

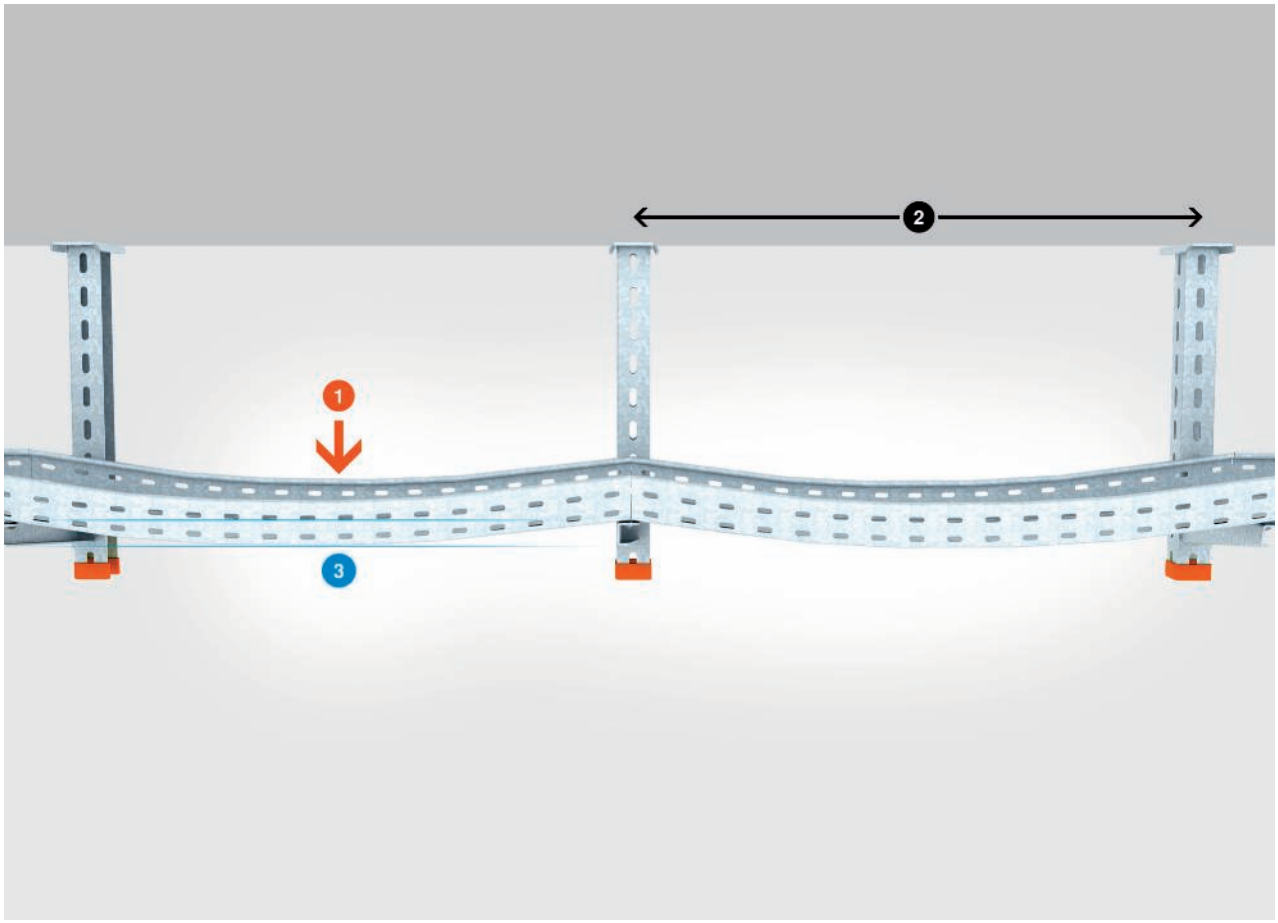


## IT cables type Cat...

| Type | Cable load kg/m |
|---|---|
| Cat. 5 | 0.06 |
| Cat. 6 | 0.06 |

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

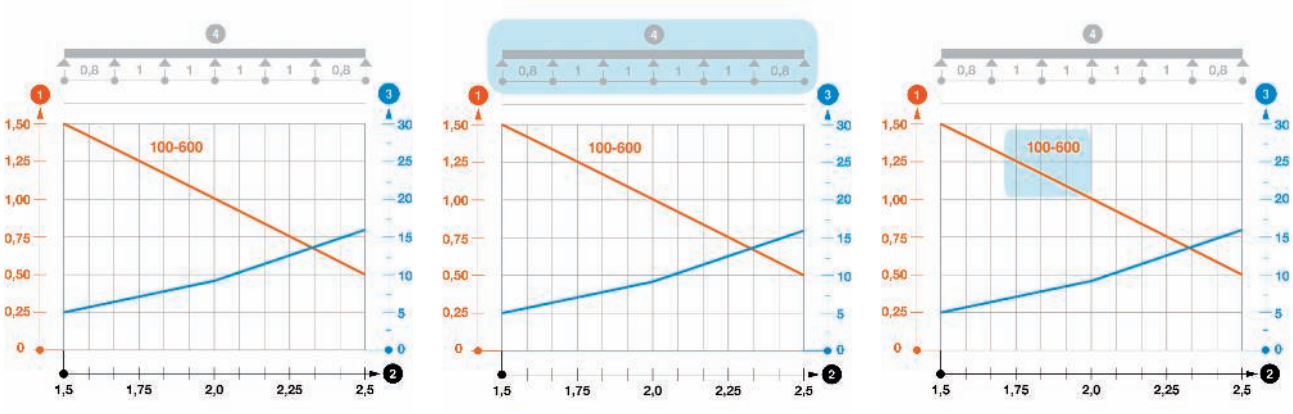
# Finding the appropriate system for the cable load




Explanation of the pictograms: 1 = load in kN without man load, 2 = support width in m, 3 = strut bend in mm

**Load tests for cable support systems**
All OBO products and systems are subjected to practical load testing. The basic principles for the tests of OBO cable support systems are DIN EN 61537 and DIN VDE 0639. After the load test, the maximum load capacity can be determined for each component, depending on the support distances and specific article parameters, such as component dimensions. This is all shown in a chart, included with each component.
You can find additional information on the load tests for cable trays, brackets and suspended supports on the following pages. The values given do not take into account resistance against environmental forces such as snow, wind and other outside influences.

# Finding the appropriate system for the cable load



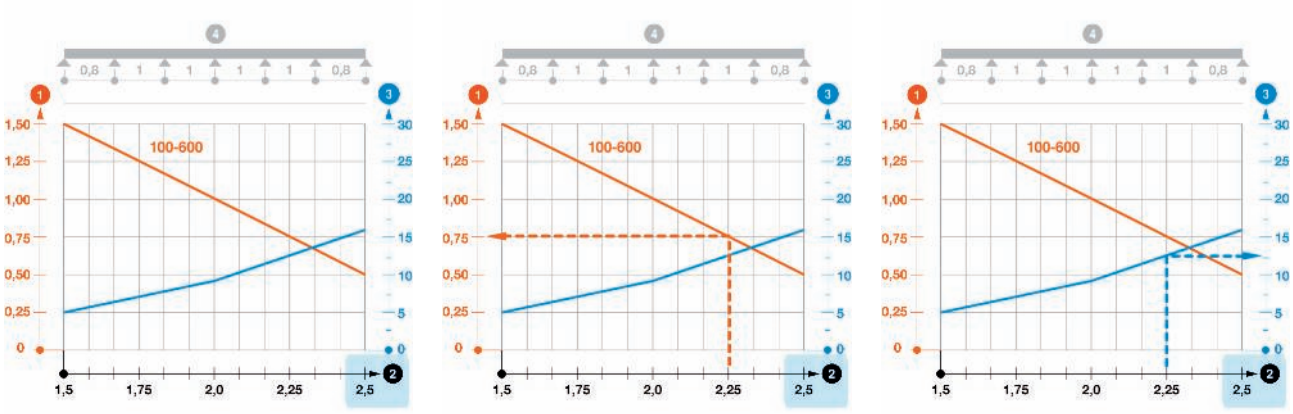

**Load diagram, legend**
1 = Load in kN/m
without human load
2 = Support width in m
3 = Strut bending in mm
4 = Schematic diagram
of the support widths during
the testing process
– = Approved load according to the support widths for the different tray widths
– = Rail bending according to support width

**Information 1: The testing process**
The basic principles of the tests of OBO cable support systems come from VDE 0639 Part 1 and DIN EN 61537. The purpose of the tests is to determine the maximum load capacities for each component, depending on parameters such as component width, support spacing, etc. and to present this in a diagram to be included with each component.
The area highlighted in blue in the example schematises the experiment set-up with a variable support spacing (L) in the central area and a factor of 0.8 x L at the front and rear ends of the cable tray.

**Information 2: Load curves for selected cable tray or cable ladder widths**
The load capacity of the cable trays according to the support width can be read off in the diagram using the load curves – this is an example for a cable tray for the tray widths 100 to 600 mm. It may occur that in the load curves, width differences must be made, allowing multiple curves to be visible simultaneously in the diagram. A key factor for the load capacity of the cable trays is (in addition to the support spacing and side height) the material thickness, which varies according to type.

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Finding the appropriate system for the cable load



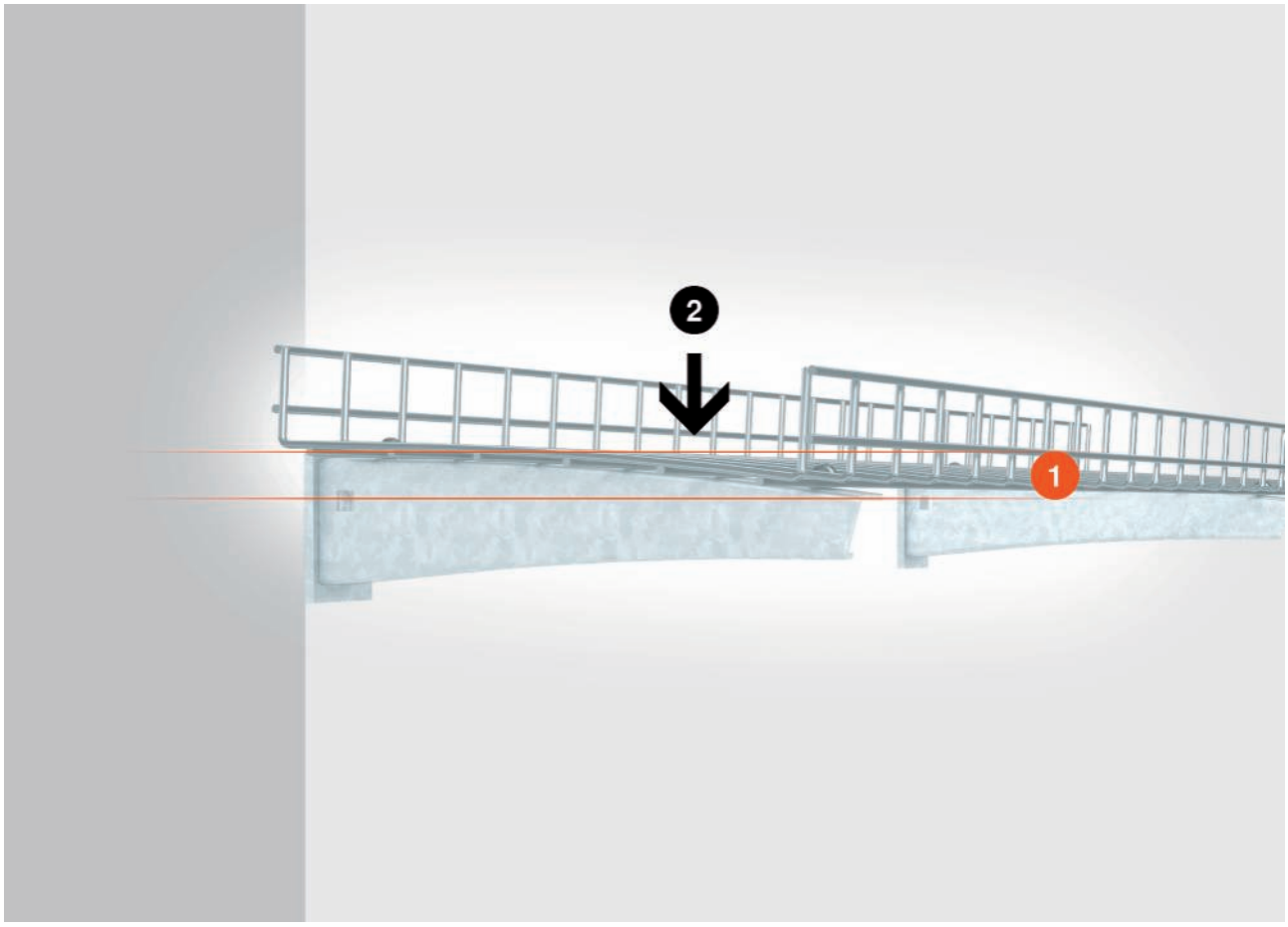

**Information 3: Possible support spacings**
The theoretically possible spans for the cable tray can be read off on the axis at the foot of the table. Using the load curves, it is easy to read off to what extent the load capacity of the system falls as the support spacing grows. On all OBO cable support systems (with the exception of the wide span trays), we recommend not exceeding a support spacing of 1.5 m, if possible.

**Information 4: Ratio: load/span**
Which load is possible at which support spacing? With the diagram, you can find the appropriate information at a glance. In our example (with the blue background), a span of 2.25 m for the tray produces a maximum load capacity of 0.75 kN for each running metre of cable tray. Please note that in this example, the volume of the cable tray may exceed the permitted load. Therefore if at all possible, do not exceed the support spacing of 1.5 m, as recommended by OBO.

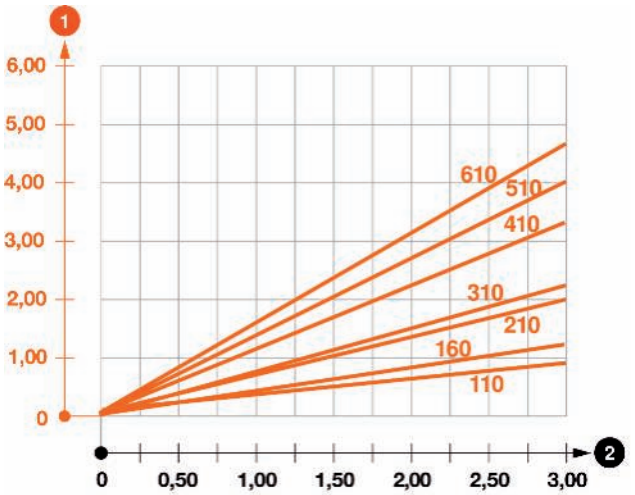
**Information 5: W = Rail bending**
To what extent does the load on a cable tray cause the rail to bend? This information is supplied by the blue curve (w) in millimetres (orientation values on the axis on the right-hand side of the diagram).

The course of the blue curve clearly shows how quickly the cable tray will sag as the support spacing increases. In our example, the bend at a support spacing of 2.25 m is shown, here approximately 12 mm.

# Finding the appropriate bracket for the cable load



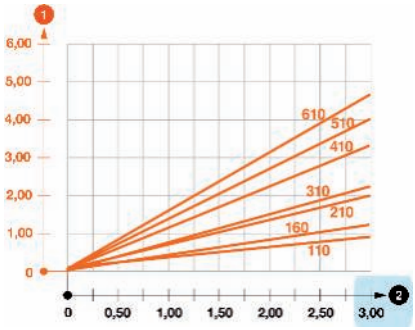

Key components of the OBO cable support systems are the parts for mounting, in particular the brackets and suspended supports. They connect the cable trays and ladders to the wall and to the ceiling, and are thus an important construction element of the overall system. When calculating the load capacity of a cable support system, the brackets and suspended supports must not be forgotten. The test diagram is also useful in selecting the right products.



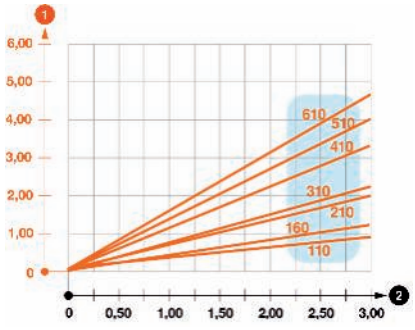

*Load diagram, legend*
*1 = Bend in mm at the bracket tip*
*2 = Load without man load in kN/m*
*-- = Load curves for the different bracket lengths*

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

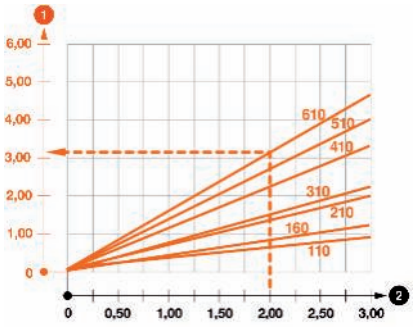
# Finding the appropriate bracket for the cable load



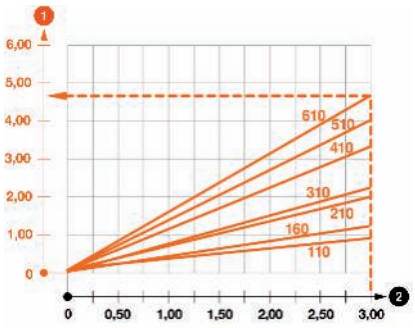

**Information 1: Recommended maximum load of the brackets**
The bracket is the part of the installation system upon which the cable tray or mesh cable tray is located. It is either directly connected to the wall or is connected to the ceiling using supports. The grey bar on the right edge of the diagram provides information on the maximum load capacity of the bracket.




**Information 2: Load curves for all bracket widths**
The bending of the bracket is dependent on its width, which in our example, can range from 110 mm to 610 mm. The load curves are assigned to the appropriate bracket type.

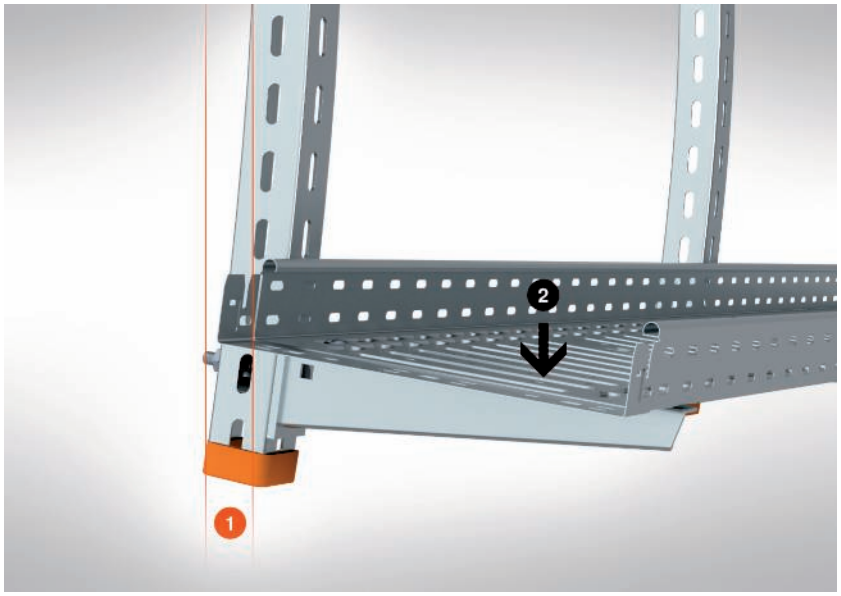


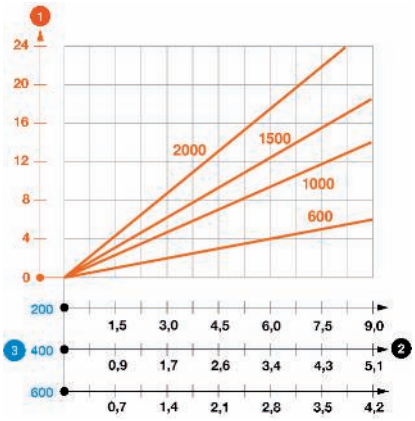

**Information 3: Bending of the bracket tip at a specific load**
The load curve in the diagram provides information on the bending of the boom tip at a specific load. In our example (dotted orange line), a 610 mm-wide bracket with a load of 2 kN bends by approx. 3.1 mm. A basic rule of thumb is: The shorter the bracket, the less the bend will be.



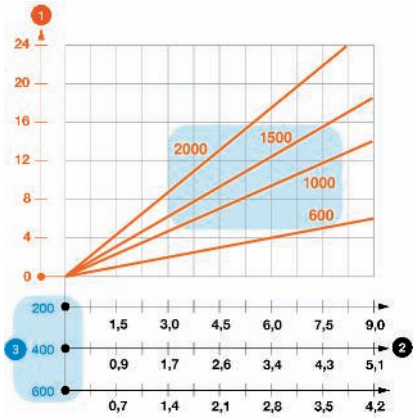

**Information 4: Bending of the bracket tip at maximum load**
The bending factor of the bracket at maximum load can also be seen in the diagram. In our example (shown in orange), the bend value for a 610 mm-wide bracket at a maximum load of approx. 3.0 kN is approximately 4.5 mm. To minimise the bend, the centre of gravity of the cable load should be as close as possible to the wall or the support fastening.

# Finding the appropriate support for the cable load

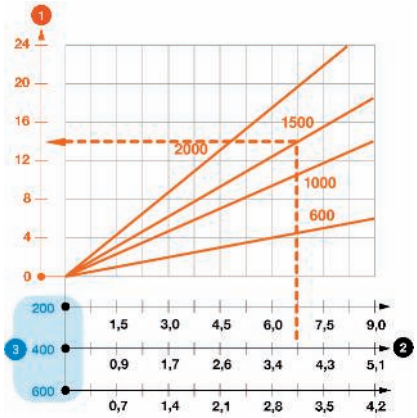


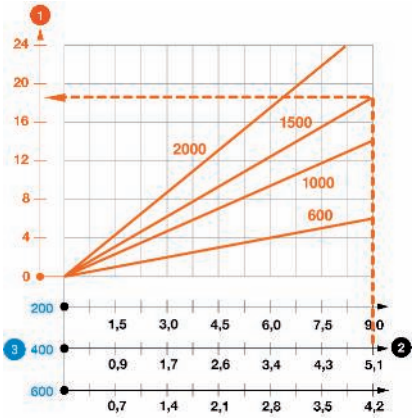

**Load diagram, legend**
1 = Bend in mm at the bracket tip
2 = Load without man load in kN/m
-- = Load curves for the different bracket lengths




**Information 1: Various support lengths and bracket widths**
The load capacity of a cable support system is not just dependent on the width of a bracket, but also on the length of a suspended support. The load curves in the diagram provide information on the load capacity of a suspended support of length 600, 1,000, 1,500 or 2,000 mm, taking the bracket width into account.




**Information 2: Calculation of the deflection for the example**
The weight of the total suspended support/bracket/cable tray system causes an excursion of the suspended support from the vertical. The excursion value can be read off from the axis on the left edge of the diagram. In our example (blue background), a 1,500 mm-long suspended support, together with a 400 mm-wide bracket and a weight load of 4 kN at the end of the support, will produce an excursion of approximately 14 mm.




**Information 3: Calculation of the excursion at maximum load for the example**
The excursion of the suspended support at a maximum load can also be read off on the diagram. Our blue example shows an excursion of roughly 18 mm at the end of the support for a 1,500 mm-long suspended support, in combination with a 400 mm-wide bracket at a maximum cable load of approximately 5 kN.

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Cable glands and the DIN EN 62444 standard

Cable glands are manufactured and tested according to DIN EN 62444. Amongst other things, this standard controls the retaining ability and strain relief of cables. The V-TEC cable glands from OBO Bettermann correspond to version “A”. Table 2A indicates the extraction forces that these cable glands must withstand according to the standard. The V-TEC cable glands also fulfil the requirements of DIN EN 62444 with regard to the twist protection of cables (see Table 3). To ensure the tested dust and moisture protection of the cable glands, continuous perforations should correspond to the mounting openings specified in the standard DIN EN 62444 according to Table 1. The on-site specialist must ensure that these parameters are complied with in order to hand over a functioning system.

**Table 1**

| Size of the penetration hole | mm | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 75 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thread of the cable gland | M | M6 | M8 | M10 | M12 | M16 | M20 | M25 | M32 | M40 | M50 | M63 | M75 |
| Diameter of the mounting hole (+0.2/–0.4) | mm | 6.5 | 8.5 | 10.5 | 12.5 | 16.5 | 20.5 | 25.5 | 32.5 | 40.5 | 50.5 | 63.5 | 75.5 |

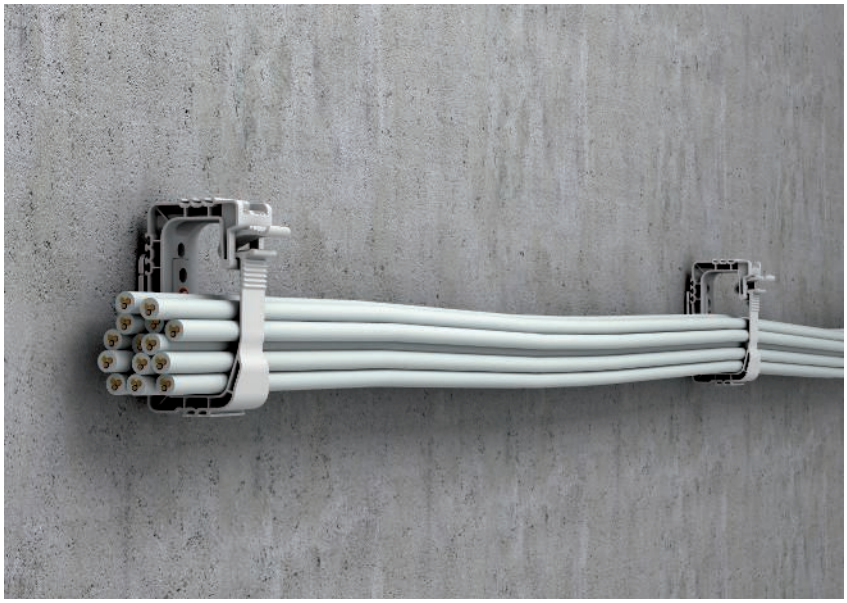
**Table 2 A**

| Cable diameter | Retaining capacity | Strain relief, version A |
|---|---|---|
| mm | N | N |
| to 4 | 5 | – |
| >4 to 8 | 10 | 30 |
| >8 to 11 | 15 | 42 |
| >11 to 16 | 20 | 55 |
| >16 to 23 | 25 | 70 |
| >23 to 31 | 30 | 80 |
| >31 to 43 | 45 | 90 |
| >43 to 55 | 55 | 100 |
| >55 | 70 | 115 |

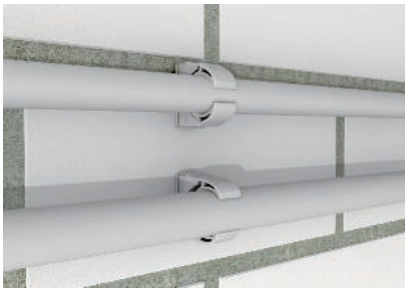
**Table 3**

| Cable diameter | Torque<br>Version A and B |
|---|---|
| mm | Nm |
| >4 to 8 | 0.10 |
| >8 to 11 | 0.15 |
| >11 to 16 | 0.35 |
| >16 to 23 | 0.60 |
| >23 to 31 | 0.80 |
| >31 to 43 | 0.90 |
| >43 to 55 | 1.00 |
| >55 | 1.20 |

# Information on cable fastenings







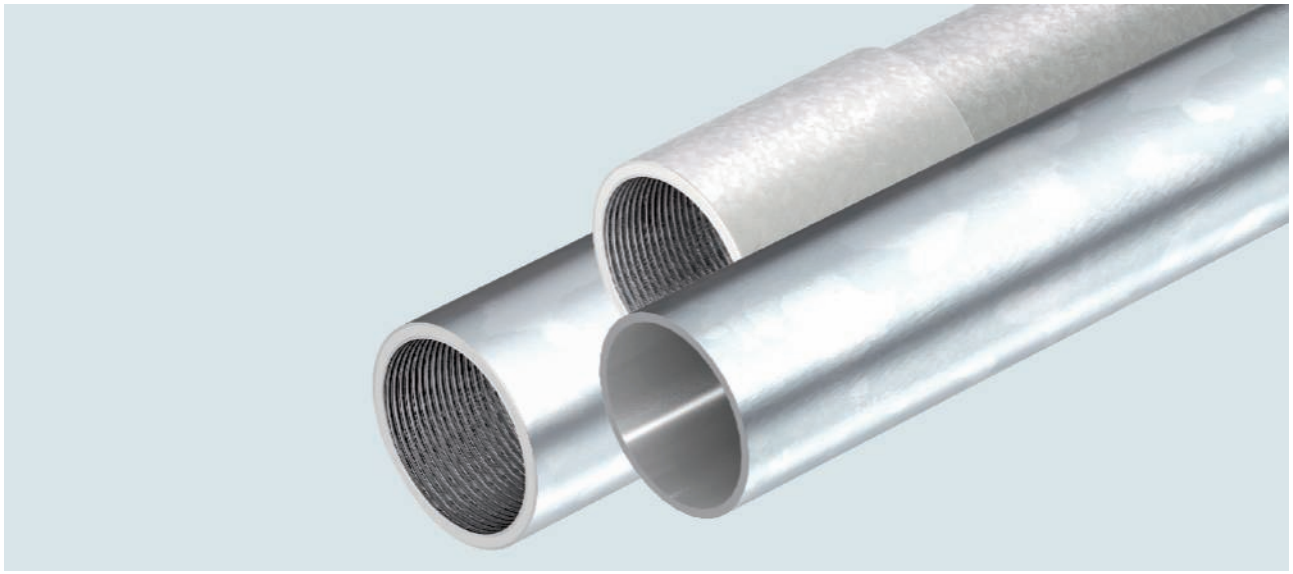
**Cable fastening**
The standard DIN EN 61914 "Cable holders for electrical installations" specifies that cable holders "must be able to accept cables or cable bundles of the diameter specified by the manufacturer or responsible retailer, without tearing or breaking or shearing off the threads of bolts".
During the installation of cables, the current national and international standard must be taken into account, such as DIN VDE 0100 520. “Suitable tools and methods, which prevent damage or changes to the shape” must be used for fastening.
In addition, with masses of cables, DIN VDE 0298 requires the appropriate "load capacities of cables for fixed laying in and on buildings..." to be taken into account when selecting the fastening systems.

Besides these standardising aspects, the end customer‘s or client‘s particular laying specifications can/must be taken into account.
The fastening spacing for cables is given in DIN VDE 0100-520, June 2013. For example, cables laid horizontally require a spacing of 20x the cable diameter. However, a spacing of 80 cm should not be exceeded. With vertical routing, the clip spacings may be increased but should not exceed 1.5 m.
The table below shows the maximum fastening spacings for cables according to the cable diameter. The laying spacings given in the Industrial installation product catalogue, e.g. for bus holders or Quick clips, are guide values and can only be treated as such.

| External diameter of the cables | Maximum spacing for horizontal fastening | Maximum spacing for vertical fastening |
|---|---|---|
| mm | mm | mm |
| D ≤ 9 | 250 | 400 |
| 9 < D ≤ 15 | 300 | 400 |
| 15 < D ≤ 20 | 350 | 450 |
| 20 < D ≤ 40 | 400 | 550 |

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

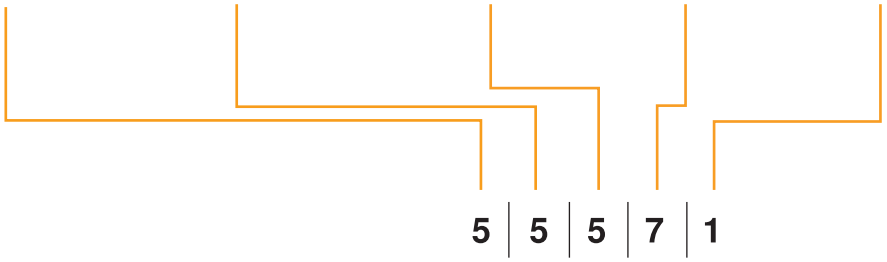
# IEC classification in accordance with DIN EN 61386-1



The OBO Bettermann pipe systems are machined and tested according to DIN EN 61386 (Electrical installation pipe systems for electrical energy and information) and DIN EN 60423 (External diameters of electrical installation pipes and thread for electrical installation pipes and their accessories).

**Numeric code**
DIN EN 61386-1 classifies installation pipes using a 12-digit numeric code, which provides information on the pressure resistance, impact resistance or use temperatures. You can find the first five digits in the product descriptions of the pipe systems.

| | First digit | | Second digit | | Third digit | | Fourth digit | | Fifth digit |
|---|---|---|---|---|---|---|---|---|---|
| | Pressure resistance | | Impact resistance | | Lower temperature range | | Upper temperature range | | Bending behaviour |
| 1 | Very light (125 N) | 1 | Very light (0.5 kg/100 mm) | 1 | +5 °C | 1 | +60 °C | 1 | Rigid |
| 2 | Light (320 N) | 2 | Light (1.0 kg/100 mm) | 2 | –5 °C | 2 | +90 °C | 2 | Bendable |
| 3 | Medium (750 N) | 3 | Medium (2.0 kg/100 mm) | 3 | –15 °C | 3 | +105 °C | 3 | Pliable, self-re-covering |
| 4 | Heavy (1,250 N) | 4 | Heavy (2.0 kg/300 mm) | 4 | –25 °C | 4 | +120 °C | 4 | Flexible |
| 5 | Very heavy (4,000 N) | 5 | Very heavy (6.8 kg/300 mm) | 5 | –45 °C | 5 | +150 °C | | |
| | | | | | | 6 | +250 °C | | |
| | | | | | | 7 | +400 °C | | |



## Classification according to IEC EN 61386-1: Composition of the IP code

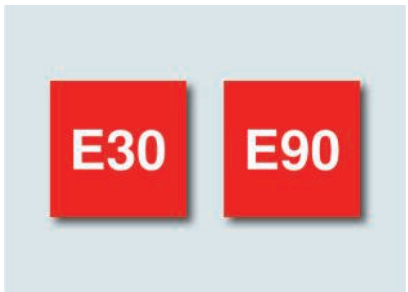
| | 7th digit | | 8th digit |
|---|---|---|---|
| | Ingress of solid bodies | | Ingress of water |
| 0 | | 0 | None declared |
| 1 | | 1 | Protected against vertically falling water drops |
| 2 | | 2 | Protected against vertically falling water drops, when the pipe system is tilted up to an angle of 15° |
| 3 | Protected against solid foreign objects of 2.5 mm Ø and greater | 3 | Protected against spraying water |
| 4 | Protected against solid foreign bodes of 1.0 mm Ø and larger | 4 | Protected against splashing water |
| 5 | Dust-protected | 5 | Protected against water jets |
| 6 | Dust-proof | 6 | Protection against powerful water jets |
| 7 | | 7 | Protected against the effects of temporary immersion in water |

## Classification according to IEC EN 61386-1: Corrosion protection

| | 9th digit | |
|---|---|---|
| | Resistance against corrosion | Suitable surfaces |
| 1 | Low protection, inside and outside | |
| 2 | Medium protection, inside and outside | • Black coated (SW)<br>• Electrogalvanised (G)<br>• Strip galvanised (FS) |
| 3 | Medium protection inside, high protection outside | |
| 4 | High protection inside and outside | • Hot-dip galvanised (FT)<br>• Stainless steel (V2A, V4A) |








**Protection against mechanical loads**
OBO metal pipes are particularly suited to use under tough industrial conditions. They provide reliable protection against very heavy mechanical loads during cable routing.

The different material and surface qualities, from galvanised to painted, allow perfect adaptation to the requirements of the appropriate environment.

**Maintenance of electrical function to E30/E90**
Our steel pipes guarantee the maintenance of electrical function to E30/E90. They are thus ideal for the connection of safety-relevant equipment, such as smoke extraction systems.

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# Definition of electromagnetic compatibility (EMC)



Recent years have seen the use of electronic circuits increase continually. Whether in industrial systems, medicine, households, telecommunications systems or electrical building installations – we find powerful electrical equipment and systems everywhere, and these switch ever greater currents, achieve greater radio ranges and transport ever more power in smaller spaces.

However, the use of state-of-the-art technology means that the complexity of applications also increases. The consequence of this is that ever more opposing influences (electromagnetic interferences) can occur from system parts and cables, causing damage and economic losses.

**Here, we talk of electromagnetic compatibility:**
Electromagnetic compatibility (EMC) is the ability of an electrical unit to function satisfactorily in its electromagnetic environment, without inappropriately influencing this environment, to which other units also belong (VDE 0870-1). In terms of standardisation, electromagnetic compatibility is dealt with by the EMC Directive 2004/108/EC. This means that electrical resources emit electromagnetic interferences (emissions), which are picked up by other devices or units (immission) that act as receivers (interference sink). This in turn means that the function of an interference sink can be severely reduced and, in the worst-case scenario, result in total failure and economic losses. The interferences can then spread along cables or in the form of electromagnetic waves.

## Path of faults

| Fault source (transmitting emissions) | Coupling of interference variables (spreading of interference) | Fault sink (receiving emissions) |
|---|---|---|
| For example<br>- Mobile telephones<br>- Switching components<br>- Ignition systems<br>- Frequency converters<br>- Lightning strike<br>- Welding devices | - Galvanic<br>- Inductive<br>- Capacitive<br>- Electromagnetic | - Process computer<br>- Radio receiver systems<br>- Controllers<br>- Converters<br>- Measuring units |

# Guarantee of EMC



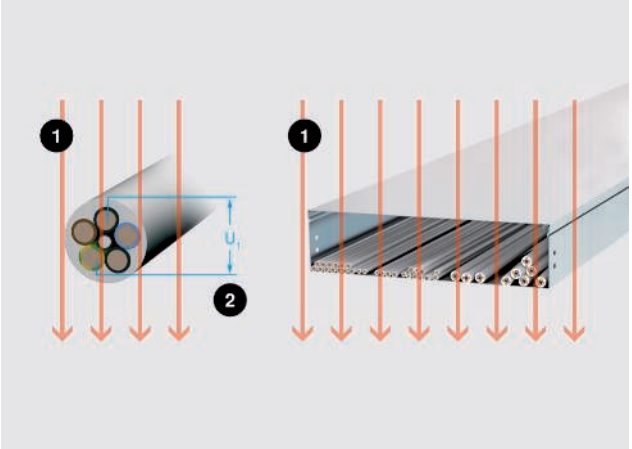
**Guaranteeing EMC**
A systematic planning process is necessary to guarantee EMC. The interference sources must be identified and quantified. The coupling describes the spread of the interference from the interference source up to the device being influenced, the interference sink. The task of EMC planning is to ensure the compatibility at the source, coupling path and sink using suitable measures. During their daily work, planners and installation engineers are confronted with this subject on an increasingly regular basis. This means that EMC is a basic factor to be taken into consideration during the planning of installations and cabling systems.
Due to the high complexity of electromagnetic compatibility, the problems of EMC must be analysed and solved using simplifying hypotheses and models, as well as experiments and measurements.

**Cable support systems and their contribution to EMC**
Cable support systems can make an important contribution to the improvement of EMC. They are passive and can thus make a safe, long-lasting contribution to EMC through the fact that cables are run within cable support systems or are shielded by them. Routing cables inside cable support systems greatly reduces the galvanic decoupling and coupling due to electrical and magnetic fields in the cables. Thus, cable support systems can make a contribution to the reduction of coupling from the source to the sink. The shielding action of cable support systems can be quantified by the coupling resistance and the shield attenuation. This gives the planner important engineering parameters for cable support systems for EMC engineering.

**Lightning discharge**
From the analysis of the effectiveness of EMC in buildings (EN 62305-4), we know that lightning discharge is one of the greatest sources of interference to be expected. This causes a direct current feed into the entire equipotential bonding system in the building and/or to magnetic decoupling of interference currents in electrical cables. With regard to these couplings, cable support systems can offer an effective contribution to the reduction of interference voltages.

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Magnetic shield insulation of cable support systems






*The magnetic field (H) of strength 3 kA/m in a defined experimental set-up: without cable support system on the left, with cable support system on the right. 1 = Field H, 2 = V1 $L_{zuPE}$*

The magnetic shield insulation of cable support systems is the ratio in decibels (dB) of an induced voltage into an unprotected cable to the induced voltage into the same cable, when this is in a cable support system.

**Experimental structure to determine the magnetic shield insulation of cable support systems:**
An unshielded cable (NYM-J 5x6 mm²) is subjected to an 8/20 magnetic field with a strength of 3 kA/m. Here, the induced voltage V1 is measured in the unshielded cable. The same cable is then positioned in the centre of a cable support system (once with a cover, once without) and subjected to the same magnetic field of 3 kA/m. Here, the induced voltage V2 is measured in the unshielded cable.
The magnetic shield insulation is calculated from the measured values according to the formula:
**αS = 20 log (V1/V2) dB**

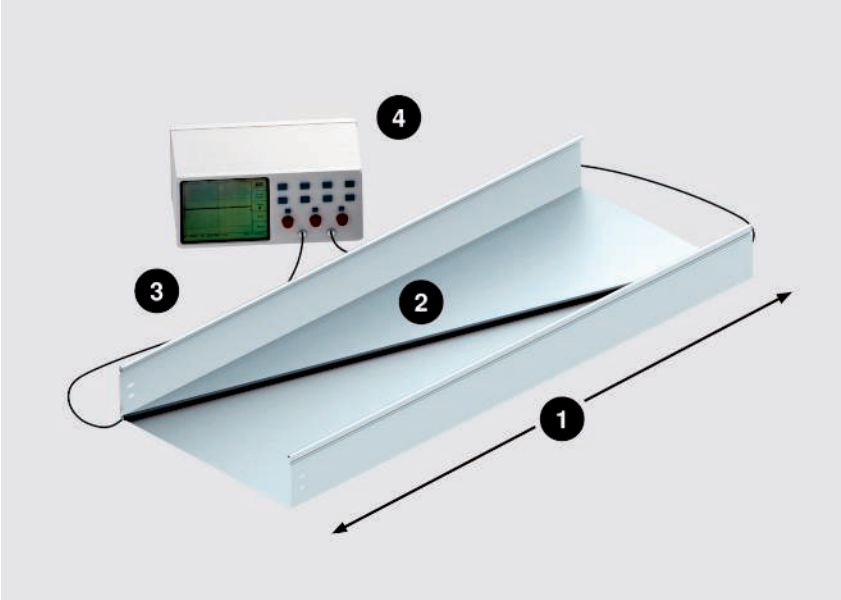
**Experiment result:**
The magnetic shield effect αS of a cable support system could be clearly proved by the experiments and the simulation with an FEM program.
The best result of around 50 dB was achieved with cable support systems (cable trays) with covers.

Note:
The shield insulation against electrical fields is almost perfect, as it is with a Faraday cage.

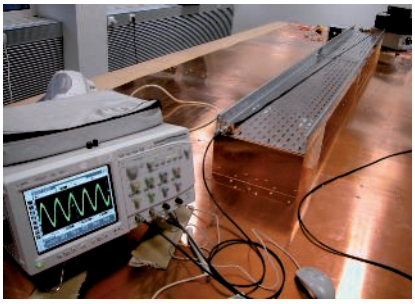
### Magnetic shield insulation 8/20 dB

| Type, cable tray/cable ladder | Without cover | With cover |
|---|---|---|
| RKSM 630 FS | 20 | 50 |
| MKS 630 FS | 20 | 50 |
| MKS 630 FT | 20 | 50 |
| MKSU 630 FS | 20 | 50 |
| MKSU 630 FT | 20 | 50 |
| MKSU 630 VA | 20 | 50 |
| GRM 55/300 FS | 15 | 25 |
| LG 630 NS FT | 10 | 15 |

# Transfer impedance of cable support systems




*Experimental structure for transfer impedance: 1 = Length l, 2 = U, 3 = I, 4 = Pulse source 8/20*



$$Z'_T = \frac{U_{Stör}}{I_{Stör} * L}$$

*$Z_T$: Transfer impedance*

*$V_{Interference}$: Interference voltage measured in cable*

*$I_{Interference}$: Interference current, fed into the shield from outside (KTS)*

*L: Length of the cable support system*

**Transfer impedance (coupling resistance) of cable support systems**

The transfer impedance of a cable support system is the ratio of the measured voltage $V_{Interference}$, measured in the lengthwise direction within the cable support system, to the coupled current $I_{Interference}$.

The transfer impedance is determined in the same way as with the measurement of the electrical conductivity properties in Chapter 11.1 (DIN EN 61537).

If there is a lightning strike in a building, partial currents will flow through the entire equipotential bonding system.

Installed cables are best run within a cable support system. Installed cable support systems are always included in the equipotential bonding system. In so doing, the partial current flows via the cable support system. A very small component can therefore still flow along the cables laid within the cable support system. This component is determined by the transfer impedance of the cable support system.

The following applies for the transfer impedance:

$Z_T = V_{Interference}/(I_{Interference} \times L)$ [mΩ/m]

The values given are based on measurements, in which a pulse current of the wave shape 8/20 was passed through a defined length of a cable support system.

**Experiment result:**

The effect of the cable support system against galvanic coupling was clearly proved by the experiments.

The best result was achieved with cable support systems (cable trays) with covers.

**Transfer impedance 8/20 mOhm/m**

| Type, cable tray/cable ladder | Without cover | With cover |
|---|---|---|
| MKS 630 FS | 1.14 | 0.71 |
| MKS 630 FT | 1.14 | 0.71 |
| MKSU 630 FS | 0.44 | 0.09 |
| MKSU 630 FT | 0.44 | 0.09 |
| GRM 55/300 FS | 6.17 | 5.5 |

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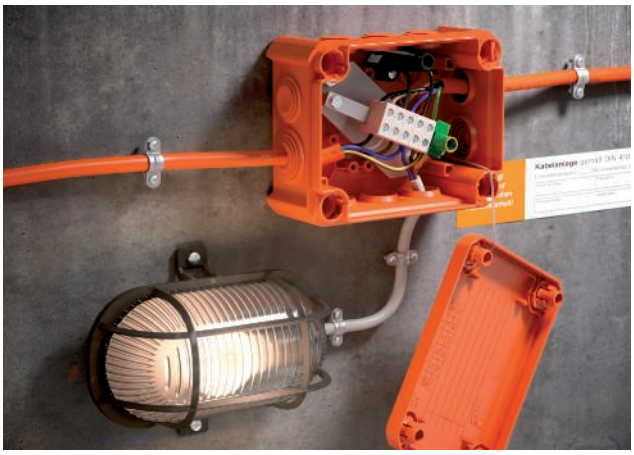
# Maintenance of electrical function



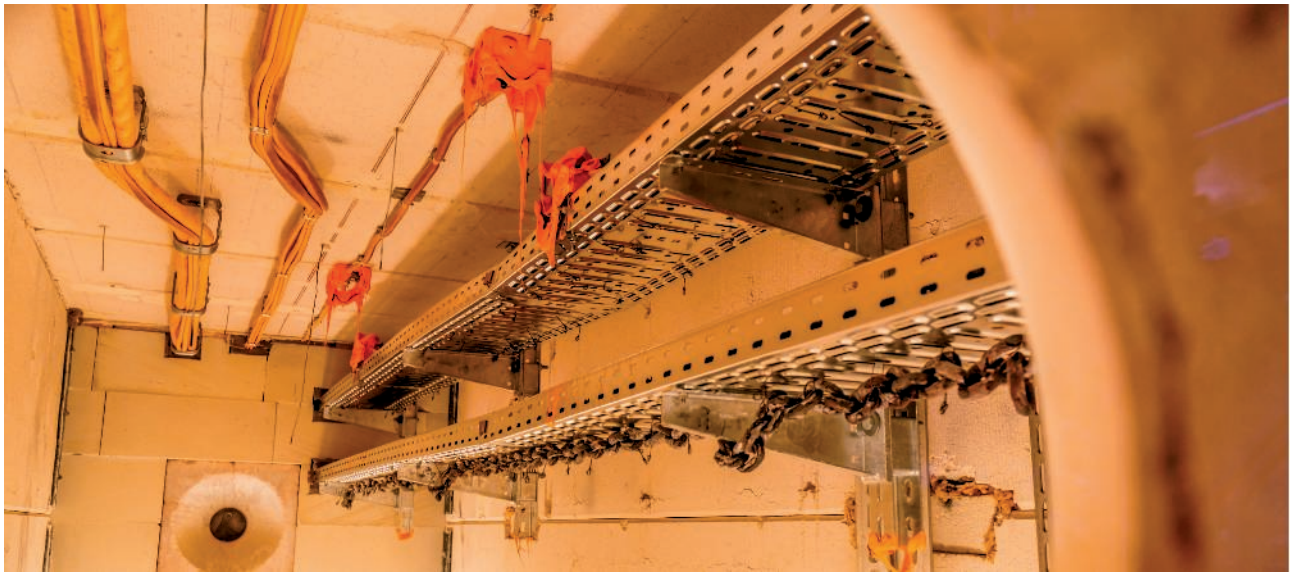
**Safety in the event of fire**
To ensure that emergency and escape routes and important technical equipment such as emergency lighting, fire alarm systems and smoke exhaust systems remain usable in case of fire, it is absolutely essential to provide special protection for the power supply for these systems. The use of special cables and routing systems means that it is possible to maintain the power supply, even in the event of fire, thus guaranteeing the maintenance of electrical function.
You can find detailed information on the subject of fire protection in the OBO protective installation catalogue.

The maintenance of electrical function is particularly important in buildings regularly frequented by large numbers of people. These include public buildings such as schools, hospitals, meeting places, civic buildings and underground stations, but also industrial plants, high-rise buildings, shopping centres and large car parks.

**Fire loads of installation systems**
According to rules governing wiring systems in the individual German federal states, no fire loads may be installed in emergency and escape routes. OBO's fire-tested steel fastenings fulfil these requirements.



Junction boxes which have the capability to maintain electrical function ensure the fireproof connection of the safety cables. The boxes in the FireBox series are tested and approved to maintain electrical function for 30 to 90 minutes in accordance with DIN 4102-12.



# E30

**30 minutes:**
**Maintaining electrical function for an evacuation.**

The first 30 minutes after the start of a fire are decisive when clearing the affected building.

During this time, the maintenance of electrical function must be guaranteed for the following units:

- Safety lighting systems
- Lifts with fire control
- Fire alarm systems
- Alarm systems and systems to issue instructions to visitors and employees
- Smoke extraction systems

# E90

**90 minutes: Maintenance of electrical function for better firefighting**

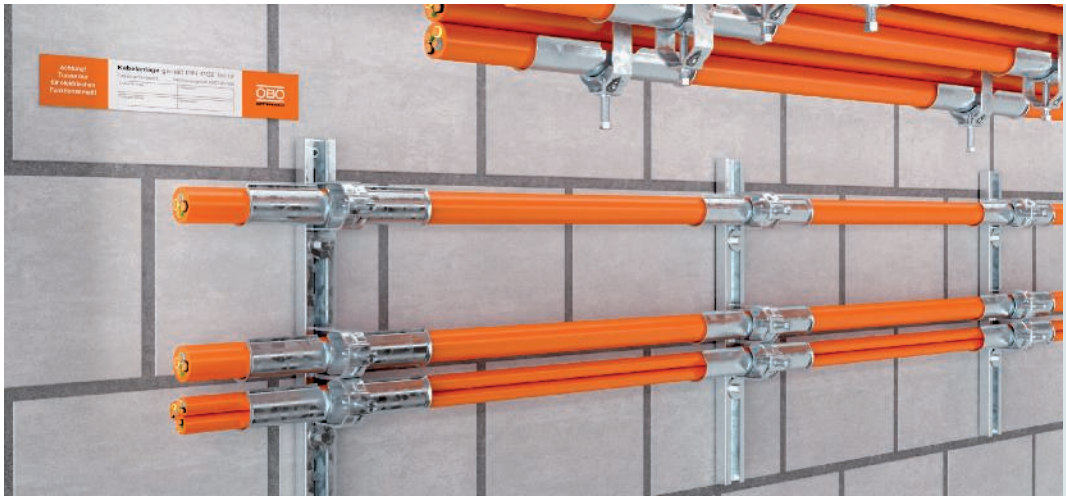
To support firefighting operations, it is imperative that certain technical equipment is supplied with sufficient power even up to 90 minutes after a fire breaks out in a building. This equipment includes:

- Systems to increase the pressure of the water for fighting the fire
- Mechanical smoke extraction and smoke protection pressure systems
- Fire brigade lifts, bed lifts in hospitals

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Individual routing systems for the maintenance of electrical function

With the individual laying systems, OBO Bettermann can offer a range of practical, flexible mounting options for electrical installations with the maintenance of electrical function. The systems are suited to vertical and horizontal installation and are approved for the fire protection classes E30 to E90. Standardised supporting constructions as defined in the testing standard, DIN 4102 Part 12, include: The routing of cables with individual clips and the routing of cables with profile rail, clamp clip and a long trough.



E30
E60
E90

**Standard routing type, clamp clip type 2056**
Standard support construction consisting of clamp clip without long trough for individual laying or bundling cables.

- Wall or ceiling mounting
- Horizontal installation
- Rail mounting: max. 0.3 m
- Anchor spacing in the rail: max. 0.25 m
- Individual cable assignment: diameters of up to 100 mm possible
- Assignment with bunched cables: Max. 3 cables with max. diameter 25 mm



E30
E60
E90

**Cable tidy**
Cable-specific laying type with cable tidies for individual laying, horizontal/vertical mounting on wall or ceiling.

**Type 2031/M 15**
- Fastening distance: max. 0.5 m
- Cable assignment: max. 1.1 kg/m

**Type 2031/M 30**
- Fastening distance: max. 0.5 m
- Cable assignment: max. 2.5 kg/m

**Type 2031/M 70**
- Fastening distance: max. 0.8 m
- Cable assignment: max. 6.0 kg/m



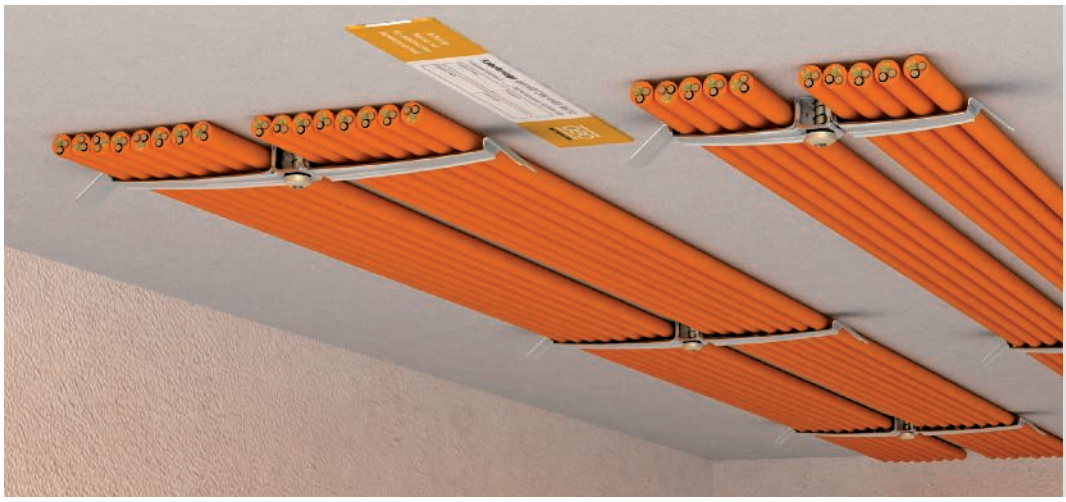
E30

E60

E90

**Standard routing type, single clip type 732/733**
Standard support construction consisting of spacer clips for individual laying or bundling cables.

- Wall or ceiling mounting
- Vertical or horizontal mounting
- Mounting spacing: max. 0.3 m
- Individual cable assignment: diameters of up to 50 mm possible
- Assignment with bunched cables: Max. three cables with max. diameter 25 mm



E30

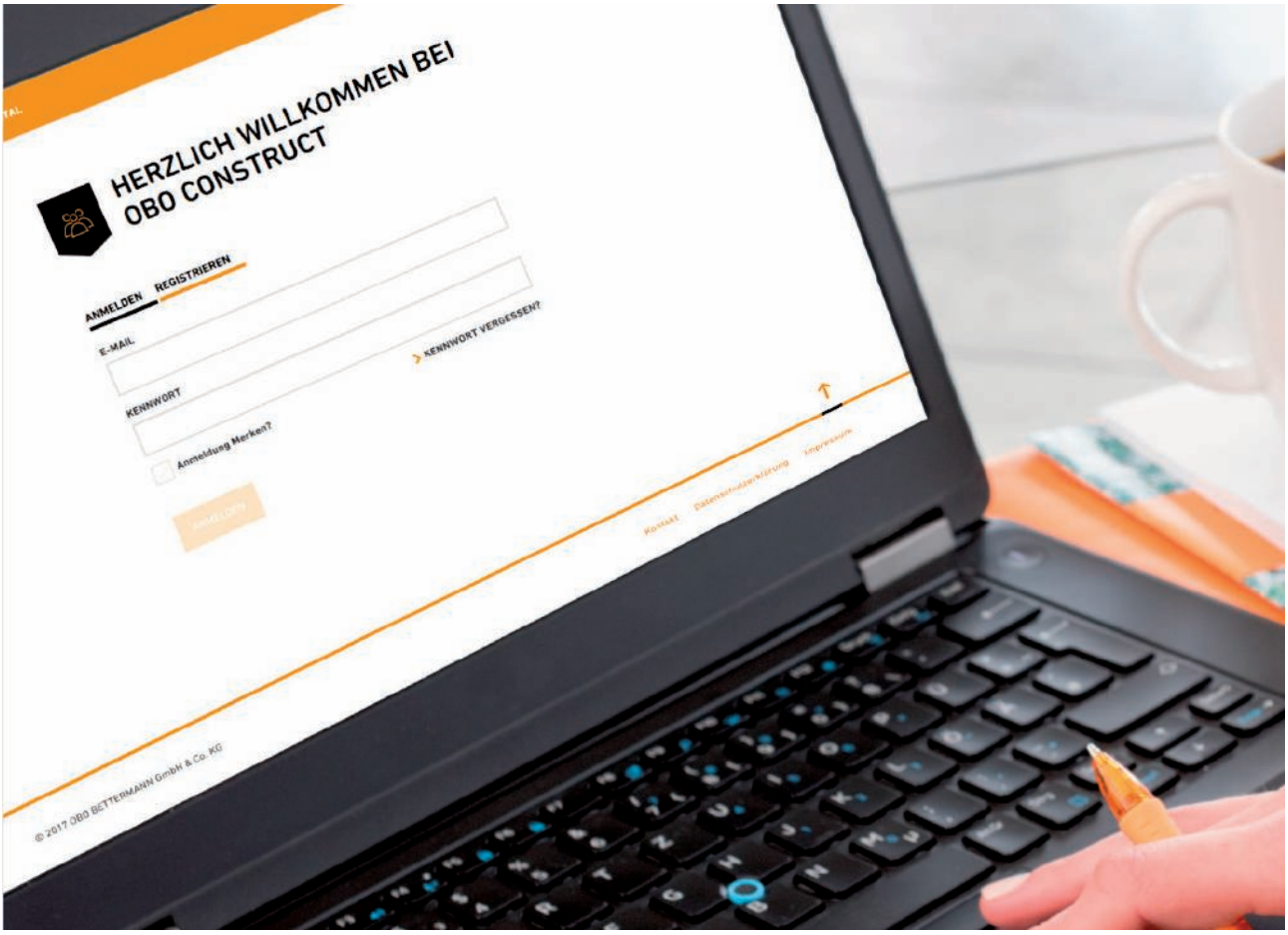
**Pressure clip**
Cable-specific laying type with pressure clips for individual laying, mounting on the ceiling.

**Type 2033 M**
- Fastening distance: max. 0.5 m

**Type 2034 M**
- Fastening distance: max. 0.5 m

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# OBO Construct – planning software and product configurators




The OBO Construct programs are electronic planning aids – developed in order to support electrical engineers and planners in their planning of electrical installation projects.

Due to the systematic search of technically relevant planning parameters, these programs simplify the search for suitable products and the appropriate accessories.

All new OBO Construct apps have a responsive design. They can be opened on any device, independent from the operating system.

**Benefits:**
- Work aid independent of time and place
- Transfer planning requirements into complete product systems
- Find suitable products quickly and simply
- Calculate quantities automatically
- Download configuration results as Excel or Word files

**Currently available versions:**
- Cable support systems
  AutoCAD Plug-in Version 3.0
  (AutoCAD full version from 2013)
- Underfloor systems
  Planning Tool Version 3.0
  (web app for all devices)
- Transient and lightning protection systems
  Earthing systems Version 1.0
  (web app for all devices)
- Fire protection systems
  Selection aid for insulations, Version 3.0
  (web app for all devices)
- Transient and lightning protection systems
  Surge protection Version 1.0
  (web application)
- Cable support systems
  Cable assignment Version 3.0
  (web app for all devices)

**More information**
www.obo-construct.com

# Standards, specifications and certifications









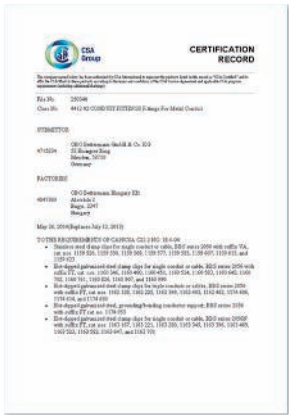
















## Standards

OBO offers products for professionals, made by professionals. Our products are manufactured and tested according to the respective specifications of the standards. For example, DIN EN 61537 describes all the relevant parameters for cable support systems, such as the area of application, test conditions, corrosion resistance and temperature classification. As a highly competent manufacturer, OBO subjects itself to these requirements on a daily basis. Comprehensive test procedures guarantee that systems which conform to standards function safely.

## Specifications

All the OBO products and systems are CE-compliant according to the appropriate EC guidelines. This also applies to standard parts such as bolts, washers and nuts that are components of various product systems. The appropriate EC declaration of conformity certifies agreement with the named directives or standards, but does not guarantee properties. The safety instructions in the product information and the general safety regulations must be complied with during installation and use.

## Certifications

For OBO, product quality is closely connected to continuous testing and checking – which is why we manufacture almost all our products ourselves. This enormous depth of production is an expression of our demand for quality. From construction, and the materials used through production, right up to logistics, our employees personally guarantee the quality and availability of OBO products.

The multitude of approvals emphasise our high demand for quality and product functionality.

Our integrated quality management system forms the solid basis of our ISO 9001 certification, which we have held since 1994. The confirmation of suitability enables defined and workable processes in accordance with KTA 1401 and 10 CFR 50.

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Certificates and test marks

**VDE**
VDE is the Association for Electrical, Electronic and Information Technologies, their study and the technologies and applications based upon them. The VDE mark on electrical equipment is proof that the equipment complies with VDE regulations and/or European or international harmonised standards, and meets the safety requirements of the applicable directives. The VDE mark indicates that a product is safe in relation to electrical, mechanical, thermal, toxic, radiological and other hazards.

**CE symbol**
Technical resources included in a legal ordinance, i.e. electrical resources, machines and safety components, must have a CE symbol, with which the manufacturer confirms that the safety requirements of the ordinances are fulfilled. In addition, there must also be a declaration of conformity and technical documentation. The CE symbol is not a quality mark, but simply a declaration by the manufacturer that they have complied with the legal requirements and the codes of practice.

**UL**
Underwriters Laboratories (UL) is an independent organisation that tests and certifies product safety. UL certification is generally required if a product is to be sold on the US market.
UL offers various certification options: The “UL Listed” test mark indicates that UL has tested representative samples of a product and that it conforms to UL’s safety requirements. The “UL Recognized” component test mark entitles a product to be used in a product or system bearing the “UL Listed” test mark.

# First-hand support and knowledge



**OBO seminars: First-hand knowledge**
With a comprehensive programme of training courses and seminars, OBO supports its customers with first-hand specialist knowledge. Besides the theoretical principles, practical everyday implementation is also dealt with. Special calculation and application examples round off the comprehensive programme of knowledge transfer.

**Invitations to tender, product information and data sheets**
We can make life easier for you, with our comprehensive selection of materials designed for practical applications, which provide you with effective support with the planning and calculation of a project. These include:

- Invitations to tender
- Product information
- Data sheets

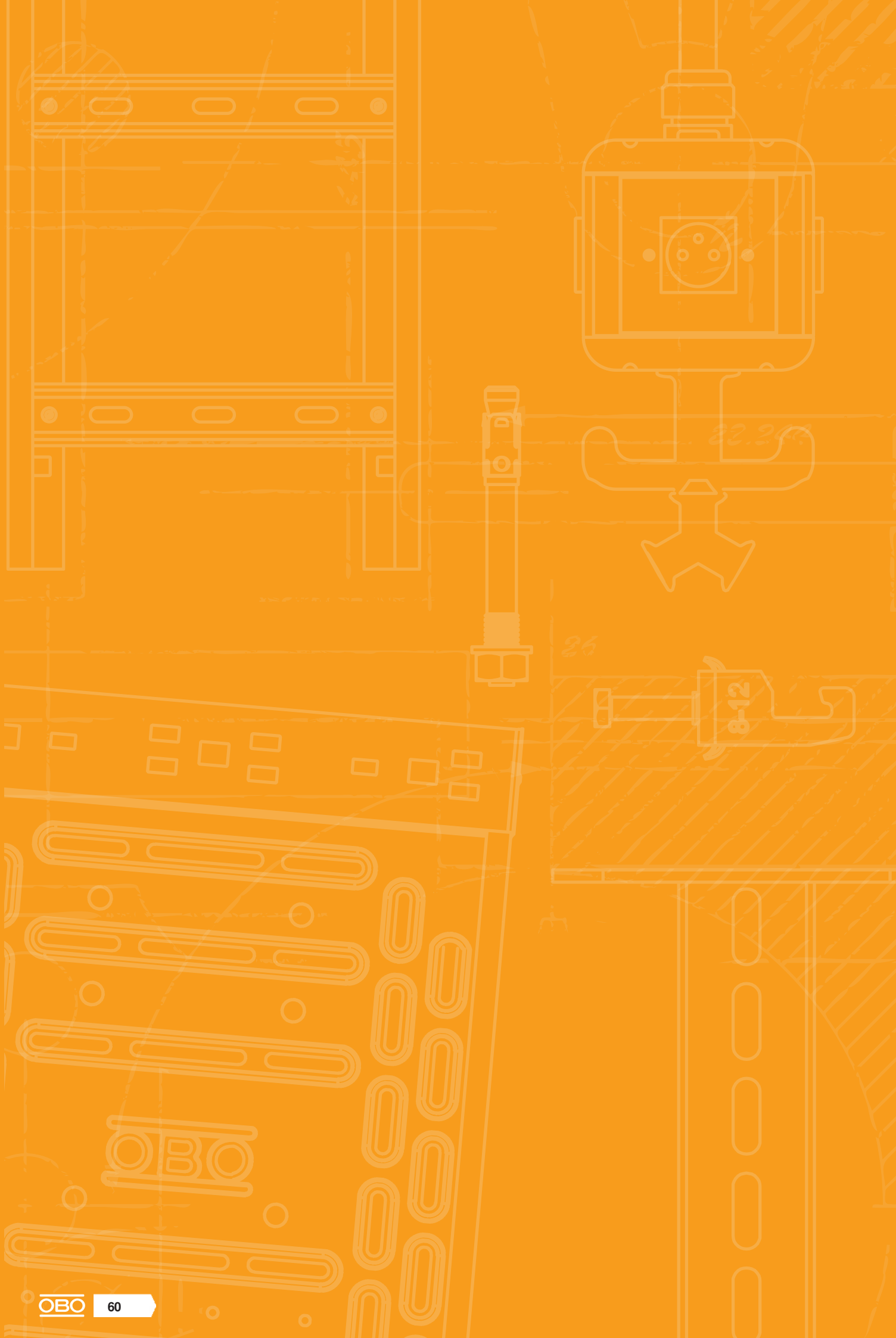
**Invitations to tender on the Internet at www.ausschreiben.de**
More than 10,000 entries from the different ranges can be called up free of charge. Regular updates and extensions mean that you always have a comprehensive overview of the OBO products. All the current file formats (PDF, DOC, GAEB, HTML, TEXT, XML, ÖNORM) are available.
www.ausschreiben.de

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Test marks

| | |
|---|---|
|  | American Bureau of Shipping, USA |
|  | AENOR, Producto Certificado, Spain |
|  | STOWARZYSZENIE ELEKTRYKÓW POLSKICH, Poland |
|  | Lightning current-tested |
|  | Lightning current-tested, Class H (100 kA) |
|  | CEBEC, Belgium |
|  | Canadian Standards Association, Canada |
|  | DEMKO, Danmarks Elektriske Materielkontrol, Denmark |
| DIBt | Deutsches Institut für Bautechnik Berlin, Germany |
|  | Det Norske Veritas |
|  | ENEC Austria |
|  | ATEX certificate for explosive areas |
|  | ELEKTROTECHNICKÝ ZKUŠEBNÌ ÚSTAV, Czech Republic |
|  | FIMKO, Finland |
|  | Forschungs- und Materialprüfungsanstalt, Germany |
|  | Russia, GOST The State Committee for Standards |
|  | Test marks for technical resources, VDE Prüf- und Zertifizierungsinstitut Offenbach, Germany |
|  | Halogen-free; without chlorine, fluorine and bromine |
|  | INMETRO, Brazil |
|  | KEMA-KEUR, Netherlands |
|  | Indication of metric products |
|  | MAGYAR ELEKTROTECHNIKAI ELLENŐRZŐ INTÉZET Budapest, Hungary |
|  | NEMKO, Norway |
|  | AFNOR Quality symbol of the French standardisation institute |

| | |
|---|---|
|  | Underwriters Laboratories Inc., USA + CSA, Canada |
|  | Österreichischer Verband für Elektrotechnik, Austria |
|  | INSTITUTO ITALIANO DEL MARCHO DI QUALITÁ, Italy |
|  | RINA 1861, Ship Classification, Certification and Services |
|  | Underwriters Laboratories Inc., USA |
|  | SEMKO An Inchcape Testing Services Company, Sweden |
|  | Eidgenössisches Starkstrominspektorat, Switzerland |
|  | South African Bureau of Standards |
|  | Shock-tested, Bundesamt für Zivilschutz, Germany |
|  | Sähkötarkastuskeskus Elinspektionscentralen Electrical Inspectorate, Finland |
|  | Underwriters Laboratories Inc., USA |
|  | Underwriters Laboratories Inc., USA |
|  | Verband der Elektrotechnik, Elektronik, Informationstechnik e.V., Germany |
|  | German Association of Electricians, tested safety |
|  | 5-year warranty |



# Cable trays



Side height 15 mm 62


Side height 35 mm 68


Side height 60 mm 88


Side height 85 mm 170


Side height 100 mm 198


Side height 110 mm 200


Side height 200 mm 238

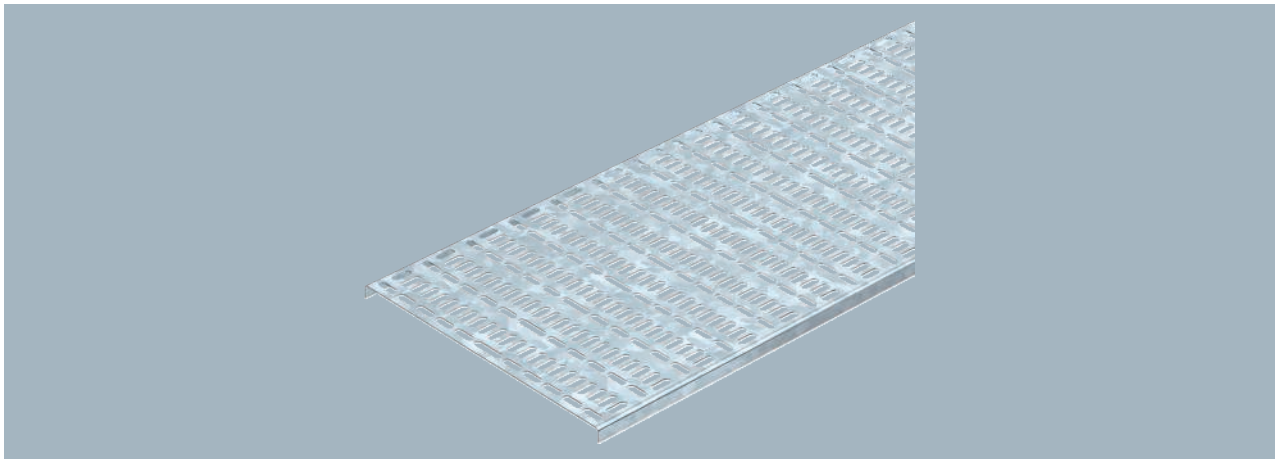

System accessories, cable trays 240




Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Cable tray, marine standard MKR 15

St FS

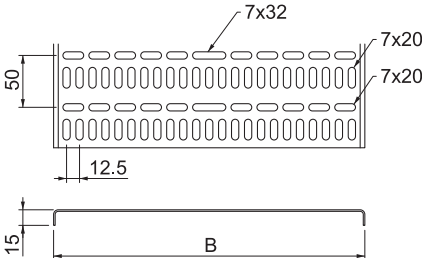


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **MKR 15 050 FS** | 50 | 1.00 | | 2 | 49.400 | **6045952** |
| **MKR 15 075 FS** | 75 | 1.00 | | 2 | 63.700 | **6045960** |
| **MKR 15 100 FS** | 100 | 1.00 | | 2 | 75.850 | **6045979** |
| **MKR 15 150 FS** | 150 | 1.00 | | 2 | 102.800 | **6045995** |
| **MKR 15 200 FS** | 200 | 1.00 | | 2 | 129.850 | **6046002** |

Cable tray for use in ship construction, produced according to the marine standard VG 88900-1.

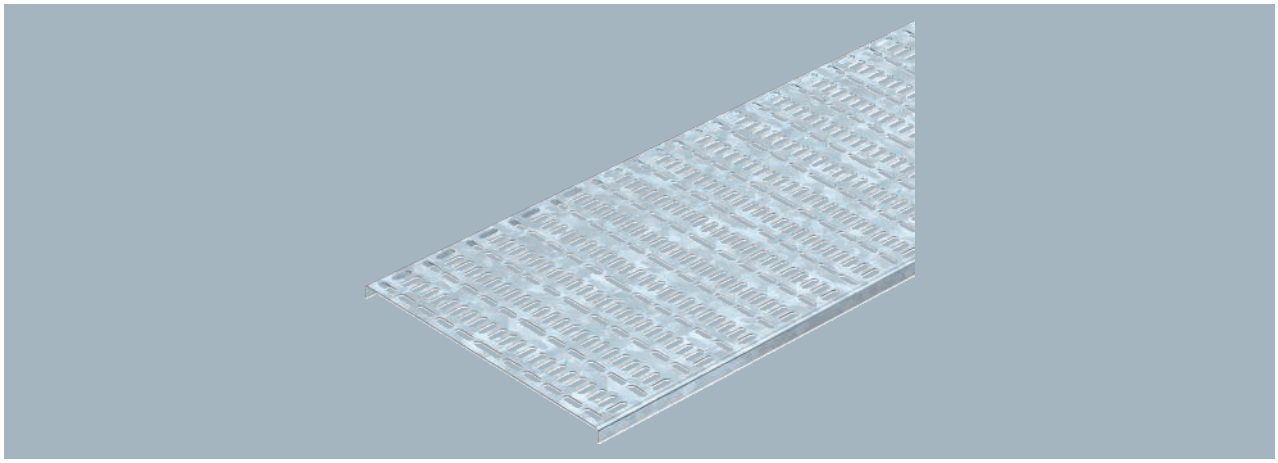
| Type | Length mm | Dim. B mm | Side height mm |
|---|---|---|---|
| MKR 15 050 FS | 2000 | 50 | 15 |
| MKR 15 075 FS | 2000 | 75 | 15 |
| MKR 15 100 FS | 2000 | 100 | 15 |
| MKR 15 150 FS | 2000 | 150 | 15 |
| MKR 15 200 FS | 2000 | 200 | 15 |

**Dimensions**



St FS FT

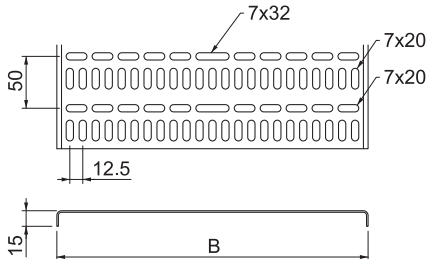
# Cable tray, marine standard MKR 15



Cable tray for use in ship construction, produced according to the marine standard VG 88900-1.

| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKR 15 050 FS** | 50 | 1.25 | 2 | 61.500 | **6046370** |
| **MKR 15 075 FS** | 75 | 1.25 | 2 | 78.500 | **6046372** |
| **MKR 15 100 FS** | 100 | 1.25 | 2 | 94.650 | **6046374** |
| **MKR 15 125 FS** | 125 | 1.25 | 2 | 113.400 | **6046375** |
| **MKR 15 150 FS** | 150 | 1.50 | 2 | 154.100 | **6046376** |
| **MKR 15 200 FS** | 200 | 1.50 | 2 | 194.700 | **6046004** |
| **MKR 15 250 FS** | 250 | 1.50 | 2 | 235.250 | **6046379** |
| **MKR 15 300 FS** | 300 | 1.50 | 2 | 275.850 | **6046029** |
| **MKR 15 400 FS** | 400 | 1.50 | 2 | 357.000 | **6046037** |
| **MKR 15 050 FT** | 50 | 1.25 | 2 | 66.750 | **6045057** |
| **MKR 15 075 FT** | 75 | 1.25 | 2 | 85.950 | **6045073** |
| **MKR 15 100 FT** | 100 | 1.25 | 2 | 102.200 | **6045103** |
| **MKR 15 125 FT** | 125 | 1.25 | 2 | 122.450 | **6045138** |
| **MKR 15 150 FT** | 150 | 1.50 | 2 | 164.350 | **6045154** |
| **MKR 15 200 FT** | 200 | 1.50 | 2 | 207.600 | **6045200** |
| **MKR 15 250 FT** | 250 | 1.50 | 2 | 250.900 | **6045251** |
| **MKR 15 300 FT** | 300 | 1.50 | 2 | 294.150 | **6045308** |

## Dimensions




| Type | Length mm | Dim. B mm | Side height mm |
|---|---|---|---|
| MKR 15 050 FS | 2000 | 50 | 15 |
| MKR 15 075 FS | 2000 | 75 | 15 |
| MKR 15 100 FS | 2000 | 100 | 15 |
| MKR 15 125 FS | 2000 | 125 | 15 |
| MKR 15 150 FS | 2000 | 150 | 15 |
| MKR 15 200 FS | 2000 | 200 | 15 |
| MKR 15 250 FS | 2000 | 250 | 15 |
| MKR 15 300 FS | 2000 | 300 | 15 |
| MKR 15 400 FS | 2000 | 400 | 15 |

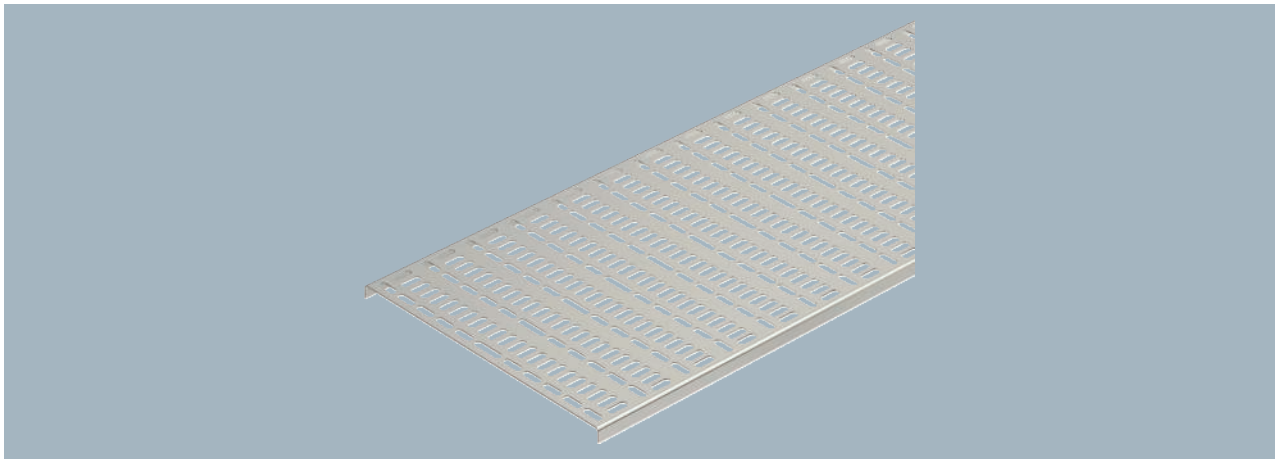


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Always indicate the item number when ordering.

## Cable tray, marine standard MKR 15

A2 A4 2B

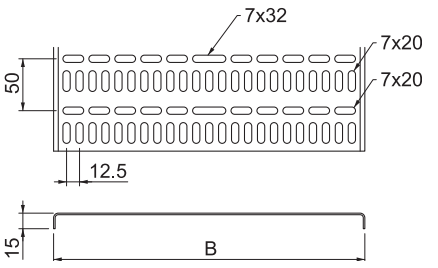


| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKR 15 050 A2** | 50 | 1.25 | 2 | 61.850 | **6045830** |
| **MKR 15 075 A2** | 75 | 1.25 | 2 | 79.600 | **6045832** |
| **MKR 15 100 A2** | 100 | 1.25 | 2 | 94.650 | **6045834** |
| **MKR 15 125 A2** | 125 | 1.25 | 2 | 113.400 | **6045836** |
| **MKR 15 150 A2** | 150 | 1.50 | 2 | 154.100 | **6045838** |
| **MKR 15 200 A2** | 200 | 1.50 | 2 | 194.700 | **6045840** |
| **MKR 15 250 A2** | 250 | 1.50 | 2 | 235.250 | **6045842** |
| **MKR 15 300 A2** | 300 | 1.50 | 2 | 275.850 | **6045844** |
| **MKR 15 050 A4** | 50 | 1.00 | 2 | 49.400 | **6045850** |
| **MKR 15 075 A4** | 75 | 1.00 | 2 | 63.700 | **6045852** |
| **MKR 15 100 A4** | 100 | 1.00 | 2 | 75.850 | **6045854** |
| **MKR 15 125 A4** | 125 | 1.00 | 2 | 90.700 | **6045856** |
| **MKR 15 150 A4** | 150 | 1.50 | 2 | 154.100 | **6045858** |
| **MKR 15 200 A4** | 200 | 1.50 | 2 | 194.700 | **6045860** |
| **MKR 15 250 A4** | 250 | 1.50 | 2 | 235.250 | **6045862** |
| **MKR 15 300 A4** | 300 | 1.50 | 2 | 275.850 | **6045864** |

Cable tray for use in ship construction, produced according to the marine standard VG 88900-1.

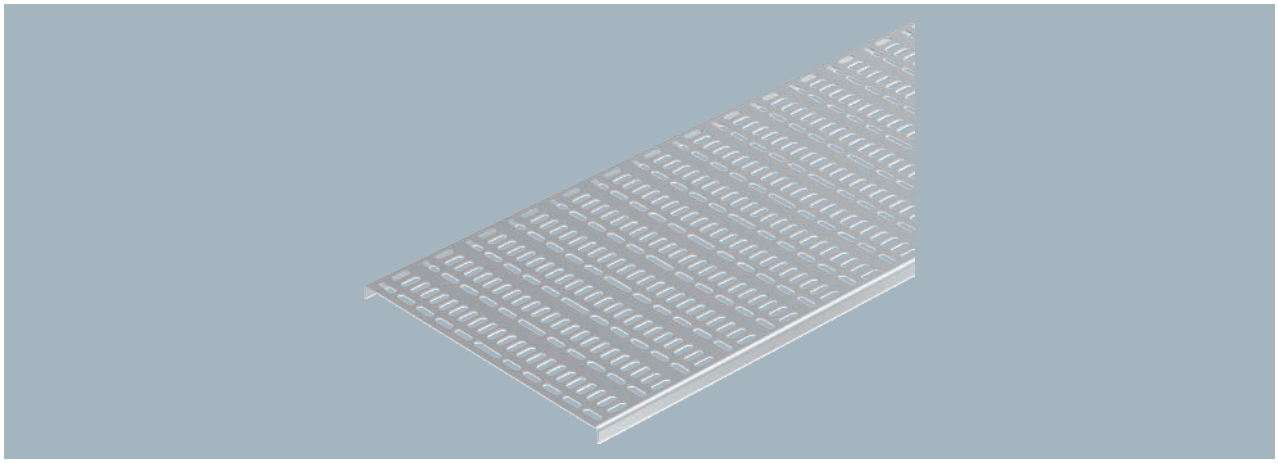
| Type | Length mm | Dim. B mm | Side height mm |
|---|---|---|---|
| MKR 15 050 A2 | 2000 | 50 | 15 |
| MKR 15 075 A2 | 2000 | 75 | 15 |
| MKR 15 100 A2 | 2000 | 100 | 15 |
| MKR 15 125 A2 | 2000 | 125 | 15 |
| MKR 15 150 A2 | 2000 | 150 | 15 |
| MKR 15 200 A2 | 2000 | 200 | 15 |
| MKR 15 250 A2 | 2000 | 250 | 15 |
| MKR 15 300 A2 | 2000 | 300 | 15 |

**Dimensions**



Alu

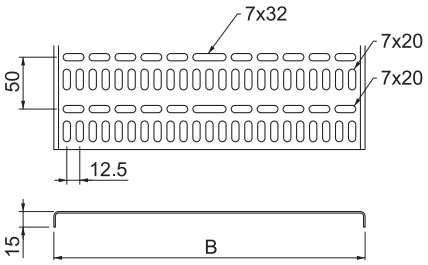
## Cable tray, marine standard MKR 15



Cable tray for use in ship construction, produced according to the marine standard VG 88900-1.

| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKR 15 050 ALU** | 50 | 1.50 | 2 | 25.500 | **6045707** |
| **MKR 15 075 ALU** | 75 | 1.50 | 2 | 32.850 | **6045715** |
| **MKR 15 100 ALU** | 100 | 1.50 | 2 | 39.050 | **6045723** |
| **MKR 15 125 ALU** | 125 | 1.50 | 2 | 46.850 | **6045731** |
| **MKR 15 150 ALU** | 150 | 1.50 | 2 | 53.000 | **6045758** |
| **MKR 15 200 ALU** | 200 | 2.00 | 2 | 89.300 | **6045766** |
| **MKR 15 250 ALU** | 250 | 2.00 | 2 | 107.900 | **6045774** |
| **MKR 15 300 ALU** | 300 | 2.00 | 2 | 126.500 | **6045782** |

### Dimensions



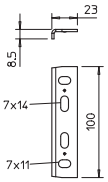

| Type | Length mm | Dim. B mm | Side height mm |
|---|---|---|---|
| MKR 15 050 ALU | 2000 | 50 | 15 |
| MKR 15 075 ALU | 2000 | 75 | 15 |
| MKR 15 100 ALU | 2000 | 100 | 15 |
| MKR 15 125 ALU | 2000 | 125 | 15 |
| MKR 15 150 ALU | 2000 | 150 | 15 |
| MKR 15 200 ALU | 2000 | 200 | 15 |
| MKR 15 250 ALU | 2000 | 250 | 15 |
| MKR 15 300 ALU | 2000 | 300 | 15 |

St FS

## Screw connector 15

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **MKR SV FS** | 25 | 5.713 | **6066242** |

Straight connector for straight connection of cable trays, according to the marine standard, with a side height of 15 mm.



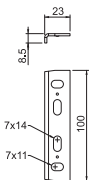



A2 A4 2B

## Screw connector 15

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **MKR SV A2** | 25 | 5.485 | **6066244** |
| **MKR SV A4** | 25 | 5.485 | **6066246** |

Straight connector for straight connection of cable trays, according to the marine standard, and fittings with a side height of 15 mm.







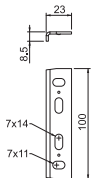

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Always indicate the item number when ordering.

## Screw connector 15

Alu





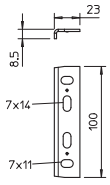

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| MKR SV ALU | 25 | 2.910 | 6066248 |

Straight connector for straight connection of cable trays, according to the marine standard, and fittings with a side height of 15 mm.

## Screw connector 15

St FT





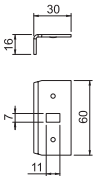

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| MKR SV FT | 25 | 5.888 | 6066240 |

Straight connector for straight connection of cable trays, according to the marine standard, with a side height of 15 mm.

## Clamp connector 15

St FT





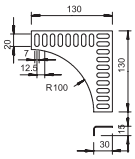

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| MKR KV FT | 25 | 8.500 | 6066143 |

Clamp connector for straight connection of cable trays, according to the marine standard, with a side height of 15 mm.

## Corner connector 15

St FT





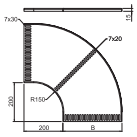

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| MKR EV FT | 1 | 9.330 | 7060041 |

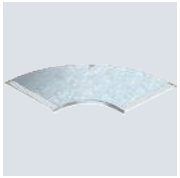
Corner connector for all cable trays according to the marine standard with side height of 15 mm.

St FS FT

## 90° bend 15, shipbuilding

| Type | Side height mm | Dim. B mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **MKRB 90 15 050FS** | 15 | 51 | | 1 | 14.600 | **7061146** |
| **MKRB 90 15 075FS** | 15 | 76 | | 1 | 22.500 | **7061050** |
| **MKRB 90 15 100FS** | 15 | 101 | | 1 | 28.400 | **7061244** |
| **MKRB 90 15 125FS** | 15 | 126 | | 1 | 56.500 | **7061252** |
| **MKRB 90 15 150FS** | 15 | 151 | | 1 | 73.300 | **7061360** |
| **MKRB 90 15 200FS** | 15 | 201 | | 1 | 102.400 | **7061449** |
| **MKRB 90 15 250FS** | 15 | 252 | | 1 | 163.800 | **7061546** |
| **MKRB 90 15 300FS** | 15 | 302 | | 1 | 206.000 | **7061643** |
| **MKRB 90 15 050FT** | 15 | 51 | | 1 | 16.000 | **7061145** |
| **MKRB 90 15 075FT** | 15 | 76 | | 1 | 23.500 | **7061048** |
| **MKRB 90 15 100FT** | 15 | 101 | | 1 | 31.090 | **7061242** |
| **MKRB 90 15 125FT** | 15 | 125 | | 1 | 61.000 | **7061250** |
| **MKRB 90 15 150FT** | 15 | 151 | | 1 | 79.210 | **7061358** |
| **MKRB 90 15 200FT** | 15 | 201 | | 1 | 110.600 | **7061447** |
| **MKRB 90 15 250FT** | 15 | 252 | | 1 | 176.900 | **7061544** |
| **MKRB 90 15 300FT** | 15 | 302 | | 1 | 222.480 | **7061641** |



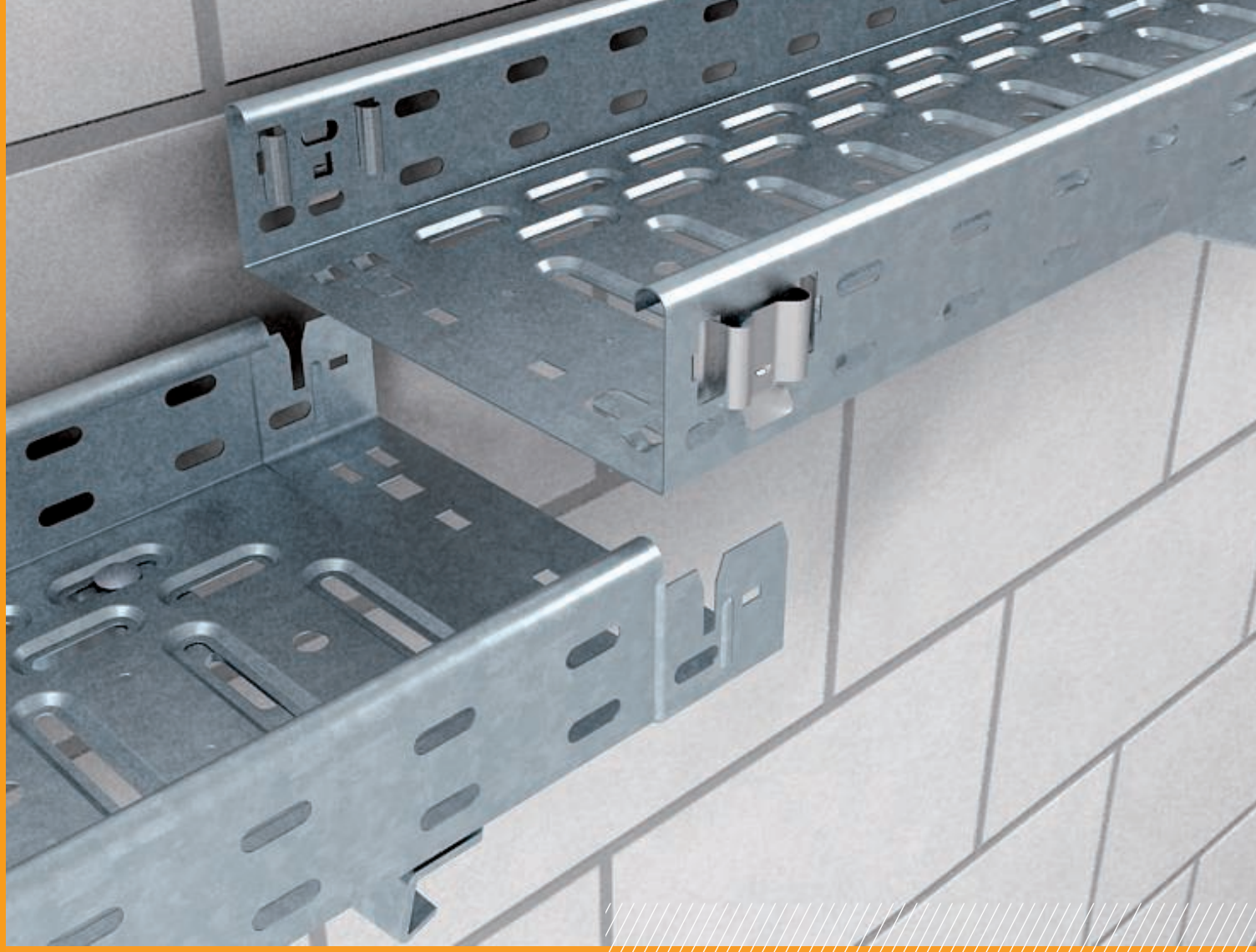



90° horizontal bend, for all ship construction cable tray types, produced according to the marine standard VG 88900-2.



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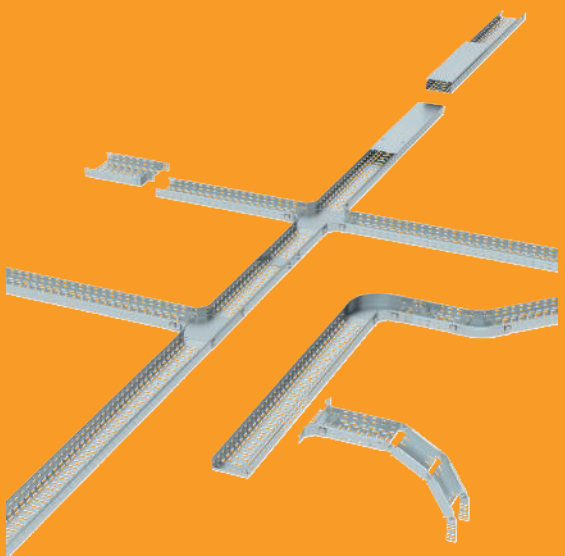
Always indicate the item number when ordering.



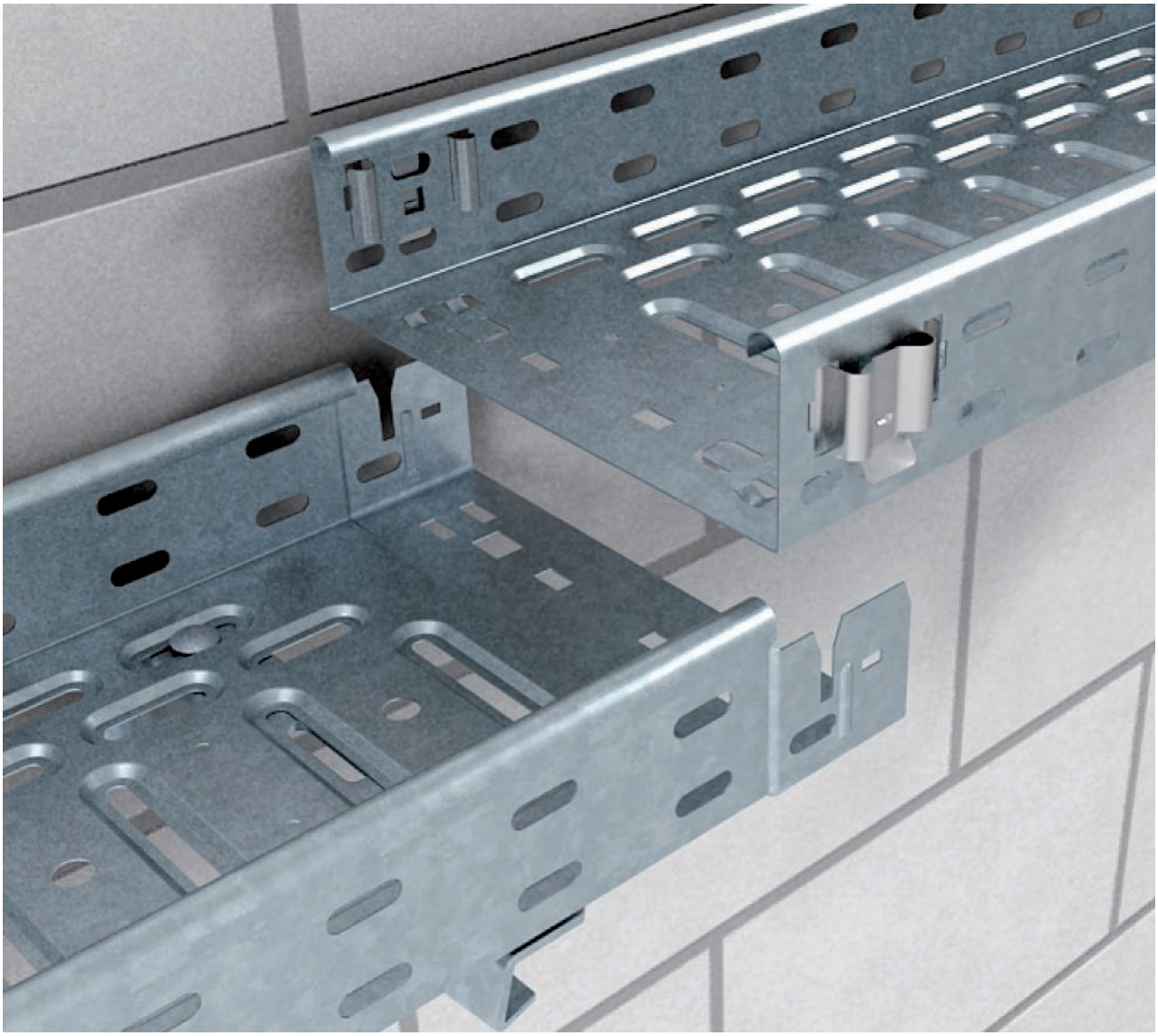
# RKS-Magic® cable tray system

The RKS-Magic® cable tray system permits even faster straight connection of the cable trays. The innovative, screwless straight connector can be mounted in the blink of an eye. Just connect the ends of the cable tray, lock them in place - and you're done!

- Fast and secure connection through patented plug connection
- Locking system accessory, such as the barrier strip
- Maintenance of electrical function, tested
- Equipotential bonding without additional components
- VDE and UL approved cable tray system



# System description



The RKS-Magic® cable tray system permits particularly fast straight connection of the cable trays. The innovative, screwless straight connector can be mounted in the blink of an eye. Just connect the ends of the cable tray, lock them in place – and you're done! The long-lasting, static straight connectors can be permanently stabilised by bending the connection flaps. The RKS-Magic® cable tray is available with the side heights 35 and 60 mm. A comprehensive range of fittings with bends (45° and 90°), T branch pieces, add-on tees and cross-overs completes the system. Also 90° bends and adjustable bends (rising/falling) are available for vertical changes of direction. When mounting fittings, always plan additional supports.

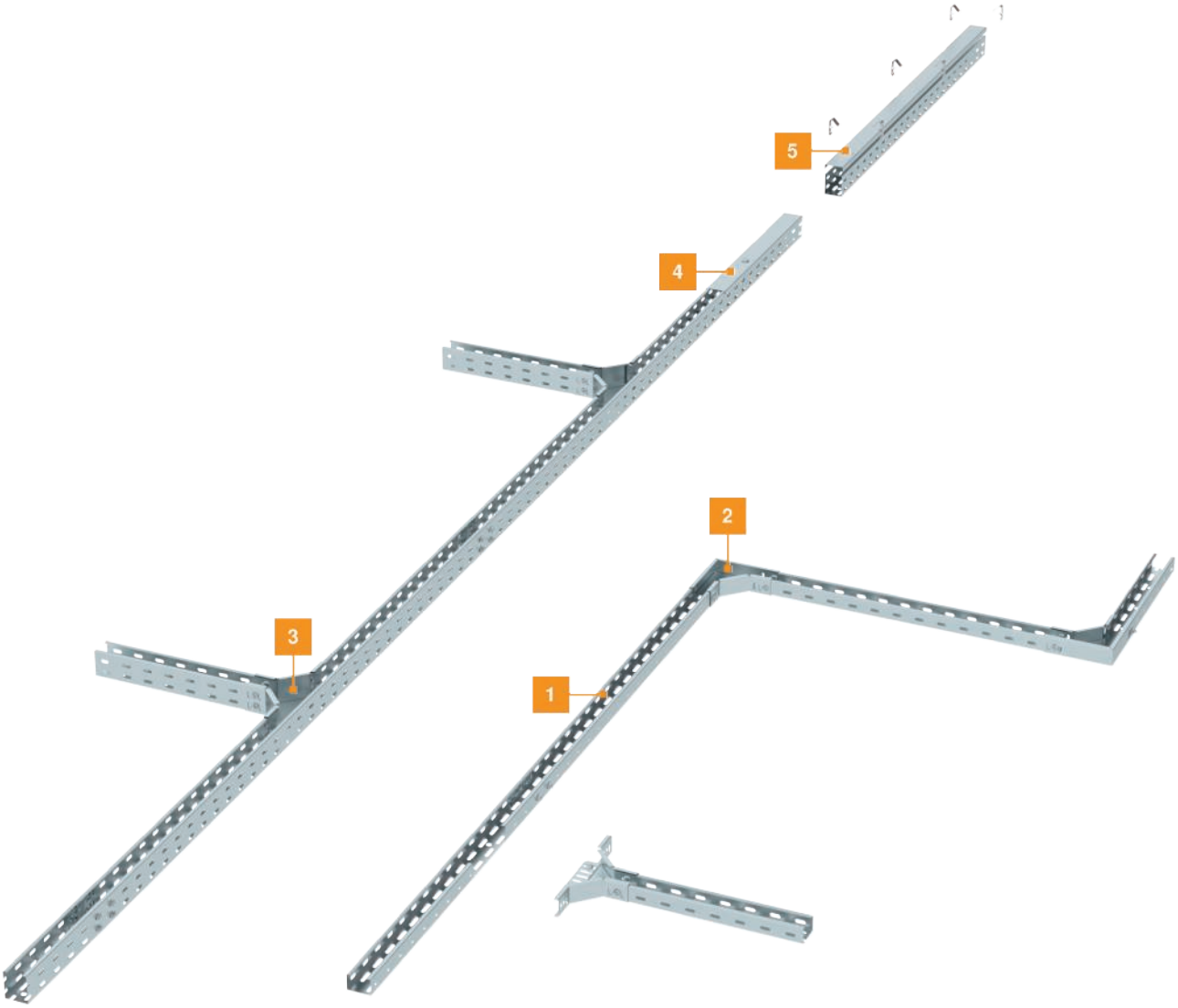
Besides the various fittings, the system also includes all types of connectors (straight, angle and adjustable connectors) and additional accessories such as barrier strips, joint plates, mounting plates and covers.

You can find detailed mounting examples and article descriptions on the following pages. The RKS-Magic® cable tray is tested for routing with the maintenance of electrical function. You can find comprehensive information on this in our new Safety and protective installations product catalogue.

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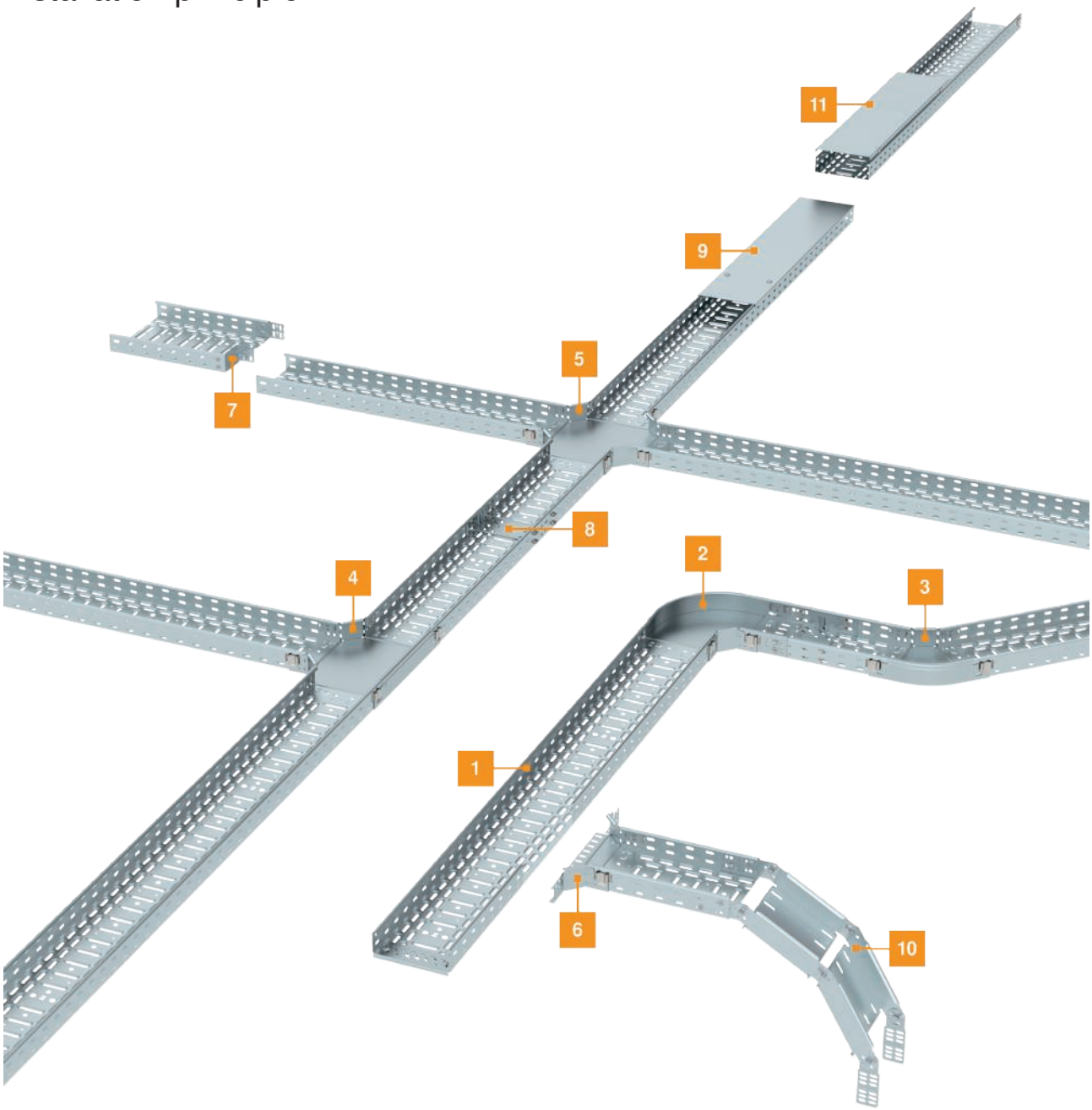
# RKS cable tray system

## Installation principle




| | |
|---|---|
| 1 | RKS cable tray |
| 2 | 90° bend |
| 3 | T branch piece |
| 4 | Cover with turn buckle |
| 5 | Unperforated cover with cover clamp |

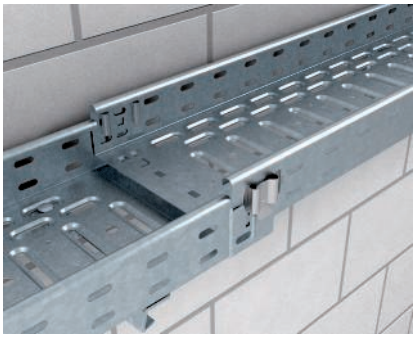
# Installation principle




| | |
|---|---|
| 1 | RKSM cable tray |
| 2 | 90° Magic bend |
| 3 | 45° Magic bend |
| 4 | Magic T branch piece |
| 5 | Magic horizontal cross-over |
| 6 | Magic add-on tee |
| 7 | Reducer/stop-end |
| 8 | Magic straight connector set |
| 9 | Cover with turn buckle |
| 10 | Adjustable bend element |
| 11 | Unperforated cover with cover clamp |

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# Mounting aid



**Straight connection, cable tray interconnection**
The spring element of the cable tray to be connected is snapped into the spring seat of the preceding cable tray from above.



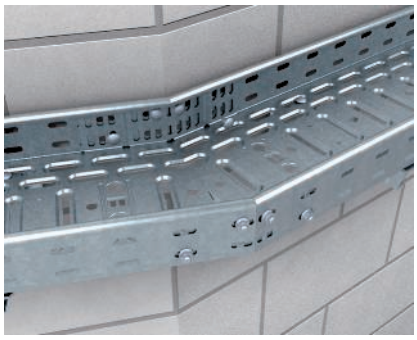
**Cable tray fastening**
The connected cable trays are fixed in place by bending the connection straps in the base with a screwdriver.



**Slackening the connection**
The straight connector can be released again at any time. To do this, push a screwdriver under the spring element to release the lock.



**Mounting of Magic KTSMV straight connector set**
To strengthen the connection, we recommend screwing on the joint plate for widths of more than 400 mm.



**Horizontal angle connection of cable trays**
Horizontal angle connection of cable trays for brackets created during construction and cut cable tray ends.



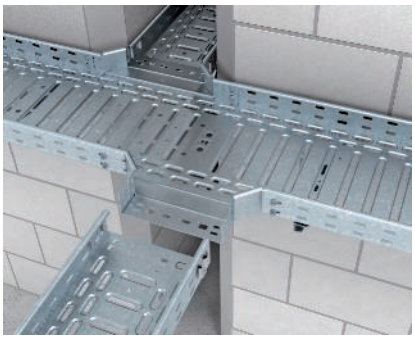
**Vertical adjustable connection of cable trays**
Vertical adjustable connection of cable tray for construction-side height jumps of any angle.



**Width change and end closure**
Illustration of a width change through the installation of the reducer. This component allows the implementation of an end closure of cable trays.



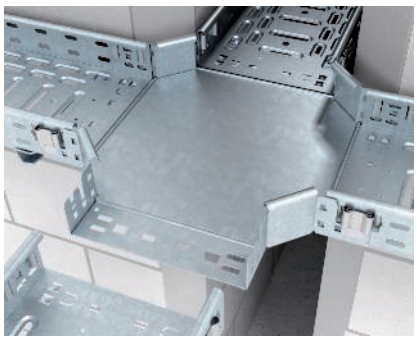
**Mounting of Magic bend**
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



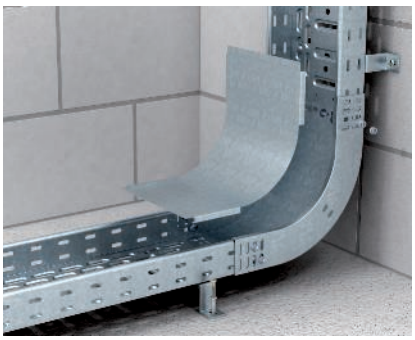
**Mounting of Magic mounting/branch piece**
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



**Mounting of Magic vertical mounting/branch piece (bottom view)**
Vertical mounting of the add-on tee as lengthwise funnel. Perforation in the cable tray is created on-site. For widths > 400 mm, please order connectors separately.



**Mounting of Magic cross-over**
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



**90° bend (rising/falling)**
The 90° vertical bend is pushed over the rail of the cable tray and bolted with truss-head bolts, FRSB M6 x 12 mm. The cover is placed on loosely and fastened using the incoming cable tray covers. The cover clamp DKU can be used for additional fastening.



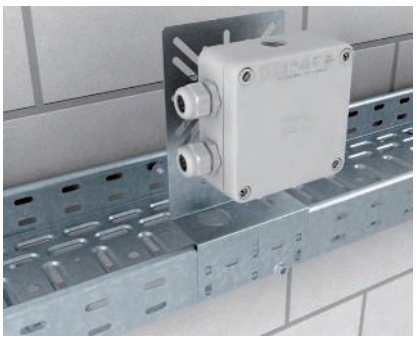
**Installation of rising adjustable vertical bend**
Adjustable vertical bend to bridge height offsets or when changing from horizontal to vertical. The adjustable vertical bend is fastened to the cable tray directly using the adjustable connectors.



**Installation of falling adjustable vertical bend**
Installation of the adjustable vertical bend, falling, to bridge height differences and changes from the horizontal to the vertical.



**Installation of bottom end plate**
The bottom end plate is fastened to the end of the cable tray. It is used to protect outgoing cables.



**Mounting plate with quick fastening**
Fastening of the mounting plate, type MP, on the side rail of the cable tray. The mounting plate can be fastened to the rail with quick connectors, and permanently fastened using truss-head bolts of type FRSB 6x12 mm.



**Installation of cover with turn buckle**
The cover is fastened to the cable tray using turn-buckles; this is done by clamping the turn buckle under the rolled up side rail of the cable tray with a 90° turn.



**Screwless cover fastening with cover clamp**
Screwless cover mounting takes place with unperforated covers and the cover clamps, type DK DRLU. The cover clamp is simply fixed in the rail of the cable tray.

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**Installation of cover for fitting**
The fitting cover is fastened to the cable tray using turn buckles; this is done by clamping the turn buckle under the rolled up side rail of the cable tray with a 90° turn.



**Screwed barrier strip mounting**
Screwed barrier strip fastening of the barrier strip, TSG 60, with truss-head bolts M6x12. The barrier strip can simply be run over the joint and connected without bolts using the barrier strip connector TSGV.

St FS

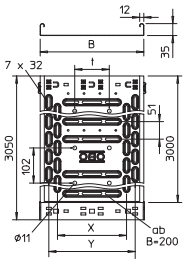
## Cable tray RKS-Magic® 35



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
The perforation for direct threaded rod suspension has a diameter of 11 mm.

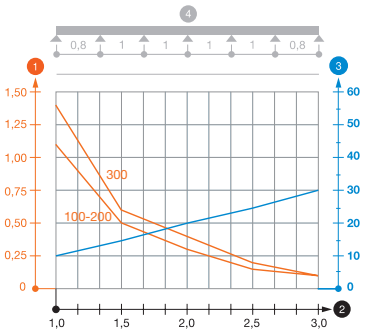
| Type | Width mm | Metal thickness mm | Length mm | | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **RKSM 310 FS** | 100 | 0.75 | 3050 | | 104.328 | **6047417** |
| **RKSM 320 FS** | 200 | 0.75 | 3050 | | 155.738 | **6047433** |
| **RKSM 330 FS** | 300 | 0.75 | 3050 | | 209.840 | **6047460** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. x mm | Dimension y mm |
|---|---|---|---|---|---|
| RKSM 310 FS | 3050 | 100 | 33 | – | 50 |
| RKSM 320 FS | 3050 | 200 | 68 | 100 | 150 |
| RKSM 330 FS | 3050 | 300 | 103 | 200 | 250 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|---|
| **RKSM 310 FS** | 1.1 | 0.5 | 0.3 | 0.15 |
| **RKSM 320 FS** | 1.1 | 0.5 | 0.3 | 0.15 |
| **RKSM 330 FS** | 1.4 | 0.6 | 0.4 | 0.2 |

**Load diagram, cable tray, type RKSM 35**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



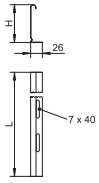
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# Cable trays, side height 35

## Separating retainer 30

St FS DD





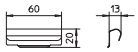

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 30 FS** | 30 | 0.75 | 3000 | 3 | 38.000 | **6062050** |
| **TSG 30 DD** | 30 | 0.75 | 3000 | 3 | 38.000 | **6062314** |

Separating retainer for separation of cables of different voltages or functions.

## Separating retainer connector

VA 2B



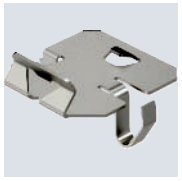


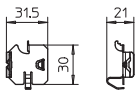

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **TSGV A2** | 10 | 0.899 | **6067970** |

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

## Hold-down clamp for separating retainer fastening in RKSM

VA 2B





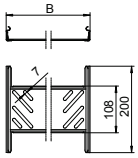

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **KS KR A2** | 30 | 0.537 | **6062280** |

Hold-down clamp for screwless fastening of separating retainers in the cable tray types RKSM, MKS and SKS.

## Magic straight connector set 35

St FS





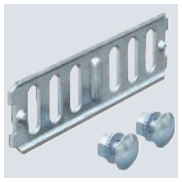

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **KTSMV 310 FS** | 35 | 100 | 1 | 22.700 | **6068900** |
| **KTSMV 320 FS** | 35 | 200 | 1 | 29.400 | **6068902** |
| **KTSMV 330 FS** | 35 | 300 | 1 | 36.100 | **6068904** |

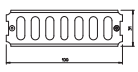
Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 35 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

## Straight connector 35

St FS FT





| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RLVK 35 FS** | 35 | 10 | 5.100 | **6067085** |
| **RLVK 35 FT** | 35 | 10 | 5.100 | **6067301** |

Straight connector for connections of cable trays and fittings with a side height of 35 mm.

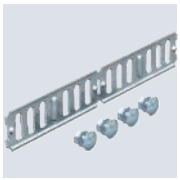
Including appropriate fastening material.

St FS FT

## Straight and angle connector 35

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RWVL 35 FS** | 35 | 10 | 10.500 | **6067107** |
| **RWVL 35 FT** | 35 | 10 | 10.500 | **6067328** |



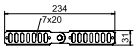


Straight and angle connector for cable trays and fittings with a side height of 35 mm.
Including appropriate fastening material.

St FS

## Adjustable connector 35

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RGV 35 FS** | 35 | 10 | 11.000 | **7082002** |



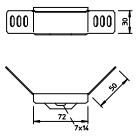



Adjustable connector for cable trays with a side height of 35 mm.
Including appropriate fastening material.

St FS

## Angle connector 35

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WKV 35 FS** | 35 | 5 | 6.800 | **6043038** |



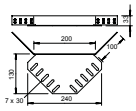



Angle connector for cable trays with a side height of 35 mm.
Including appropriate fastening material.

St FS DD

## Corner connector 35

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **REV 35 FS** | 35 | 10 | 39.000 | **6067956** |
| **REV 35 DD** | 35 | 1 | 24.800 | **6069304** |






Corner connector for cable trays with side height 35 mm.
Fastening materials should be ordered separately.



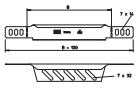
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# Cable trays, side height 35

## Reducer/stop-end 35

St FS





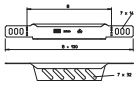
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RWEB 310 FS** | 35 | 100 | 1 | 7.917 | **7108109** |
| **RWEB 320 FS** | 35 | 200 | 1 | 12.300 | **7108206** |
| **RWEB 330 FS** | 35 | 300 | 1 | 18.300 | **7108311** |
| **RWEB 305 FS** | 35 | 50 | 1 | 4.200 | **7108052** |

Reducer/stop-end for cable trays with side height 35 mm.
From a width of 150 mm, a perforated bottom flange is available.
Including appropriate fastening material.

## Reducer / stop-end 35

St DD



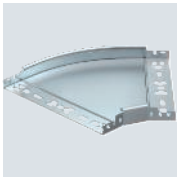


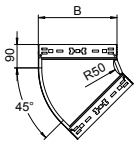
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RWEB 310 DD** | 35 | 100 | 1 | 8.300 | **7107013** |
| **RWEB 320 DD** | 35 | 200 | 1 | 12.300 | **7107048** |

Reducer/stop-end for cable trays with side height 35 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

## 45° Magic bend 35

St FS



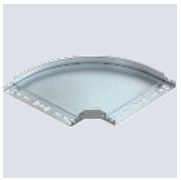


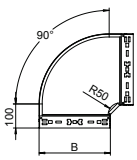

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBM 45 310 FS** | 35 | 100 | 1 | 40.800 | **6041000** |
| **RBM 45 320 FS** | 35 | 200 | 1 | 74.500 | **6041002** |
| **RBM 45 330 FS** | 35 | 300 | 1 | 114.600 | **6041004** |

45° bend with quick connector system. For all cable tray types of 35 mm side height.

## 90° Magic bend 35

St FS





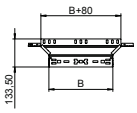

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBM 90 310 FS** | 35 | 100 | 1 | 53.700 | **6041010** |
| **RBM 90 320 FS** | 35 | 200 | 1 | 106.200 | **6041012** |
| **RBM 90 330 FS** | 35 | 300 | 1 | 173.000 | **6041014** |

90° bend with quick connector system. For all cable tray types of 35 mm side height.

## Magic 35 add-on tee

St FS





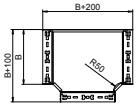

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RAAM 310 FS** | 35 | 100 | 1 | 30.700 | **6041020** |
| **RAAM 320 FS** | 35 | 200 | 1 | 43.400 | **6041022** |
| **RAAM 330 FS** | 35 | 300 | 1 | 56.300 | **6041024** |

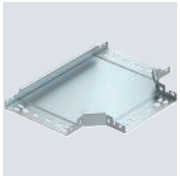
Add-on tee with quick connector system. For all cable tray types of 35 mm side height.

St FS

## Magic 35 tee

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RTM 310 FS** | 35 | 100 | 1 | 69.400 | **6041030** |
| **RTM 320 FS** | 35 | 200 | 1 | 134.000 | **6041032** |
| **RTM 330 FS** | 35 | 300 | 1 | 216.600 | **6041034** |



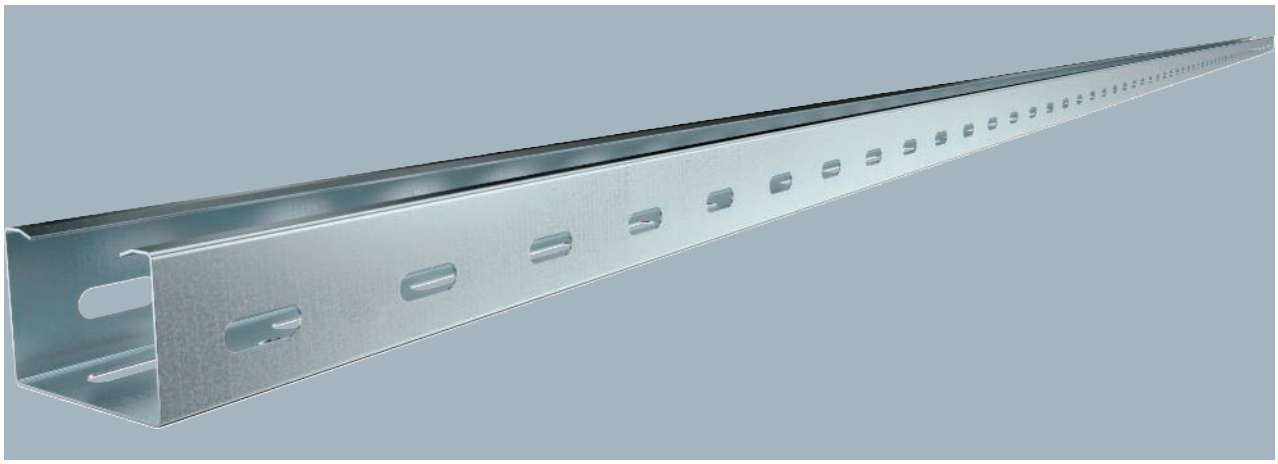



T branch piece with quick connector system. For all cable tray types of 35 mm side height.

Cable trays, side height 35

St FS

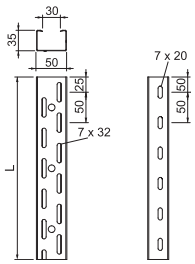
## Cable tray RKS 35



RKS 35 = Rational cable tray system with 35 mm side height.
Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.

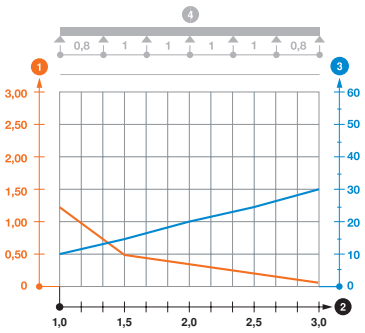
| Type | Side height mm | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **RKS 305 FS** | 35 | 50 | 0.75 | 3 | 69.667 | **6047410** |

### Dimensions




| Type | Dim. L mm | Usable cross-section cm² |
|---|---|---|
| RKS 305 FS | 3000 | 16 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|---|
| **RKS 305 FS** | 1.2 | 0.5 | 0.3 | 0.1 |

**Load diagram, cable tray, type RKS 35**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.

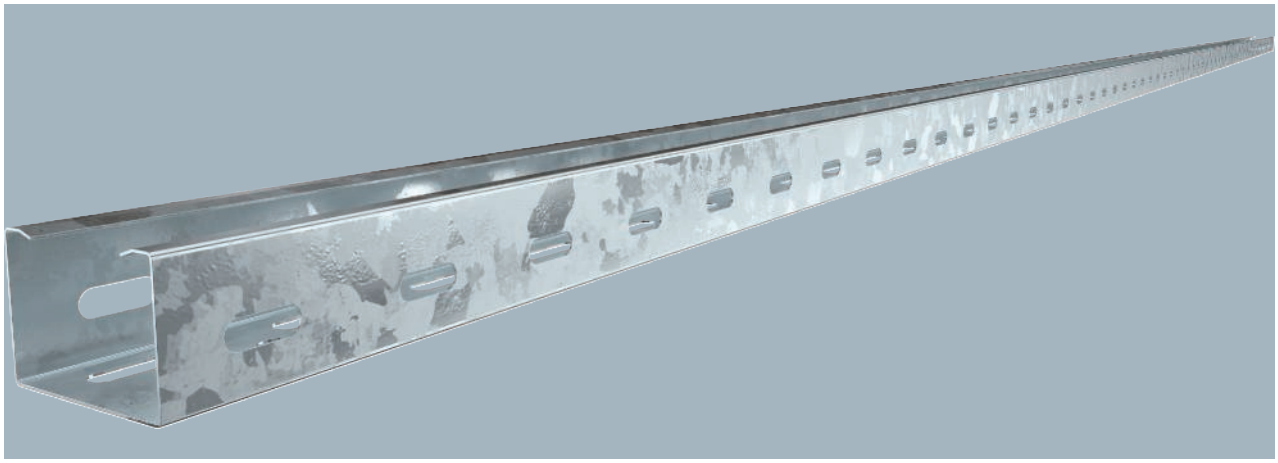




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## Cable tray RKS 35

St FT

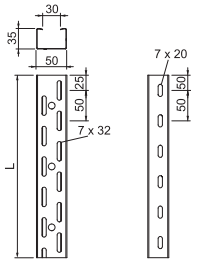


| Type | Side height mm | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **RKS 305 FT** | 35 | 50 | 0.75 | | 3 | 79.334 | **6047412** |

RKS 35 = Rational cable tray system with 35 mm side height.
Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.

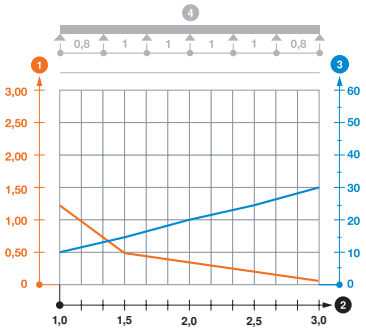
| Type | Dim. L mm | Usable cross-section cm² |
|---|---|---|
| RKS 305 FT | 3000 | 16 |

**Dimensions**




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|---|
| **RKS 305 FT** | 1.2 | 0.5 | 0.3 | 0.1 |

**Load**




**Load diagram, cable tray, type RKS 35**

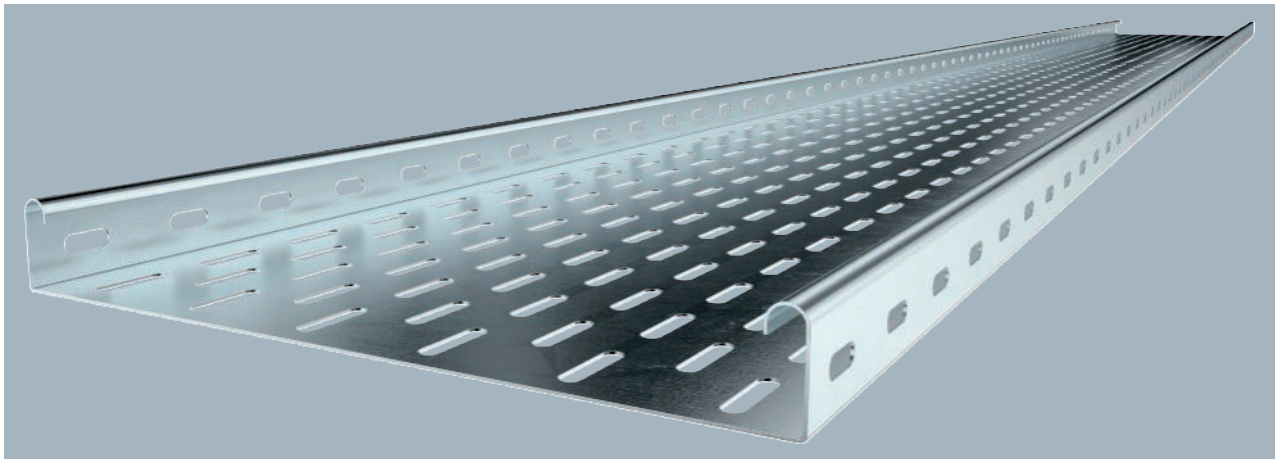
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

## Cable tray MKS 35

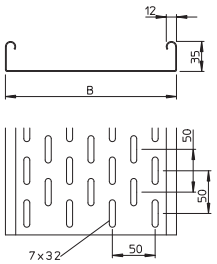


MKS 35 = Medium duty cable tray system with a side height of 35 mm.

FS version includes RV 35 straight connector set.

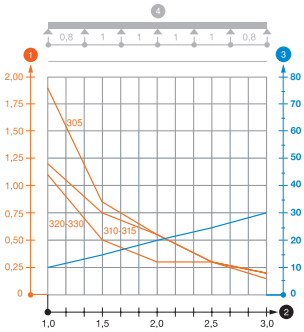
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKS 310 FS** | 100 | 1.00 | 3 | 144.134 | **6053548** |
| **MKS 315 FS** | 150 | 1.00 | 3 | 177.067 | **6053572** |
| **MKS 320 FS** | 200 | 1.00 | 3 | 210.034 | **6053599** |
| **MKS 330 FS** | 300 | 1.00 | 3 | 276.000 | **6053637** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKS 310 FS | 3000 | 100 | 33 |
| MKS 315 FS | 3000 | 150 | 50.5 |
| MKS 320 FS | 3000 | 200 | 68 |
| MKS 330 FS | 3000 | 300 | 103 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|---|
| **MKS 310 FS** | 1.2 | 0.75 | 0.55 | 0.3 |
| **MKS 315 FS** | 1.2 | 0.75 | 0.55 | 0.3 |
| **MKS 320 FS** | 1.1 | 0.5 | 0.3 | 0.3 |
| **MKS 330 FS** | 1.1 | 0.5 | 0.3 | 0.3 |

**Load diagram, cable tray, type MKS 35**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

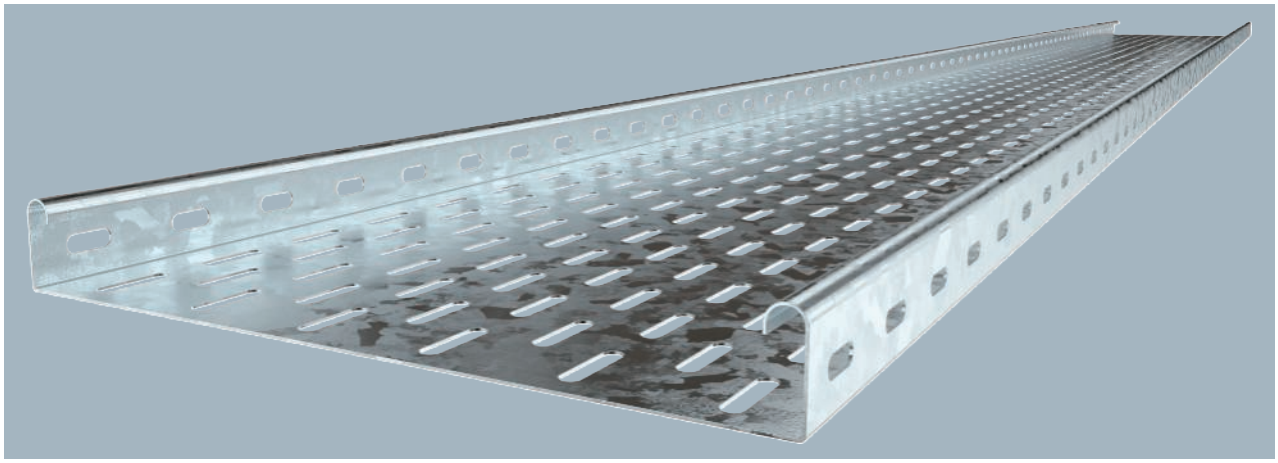
— Strut bend curve according to support width



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## Cable tray MKS 35

St FT

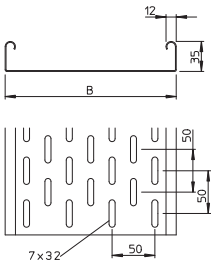


| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKS 310 FT** | 100 | 1.00 | 3 | 153.000 | **6053106** |
| **MKS 315 FT** | 150 | 1.00 | 3 | 188.734 | **6053165** |
| **MKS 320 FT** | 200 | 1.00 | 3 | 225.834 | **6053203** |
| **MKS 330 FT** | 300 | 1.00 | 3 | 295.000 | **6053300** |

MKS 35 = Medium duty cable tray system with a side height of 35 mm.

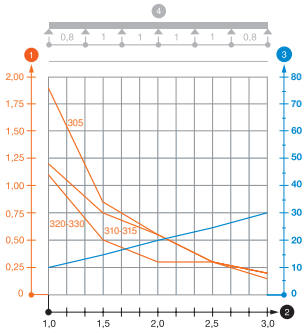
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKS 310 FT | 3000 | 100 | 33 |
| MKS 315 FT | 3000 | 150 | 50.5 |
| MKS 320 FT | 3000 | 200 | 68 |
| MKS 330 FT | 3000 | 300 | 103 |

**Dimensions**




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|---|
| **MKS 310 FT** | 1.2 | 0.75 | 0.55 | 0.3 |
| **MKS 315 FT** | 1.2 | 0.75 | 0.55 | 0.3 |
| **MKS 320 FT** | 1.1 | 0.5 | 0.3 | 0.3 |
| **MKS 330 FT** | 1.1 | 0.5 | 0.3 | 0.3 |

**Load**




**Load diagram, cable tray, type MKS 35**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

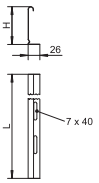
— Strut bend curve according to support width

St FS DD

## Separating retainer 30

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 30 FS | 30 | 0.75 | 3000 | 3 | 38.000 | 6062050 |
| TSG 30 DD | 30 | 0.75 | 3000 | 3 | 38.000 | 6062314 |

Separating retainer for separation of cables of different voltages or functions.



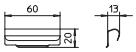



VA 2B

## Separating retainer connector

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| TSGV A2 | 10 | 0.899 | 6067970 |

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



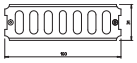


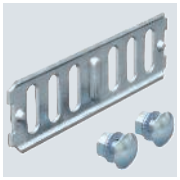

St FS FT

## Straight connector 35

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| RLVK 35 FS | 35 | 10 | 5.100 | 6067085 |
| RLVK 35 FT | 35 | 10 | 5.100 | 6067301 |

Straight connector for connections of cable trays and fittings with a side height of 35 mm.
Including appropriate fastening material.



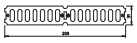


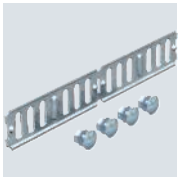
St FS FT

## Straight and angle connector 35

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| RWVL 35 FS | 35 | 10 | 10.500 | 6067107 |
| RWVL 35 FT | 35 | 10 | 10.500 | 6067328 |

Straight and angle connector for cable trays and fittings with a side height of 35 mm.
Including appropriate fastening material.



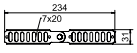


St FS FT

## Adjustable connector 35

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| RGV 35 FS | 35 | 10 | 11.000 | 7082002 |
| RGV 35 FT | 35 | 10 | 11.000 | 7082126 |

Adjustable connector for cable trays with a side height of 35 mm.
Including appropriate fastening material.







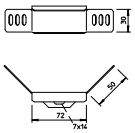

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# Cable trays, side height 35

## Angle connector 35

St FS





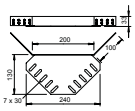
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WKV 35 FS** | 35 | 5 | 6.800 | **6043038** |

Angle connector for cable trays with a side height of 35 mm.
Including appropriate fastening material.

## Corner connector 35

St FS DD



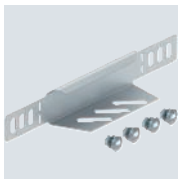


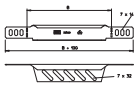
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **REV 35 FS** | 35 | 10 | 39.000 | **6067956** |
| **REV 35 DD** | 35 | 1 | 24.800 | **6069304** |

Corner connector for cable trays with side height 35 mm.
Fastening materials should be ordered separately.

## Reducer/stop-end 35

St FS



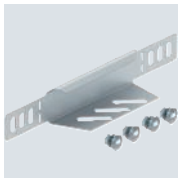


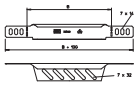
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RWEB 310 FS** | 35 | 100 | 1 | 7.917 | **7108109** |
| **RWEB 320 FS** | 35 | 200 | 1 | 12.300 | **7108206** |
| **RWEB 330 FS** | 35 | 300 | 1 | 18.300 | **7108311** |
| **RWEB 305 FS** | 35 | 50 | 1 | 4.200 | **7108052** |

Reducer/stop-end for cable trays with side height 35 mm.
From a width of 150 mm, a perforated bottom flange is available.
Including appropriate fastening material.

## Reducer / stop-end 35

St DD



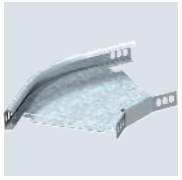


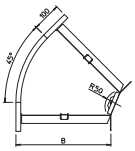
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RWEB 310 DD** | 35 | 100 | 1 | 8.300 | **7107013** |
| **RWEB 320 DD** | 35 | 200 | 1 | 12.300 | **7107048** |

Reducer/stop-end for cable trays with side height 35 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

## 45° bend 35

St FS FT





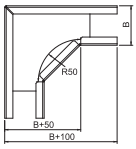
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RB 45 310 FS** | 35 | 100 | 1 | 40.000 | **6043704** |
| **RB 45 320 FS** | 35 | 200 | 1 | 60.000 | **6043712** |
| **RB 45 330 FS** | 35 | 300 | 1 | 90.000 | **6043720** |
| **RB 45 310 FT** | 35 | 100 | 1 | 43.000 | **7065116** |
| **RB 45 315 FT** | 35 | 150 | 1 | 55.000 | **7065167** |
| **RB 45 320 FT** | 35 | 200 | 1 | 65.000 | **7065213** |
| **RB 45 330 FT** | 35 | 300 | 1 | 97.000 | **7065310** |

45° bend, horizontal, for all cable tray types of 35 mm side height.
The WKV 35 angle connector is designed for 90° bends and can be adjusted to 45° on site. The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

## 90° bend

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RB 90 305 FS | 35 | 50 | 1 | 31.100 | 7124400 |
| RB 90 305 FT | 35 | 50 | 1 | 32.900 | 7124410 |



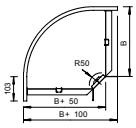


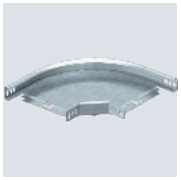

90° bend for horizontal routing of cable trays, type RKS 305.

St FS FT

## 90° bend 35

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RB 90 310 FS | 35 | 100 | 1 | 31.100 | 6043119 |
| RB 90 315 FS | 35 | 150 | 1 | 65.000 | 6043123 |
| RB 90 320 FS | 35 | 200 | 1 | 64.300 | 6043127 |
| RB 90 330 FS | 35 | 300 | 1 | 112.300 | 6043135 |
| RB 90 310 FT | 35 | 100 | 1 | 48.000 | 7124120 |
| RB 90 320 FT | 35 | 200 | 1 | 98.000 | 7124236 |
| RB 90 330 FT | 35 | 300 | 1 | 150.000 | 7124325 |



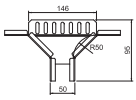



90° bend, horizontal, for all cable tray types of 35 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

## Mounting/branch piece 35

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RAA 305 FS | 35 | 50 | 1 | 24.440 | 7120450 |
| RAA 305 FT | 35 | 50 | 1 | 24.440 | 7120458 |



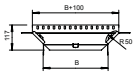



Add-on tee for the horizontal routing of cable trays, type RKS 305.

St FS FT

## Add-on tee 35

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RAA 310 FS | 35 | 100 | 1 | 30.000 | 6040322 |
| RAA 320 FS | 35 | 200 | 1 | 35.000 | 6040349 |
| RAA 330 FS | 35 | 300 | 1 | 50.000 | 6040357 |
| RAA 310 FT | 35 | 100 | 1 | 33.000 | 7120117 |
| RAA 315 FT | 35 | 150 | 1 | 39.700 | 7120140 |
| RAA 320 FT | 35 | 200 | 1 | 38.000 | 7120214 |
| RAA 330 FT | 35 | 300 | 1 | 55.000 | 7120311 |





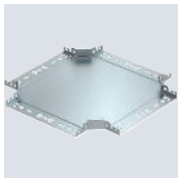

Add-on tee for horizontal and vertical use. For all cable tray types of 35 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

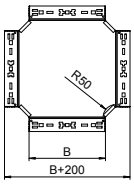


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## Magic 35 cross-over

St FS





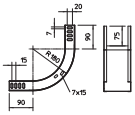

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RKM 310 FS** | 35 | 100 | 1 | 78.500 | **7027241** |
| **RKM 320 FS** | 35 | 200 | 1 | 146.300 | **7027243** |
| **RKM 330 FS** | 35 | 300 | 1 | 231.200 | **7027245** |

Cross-over with quick connector system. For all cable tray types of 35 mm side height.

## 90° vertical bend, rising, 35

St FS FT



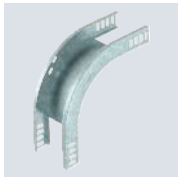


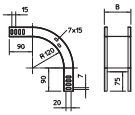
| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBV 310 S FS** | 35 | 100 | 1 | 55.600 | **7007174** |
| **RBV 315 S FS** | 35 | 150 | 1 | 66.400 | **7007178** |
| **RBV 320 S FS** | 35 | 200 | 1 | 77.300 | **7007182** |
| **RBV 330 S FS** | 35 | 300 | 1 | 99.000 | **7007186** |
| **RBV 310 S FT** | 35 | 100 | 1 | 61.100 | **7007176** |
| **RBV 315 S FT** | 35 | 150 | 1 | 73.000 | **7007180** |
| **RBV 320 S FT** | 35 | 200 | 1 | 85.000 | **7007184** |
| **RBV 330 S FT** | 35 | 300 | 1 | 100.900 | **7007188** |

90° rising vertical bend, for all cable tray types of 35 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

## 90° vertical bend, falling 35

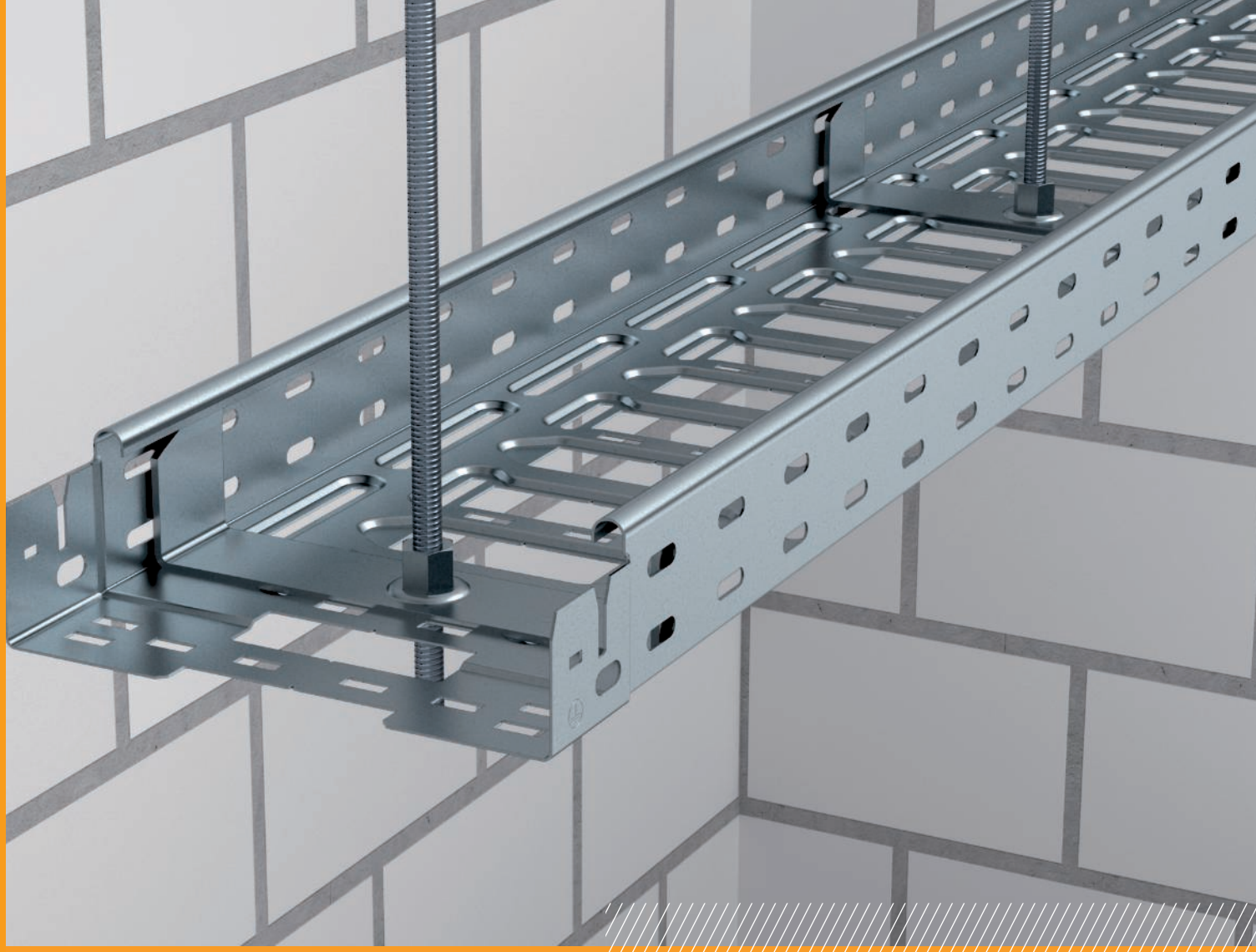
St FS FT





| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBV 310 F FS** | 35 | 100 | 1 | 51.300 | **7007204** |
| **RBV 315 F FS** | 35 | 150 | 1 | 60.000 | **7007208** |
| **RBV 320 F FS** | 35 | 200 | 1 | 68.700 | **7007212** |
| **RBV 330 F FS** | 35 | 300 | 1 | 86.100 | **7007216** |
| **RBV 310 F FT** | 35 | 100 | 1 | 56.000 | **7007206** |
| **RBV 315 F FT** | 35 | 150 | 1 | 66.000 | **7007210** |
| **RBV 320 F FT** | 35 | 200 | 1 | 76.000 | **7007214** |
| **RBV 330 F FT** | 35 | 300 | 1 | 95.000 | **7007218** |

90° vertical bend, falling, for all cable tray types of 35 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.



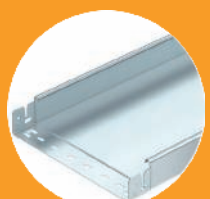
# MKS-Magic® cable tray system

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task.

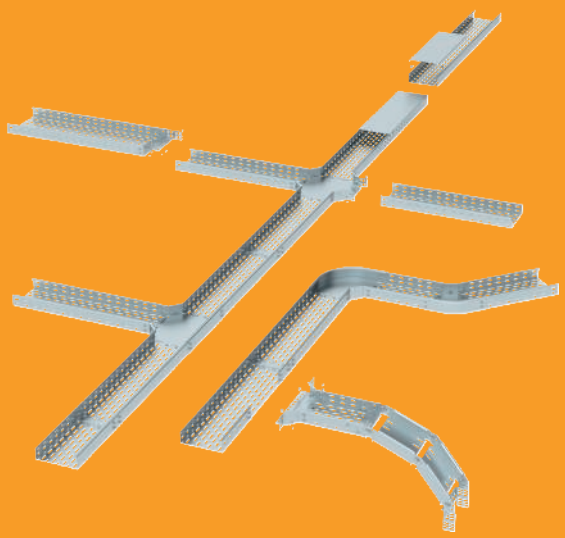
- Snap-in fittings with screwless Magic connection
- Side height 60, 85 and 110 mm



MKS-Magic® cable tray

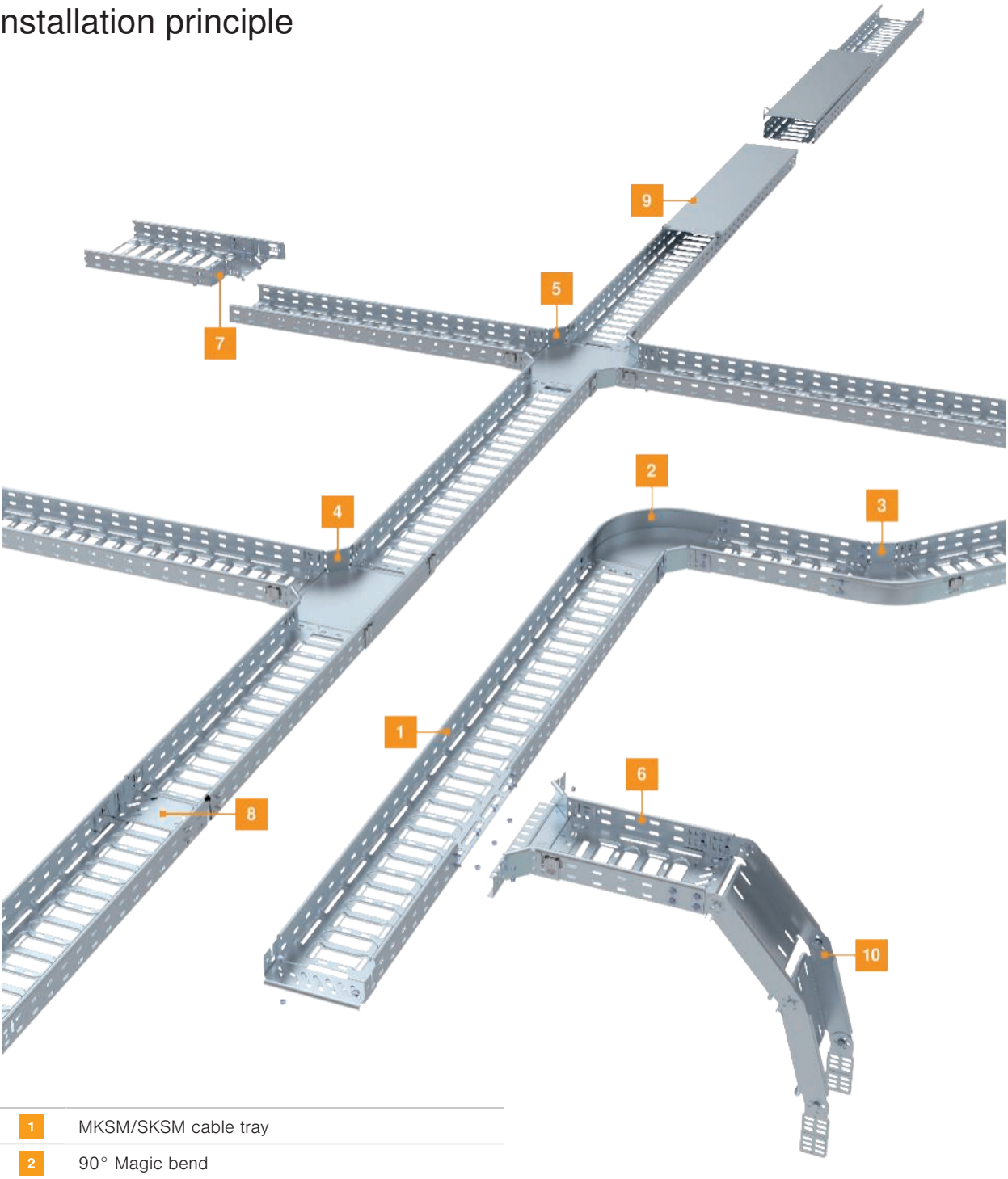


MKS-Magic® cable tray unperforated



# MKS-Magic® cable tray system

## Installation principle




| | |
|---|---|
| 1 | MKSM/SKSM cable tray |
| 2 | 90° Magic bend |
| 3 | 45° Magic bend |
| 4 | Magic T branch piece |
| 5 | Magic horizontal cross-over |
| 6 | Magic add-on tee |
| 7 | Reducer/stop-end |
| 8 | Magic straight connector set |
| 9 | Cover with turn buckle |
| 10 | Adjustable bend element |

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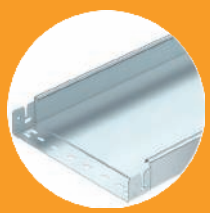
# SKS-Magic® cable tray system

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task.

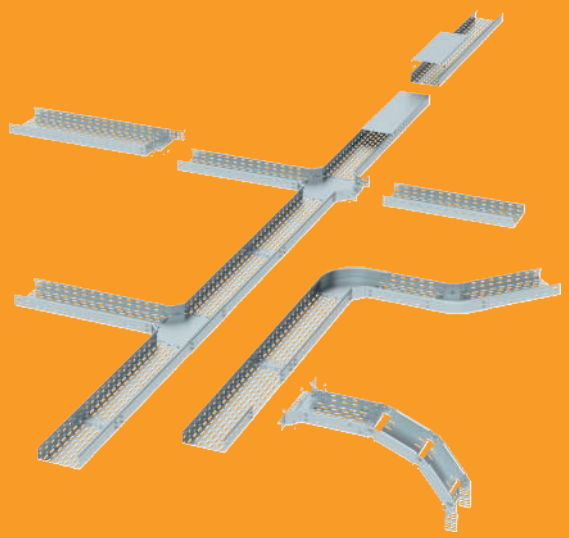
- Snap-in fittings with screwless Magic connection
- Side height 60, 85 and 110 mm



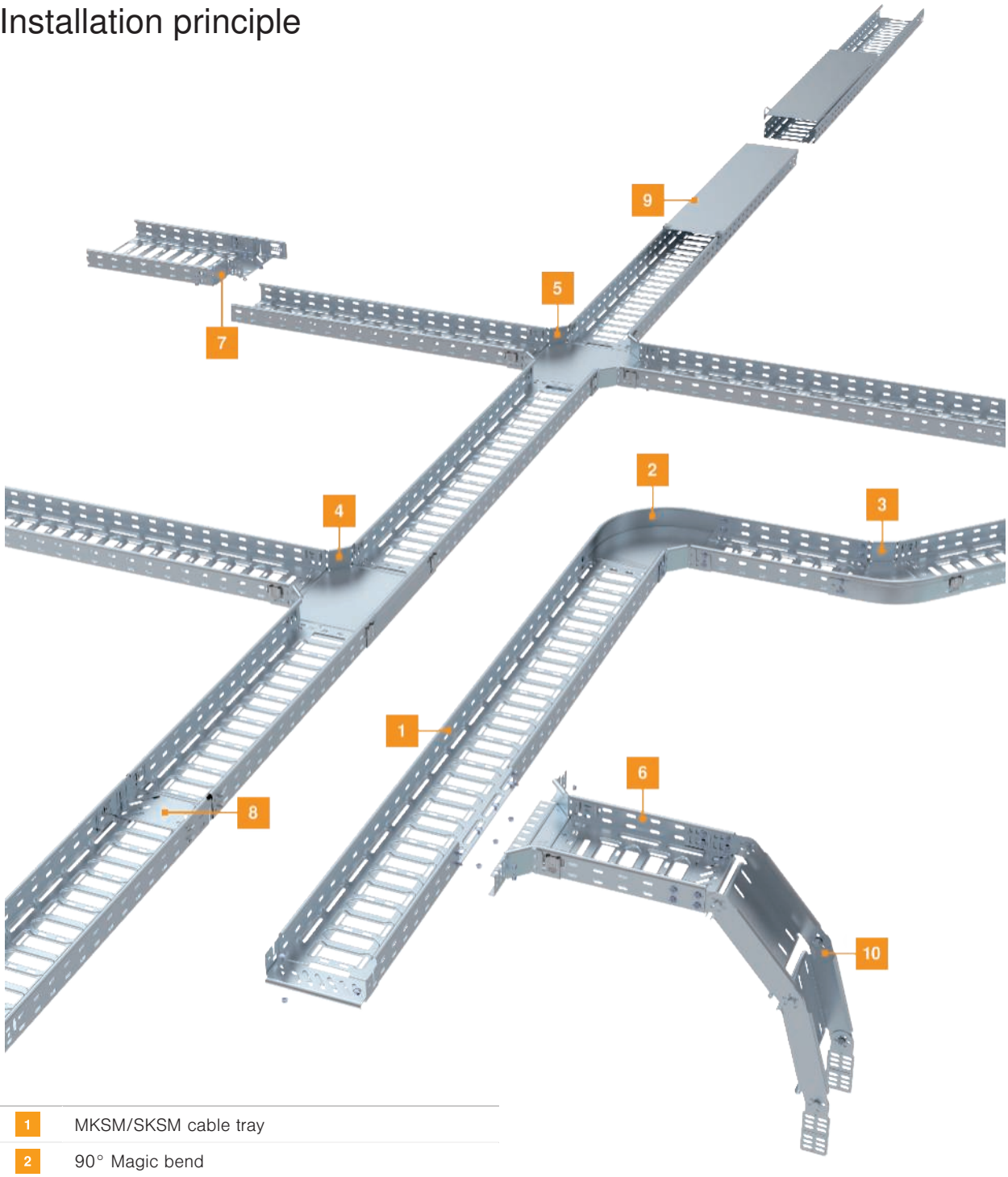
Cable tray SKS-Magic®



Cable tray SKS-Magic® unperforated



## Installation principle



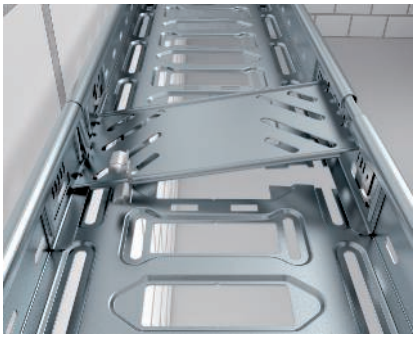

| | |
|---|---|
| 1 | MKSM/SKSM cable tray |
| 2 | 90° Magic bend |
| 3 | 45° Magic bend |
| 4 | Magic T branch piece |
| 5 | Magic horizontal cross-over |
| 6 | Magic add-on tee |
| 7 | Reducer/stop-end |
| 8 | Magic straight connector set |
| 9 | Cover with turn buckle |
| 10 | Adjustable bend element |

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

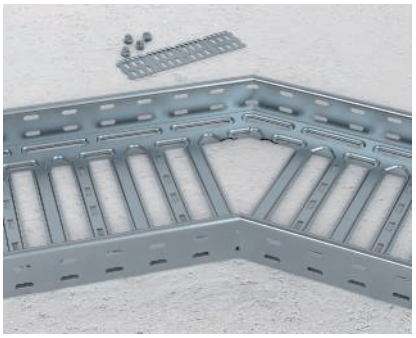
# Mounting aid



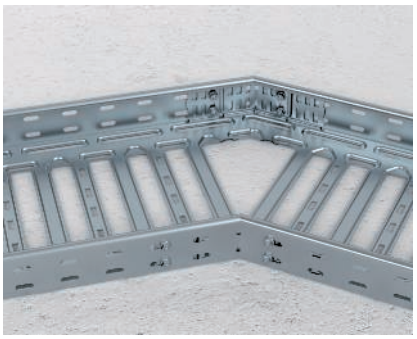
**Mounting of Magic KTSMV straight connector set**
Simply clamp the two side sections of the connector set in the side rail.



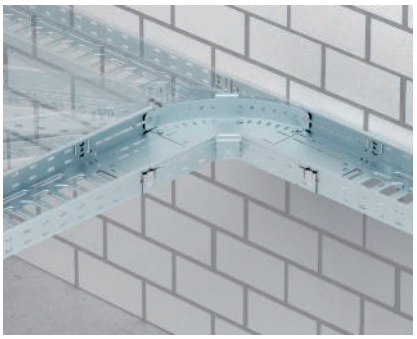
**Mounting of Magic KTSMV straight connector set**
Insert the corresponding joint plate, push it down and simply lock it in place. To strengthen the connection, we recommend screwing on the joint plate for widths of more than 400 mm.



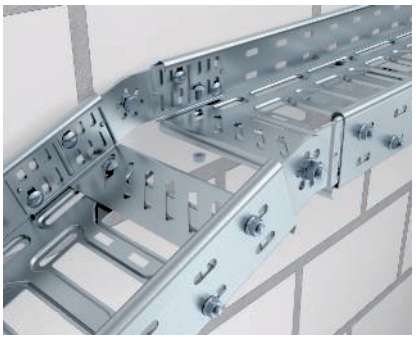
**Change of direction by cutting the cable tray**
Cut and bend the cable tray, then fix the cut rail with an angle connector, type RWVL.



**Change of direction with separate cable trays**
Combine the cut trays and fix them from the inside at the joint using angle connectors, type RWVL.



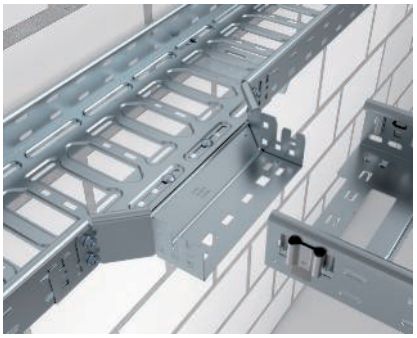
**Creating a change of direction with the variable Magic bend**
The variable Magic bend, type RBMV..., can be used to install infinitely variable direction changes of 0° – 90° to the route.



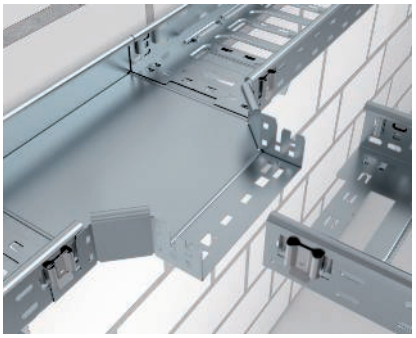
**Vertical adjustable connection of cable trays**
Vertical adjustable connection of cable tray for construction-side height jumps of any angle.



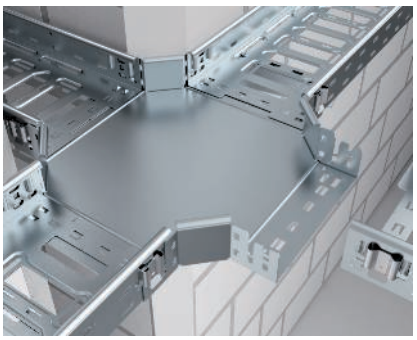
**Mounting of Magic bend**
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



**Mounting of Magic mounting/branch piece**
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



**Mounting of Magic T branch piece**
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



**Mounting of Magic intersection**
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



**90° bend (rising/falling)**
90° bend, rising or falling, for the creation of simple vertical changes of direction.



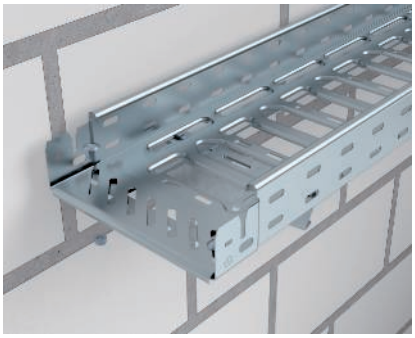
**Installation of adjustable vertical bend element**
Mounting of the adjustable vertical bend element for the creation of adjustable bends. The adjustable vertical bend element is connected to the cable tray using adjustable connectors.



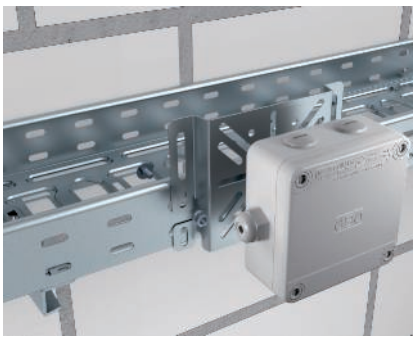
**Installation of rising adjustable vertical bend**
Adjustable vertical bend to bridge height offsets. The adjustable vertical bend is connected with to the cable tray using the adjustable connectors.



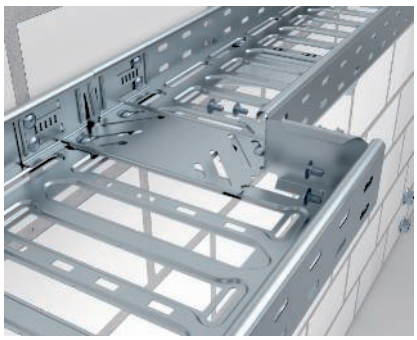
**Screwless cover mounting**
Unperforated covers are mounted using cover clamps, type DK DRLU. The cover clamps are first clamped to the cover edge and then snapped on to the cable tray rail with the cover.



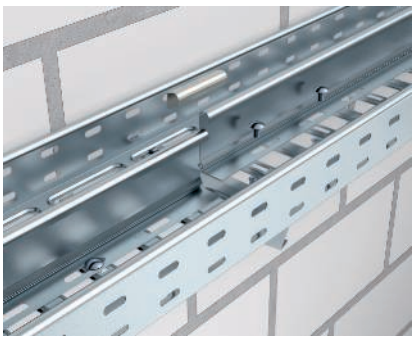
**Installation of bottom end plate**
Fastening of the bottom end plate, type BEB, to protect the cables.



**Universal mounting plate**
Fastening of the mounting plate, type MP UNI, on the cable tray.



**Installation of reducer / stop-end**
The reducer / stop-end plate component is used as closure and to reduce the width of cable trays.

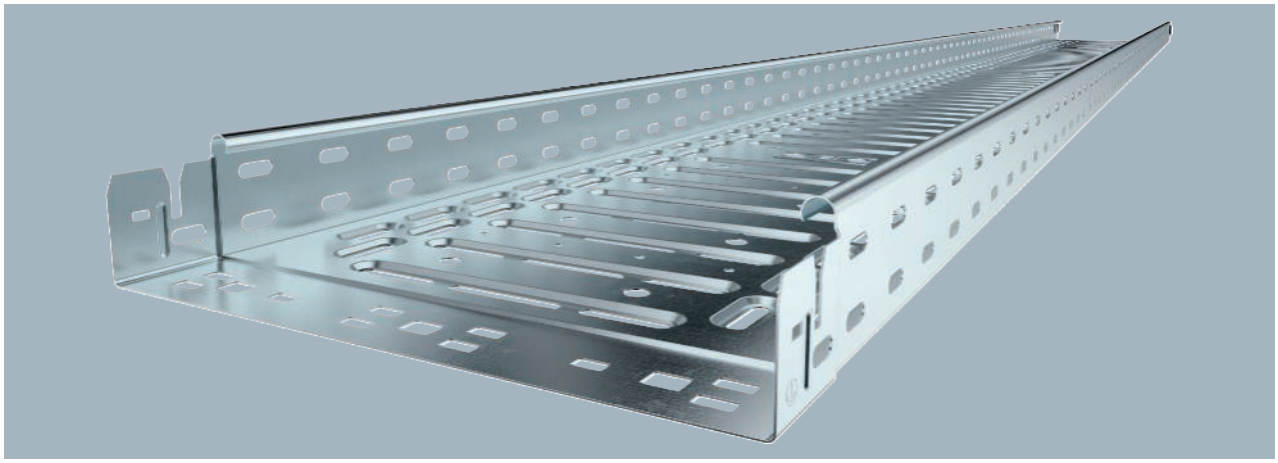


**Barrier strip mounting with screw connection**
Screwed barrier strip fastening of the barrier strip, TSG 60, with truss-head bolts M6x12. The barrier strip can simply be run over the joint and connected without bolts using the barrier strip connector TSGV.

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## Cable tray RKS-Magic® 60

St FS

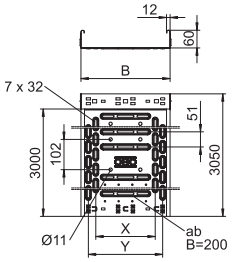


| Type | Width mm | Metal thick-ness mm | BS | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **RKSM 610 FS** | 100 | 0.75 | | | 3 | 134.334 | **6047611** |
| **RKSM 615 FS** | 150 | 0.75 | | | 3 | 154.885 | **6047630** |
| **RKSM 620 FS** | 200 | 0.75 | | | 3 | 181.508 | **6047638** |
| **RKSM 630 FS** | 300 | 0.75 | | | 3 | 233.803 | **6047654** |
| **RKSM 640 FS** | 400 | 0.90 | | | 3 | 338.459 | **6047689** |
| **RKSM 650 FS** | 500 | 0.90 | | | 3 | 401.246 | **6047719** |
| **RKSM 660 FS** | 600 | 0.90 | | | 3 | 464.000 | **6047735** |

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
The perforation for direct threaded rod suspension has a diameter of 11 mm.

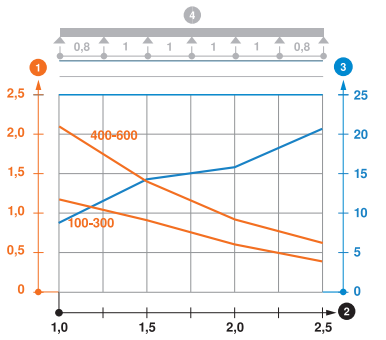
| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. x mm | Dim-en-sion y mm |
|---|---|---|---|---|---|
| RKSM 610 FS | 3050 | 100 | 58 | – | 50 |
| RKSM 615 FS | 3050 | 150 | 88 | 50 | 100 |
| RKSM 620 FS | 3050 | 200 | 118 | 100 | 150 |
| RKSM 630 FS | 3050 | 300 | 178 | 200 | 250 |
| RKSM 640 FS | 3050 | 400 | 238 | 300 | 350 |
| RKSM 650 FS | 3050 | 500 | 298 | 400 | 450 |
| RKSM 660 FS | 3050 | 600 | 358 | 450 | 550 |

**Dimensions**




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | NEMA load class |
|---|---|---|---|---|---|
| **RKSM 610 FS** | 1.2 | 0.9 | 0.6 | 0.4 | 8AA |
| **RKSM 615 FS** | 1.2 | 1 | 0.6 | 0.4 | 8AA |
| **RKSM 620 FS** | 1.2 | 1 | 0.55 | 0.4 | 8AA |
| **RKSM 630 FS** | 1.2 | 1 | 0.55 | 0.4 | 8AA |
| **RKSM 640 FS** | 2.1 | 1.35 | 0.8 | 0.6 | 8AA |
| **RKSM 650 FS** | 2.1 | 1.35 | 0.8 | 0.6 | 8AA |
| **RKSM 660 FS** | 2.1 | 1.4 | 0.8 | 0.6 | 8AA |

**Load**




**Load diagram, cable tray, type RKSM 60**

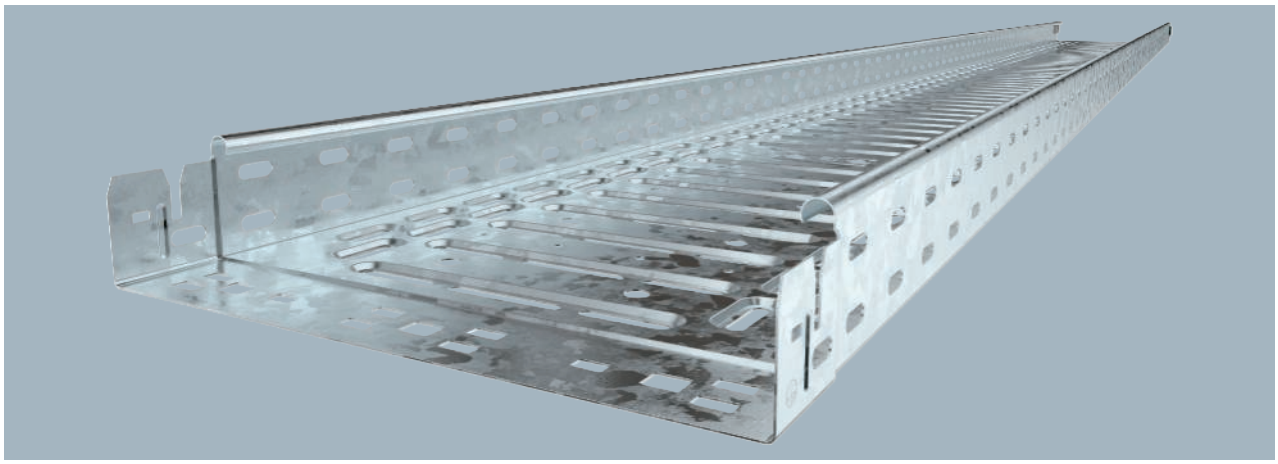
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

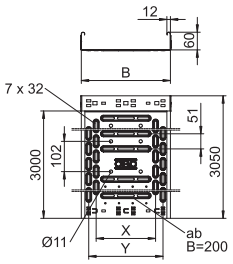
## Cable tray RKS-Magic® 60



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
The perforation for direct threaded rod suspension has a diameter of 11 mm.

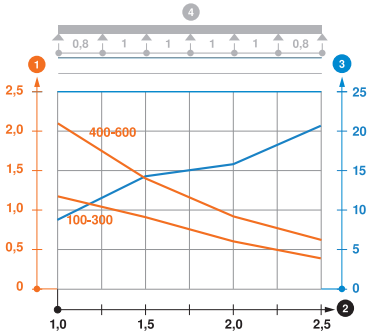
| Type | Width mm | Metal thickness mm | BS | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **RKSM 610 FT** | 100 | 1.00 | | | 3 | 197.410 | **6047612** |
| **RKSM 615 FT** | 150 | 1.00 | | | 3 | 236.984 | **6047631** |
| **RKSM 620 FT** | 200 | 1.00 | | | 3 | 251.115 | **6047639** |
| **RKSM 630 FT** | 300 | 1.00 | | | 3 | 356.295 | **6047655** |
| **RKSM 640 FT** | 400 | 1.00 | | | 3 | 437.180 | **6047690** |
| **RKSM 650 FT** | 500 | 1.00 | | | 3 | 518.295 | **6047720** |
| **RKSM 660 FT** | 600 | 1.00 | | | 3 | 599.443 | **6047736** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. x mm | Dimension y mm |
|---|---|---|---|---|---|
| RKSM 610 FT | 3050 | 100 | 58 | – | 50 |
| RKSM 615 FT | 3050 | 150 | 88 | 50 | 100 |
| RKSM 620 FT | 3050 | 200 | 118 | 100 | 150 |
| RKSM 630 FT | 3050 | 300 | 178 | 200 | 250 |
| RKSM 640 FT | 3050 | 400 | 238 | 300 | 350 |
| RKSM 650 FT | 3050 | 500 | 298 | 400 | 450 |
| RKSM 660 FT | 3050 | 600 | 358 | 450 | 550 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | NEMA load class |
|---|---|---|---|---|---|
| **RKSM 610 FT** | 1.2 | 0.9 | 0.6 | 0.4 | 8AA |
| **RKSM 615 FT** | 1.2 | 0.9 | 0.6 | 0.4 | 8AA |
| **RKSM 620 FT** | 1.2 | 0.9 | 0.6 | 0.4 | 8AA |
| **RKSM 630 FT** | 1.2 | 0.9 | 0.6 | 0.4 | 8AA |
| **RKSM 640 FT** | 2.1 | 1.35 | 0.9 | 0.6 | 8AA |
| **RKSM 650 FT** | 2.1 | 1.35 | 0.9 | 0.6 | 8AA |
| **RKSM 660 FT** | 2.1 | 1.35 | 0.9 | 0.6 | 8AA |

**Load diagram, cable tray, type RKSM 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.

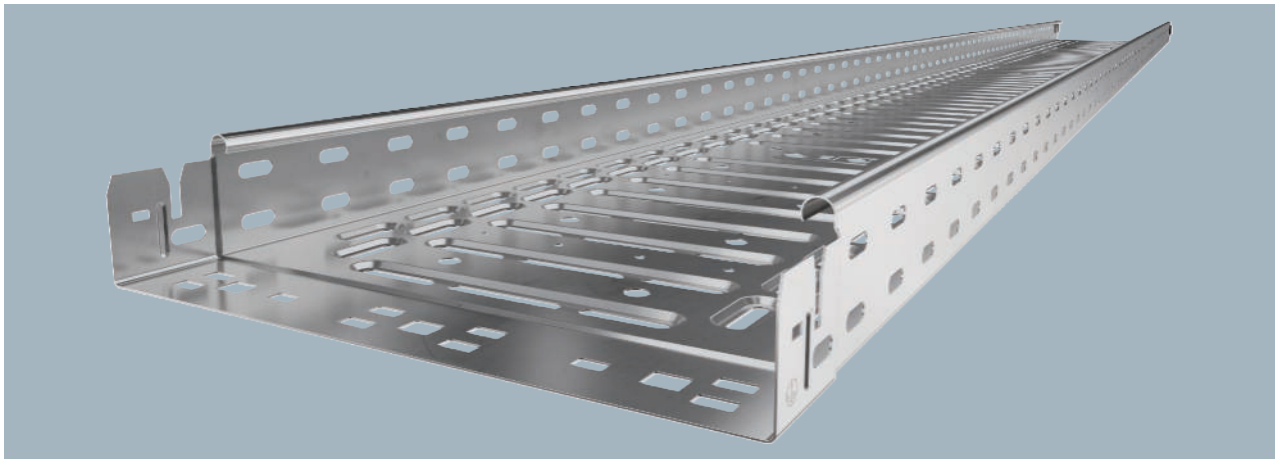




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## Cable tray RKS-Magic® 60

A2 2B

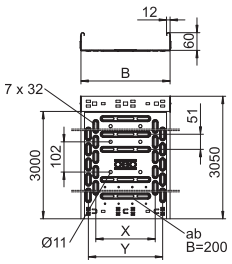


| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **RKSM 610 A2** | 100 | 0.75 | 3 | 144.590 | **6047613** |
| **RKSM 620 A2** | 200 | 0.75 | 3 | 200.984 | **6047640** |
| **RKSM 630 A2** | 300 | 0.75 | 3 | 259.344 | **6047656** |
| **RKSM 640 A2** | 400 | 0.90 | 3 | 358.361 | **6047691** |
| **RKSM 650 A2** | 500 | 0.90 | 3 | 424.590 | **6047721** |
| **RKSM 660 A2** | 600 | 0.90 | 3 | 491.148 | **6047737** |

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
The perforation for direct threaded rod suspension has a diameter of 11 mm.

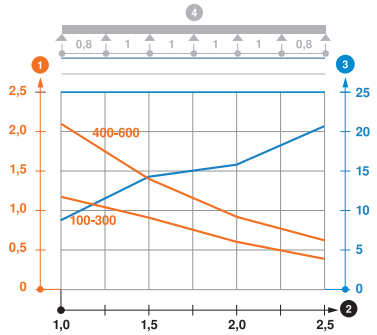
| Type | Length mm | Dim. B mm | Usable cross-section $cm^2$ | Dim. x mm | Dim-en-sion y mm |
|---|---|---|---|---|---|
| RKSM 610 A2 | 3050 | 100 | 58 | – | 50 |
| RKSM 620 A2 | 3050 | 200 | 118 | 100 | 150 |
| RKSM 630 A2 | 3050 | 300 | 178 | 200 | 250 |
| RKSM 640 A2 | 3050 | 400 | 238 | 300 | 350 |
| RKSM 650 A2 | 3050 | 500 | 298 | 400 | 450 |
| RKSM 660 A2 | 3050 | 600 | 358 | 450 | 550 |

### Dimensions




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|---|
| **RKSM 610 A2** | 1.2 | 0.9 | 0.6 | 0.4 |
| **RKSM 620 A2** | 1.2 | 0.9 | 0.6 | 0.4 |
| **RKSM 630 A2** | 1.2 | 0.9 | 0.6 | 0.4 |
| **RKSM 640 A2** | 2.1 | 1.35 | 0.9 | 0.6 |
| **RKSM 650 A2** | 2.1 | 1.35 | 0.9 | 0.6 |
| **RKSM 660 A2** | 2.1 | 1.35 | 0.9 | 0.6 |

### Load




### Load diagram, cable tray, type RKSM 60

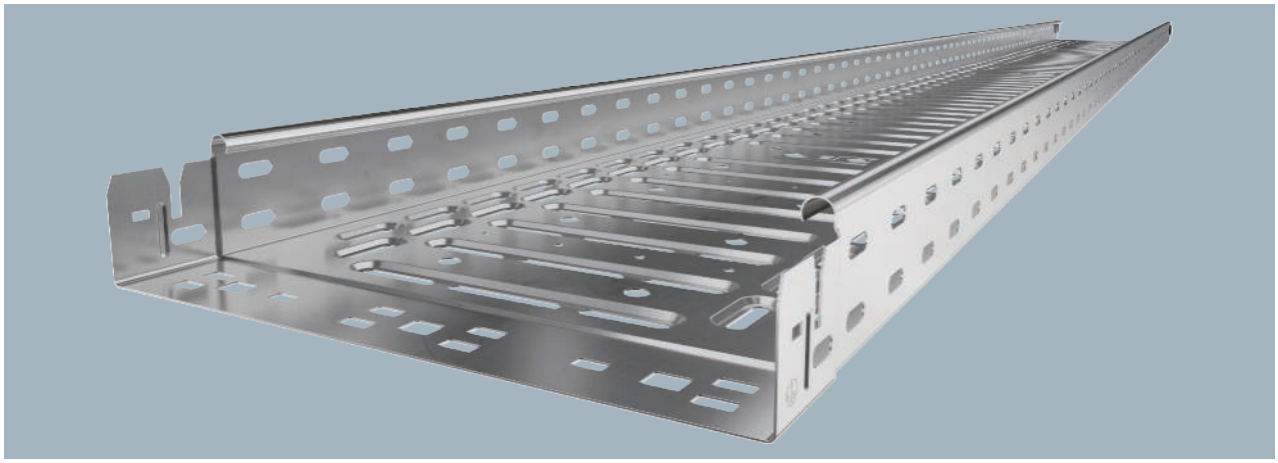
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A4 2B

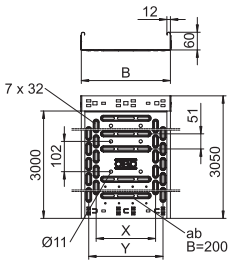
## Cable tray RKS-Magic® 60



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
The perforation for direct threaded rod suspension has a diameter of 11 mm.

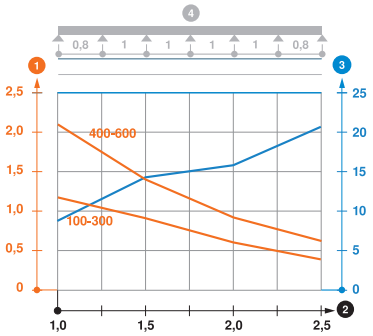
| Type | Width mm | Metal thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **RKSM 610 A4** | 100 | 0.75 | | 3 | 144.590 | **6047614** |
| **RKSM 615 A4** | 150 | 0.75 | | 3 | 172.787 | **6047633** |
| **RKSM 620 A4** | 200 | 0.75 | | 3 | 200.984 | **6047641** |
| **RKSM 630 A4** | 300 | 0.75 | | 3 | 259.344 | **6047657** |
| **RKSM 640 A4** | 400 | 0.90 | | 3 | 358.361 | **6047692** |
| **RKSM 650 A4** | 500 | 0.90 | | 3 | 424.590 | **6047722** |
| **RKSM 660 A4** | 600 | 0.90 | | 3 | 491.148 | **6047738** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. x mm | Dimension y mm |
|---|---|---|---|---|---|
| RKSM 610 A4 | 3050 | 100 | 58 | – | 50 |
| RKSM 615 A4 | 3050 | 150 | 88 | 50 | 100 |
| RKSM 620 A4 | 3050 | 200 | 118 | 100 | 150 |
| RKSM 630 A4 | 3050 | 300 | 178 | 200 | 250 |
| RKSM 640 A4 | 3050 | 400 | 238 | 300 | 350 |
| RKSM 650 A4 | 3050 | 500 | 298 | 400 | 450 |
| RKSM 660 A4 | 3050 | 600 | 358 | 450 | 550 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|---|
| **RKSM 610 A4** | 1.2 | 0.9 | 0.6 | 0.4 |
| **RKSM 615 A4** | 1.2 | 0.9 | 0.6 | 0.4 |
| **RKSM 620 A4** | 1.2 | 0.9 | 0.6 | 0.4 |
| **RKSM 630 A4** | 1.2 | 0.9 | 0.6 | 0.4 |
| **RKSM 640 A4** | 2.1 | 1.35 | 0.9 | 0.6 |
| **RKSM 650 A4** | 2.1 | 1.35 | 0.9 | 0.6 |
| **RKSM 660 A4** | 2.1 | 1.35 | 0.9 | 0.6 |

**Load diagram, cable tray, type RKSM 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

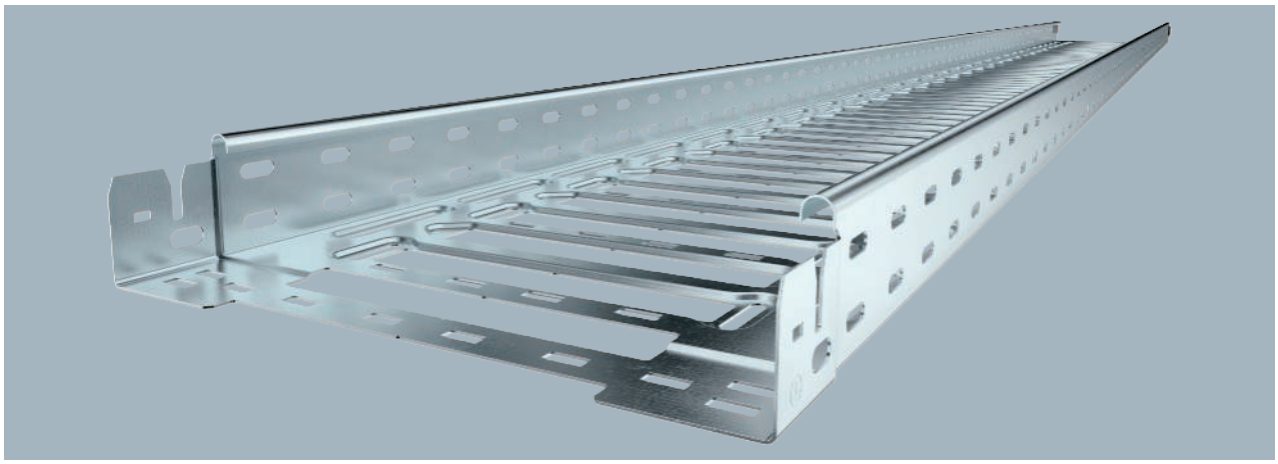
Always indicate the item number when ordering.



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## Cable tray MKS-Magic® 60

St FS

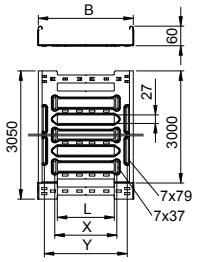


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **MKSM 610 FS** | 100 | 1.00 | | 3 | 166.032 | **6059000** |
| **MKSM 615 FS** | 150 | 1.00 | | 3 | 200.983 | **6059002** |
| **MKSM 620 FS** | 200 | 1.00 | | 3 | 219.344 | **6059004** |
| **MKSM 630 FS** | 300 | 1.00 | | 3 | 256.721 | **6059006** |
| **MKSM 640 FS** | 400 | 1.00 | | 3 | 298.262 | **6059008** |
| **MKSM 650 FS** | 500 | 1.00 | | 3 | 331.475 | **6059010** |
| **MKSM 660 FS** | 600 | 1.00 | | 3 | 368.852 | **6059012** |

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

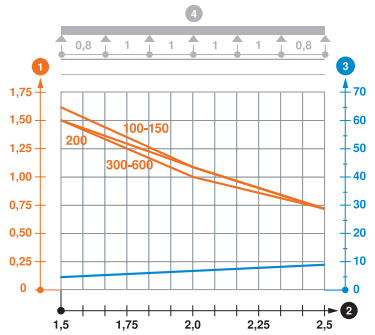
| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dim-en-sion y mm |
|---|---|---|---|---|---|---|
| MKSM 610 FS | 3050 | 100 | 58 | 30 | – | 62 |
| MKSM 615 FS | 3050 | 150 | 88 | 30 | 46 | 112 |
| MKSM 620 FS | 3050 | 200 | 118 | 80 | 96 | 162 |
| MKSM 630 FS | 3050 | 300 | 178 | 180 | 196 | 262 |
| MKSM 640 FS | 3050 | 400 | 238 | 280 | 296 | 362 |
| MKSM 650 FS | 3050 | 500 | 298 | 380 | 396 | 462 |
| MKSM 660 FS | 3050 | 600 | 358 | 480 | 496 | 562 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKSM 610 FS** | 1.6 | 1.1 | 0.7 |
| **MKSM 615 FS** | 1.6 | 1.1 | 0.7 |
| **MKSM 620 FS** | 1.5 | 1.1 | 0.7 |
| **MKSM 630 FS** | 1.5 | 1 | 0.7 |
| **MKSM 640 FS** | 1.5 | 1 | 0.7 |
| **MKSM 650 FS** | 1.5 | 1 | 0.7 |
| **MKSM 660 FS** | 1.5 | 1 | 0.7 |

### Load




**Load diagram, cable tray, type MKSM 60**

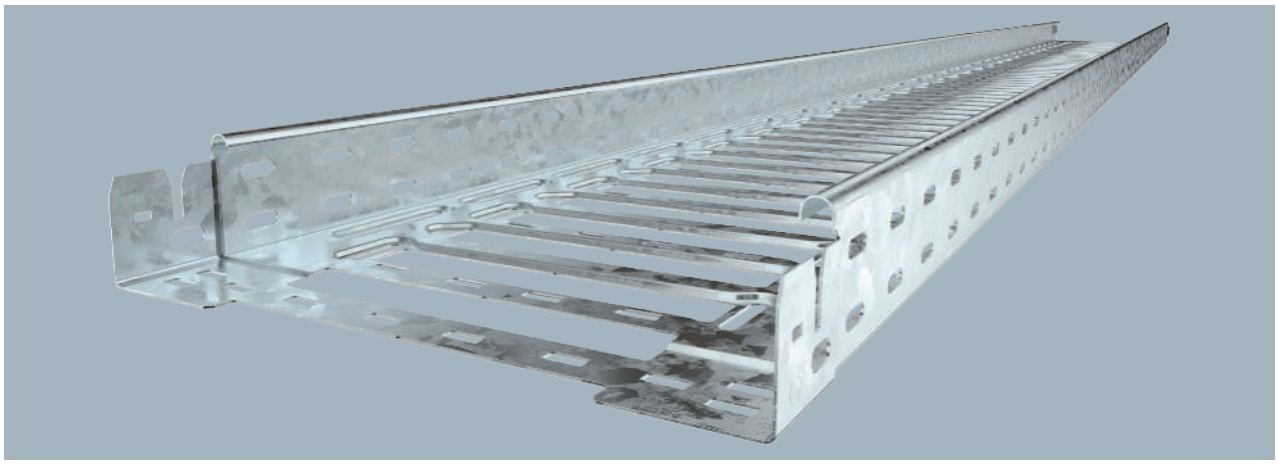
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

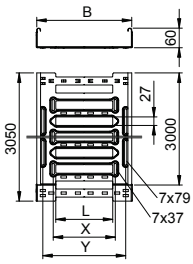
## Cable tray MKS-Magic® 60



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

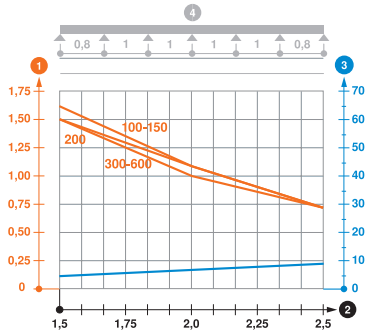
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKSM 610 FT** | 100 | 1.00 | 3 | 182.557 | **6059018** |
| **MKSM 615 FT** | 150 | 1.00 | 3 | 219.016 | **6059020** |
| **MKSM 620 FT** | 200 | 1.00 | 3 | 239.344 | **6059022** |
| **MKSM 630 FT** | 300 | 1.00 | 3 | 280.000 | **6059025** |
| **MKSM 640 FT** | 400 | 1.00 | 3 | 327.967 | **6059027** |
| **MKSM 650 FT** | 500 | 1.00 | 3 | 361.311 | **6059029** |
| **MKSM 660 FT** | 600 | 1.00 | 3 | 402.295 | **6059032** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dimension y mm |
|---|---|---|---|---|---|---|
| MKSM 610 FT | 3050 | 100 | 58 | 30 | – | 62 |
| MKSM 615 FT | 3050 | 150 | 88 | 30 | 46 | 112 |
| MKSM 620 FT | 3050 | 200 | 118 | 80 | 96 | 162 |
| MKSM 630 FT | 3050 | 300 | 178 | 180 | 196 | 262 |
| MKSM 640 FT | 3050 | 400 | 238 | 280 | 296 | 362 |
| MKSM 650 FT | 3050 | 500 | 298 | 380 | 396 | 462 |
| MKSM 660 FT | 3050 | 600 | 358 | 480 | 496 | 562 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKSM 610 FT** | 1.6 | 1.1 | 0.7 |
| **MKSM 615 FT** | 1.6 | 1.1 | 0.7 |
| **MKSM 620 FT** | 1.5 | 1.1 | 0.7 |
| **MKSM 630 FT** | 1.5 | 1 | 0.7 |
| **MKSM 640 FT** | 1.5 | 1 | 0.7 |
| **MKSM 650 FT** | 1.5 | 1 | 0.7 |
| **MKSM 660 FT** | 1.5 | 1 | 0.7 |

**Load diagram, cable tray, type MKSM 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

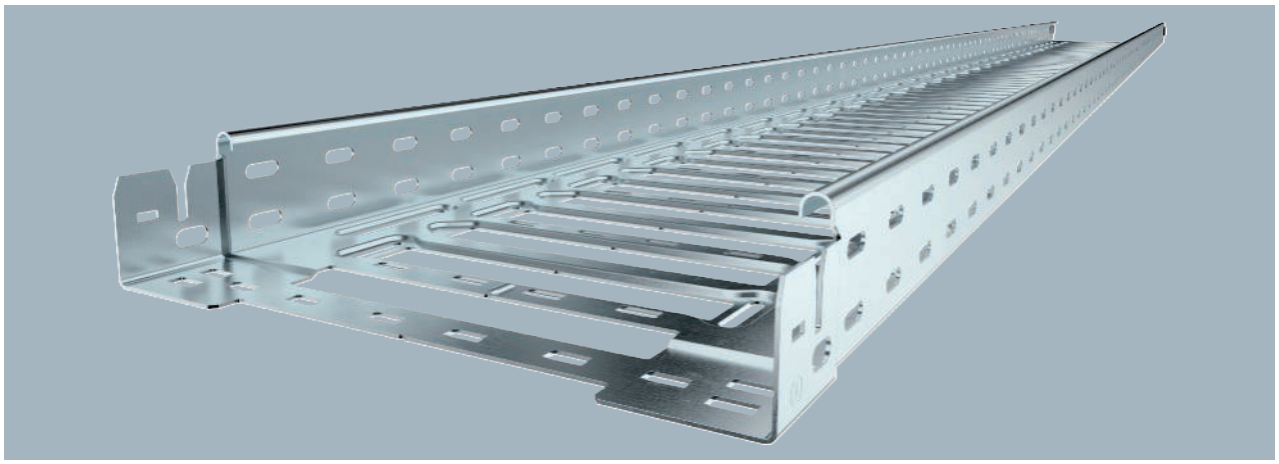
— Strut bend curve according to support width



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## Cable tray SKS-Magic® 60

St FS

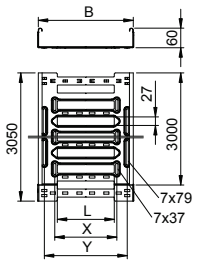


| Type | Width mm | Metal thick-ness mm | BS | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SKSM 610 FS** | 100 | 1.50 | | 3 | 249.573 | **6059456** |
| **SKSM 615 FS** | 150 | 1.50 | | 3 | 301.639 | **6059458** |
| **SKSM 620 FS** | 200 | 1.50 | | 3 | 329.180 | **6059460** |
| **SKSM 630 FS** | 300 | 1.50 | | 3 | 385.245 | **6059462** |
| **SKSM 640 FS** | 400 | 1.50 | | 3 | 441.311 | **6059464** |
| **SKSM 650 FS** | 500 | 1.50 | | 3 | 504.852 | **6059466** |
| **SKSM 660 FS** | 600 | 1.50 | | 3 | 553.442 | **6059468** |

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

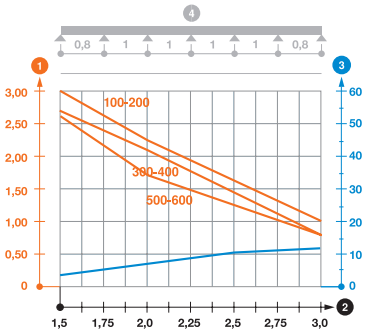
### Dimensions

| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dim-en-sion y mm |
|---|---|---|---|---|---|---|
| SKSM 610 FS | 3050 | 100 | 58 | 30 | – | 62 |
| SKSM 615 FS | 3050 | 150 | 88 | 30 | 46 | 112 |
| SKSM 620 FS | 3050 | 200 | 118 | 80 | 96 | 162 |
| SKSM 630 FS | 3050 | 300 | 178 | 180 | 196 | 262 |
| SKSM 640 FS | 3050 | 400 | 238 | 280 | 296 | 362 |
| SKSM 650 FS | 3050 | 500 | 298 | 380 | 396 | 462 |
| SKSM 660 FS | 3050 | 600 | 358 | 480 | 496 | 562 |




### Load

| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|
| **SKSM 610 FS** | 3 | 2.25 | 1 |
| **SKSM 615 FS** | 3 | 2.25 | 1 |
| **SKSM 620 FS** | 3 | 2.25 | 1 |
| **SKSM 630 FS** | 2.7 | 2.1 | 0.8 |
| **SKSM 640 FS** | 2.7 | 2.1 | 0.8 |
| **SKSM 650 FS** | 2.6 | 1.8 | 0.8 |
| **SKSM 660 FS** | 2.6 | 1.8 | 0.8 |




**Load diagram, cable tray, type SKSM 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

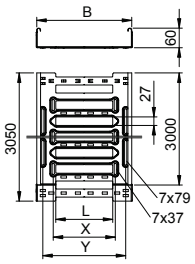
## Cable tray SKS-Magic® 60



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

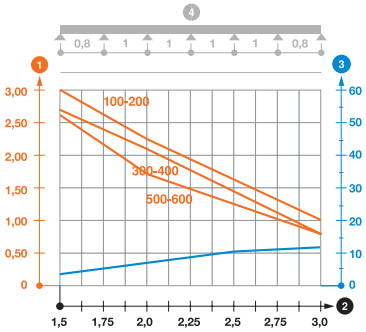
| Type | Width mm | Metal thickness mm | BS | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SKSM 610 FT** | 100 | 1.50 | | 3 | 266.098 | **6059473** |
| **SKSM 615 FT** | 150 | 1.50 | | 3 | 328.852 | **6059475** |
| **SKSM 620 FT** | 200 | 1.50 | | 3 | 359.016 | **6059477** |
| **SKSM 630 FT** | 300 | 1.50 | | 3 | 420.000 | **6059479** |
| **SKSM 640 FT** | 400 | 1.50 | | 3 | 481.311 | **6059481** |
| **SKSM 650 FT** | 500 | 1.50 | | 3 | 538.295 | **6059483** |
| **SKSM 660 FT** | 600 | 1.50 | | 3 | 603.606 | **6059485** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dimension y mm |
|---|---|---|---|---|---|---|
| SKSM 610 FT | 3050 | 100 | 58 | 30 | – | 62 |
| SKSM 615 FT | 3050 | 150 | 88 | 30 | 46 | 112 |
| SKSM 620 FT | 3050 | 200 | 118 | 80 | 96 | 162 |
| SKSM 630 FT | 3050 | 300 | 178 | 180 | 196 | 262 |
| SKSM 640 FT | 3050 | 400 | 238 | 280 | 296 | 362 |
| SKSM 650 FT | 3050 | 500 | 298 | 380 | 396 | 462 |
| SKSM 660 FT | 3050 | 600 | 358 | 480 | 496 | 562 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|
| **SKSM 610 FT** | 3 | 2.25 | 1 |
| **SKSM 615 FT** | 3 | 2.25 | 1 |
| **SKSM 620 FT** | 3 | 2.25 | 1 |
| **SKSM 630 FT** | 2.7 | 2.1 | 0.8 |
| **SKSM 640 FT** | 2.7 | 2.1 | 0.8 |
| **SKSM 650 FT** | 2.6 | 1.8 | 0.8 |
| **SKSM 660 FT** | 2.6 | 1.8 | 0.8 |

**Load diagram, cable tray, type SKSM 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

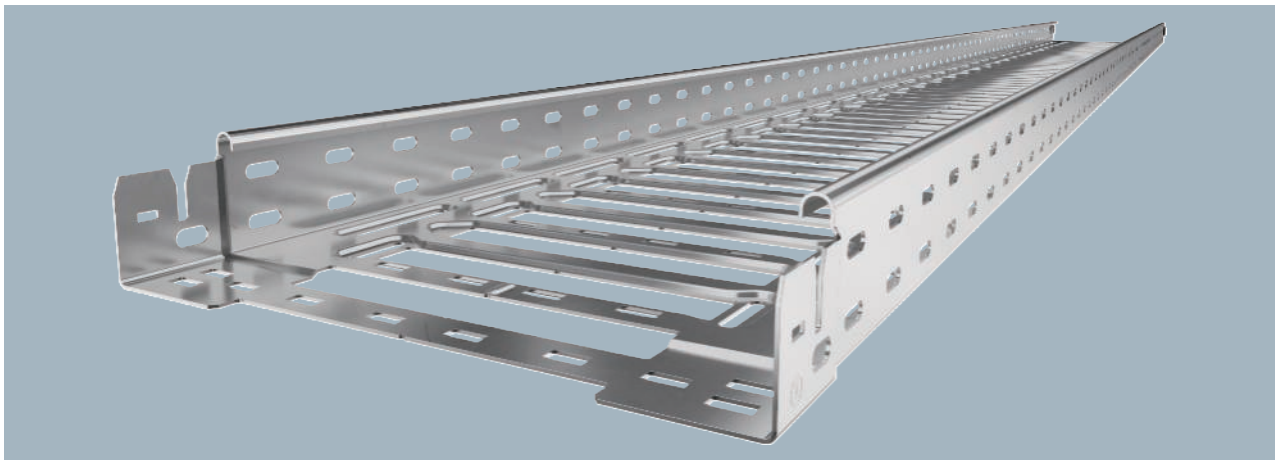
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width



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## Cable tray SKS-Magic® 60

A2 2B

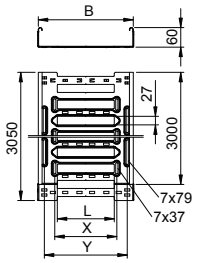


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SKSM 610 A2** | 100 | 1.50 | | 3 | 253.733 | **6059490** |
| **SKSM 620 A2** | 200 | 1.50 | | 3 | 337.000 | **6059494** |
| **SKSM 630 A2** | 300 | 1.50 | | 3 | 397.000 | **6059496** |
| **SKSM 640 A2** | 400 | 1.50 | | 3 | 451.333 | **6059498** |
| **SKSM 650 A2** | 500 | 1.50 | | 3 | 513.267 | **6059500** |
| **SKSM 660 A2** | 600 | 1.50 | | 3 | 566.000 | **6059502** |

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

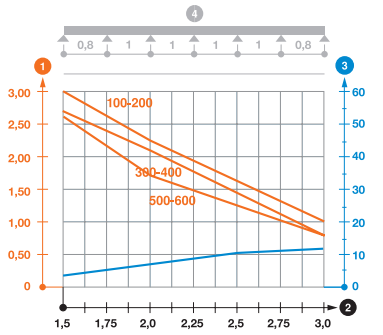
| Type | Length mm | Dim. B mm | Usable cross-section $cm^2$ | Dim. L mm | Dim. x mm | Dim-en-sion y mm |
|---|---|---|---|---|---|---|
| SKSM 610 A2 | 3050 | 100 | 58 | 30 | – | 62 |
| SKSM 620 A2 | 3050 | 200 | 118 | 80 | 96 | 162 |
| SKSM 630 A2 | 3050 | 300 | 178 | 180 | 196 | 262 |
| SKSM 640 A2 | 3050 | 400 | 238 | 280 | 296 | 362 |
| SKSM 650 A2 | 3050 | 500 | 298 | 380 | 396 | 462 |
| SKSM 660 A2 | 3050 | 600 | 358 | 480 | 496 | 562 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|
| **SKSM 610 A2** | 3 | 2.25 | 1 |
| **SKSM 620 A2** | 3 | 2.25 | 1 |
| **SKSM 630 A2** | 2.7 | 2.1 | 0.8 |
| **SKSM 640 A2** | 2.7 | 2.1 | 0.8 |
| **SKSM 650 A2** | 1.9 | 1.55 | 0.8 |
| **SKSM 660 A2** | 1.9 | 1.55 | 0.8 |

### Load




### Load diagram, cable tray, type SKSM 60

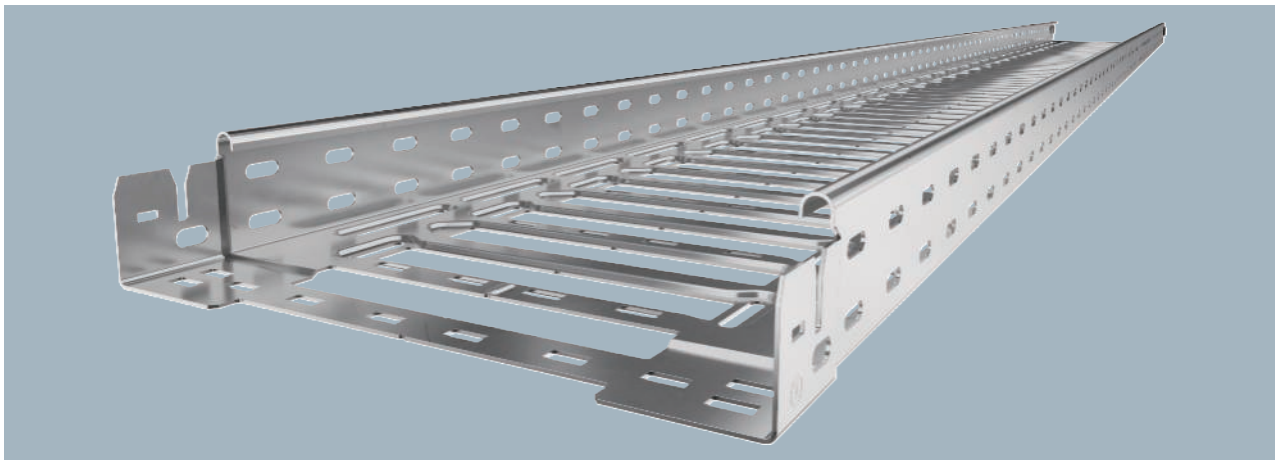
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A4 2B

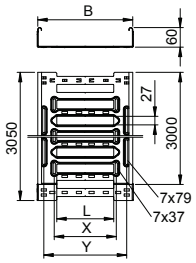
## Cable tray SKS-Magic® 60



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

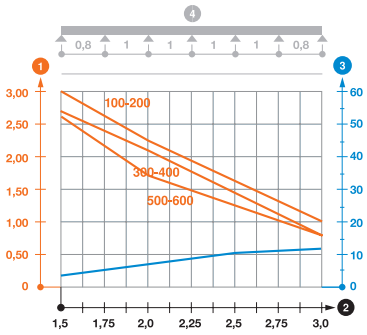
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKSM 610 A4** | 100 | 1.50 | 3 | 253.733 | **6059507** |
| **SKSM 620 A4** | 200 | 1.50 | 3 | 337.000 | **6059511** |
| **SKSM 630 A4** | 300 | 1.50 | 3 | 397.000 | **6059513** |
| **SKSM 640 A4** | 400 | 1.50 | 3 | 451.333 | **6059515** |
| **SKSM 650 A4** | 500 | 1.50 | 3 | 513.267 | **6059517** |
| **SKSM 660 A4** | 600 | 1.50 | 3 | 566.000 | **6059519** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dimension y mm |
|---|---|---|---|---|---|---|
| SKSM 610 A4 | 3050 | 100 | 58 | 30 | – | 62 |
| SKSM 620 A4 | 3050 | 200 | 118 | 80 | 96 | 162 |
| SKSM 630 A4 | 3050 | 300 | 178 | 180 | 196 | 262 |
| SKSM 640 A4 | 3050 | 400 | 238 | 280 | 296 | 362 |
| SKSM 650 A4 | 3050 | 500 | 298 | 380 | 396 | 462 |
| SKSM 660 A4 | 3050 | 600 | 358 | 480 | 396 | 562 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|
| **SKSM 610 A4** | 3 | 2.25 | 1 |
| **SKSM 620 A4** | 3 | 2.25 | 1 |
| **SKSM 630 A4** | 2.7 | 2.1 | 0.8 |
| **SKSM 640 A4** | 2.7 | 2.1 | 0.8 |
| **SKSM 650 A4** | 1.9 | 1.55 | 0.8 |
| **SKSM 660 A4** | 1.9 | 1.55 | 0.8 |

**Load diagram, cable tray, type SKSM 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.





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## Cable tray MKS-Magic® 60, unperforated

St FS

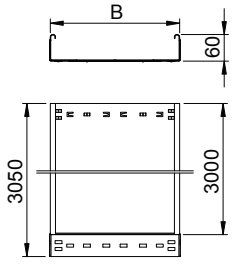


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **MKSMU 610 FS** | 100 | 1.00 | | 3 | 191.672 | **6059230** |
| **MKSMU 615 FS** | 150 | 1.00 | | 3 | 230.852 | **6059232** |
| **MKSMU 620 FS** | 200 | 1.00 | | 3 | 269.836 | **6059234** |
| **MKSMU 630 FS** | 300 | 1.00 | | 3 | 348.459 | **6059237** |
| **MKSMU 640 FS** | 400 | 1.00 | | 3 | 426.918 | **6059239** |
| **MKSMU 650 FS** | 500 | 1.00 | | 3 | 505.311 | **6059241** |
| **MKSMU 660 FS** | 600 | 1.00 | | 3 | 583.737 | **6059243** |

Unperforated cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.

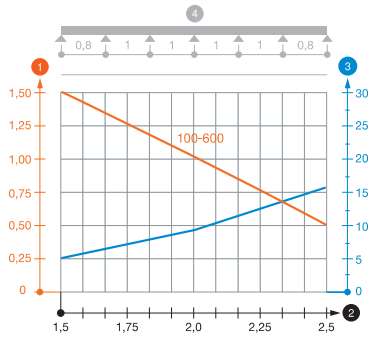
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKSMU 610 FS | 3050 | 100 | 58 |
| MKSMU 615 FS | 3050 | 150 | 88 |
| MKSMU 620 FS | 3050 | 200 | 118 |
| MKSMU 630 FS | 3050 | 300 | 178 |
| MKSMU 640 FS | 3050 | 400 | 238 |
| MKSMU 650 FS | 3050 | 500 | 298 |
| MKSMU 660 FS | 3050 | 600 | 358 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKSMU 610 FS** | 1.5 | 1 | 0.5 |
| **MKSMU 615 FS** | 1.5 | 1 | 0.5 |
| **MKSMU 620 FS** | 1.5 | 1 | 0.5 |
| **MKSMU 630 FS** | 1.5 | 1 | 0.5 |
| **MKSMU 640 FS** | 1.5 | 1 | 0.5 |
| **MKSMU 650 FS** | 1.5 | 1 | 0.5 |
| **MKSMU 660 FS** | 1.5 | 1 | 0.5 |

**Load**




**Load diagram, cable tray, type MKSMU 60**

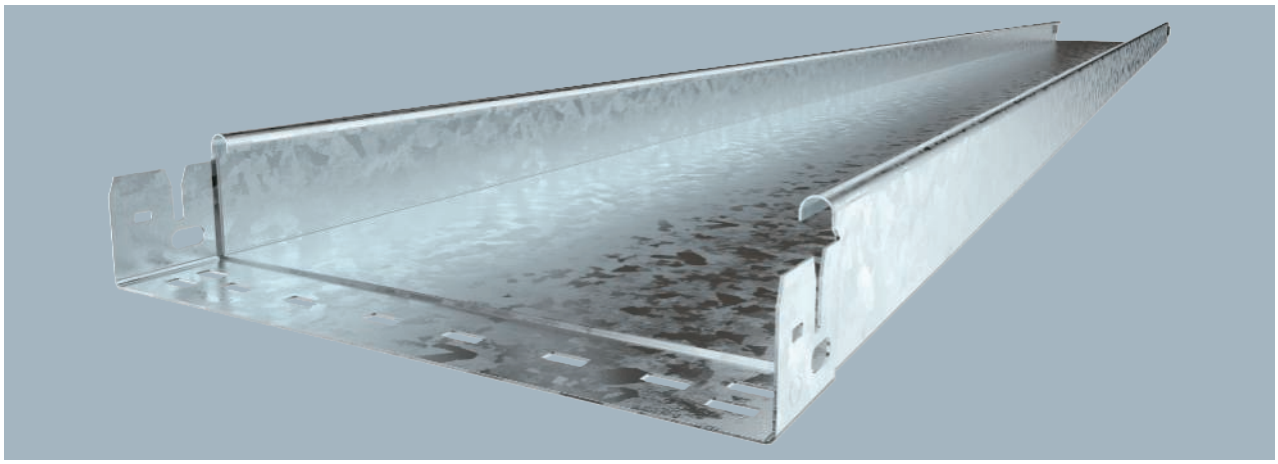
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

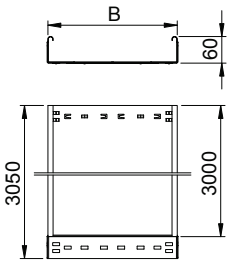
## Cable tray MKS-Magic® 60, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

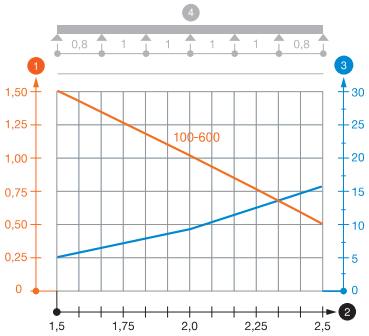
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKSMU 610 FT** | 100 | 1.00 | 3 | 210.688 | **6059248** |
| **MKSMU 615 FT** | 150 | 1.00 | 3 | 253.770 | **6059250** |
| **MKSMU 620 FT** | 200 | 1.00 | 3 | 296.819 | **6059252** |
| **MKSMU 630 FT** | 300 | 1.00 | 3 | 383.081 | **6059254** |
| **MKSMU 640 FT** | 400 | 1.00 | 3 | 469.311 | **6059256** |
| **MKSMU 650 FT** | 500 | 1.00 | 3 | 555.508 | **6059258** |
| **MKSMU 660 FT** | 600 | 1.00 | 3 | 641.770 | **6059260** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKSMU 610 FT | 3050 | 100 | 58 |
| MKSMU 615 FT | 3050 | 150 | 88 |
| MKSMU 620 FT | 3050 | 200 | 118 |
| MKSMU 630 FT | 3050 | 300 | 178 |
| MKSMU 640 FT | 3050 | 400 | 238 |
| MKSMU 650 FT | 3050 | 500 | 298 |
| MKSMU 660 FT | 3050 | 600 | 358 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKSMU 610 FT** | 1.5 | 1 | 0.5 |
| **MKSMU 615 FT** | 1.5 | 1 | 0.5 |
| **MKSMU 620 FT** | 1.5 | 1 | 0.5 |
| **MKSMU 630 FT** | 1.5 | 1 | 0.5 |
| **MKSMU 640 FT** | 1.5 | 1 | 0.5 |
| **MKSMU 650 FT** | 1.5 | 1 | 0.5 |
| **MKSMU 660 FT** | 1.5 | 1 | 0.5 |

**Load diagram, cable tray, type MKSMU 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.





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# Cable trays, side height 60

## Cable tray SKS-Magic® 60, unperforated

St FS

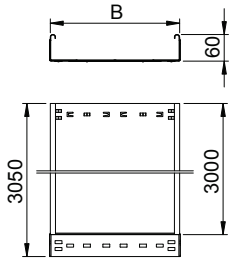


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SKSMU 610 FS** | 100 | 1.50 | | 3 | 287.245 | **6059688** |
| **SKSMU 615 FS** | 150 | 1.50 | | 3 | 346.032 | **6059690** |
| **SKSMU 620 FS** | 200 | 1.50 | | 3 | 404.786 | **6059692** |
| **SKSMU 630 FS** | 300 | 1.50 | | 3 | 522.426 | **6059694** |
| **SKSMU 640 FS** | 400 | 1.50 | | 3 | 640.065 | **6059696** |
| **SKSMU 650 FS** | 500 | 1.50 | | 3 | 757.704 | **6059698** |
| **SKSMU 660 FS** | 600 | 1.50 | | 3 | 875.377 | **6059700** |

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

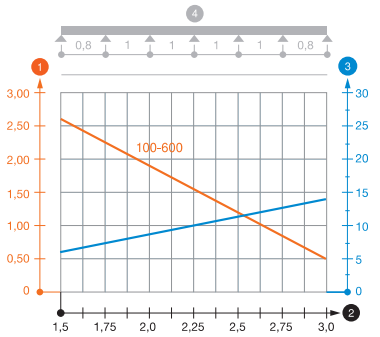
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKSMU 610 FS | 3050 | 100 | 58 |
| SKSMU 615 FS | 3050 | 150 | 88 |
| SKSMU 620 FS | 3050 | 200 | 118 |
| SKSMU 630 FS | 3050 | 300 | 178 |
| SKSMU 640 FS | 3050 | 400 | 238 |
| SKSMU 650 FS | 3050 | 500 | 298 |
| SKSMU 660 FS | 3050 | 600 | 358 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SKSMU 610 FS** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 615 FS** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 620 FS** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 630 FS** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 640 FS** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 650 FS** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 660 FS** | 2.6 | 1.9 | 1.1 | 0.55 |

**Load**




**Load diagram, cable tray, type SKSMU 60**

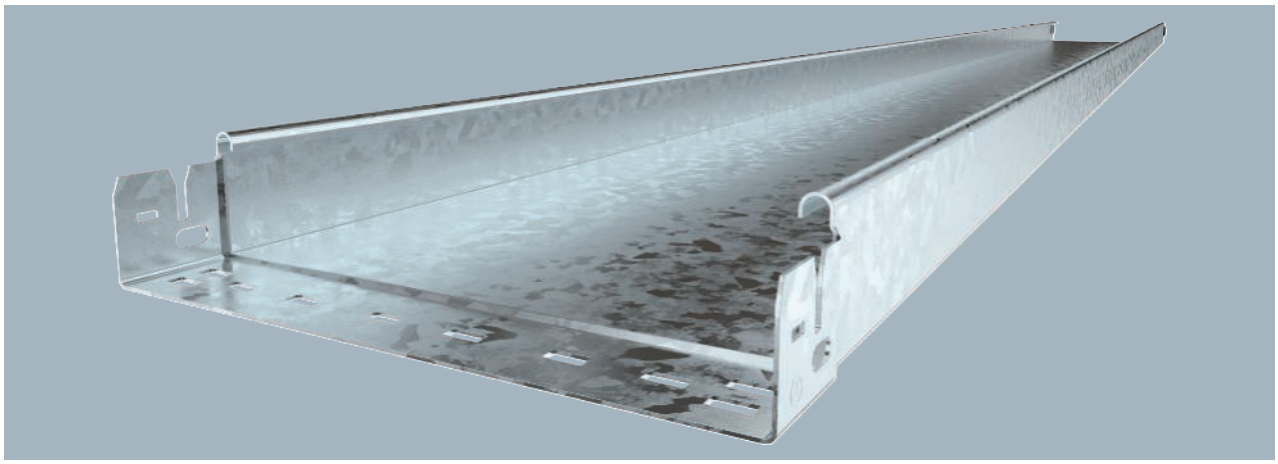
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

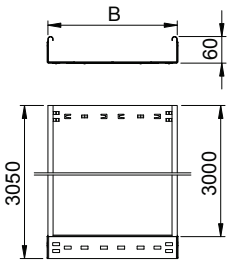
## Cable tray SKS-Magic® 60, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

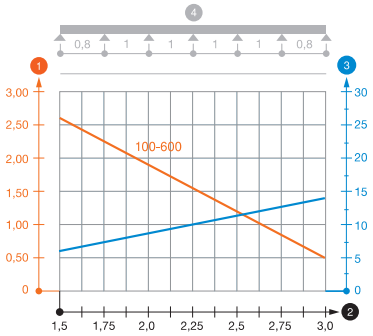
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKSMU 610 FT** | 100 | 1.50 | 3 | 306.262 | **6059705** |
| **SKSMU 615 FT** | 150 | 1.50 | 3 | 368.950 | **6059707** |
| **SKSMU 620 FT** | 200 | 1.50 | 3 | 431.573 | **6059709** |
| **SKSMU 630 FT** | 300 | 1.50 | 3 | 557.049 | **6059711** |
| **SKSMU 640 FT** | 400 | 1.50 | 3 | 682.491 | **6059713** |
| **SKSMU 650 FT** | 500 | 1.50 | 3 | 807.934 | **6059715** |
| **SKSMU 660 FT** | 600 | 1.50 | 3 | 933.377 | **6059717** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKSMU 610 FT | 3050 | 100 | 58 |
| SKSMU 615 FT | 3050 | 150 | 88 |
| SKSMU 620 FT | 3050 | 200 | 118 |
| SKSMU 630 FT | 3050 | 300 | 178 |
| SKSMU 640 FT | 3050 | 400 | 238 |
| SKSMU 650 FT | 3050 | 500 | 298 |
| SKSMU 660 FT | 3050 | 600 | 358 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SKSMU 610 FT** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 615 FT** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 620 FT** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 630 FT** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 640 FT** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 650 FT** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 660 FT** | 2.6 | 1.9 | 1.1 | 0.55 |

**Load diagram, cable tray, type SKSMU 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.





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## Cable tray SKS-Magic® 60, unperforated

A2 2B

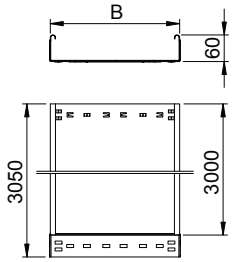


| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKSMU 610 A2** | 100 | 1.50 | 3 | 292.033 | **6059722** |
| **SKSMU 620 A2** | 200 | 1.50 | 3 | 411.533 | **6059726** |
| **SKSMU 630 A2** | 300 | 1.50 | 3 | 531.133 | **6059728** |
| **SKSMU 640 A2** | 400 | 1.50 | 3 | 650.733 | **6059730** |
| **SKSMU 650 A2** | 500 | 1.50 | 3 | 770.333 | **6059732** |
| **SKSMU 660 A2** | 600 | 1.50 | 3 | 889.967 | **6059734** |

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

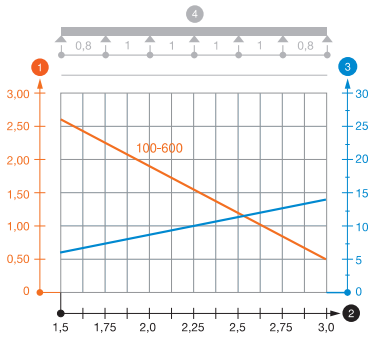
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKSMU 610 A2 | 3050 | 100 | 58 |
| SKSMU 620 A2 | 3050 | 200 | 118 |
| SKSMU 630 A2 | 3050 | 300 | 178 |
| SKSMU 640 A2 | 3050 | 400 | 238 |
| SKSMU 650 A2 | 3050 | 500 | 298 |
| SKSMU 660 A2 | 3050 | 600 | 358 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SKSMU 610 A2** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 620 A2** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 630 A2** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 640 A2** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 650 A2** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSMU 660 A2** | 2.6 | 1.9 | 1.1 | 0.55 |

**Load**




**Load diagram, cable tray, type SKSMU 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

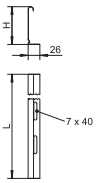
— Strut bend curve according to support width

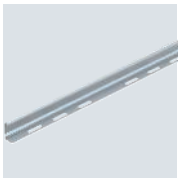
St FS DD

## Separating retainer 45

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 45 FS | 45 | 0.75 | 3000 | 3 | 46.700 | 6062033 |
| TSG 45 DD | 45 | 0.75 | 3000 | 3 | 46.812 | 6062321 |

Separating retainer for separation of cables of different voltages or functions.



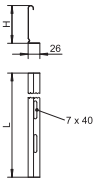



A2 A4 2B

## Separating retainer 45

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 45 A2 | 45 | 0.75 | 3000 | 3 | 49.850 | 6062025 |
| TSG 45 A4 | 45 | 0.75 | 3000 | 3 | 49.850 | 6062028 |

Separating retainer for separation of cables of different voltages or functions.



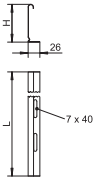



St FS DD

## Separating retainer 60

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 60 FS | 60 | 0.75 | 3000 | 3 | 55.700 | 6062068 |
| TSG 60 DD | 60 | 0.75 | 3000 | 3 | 55.700 | 6062327 |

Separating retainer for separation of cables of different voltages or functions.



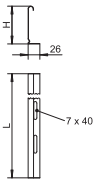



A2 A4 2B

## Separating retainer 60

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 60 A2 | 60 | 0.75 | 3000 | 3 | 59.265 | 6062084 |
| TSG 60 A4 | 60 | 0.75 | 3000 | 3 | 59.256 | 6062086 |

Separating retainer for the separation of cables of different voltages or functions.



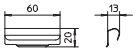


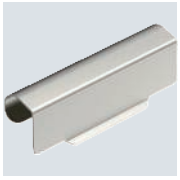

VA 2B

## Separating retainer connector

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| TSGV A2 | 10 | 0.899 | 6067970 |

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



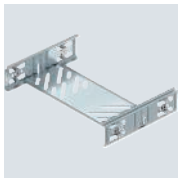


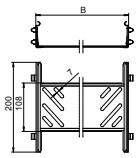
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# Cable trays, side height 60

## Magic straight connector set 60

St FS DD





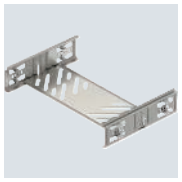

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| KTSMV 610 FS | 60 | 100 | 1 | 30.500 | 6068914 |
| KTSMV 615 FS | 60 | 150 | 1 | 34.900 | 6068916 |
| KTSMV 620 FS | 60 | 200 | 1 | 37.200 | 6068918 |
| KTSMV 630 FS | 60 | 300 | 1 | 44.000 | 6068920 |
| KTSMV 640 FS | 60 | 400 | 1 | 50.700 | 6068922 |
| KTSMV 650 FS | 60 | 500 | 1 | 57.400 | 6068924 |
| KTSMV 660 FS | 60 | 600 | 1 | 64.200 | 6068926 |
| KTSMV 610 DD | 60 | 100 | 1 | 30.500 | 6068936 |
| KTSMV 615 DD | 60 | 150 | 1 | 34.900 | 6068938 |
| KTSMV 620 DD | 60 | 200 | 1 | 37.200 | 6068940 |
| KTSMV 630 DD | 60 | 300 | 1 | 44.000 | 6068942 |
| KTSMV 640 DD | 60 | 400 | 1 | 50.700 | 6068944 |
| KTSMV 650 DD | 60 | 500 | 1 | 57.400 | 6068946 |
| KTSMV 660 DD | 60 | 600 | 1 | 64.200 | 6068948 |

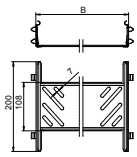
Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 60 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

## Magic straight connector set 60

A2 A4 2B





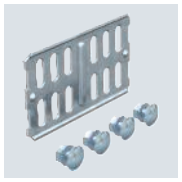

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| KTSMV 610 A2 | 60 | 100 | 1 | 30.500 | 6068958 |
| KTSMV 620 A2 | 60 | 200 | 1 | 37.200 | 6068962 |
| KTSMV 630 A2 | 60 | 300 | 1 | 44.000 | 6068964 |
| KTSMV 640 A2 | 60 | 400 | 1 | 50.700 | 6068966 |
| KTSMV 650 A2 | 60 | 500 | 1 | 57.400 | 6068968 |
| KTSMV 660 A2 | 60 | 600 | 1 | 64.200 | 6068970 |
| KTSMV 610 A4 | 60 | 100 | 1 | 30.500 | 6068980 |
| KTSMV 620 A4 | 60 | 200 | 1 | 37.200 | 6068984 |
| KTSMV 630 A4 | 60 | 300 | 1 | 44.000 | 6068986 |
| KTSMV 640 A4 | 60 | 400 | 1 | 50.700 | 6068988 |
| KTSMV 650 A4 | 60 | 500 | 1 | 57.400 | 6068990 |
| KTSMV 660 A4 | 60 | 600 | 1 | 64.200 | 6068992 |

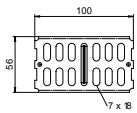
Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 60 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

## Straight connector 60

St FS FT





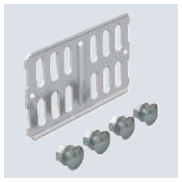

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| RLVK 60 FS | 60 | 10 | 9.976 | 6067093 |
| RLVK 60 FT | 60 | 10 | 10.300 | 6067603 |

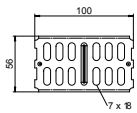
Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.

Including appropriate fastening material.

## Straight connector 60

A2 A4 2B






| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| RLVK 60 A2 | 60 | 10 | 9.780 | 6067654 |
| RLVK 60 A4 | 60 | 10 | 9.780 | 6067675 |

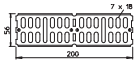
Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.

Including appropriate fastening material.

St FS FT

## Straight and angle connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RWVL 60 FS** | 60 | 10 | 16.400 | **6067115** |
| **RWVL 60 FT** | 60 | 10 | 17.400 | **6067611** |



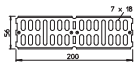


Straight and angle connector for cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

A2 A4 2B

## Straight and angle connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RWVL 60 A2** | 60 | 10 | 16.200 | **6067662** |
| **RWVL 60 A4** | 60 | 10 | 16.200 | **6067664** |



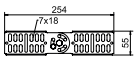


Straight and angle connector for cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

St FS FT

## Adjustable connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RGV 60 FS** | 60 | 10 | 25.100 | **7082010** |
| **RGV 60 FT** | 60 | 10 | 23.890 | **7082223** |



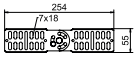


Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

A2 A4 2B

## Adjustable connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RGV 60 A2** | 60 | 10 | 25.100 | **7082258** |
| **RGV 60 A4** | 60 | 10 | 25.100 | **7082265** |



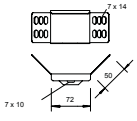


Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

St FS FT

## Angle connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WKV 60 FS** | 60 | 5 | 14.700 | **6043062** |
| **WKV 60 FT** | 60 | 5 | 15.800 | **6042910** |





Angle connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.



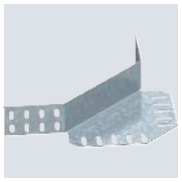
Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

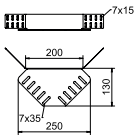
Always indicate the item number when ordering.

# Cable trays, side height 60

## Corner connector 60

St FS DD





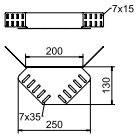

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **REV 60 FS** | 60 | 10 | 32.000 | **6067972** |
| **REV 60 DD** | 60 | 1 | 32.000 | **6069410** |

Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

## Corner connector 60

A2 A4 2B



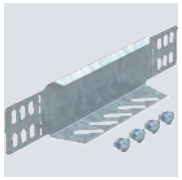


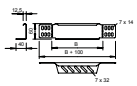

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **REV 60 A2** | 60 | 5 | 32.000 | **6068022** |
| **REV 60 A4** | 60 | 5 | 32.000 | **6068054** |

Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

## Reducer/stop-end 60

St FS DD



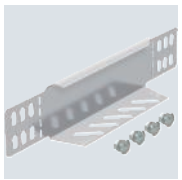


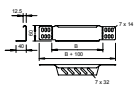
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RWEB 610 FS** | 60 | 100 | 1 | 12.300 | **7109105** |
| **RWEB 615 FS** | 60 | 150 | 1 | 17.600 | **7109156** |
| **RWEB 620 FS** | 60 | 200 | 1 | 22.800 | **7109202** |
| **RWEB 630 FS** | 60 | 300 | 1 | 30.700 | **7109296** |
| **RWEB 640 FS** | 60 | 400 | 1 | 39.600 | **7109407** |
| **RWEB 650 FS** | 60 | 500 | 1 | 47.500 | **7109504** |
| **RWEB 660 FS** | 60 | 600 | 1 | 55.500 | **7109601** |
| **RWEB 610 DD** | 60 | 100 | 1 | 12.300 | **7106106** |
| **RWEB 615 DD** | 60 | 150 | 1 | 17.900 | **7106110** |
| **RWEB 620 DD** | 60 | 200 | 1 | 22.600 | **7106114** |
| **RWEB 630 DD** | 60 | 300 | 1 | 30.700 | **7106118** |
| **RWEB 640 DD** | 60 | 400 | 1 | 39.600 | **7106122** |
| **RWEB 650 DD** | 60 | 500 | 1 | 47.500 | **7106126** |
| **RWEB 660 DD** | 60 | 600 | 1 | 55.500 | **7106130** |

Reducer/stop-end plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

## Reducer/stop-end 60

A2 2B





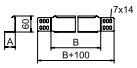
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RWEB 610 A2** | 60 | 100 | 1 | 12.500 | **7109814** |
| **RWEB 615 A2** | 60 | 150 | 1 | 18.000 | **7109816** |
| **RWEB 620 A2** | 60 | 200 | 1 | 22.900 | **7109830** |
| **RWEB 630 A2** | 60 | 300 | 1 | 31.200 | **7109857** |
| **RWEB 640 A2** | 60 | 400 | 1 | 37.300 | **7109873** |
| **RWEB 650 A2** | 60 | 500 | 1 | 48.100 | **7109903** |
| **RWEB 660 A2** | 60 | 600 | 1 | 56.100 | **7109938** |

Reducer/stop-end plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

A4 2B

## Reducer/stop-end 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RWEB 610 A4** | 60 | 95 | 1 | 13.200 | **7109951** |
| **RWEB 620 A4** | 60 | 195 | 1 | 24.000 | **7109953** |
| **RWEB 630 A4** | 60 | 295 | 1 | 32.100 | **7109955** |
| **RWEB 640 A4** | 60 | 395 | 1 | 41.300 | **7109957** |
| **RWEB 650 A4** | 60 | 495 | 1 | 49.400 | **7109959** |
| **RWEB 660 A4** | 60 | 595 | 1 | 57.400 | **7109961** |





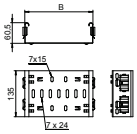

Reducer and end closure plate for cable trays with side height 60 mm.

From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

St DD

## Magic 60 fitting connector

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **FVM 610 DD** | 60 | 100 | 1 | 31.900 | **6065710** |
| **FVM 615 DD** | 60 | 150 | 1 | 37.900 | **6065712** |
| **FVM 620 DD** | 60 | 200 | 1 | 44.000 | **6065714** |
| **FVM 630 DD** | 60 | 300 | 1 | 57.000 | **6065716** |
| **FVM 640 DD** | 60 | 400 | 1 | 69.400 | **6065718** |
| **FVM 650 DD** | 60 | 500 | 1 | 82.000 | **6065720** |
| **FVM 660 DD** | 60 | 600 | 1 | 94.600 | **6065722** |





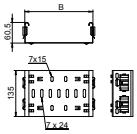

The fitting connector is compatible with cable tray types MKSM, MKSMU, SKSM and SKSMU.

Magic straight connector for direct and screwless joining of Magic fittings with a side height of 60 mm.
The straight connector is equipped with four brackets and can also be used for the direct connection with a cut cable tray with only two brackets mounted to one side. To join a cut cable tray with a fitting, an additional Magic straight connector set is needed.

A2 2B

## Magic 60 fitting connector

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **FVM 640 A2** | 60 | 400 | 1 | 69.400 | **6065738** |





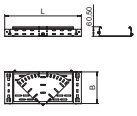

The fitting connector is compatible with cable tray types RKSM, MKSM, MKSMU, SKSM and SKSMU.

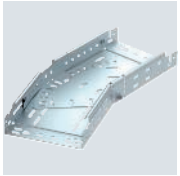
Magic straight connector for direct and screwless joining of Magic fittings with a side height of 60 mm.
The straight connector is equipped with four brackets and can also be used for the direct connection with a cut cable tray with only two brackets mounted to one side. To join a cut cable tray with a fitting, an additional Magic straight connector set is needed.

St FS FT

## Magic 60 bend, variable

| Type | Side height mm | Dim. B mm | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **RBMV 610 FS** | 60 | 100 | 340 | 1 | 76.400 | **6040480** |
| **RBMV 615 FS** | 60 | 150 | 420 | 1 | 117.100 | **6040482** |
| **RBMV 620 FS** | 60 | 200 | 490 | 1 | 163.600 | **6040484** |
| **RBMV 630 FS** | 60 | 300 | 640 | 1 | 291.700 | **6040486** |
| **RBMV 640 FS** | 60 | 400 | 820 | 1 | 578.000 | **6040488** |
| **RBMV 650 FS** | 60 | 500 | 960 | 1 | 986.000 | **6040490** |
| **RBMV 660 FS** | 60 | 600 | 1120 | 1 | 1,347.200 | **6040492** |
| **RBMV 610 FT** | 60 | 100 | 340 | 1 | 83.700 | **6040500** |
| **RBMV 615 FT** | 60 | 150 | 420 | 1 | 128.900 | **6040502** |
| **RBMV 620 FT** | 60 | 200 | 490 | 1 | 179.500 | **6040504** |
| **RBMV 630 FT** | 60 | 300 | 640 | 1 | 386.300 | **6040506** |
| **RBMV 640 FT** | 60 | 400 | 820 | 1 | 614.000 | **6040508** |
| **RBMV 650 FT** | 60 | 500 | 960 | 1 | 1,083.700 | **6040510** |
| **RBMV 660 FT** | 60 | 600 | 1120 | 1 | 1,480.900 | **6040512** |



Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 60 mm side height.



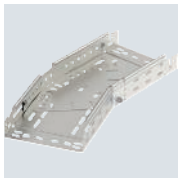


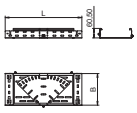
Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Cable trays, side height 60

## Magic 60 bend, variable

A2 A4 2B



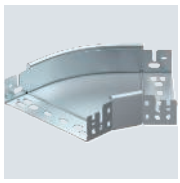


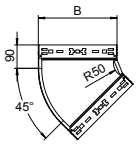
| Type | Side height mm | Dim. B mm | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **RBMV 610 A2** | 60 | 100 | 340 | 1 | 76.400 | **6040520** |
| **RBMV 620 A2** | 60 | 200 | 490 | 1 | 163.600 | **6040524** |
| **RBMV 630 A2** | 60 | 300 | 640 | 1 | 386.300 | **6040526** |
| **RBMV 640 A2** | 60 | 400 | 820 | 1 | 578.000 | **6040528** |
| **RBMV 650 A2** | 60 | 500 | 960 | 1 | 986.000 | **6040530** |
| **RBMV 660 A2** | 60 | 600 | 1120 | 1 | 1,347.200 | **6040532** |
| **RBMV 610 A4** | 60 | 100 | 340 | 1 | 76.100 | **6040540** |
| **RBMV 620 A4** | 60 | 200 | 490 | 1 | 163.200 | **6040544** |
| **RBMV 630 A4** | 60 | 300 | 640 | 1 | 360.200 | **6040546** |
| **RBMV 640 A4** | 60 | 400 | 820 | 1 | 577.600 | **6040548** |
| **RBMV 650 A4** | 60 | 500 | 960 | 1 | 986.500 | **6040550** |
| **RBMV 660 A4** | 60 | 600 | 1120 | 1 | 1,346.800 | **6040552** |

Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 60 mm side height.

## 45° Magic bend 60

St FS FT



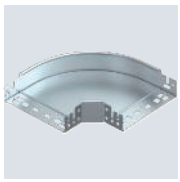


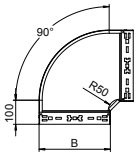

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBM 45 610 FS** | 60 | 100 | 1 | 50.400 | **6041040** |
| **RBM 45 615 FS** | 60 | 150 | 1 | 67.300 | **6041042** |
| **RBM 45 620 FS** | 60 | 200 | 1 | 85.500 | **6041044** |
| **RBM 45 630 FS** | 60 | 300 | 1 | 127.700 | **6041046** |
| **RBM 45 640 FS** | 60 | 400 | 1 | 174.800 | **6041048** |
| **RBM 45 650 FS** | 60 | 500 | 1 | 232.700 | **6041050** |
| **RBM 45 660 FS** | 60 | 600 | 1 | 298.300 | **6041052** |
| **RBM 45 610 FT** | 60 | 100 | 1 | 54.000 | **6041060** |
| **RBM 45 615 FT** | 60 | 150 | 1 | 72.200 | **6041062** |
| **RBM 45 620 FT** | 60 | 200 | 1 | 92.400 | **6041064** |
| **RBM 45 630 FT** | 60 | 300 | 1 | 137.800 | **6041066** |
| **RBM 45 640 FT** | 60 | 400 | 1 | 189.100 | **6041068** |
| **RBM 45 650 FT** | 60 | 500 | 1 | 249.500 | **6041070** |
| **RBM 45 660 FT** | 60 | 600 | 1 | 319.900 | **6041072** |

45° bend with quick connector system. For all cable tray types of 60 mm side height.

## 90° Magic bend 60

St FS FT





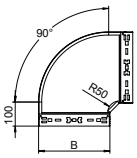

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBM 90 610 FS** | 60 | 100 | 1 | 65.700 | **6041130** |
| **RBM 90 615 FS** | 60 | 150 | 1 | 91.900 | **6041132** |
| **RBM 90 620 FS** | 60 | 200 | 1 | 121.900 | **6041134** |
| **RBM 90 630 FS** | 60 | 300 | 1 | 192.200 | **6041136** |
| **RBM 90 640 FS** | 60 | 400 | 1 | 274.700 | **6041138** |
| **RBM 90 650 FS** | 60 | 500 | 1 | 376.300 | **6041140** |
| **RBM 90 660 FS** | 60 | 600 | 1 | 487.000 | **6041142** |
| **RBM 90 610 FT** | 60 | 100 | 1 | 70.700 | **6041150** |
| **RBM 90 615 FT** | 60 | 150 | 1 | 99.300 | **6041152** |
| **RBM 90 620 FT** | 60 | 200 | 1 | 131.300 | **6041154** |
| **RBM 90 630 FT** | 60 | 300 | 1 | 207.500 | **6041156** |
| **RBM 90 640 FT** | 60 | 400 | 1 | 296.300 | **6041158** |
| **RBM 90 650 FT** | 60 | 500 | 1 | 406.300 | **6041160** |
| **RBM 90 660 FT** | 60 | 600 | 1 | 532.300 | **6041162** |

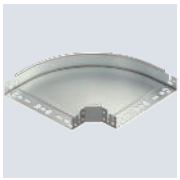
90° bend with quick connector system. For all cable tray types of 60 mm side height.

A2 A4 2B

## 90° Magic bend 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RBM 90 610 A2 | 60 | 100 | 1 | 65.700 | 6041180 |
| RBM 90 620 A2 | 60 | 200 | 1 | 121.900 | 6041184 |
| RBM 90 630 A2 | 60 | 300 | 1 | 192.200 | 6041186 |
| RBM 90 640 A2 | 60 | 400 | 1 | 274.700 | 6041188 |
| RBM 90 650 A2 | 60 | 500 | 1 | 376.300 | 6041190 |
| RBM 90 660 A2 | 60 | 600 | 1 | 493.000 | 6041192 |
| RBM 90 610 A4 | 60 | 100 | 1 | 65.700 | 6041200 |
| RBM 90 615 A4 | 60 | 150 | 1 | 91.900 | 6041202 |
| RBM 90 620 A4 | 60 | 200 | 1 | 121.900 | 6041204 |
| RBM 90 630 A4 | 60 | 300 | 1 | 192.200 | 6041206 |
| RBM 90 640 A4 | 60 | 400 | 1 | 274.700 | 6041208 |
| RBM 90 650 A4 | 60 | 500 | 1 | 376.300 | 6041210 |
| RBM 90 660 A4 | 60 | 600 | 1 | 493.000 | 6041212 |



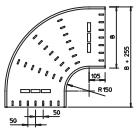



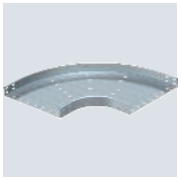
90° bend with quick connector system. For all cable tray types of 60 mm side height.

St FT SO

## 90° bend FT SOMY

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RB 90 660 FT SO | 60 | 600 | 1 | 750.000 | 7196290 |



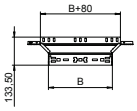



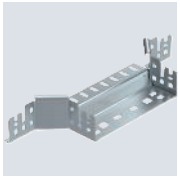
90° bend, horizontal, for all cable tray types of 60 mm side height.

St FS FT

## Add-on tee 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RAAM 610 FS | 60 | 100 | 1 | 37.700 | 6041230 |
| RAAM 615 FS | 60 | 150 | 1 | 42.046 | 6041232 |
| RAAM 620 FS | 60 | 200 | 1 | 50.100 | 6041234 |
| RAAM 630 FS | 60 | 300 | 1 | 60.940 | 6041236 |
| RAAM 640 FS | 60 | 400 | 1 | 75.700 | 6041238 |
| RAAM 650 FS | 60 | 500 | 1 | 89.300 | 6041240 |
| RAAM 660 FS | 60 | 600 | 1 | 102.700 | 6041242 |
| RAAM 610 FT | 60 | 100 | 1 | 40.800 | 6041250 |
| RAAM 615 FT | 60 | 150 | 1 | 47.500 | 6041252 |
| RAAM 620 FT | 60 | 200 | 1 | 54.200 | 6041254 |
| RAAM 630 FT | 60 | 300 | 1 | 68.000 | 6041257 |
| RAAM 640 FT | 60 | 400 | 1 | 81.800 | 6041259 |
| RAAM 650 FT | 60 | 500 | 1 | 105.400 | 6041261 |
| RAAM 660 FT | 60 | 600 | 1 | 110.100 | 6041263 |



Magic add-on tee with quick connector system. For all cable tray types of 60 mm side height.

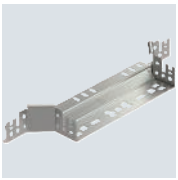


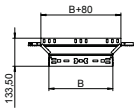
Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Cable trays, side height 60

## Magic add-on tee 60

A2 A4 2B



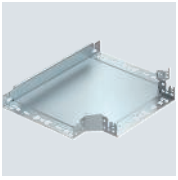


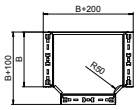

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RAAM 610 A2** | 60 | 100 | 1 | 37.700 | **6041270** |
| **RAAM 620 A2** | 60 | 200 | 1 | 50.100 | **6041275** |
| **RAAM 630 A2** | 60 | 300 | 1 | 62.900 | **6041277** |
| **RAAM 640 A2** | 60 | 400 | 1 | 75.700 | **6041279** |
| **RAAM 650 A2** | 60 | 500 | 1 | 89.300 | **6041282** |
| **RAAM 660 A2** | 60 | 600 | 1 | 102.700 | **6041284** |
| **RAAM 610 A4** | 60 | 100 | 1 | 37.700 | **6041290** |
| **RAAM 620 A4** | 60 | 200 | 1 | 50.100 | **6041294** |
| **RAAM 630 A4** | 60 | 300 | 1 | 62.900 | **6041296** |
| **RAAM 640 A4** | 60 | 400 | 1 | 75.700 | **6041298** |
| **RAAM 650 A4** | 60 | 500 | 1 | 89.300 | **6041300** |
| **RAAM 660 A4** | 60 | 600 | 1 | 102.700 | **6041303** |

Add-on tee with quick connector system. For all cable tray types of 60 mm side height.

## Magic 60 T branch piece

St FS FT



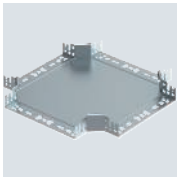


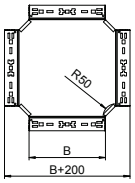

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RTM 610 FS** | 60 | 100 | 1 | 83.600 | **6041320** |
| **RTM 615 FS** | 60 | 150 | 1 | 114.700 | **6041322** |
| **RTM 620 FS** | 60 | 200 | 1 | 150.600 | **6041324** |
| **RTM 630 FS** | 60 | 300 | 1 | 228.420 | **6041326** |
| **RTM 640 FS** | 60 | 400 | 1 | 335.600 | **6041328** |
| **RTM 650 FS** | 60 | 500 | 1 | 458.500 | **6041330** |
| **RTM 660 FS** | 60 | 600 | 1 | 605.000 | **6041332** |
| **RTM 610 FT** | 60 | 100 | 1 | 89.600 | **6041340** |
| **RTM 615 FT** | 60 | 150 | 1 | 123.000 | **6041342** |
| **RTM 620 FT** | 60 | 200 | 1 | 161.500 | **6041344** |
| **RTM 630 FT** | 60 | 300 | 1 | 253.300 | **6041348** |
| **RTM 640 FT** | 60 | 400 | 1 | 359.900 | **6041350** |
| **RTM 650 FT** | 60 | 500 | 1 | 495.100 | **6041352** |
| **RTM 660 FT** | 60 | 600 | 1 | 648.800 | **6041354** |

Tee branch piece with quick connector system. For all cable tray types of 60 mm side height.

## Magic 60 cross-over

St FS FT





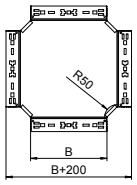

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RKM 610 FS** | 60 | 100 | 1 | 92.500 | **7027001** |
| **RKM 615 FS** | 60 | 150 | 1 | 123.800 | **7027003** |
| **RKM 620 FS** | 60 | 200 | 1 | 159.800 | **7027005** |
| **RKM 630 FS** | 60 | 300 | 1 | 244.600 | **7027007** |
| **RKM 640 FS** | 60 | 400 | 1 | 343.400 | **7027009** |
| **RKM 650 FS** | 60 | 500 | 1 | 468.300 | **7027011** |
| **RKM 660 FS** | 60 | 600 | 1 | 610.100 | **7027013** |
| **RKM 610 FT** | 60 | 100 | 1 | 100.000 | **7027021** |
| **RKM 620 FT** | 60 | 200 | 1 | 172.700 | **7027025** |
| **RKM 630 FT** | 60 | 300 | 1 | 264.300 | **7027027** |
| **RKM 640 FT** | 60 | 400 | 1 | 368.200 | **7027029** |
| **RKM 650 FT** | 60 | 500 | 1 | 502.200 | **7027031** |
| **RKM 660 FT** | 60 | 600 | 1 | 658.800 | **7027033** |

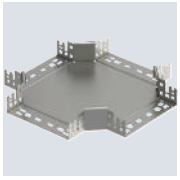
Cross-over with quick connector system. For all cable tray types of 60 mm side height.

A2 2B

## Magic 60 cross-over

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RKM 630 A2** | 60 | 300 | 1 | 244.600 | **7027047** |



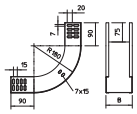



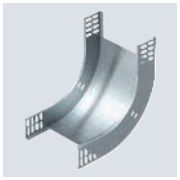
Cross-over with quick connector system. For all cable tray types of 60 mm side height.

St FS FT

## 90° vertical bend, rising 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBV 610 S FS** | 60 | 100 | 1 | 66.000 | **7007005** |
| **RBV 615 S FS** | 60 | 150 | 1 | 78.000 | **7007009** |
| **RBV 620 S FS** | 60 | 200 | 1 | 95.000 | **7007013** |
| **RBV 630 S FS** | 60 | 300 | 1 | 124.000 | **7007017** |
| **RBV 640 S FS** | 60 | 400 | 1 | 153.000 | **7007021** |
| **RBV 650 S FS** | 60 | 500 | 1 | 181.000 | **7007025** |
| **RBV 660 S FS** | 60 | 600 | 1 | 210.000 | **7007029** |
| **RBV 610 S FT** | 60 | 100 | 1 | 71.000 | **7007006** |
| **RBV 615 S FT** | 60 | 150 | 1 | 84.000 | **7007010** |
| **RBV 620 S FT** | 60 | 200 | 1 | 103.000 | **7007014** |
| **RBV 630 S FT** | 60 | 300 | 1 | 134.000 | **7007018** |
| **RBV 640 S FT** | 60 | 400 | 1 | 163.000 | **7007022** |
| **RBV 650 S FT** | 60 | 500 | 1 | 190.000 | **7007026** |
| **RBV 660 S FT** | 60 | 600 | 1 | 221.000 | **7007030** |





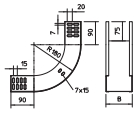
90° rising vertical bend, for all cable tray types of 60 mm side height.

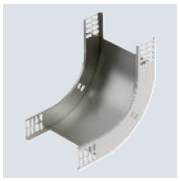
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

A2 A4 2B

## 90° vertical bend, rising 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBV 610 S A2** | 60 | 100 | 1 | 66.000 | **7007105** |
| **RBV 620 S A2** | 60 | 200 | 1 | 109.000 | **7007109** |
| **RBV 630 S A2** | 60 | 300 | 1 | 145.000 | **7007113** |
| **RBV 640 S A2** | 60 | 400 | 1 | 181.000 | **7007117** |
| **RBV 650 S A2** | 60 | 500 | 1 | 216.000 | **7007119** |
| **RBV 660 S A2** | 60 | 600 | 1 | 252.000 | **7007121** |
| **RBV 610 S A4** | 60 | 100 | 1 | 73.000 | **7006720** |
| **RBV 620 S A4** | 60 | 200 | 1 | 105.000 | **7006724** |
| **RBV 630 S A4** | 60 | 300 | 1 | 145.000 | **7006728** |
| **RBV 640 S A4** | 60 | 400 | 1 | 181.000 | **7006732** |
| **RBV 650 S A4** | 60 | 500 | 1 | 216.000 | **7006736** |
| **RBV 660 S A4** | 60 | 600 | 1 | 252.000 | **7006740** |





90° rising vertical bend, for all cable tray types of 60 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.



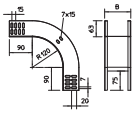
Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Cable trays, side height 60

## 90° vertical bend, falling 60

St FS FT



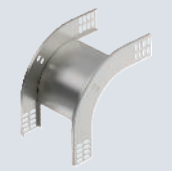


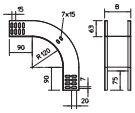
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBV 610 F FS** | 60 | 100 | 1 | 61.000 | **7007055** |
| **RBV 615 F FS** | 60 | 150 | 1 | 73.000 | **7007059** |
| **RBV 620 F FS** | 60 | 200 | 1 | 84.000 | **7007063** |
| **RBV 630 F FS** | 60 | 300 | 1 | 107.000 | **7007067** |
| **RBV 640 F FS** | 60 | 400 | 1 | 130.000 | **7007071** |
| **RBV 650 F FS** | 60 | 500 | 1 | 153.000 | **7007075** |
| **RBV 660 F FS** | 60 | 600 | 1 | 176.000 | **7007079** |
| **RBV 610 F FT** | 60 | 100 | 1 | 66.000 | **7007056** |
| **RBV 615 F FT** | 60 | 150 | 1 | 80.000 | **7007060** |
| **RBV 620 F FT** | 60 | 200 | 1 | 92.000 | **7007064** |
| **RBV 630 F FT** | 60 | 300 | 1 | 116.000 | **7007068** |
| **RBV 640 F FT** | 60 | 400 | 1 | 142.000 | **7007072** |
| **RBV 650 F FT** | 60 | 500 | 1 | 167.000 | **7007076** |
| **RBV 660 F FT** | 60 | 600 | 1 | 192.000 | **7007080** |

90° vertical bend, falling, for all cable tray types of 60 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

## 90° vertical bend, falling 60

A2 A4 2B





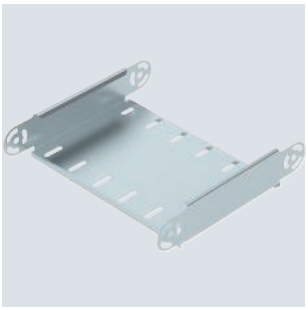
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBV 610 F A2** | 60 | 100 | 1 | 61.000 | **7007155** |
| **RBV 620 F A2** | 60 | 200 | 1 | 84.000 | **7007157** |
| **RBV 630 F A2** | 60 | 300 | 1 | 107.000 | **7007159** |
| **RBV 640 F A2** | 60 | 400 | 1 | 130.000 | **7007161** |
| **RBV 650 F A2** | 60 | 500 | 1 | 153.000 | **7007163** |
| **RBV 660 F A2** | 60 | 600 | 1 | 176.000 | **7007165** |
| **RBV 610 F A4** | 60 | 100 | 1 | 61.000 | **7006750** |
| **RBV 620 F A4** | 60 | 200 | 1 | 84.000 | **7006754** |
| **RBV 630 F A4** | 60 | 300 | 1 | 107.000 | **7006758** |
| **RBV 640 F A4** | 60 | 400 | 1 | 130.000 | **7006762** |
| **RBV 650 F A4** | 60 | 500 | 1 | 153.000 | **7006766** |
| **RBV 660 F A4** | 60 | 600 | 1 | 176.000 | **7006770** |

90° vertical bend, falling, for all cable tray types of 60 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

## Adjustable bend element, vertical 60

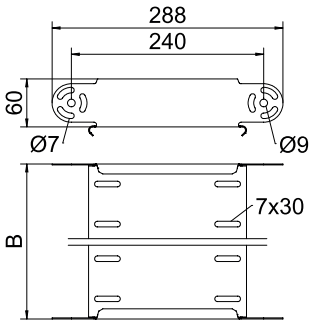
| Type | Side height mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RGBEV 610 FS** | 60 | | 1 | 48.100 | **7005326** |
| **RGBEV 620 FS** | 60 | | 1 | 63.600 | **7005342** |
| **RGBEV 630 FS** | 60 | | 1 | 80.400 | **7005369** |
| **RGBEV 640 FS** | 60 | | 1 | 114.000 | **7005385** |
| **RGBEV 650 FS** | 60 | | 1 | 134.000 | **7005407** |
| **RGBEV 660 FS** | 60 | | 1 | 155.900 | **7005423** |
| **RGBEV 610 FT** | 60 | | 1 | 52.400 | **7075103** |
| **RGBEV 615 FT** | 60 | | 1 | 60.300 | **7075154** |
| **RGBEV 620 FT** | 60 | | 1 | 69.300 | **7075200** |
| **RGBEV 630 FT** | 60 | | 1 | 87.600 | **7075308** |
| **RGBEV 640 FT** | 60 | | 1 | 123.000 | **7075405** |
| **RGBEV 650 FT** | 60 | | 1 | 144.000 | **7075502** |
| **RGBEV 660 FT** | 60 | | 1 | 167.200 | **7075596** |



Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.
RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

| Type | Dim. B mm | Metal thick-ness mm |
|---|---|---|
| RGBEV 610 FS | 100 | 1.00 |
| RGBEV 620 FS | 200 | 1.00 |
| RGBEV 630 FS | 300 | 1.00 |
| RGBEV 640 FS | 400 | 1.00 |
| RGBEV 650 FS | 500 | 1.00 |
| RGBEV 660 FS | 600 | 1.00 |

**Dimensions**

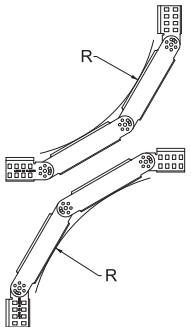



**Radius table**

| Quantity of elements | Radius |
|---|---|
| 1 | approx. 300 mm |
| 2 | Approx. 450 mm |
| 3 | Approx. 600 mm |
| 4 | approx. 750 mm |
| 5 | approx. 900 mm |

Please order two RGV 60 adjustable connectors separately.

**Installation**




Always indicate the item number when ordering.





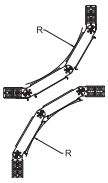
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# Cable trays, side height 60

## 90° adjustable bend, vertical 60

St FS



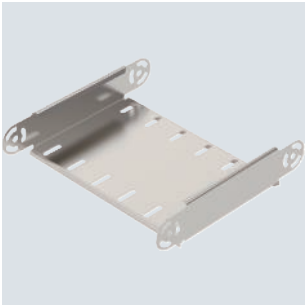



| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RGBV 610 FS** | 60 | 100 | 1 | 173.700 | **7006322** |
| **RGBV 620 FS** | 60 | 200 | 1 | 219.000 | **7006349** |
| **RGBV 630 FS** | 60 | 300 | 1 | 260.000 | **7006365** |
| **RGBV 640 FS** | 60 | 400 | 1 | 302.000 | **7006381** |
| **RGBV 650 FS** | 60 | 500 | 1 | 367.000 | **7006411** |
| **RGBV 660 FS** | 60 | 600 | 1 | 430.000 | **7006446** |

90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.
The bend is shipped in an unmounted state. No additional fastening materials are required.

## Adjustable vertical bend element 60

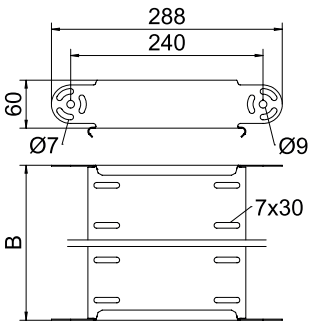
A2 A4 2B



| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RGBEV 610 A2** | 60 | 1 | 53.300 | **7075651** |
| **RGBEV 620 A2** | 60 | 1 | 74.100 | **7075653** |
| **RGBEV 630 A2** | 60 | 1 | 94.800 | **7075655** |
| **RGBEV 640 A2** | 60 | 1 | 115.500 | **7075657** |
| **RGBEV 650 A2** | 60 | 1 | 136.200 | **7075659** |
| **RGBEV 660 A2** | 60 | 1 | 157.000 | **7075661** |
| **RGBEV 610 A4** | 60 | 1 | 54.000 | **7075671** |
| **RGBEV 620 A4** | 60 | 1 | 75.000 | **7075673** |
| **RGBEV 630 A4** | 60 | 1 | 96.000 | **7075675** |
| **RGBEV 640 A4** | 60 | 1 | 117.000 | **7075677** |
| **RGBEV 650 A4** | 60 | 1 | 138.000 | **7075679** |
| **RGBEV 660 A4** | 60 | 1 | 159.000 | **7075681** |

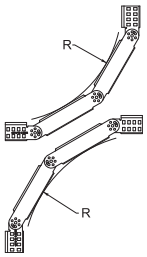
Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.
RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

### Dimensions




| Type | Dim. B mm | Metal thick-ness mm |
|---|---|---|
| RGBEV 610 A2 | 100 | 1.00 |
| RGBEV 620 A2 | 200 | 1.00 |
| RGBEV 630 A2 | 300 | 1.00 |
| RGBEV 640 A2 | 400 | 1.00 |
| RGBEV 650 A2 | 500 | 1.00 |
| RGBEV 660 A2 | 600 | 1.00 |

### Installation




**Radius table**

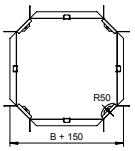
| Quantity of elements | Radius |
|---|---|
| 1 | approx. 300 mm |
| 2 | approx. 450 mm |
| 3 | approx. 600 mm |
| 4 | approx. 750 mm |
| 5 | approx. 900 mm |

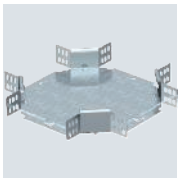
Please order two RGV 60 articulated connectors separately.

St FS

## Cross-over 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RK 610 FS** | 60 | 100 | 1 | 89.500 | **6043615** |
| **RK 615 FS** | 60 | 150 | 1 | 111.100 | **6043607** |
| **RK 620 FS** | 60 | 200 | 1 | 136.200 | **6043623** |
| **RK 630 FS** | 60 | 300 | 1 | 197.800 | **6043631** |



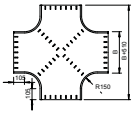



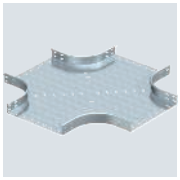
Horizontal cross-over for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.
Including appropriate fastening material.

St FS FT

## Cross-over 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RK 640 FS** | 60 | 400 | 1 | 800.000 | **7004397** |
| **RK 650 FS** | 60 | 500 | 1 | 1,120.000 | **7004419** |
| **RK 660 FS** | 60 | 600 | 1 | 1,291.000 | **7004435** |
| **RK 640 FT** | 60 | 400 | 1 | 860.000 | **7113404** |
| **RK 650 FT** | 60 | 500 | 1 | 1,190.000 | **7113501** |
| **RK 660 FT** | 60 | 600 | 1 | 1,370.000 | **7113609** |

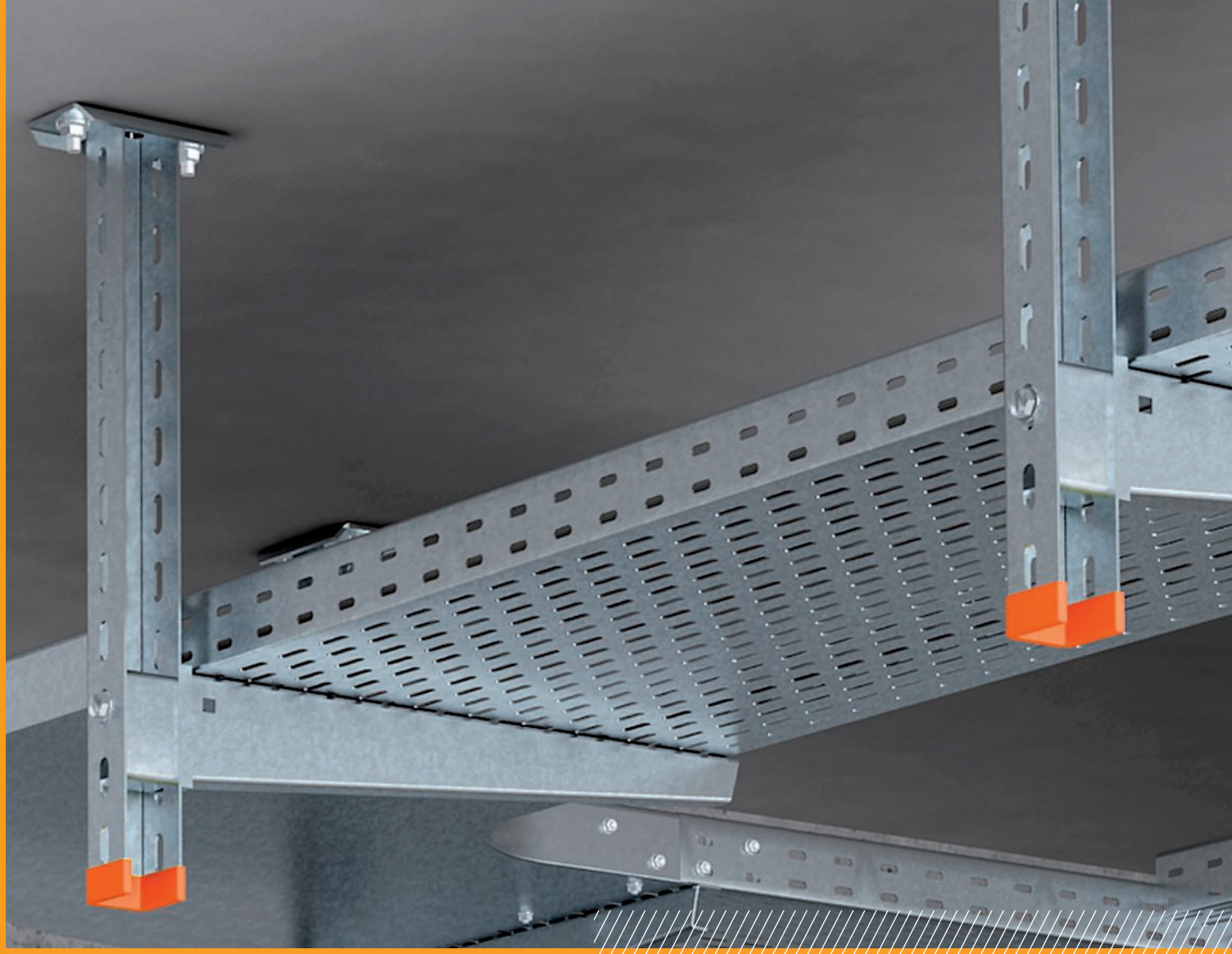


Horizontal cross-over for all cable tray types of 60 mm side height.
Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.
Fastening materials should be ordered separately.



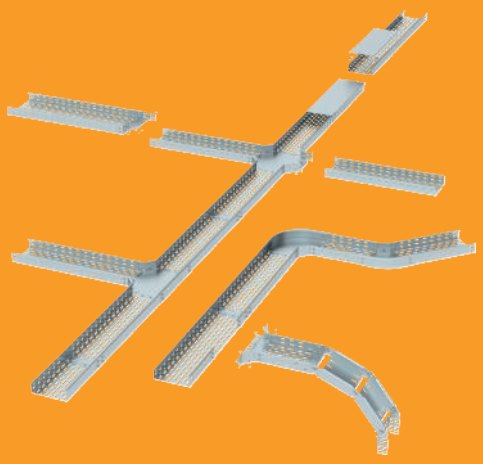
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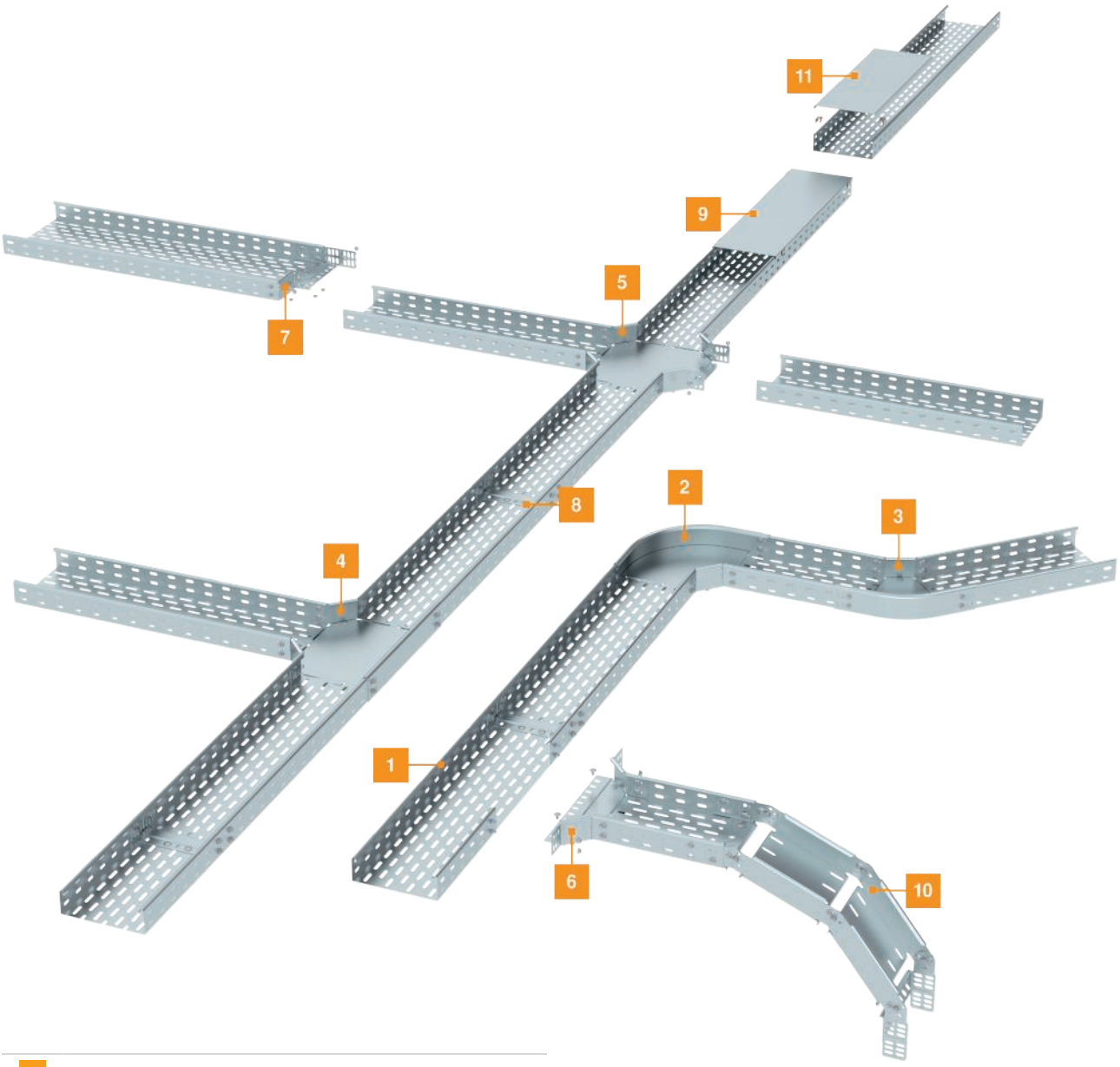
# Cable tray system MKS

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

- Medium-duty cable tray system with side heights of 35, 60 and 85 mm
- Various fittings, functional connectors and additional accessories



# Installation principle




| | |
|---|---|
| 1 | Cable tray MKS |
| 2 | 90° bend |
| 3 | 45° bend |
| 4 | T branch piece |
| 5 | Cross-over |
| 6 | Add-on tee |
| 7 | Reducer/stop-end |
| 8 | Straight connectors and joint plate |
| 9 | Cover with turn buckle |
| 10 | Adjustable bend element |
| 11 | Unperforated cover with cover clamp |



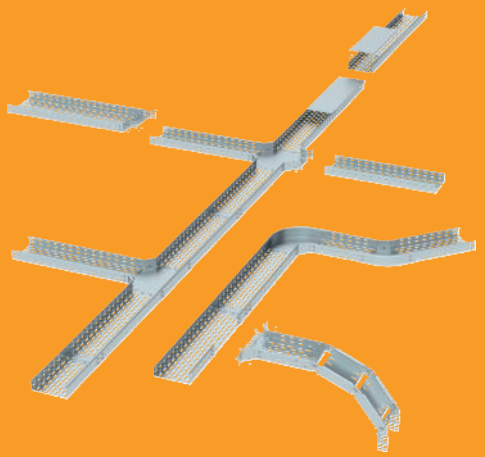
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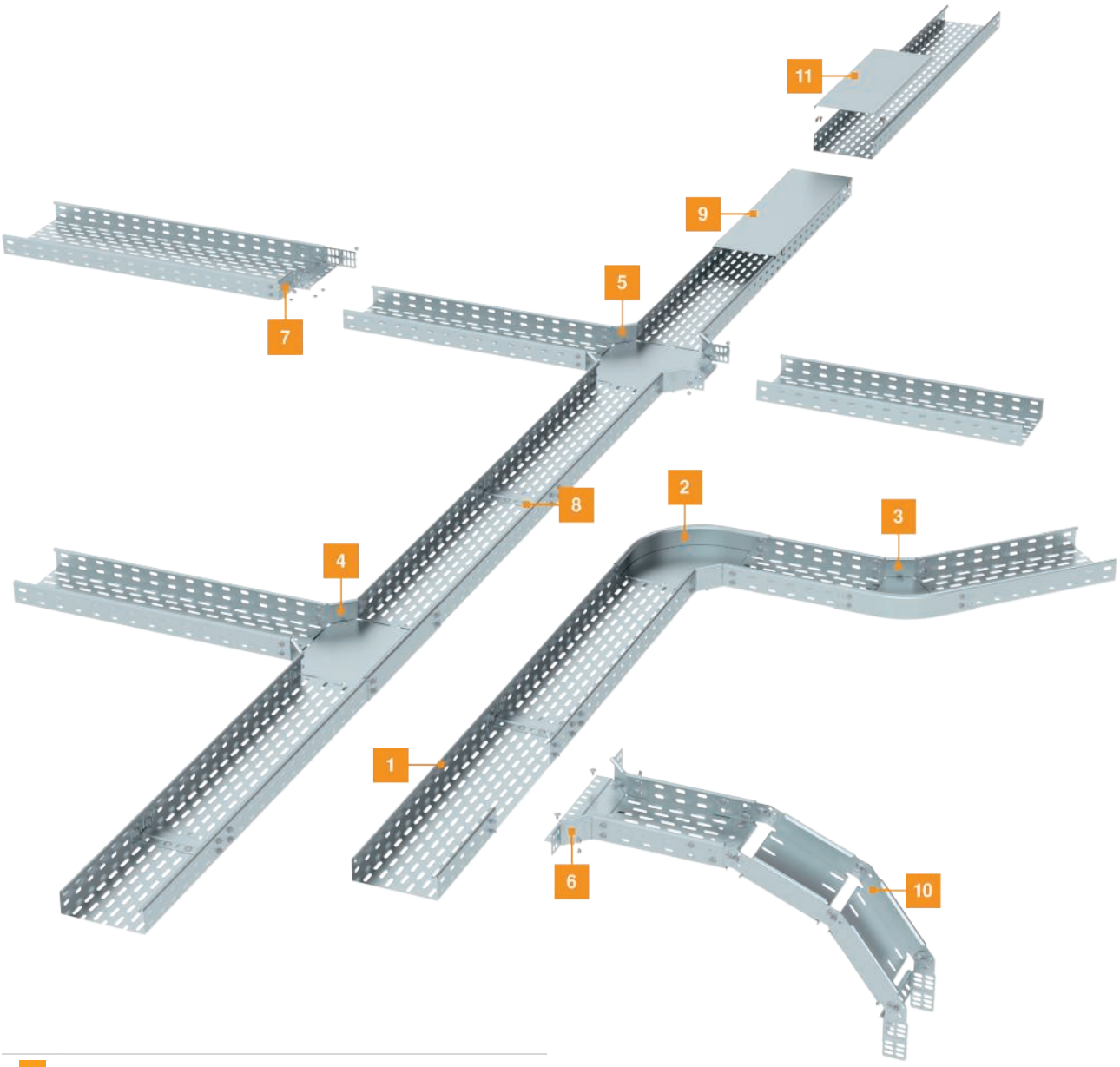
# Cable tray system SKS

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

- Medium-duty cable tray system with side heights of 60, 85 and 110 mm
- Various fittings, functional connectors and additional accessories



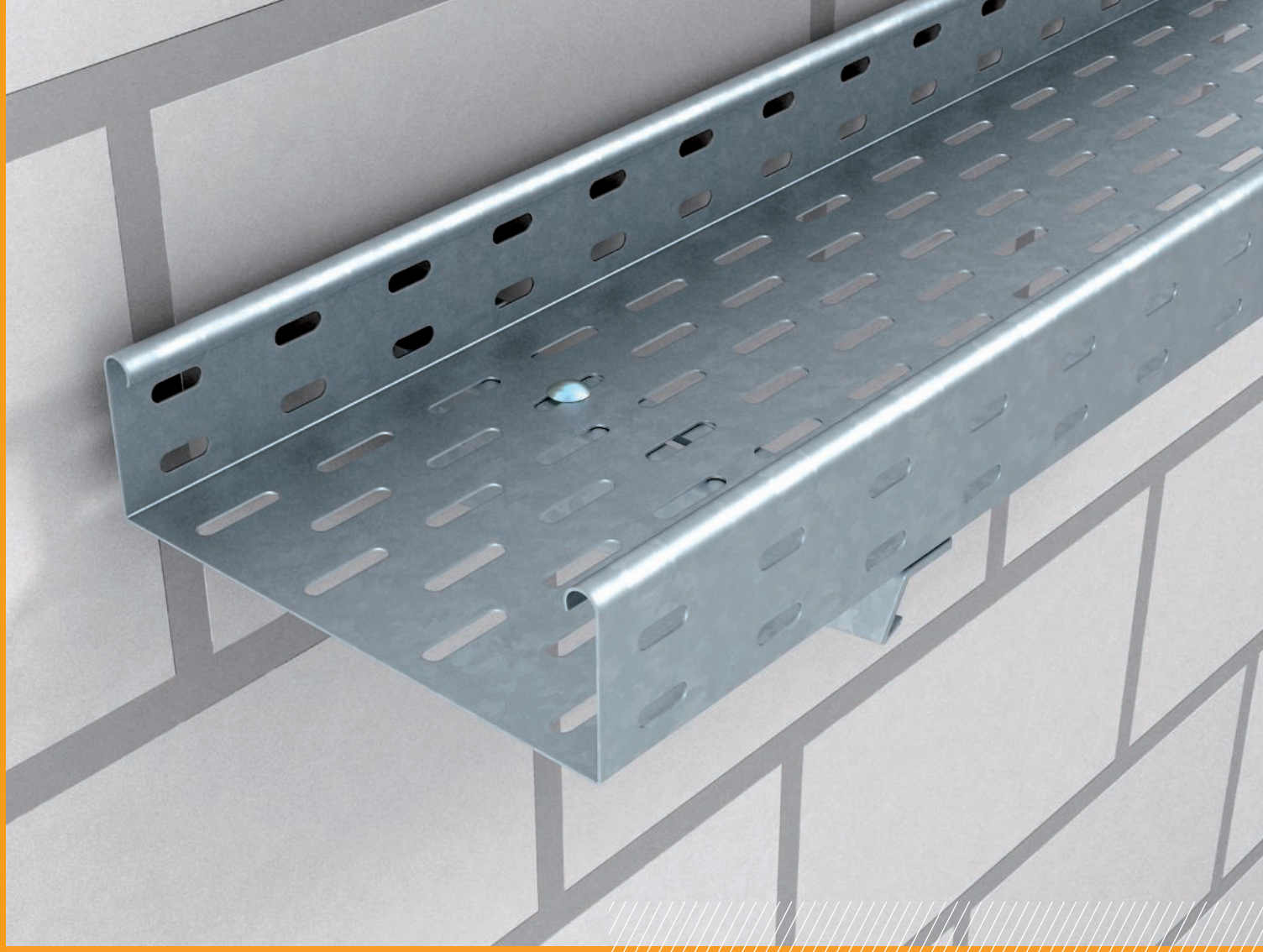
# Installation principle




| | |
|---|---|
| 1 | Cable tray SKS |
| 2 | 90° bend |
| 3 | 45° bend |
| 4 | T branch piece |
| 5 | Cross-over |
| 6 | Add-on tee |
| 7 | Reducer/stop-end |
| 8 | Straight connectors and joint plate |
| 9 | Cover with turn buckle |
| 10 | Adjustable bend element |
| 11 | Unperforated cover with cover clamp |



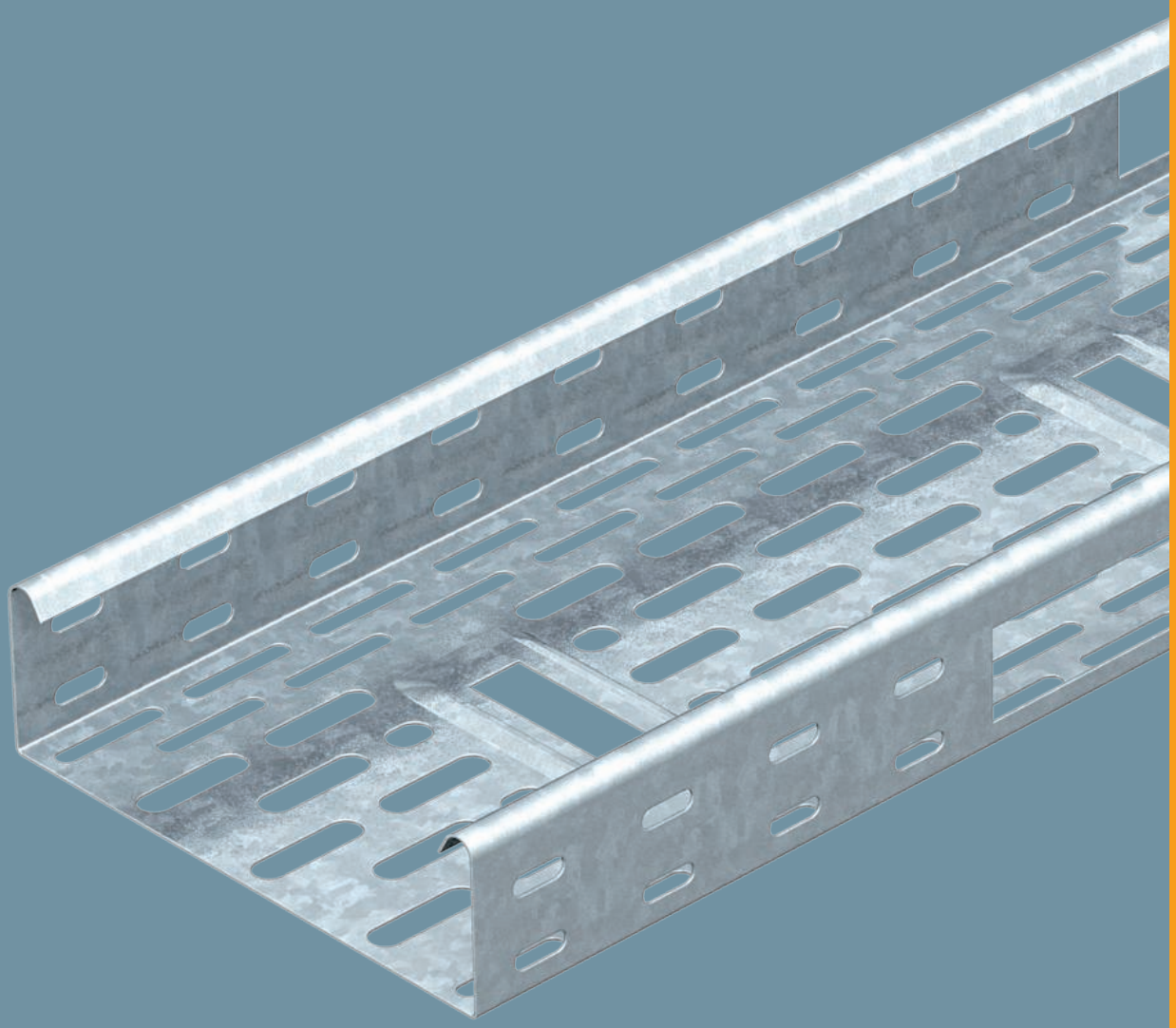
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# Cable tray system EKS

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

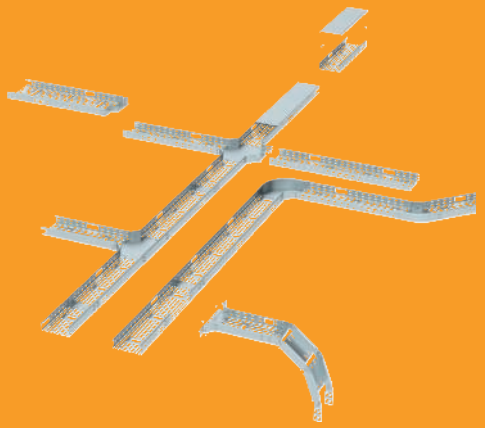
- Extra-heavy cable tray system with 60 mm side height
- Various fittings, functional connectors and additional accessories



# Cable tray system IKS

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

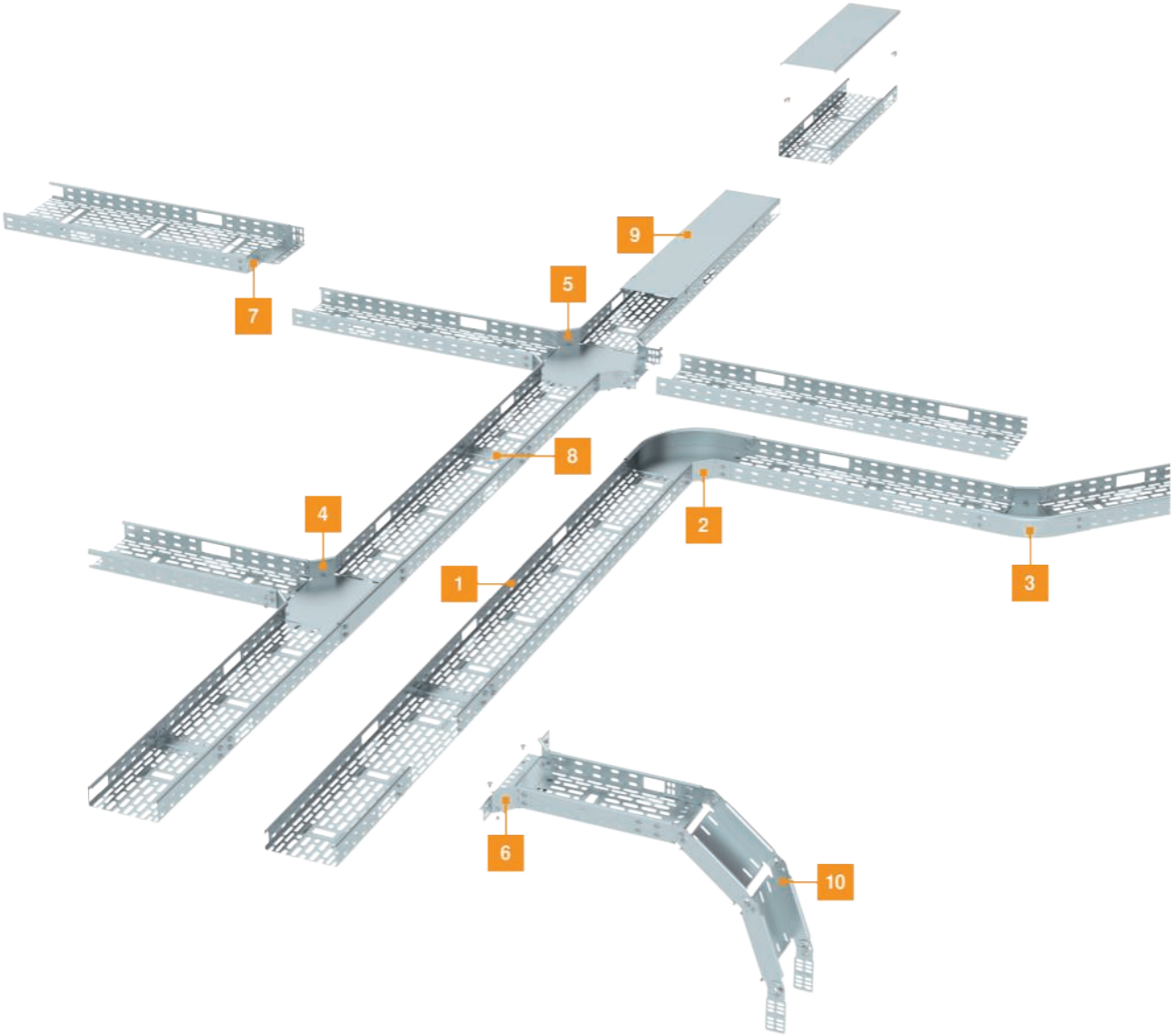
- Installation cable tray system with 60 mm side height
- 30% hole surface for use under sprinkler systems
- Various fittings, all types of connectors and additional accessories



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# Cable tray system IKS

## Installation principle




| | |
|---|---|
| 1 | Cable tray IKS |
| 2 | 90° bend |
| 3 | 45° bend |
| 4 | T branch piece |
| 5 | Cross-over |
| 6 | Add-on tee |
| 7 | Reducer/stop-end |
| 8 | Straight connectors and joint plate |
| 9 | Unperforated cover with cover clamp |
| 10 | Adjustable bend element |

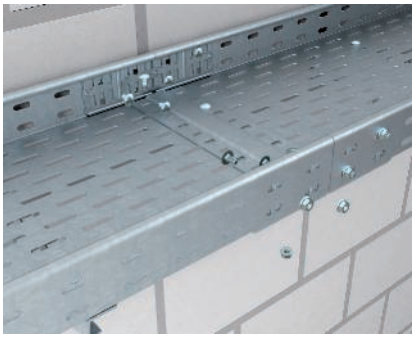
# Mounting aid



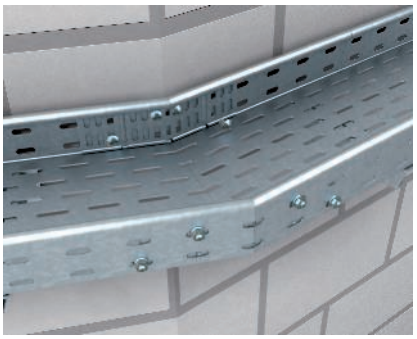
**Installation of RV straight connector set**
Straight connection of the cable trays through simply clamping the connector set RV into the side rail.



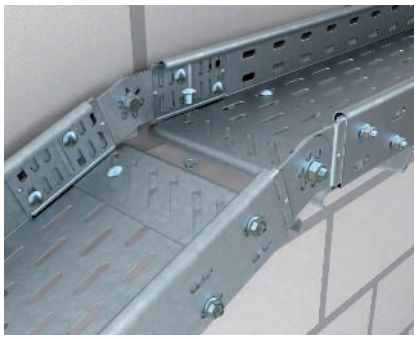
**Screwless straight connector set, type RV**
Press the corresponding joint plate downwards and snap it in place.



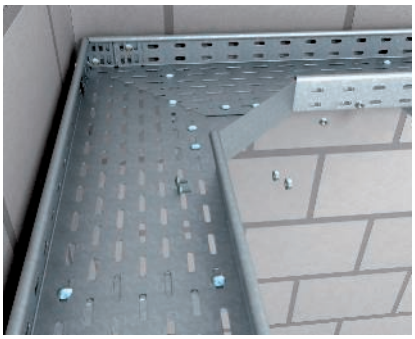
**Straight connection with joint cover**
Cable tray with screwed straight connection and joint plate, type SSLB. The joint plate can also be mounted above the bar of the RV straight connector set.



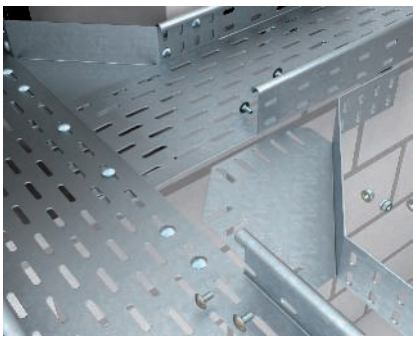
**Horizontal angle connection of cable trays**
Horizontal angle connection of cable trays for brackets created during construction and cut cable tray ends.



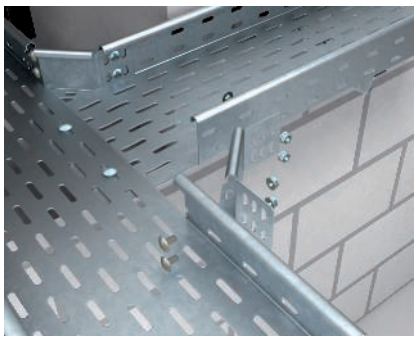
**Vertical adjustable connection of cable trays**
Vertical adjustable connection of cable tray for construction-side height jumps of any angle.



**Bend creation with corner connector**
For 90° bends to be created at site, the corner connector, type REV, can be used to increase the internal radius.



**Direct connection with corner connectors**
Corner connector, type REV, to increase the angle when creating tees without fittings. Additional supports should be planned for the area of the branches.

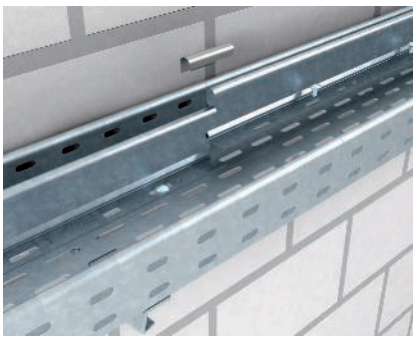


**Branch with angle connectors**
Installation of built T exit with angle connectors, type WKV. Additional supports should be planned for the area of the branches.

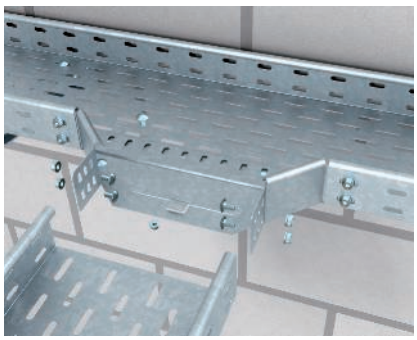


**Installation of reducer / stop-end**
The reducer / stop-end plate component is used as closure and to reduce the width of cable trays.

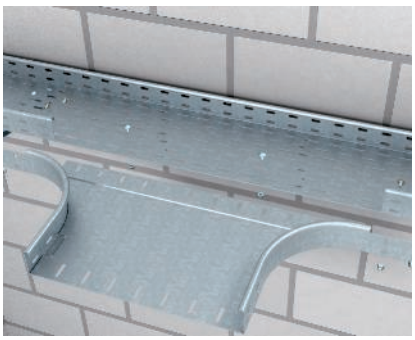
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**Barrier strip mounting with screw connection**
Screwed barrier strip fastening of the barrier strip, TSG 60, with truss-head bolts M6x12. The barrier strip can simply be run over the joint and connected without bolts using the barrier strip connector TSGV.



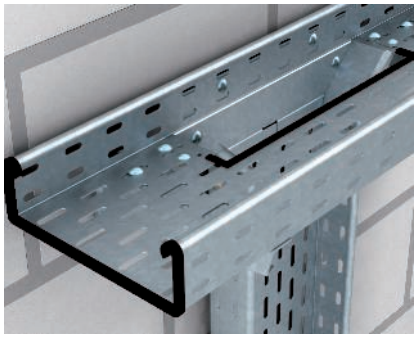
**Installation of add-on tee (width 100 – 300 mm)**
To mount the add-on tee, separate the cable tray rail and screw it tight. Additional supports should be planned for the area of the fittings.



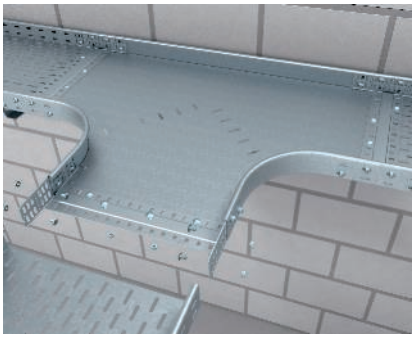
**Installation of add-on tee (width 400 – 600 mm)**
To mount the add-on tee, separate the cable tray rail and screw it tight. Additional supports should be planned for the area of the fittings.



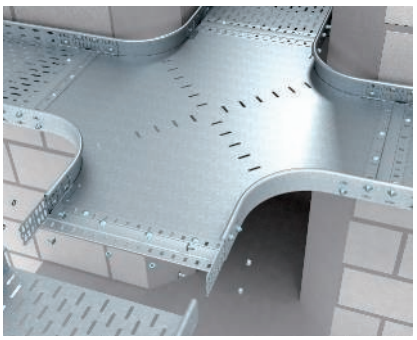
**Installation of vertical add-on tee**
Vertical mounting of the add-on tee as length-wise funnel.



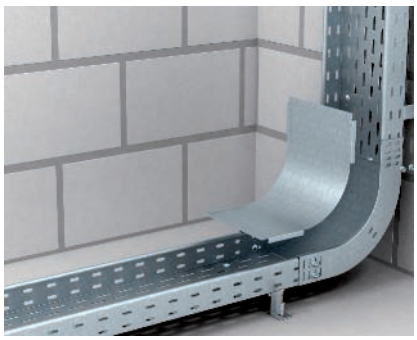
**Installation of vertical add-on tee**
Vertical mounting of the add-on tee as length-wise funnel.



**Installation of tee**
The tee in widths is connected to the cable tray using connectors and a joint plate. Additional supports should be planned for the area of the fittings.



**Installation of cross-over**
The cross-over is connected to the cable tray using connectors and a joint plate. Additional supports should be planned for the area of the fittings.



**90° bend (rising/falling)**
90° bend, rising or falling, for the creation of simple vertical changes of direction.



**Installation of adjustable vertical bend element**
Installation of the adjustable vertical bend element for the creation of adjustable bends. The adjustable vertical bend element is connected to the cable tray using adjustable connectors.



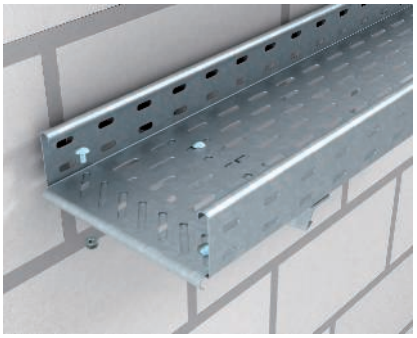
**Installation of falling adjustable vertical bend**
Adjustable vertical bend to bridge height offsets. The adjustable vertical bend is connected with to the cable tray using the adjustable connectors.



**Installation of rising adjustable vertical bend**
Adjustable vertical bend to bridge height offsets. The adjustable vertical bend is connected with to the cable tray using the adjustable connectors.



**Screwless cover mounting**
Unperforated covers are mounted using cover clamps, type DK DRLU. The cover clamps are first clamped to the cover edge and then snapped on to the cable tray rail with the cover.



**Installation of bottom end plate**
Fastening of the bottom end plate, type BEB, to protect the cables.

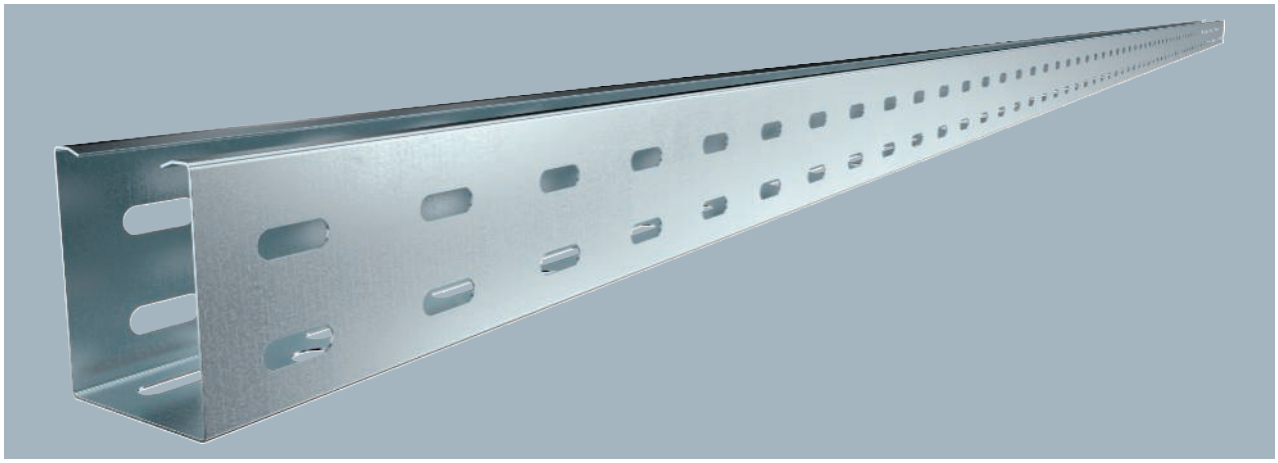


**Mounting plate with quick fastening**
Fastening of the mounting plate, type MP, on the cable tray. The mounting plate can be fastened to the rail with quick connectors, and permanently fastened using truss-head bolts of type FRS B.

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Cable tray RKS 60

St FS



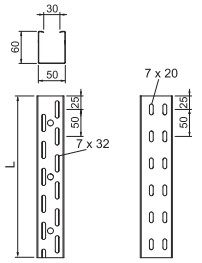
| Type | Side height mm | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **RKS 605 FS** | 60 | 50 | 0.75 | | 3 | 96.000 | **6047600** |

RKS 60 = Rational cable tray system with 60 mm side height (unbeaded base plate).

Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.

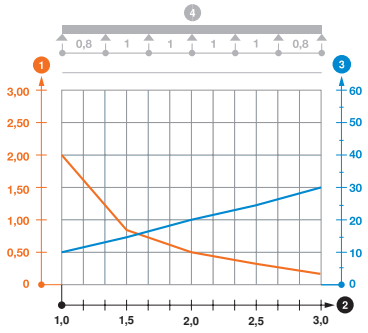
| Type | Dim. L mm | Usable cross-section cm² |
|---|---|---|
| RKS 605 FS | 3000 | 30 |

**Dimensions**




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|---|
| **RKS 605 FS** | 2 | 0.8 | 0.5 | 0.35 | 0.15 |

**Load**




**Load diagram, cable tray, type RKS 60, unbeaded**

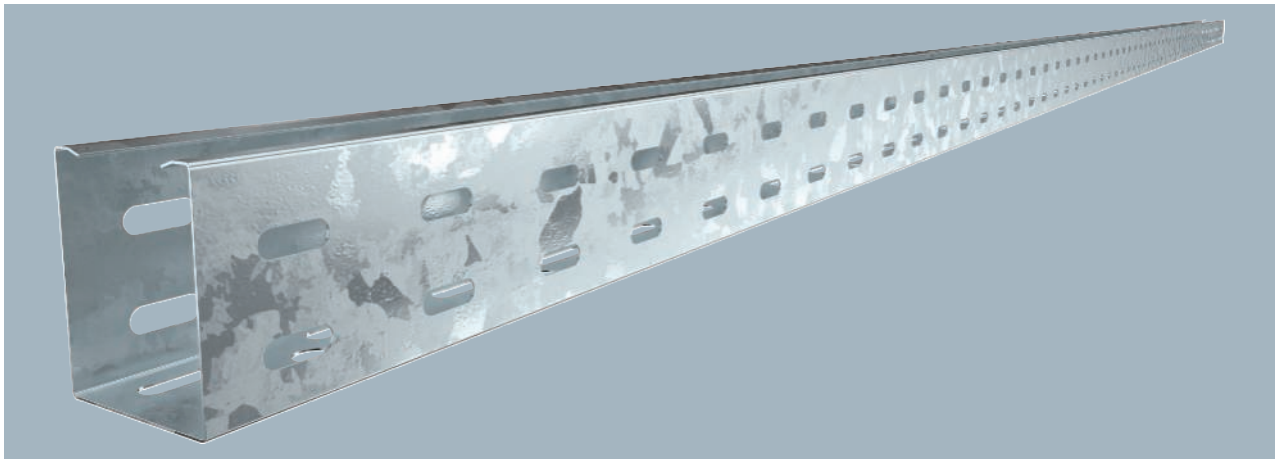
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

## Cable tray RKS 60

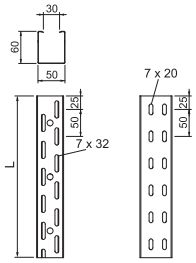


RKS 60 = Rational cable tray system with 60 mm side height (unbeaded base plate).

Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.

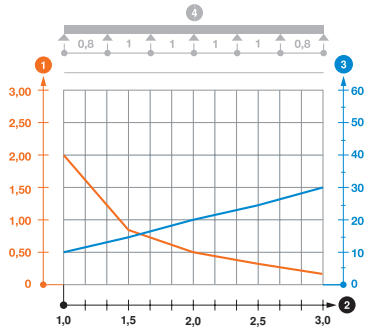
| Type | Side height mm | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **RKS 605 FT** | 60 | 50 | 0.75 | | 3 | 108.000 | **6047602** |

### Dimensions




| Type | Dim. L mm | Usable cross-section cm² |
|---|---|---|
| RKS 605 FT | 3000 | 30 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|---|
| **RKS 605 FT** | 2 | 0.8 | 0.5 | 0.35 | 0.15 |

**Load diagram, cable tray, type RKS 60, unbeaded**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

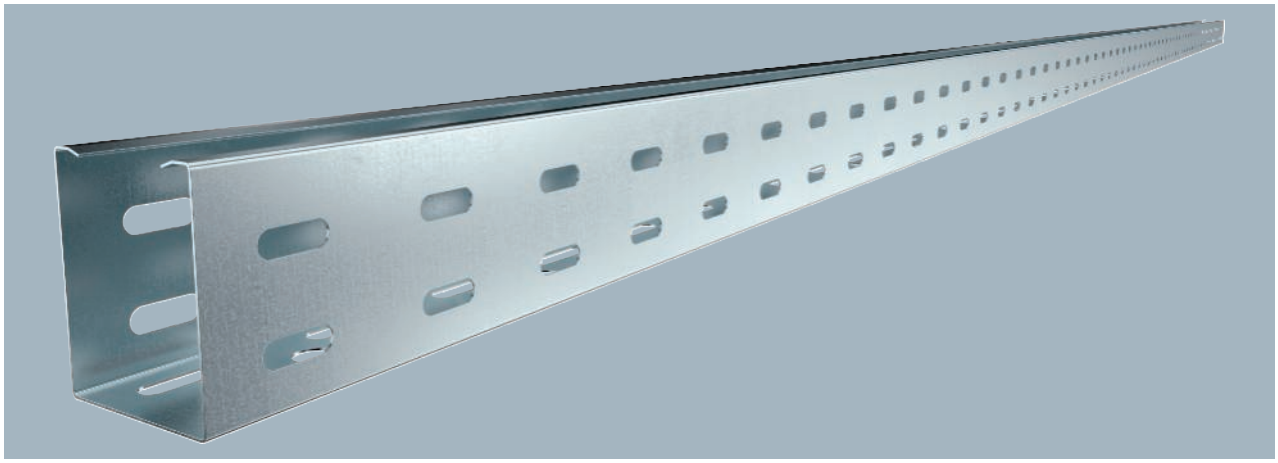
— Strut bend curve according to support width



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## Cable tray RKS 60

St FS



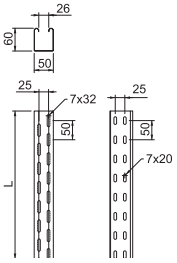
| Type | Side height mm | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **RKS 607 FS** | 60 | 75 | 0.75 | | 3 | 118.940 | **6055893** |

RKS 60 = Rational cable tray system with 60 mm side height (unbeaded base plate).

Including RV 60 longitudinal connector set.
The cable tray is fixed to the bracket with bolts, type FRS M6 x 12.

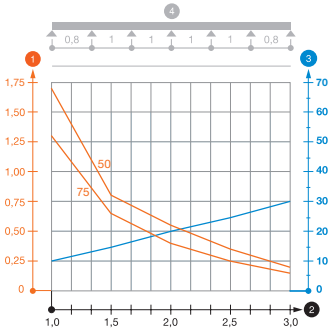
| Type | Dim. L mm | Usable cross-section cm² |
|---|---|---|
| RKS 607 FS | 3000 | 42 |

**Dimensions**




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|---|
| **RKS 607 FS** | 1.3 | 0.65 | 0.4 | 0.25 | 0.15 |

**Load**




**Load diagram, cable tray, type RKS 60, unbeaded**

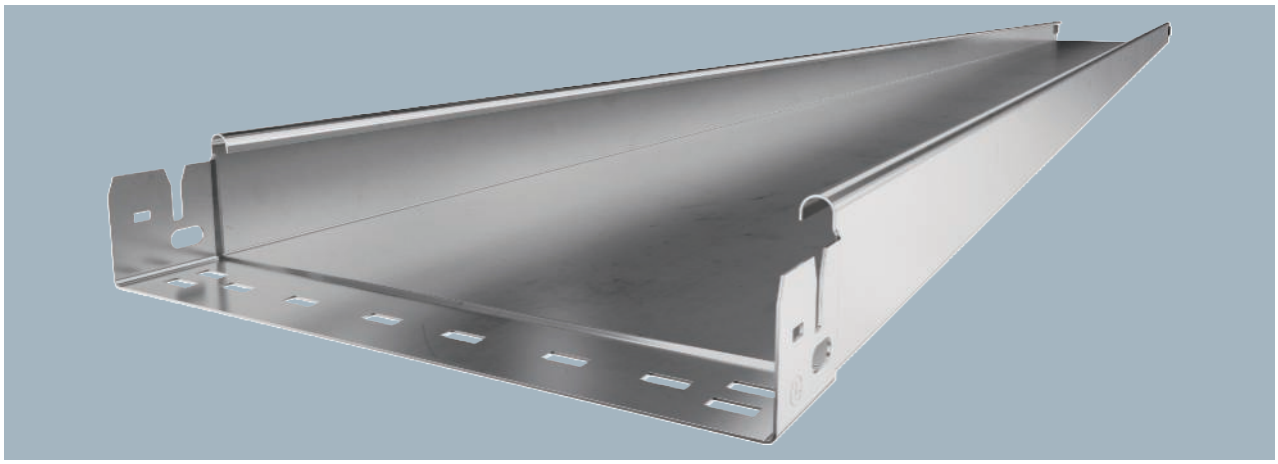
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

## Cable tray MKS-Magic® 60, unperforated

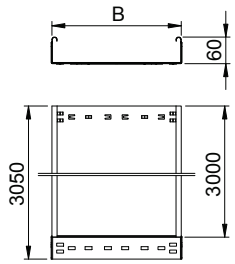


Continuous equipotential bonding is guaranteed without additional components.

Unperforated cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.

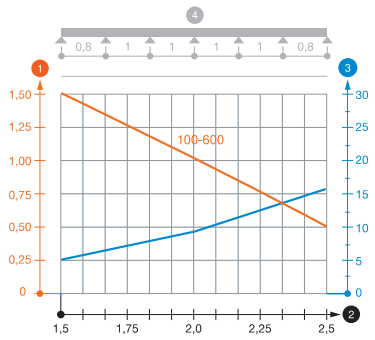
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKSMU 610 A2** | 100 | 1.00 | 3 | 194.867 | **6059265** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKSMU 610 A2 | 3050 | 100 | 58 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKSMU 610 A2** | 1.5 | 1 | 0.5 |

**Load diagram, cable tray, type MKSMU 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

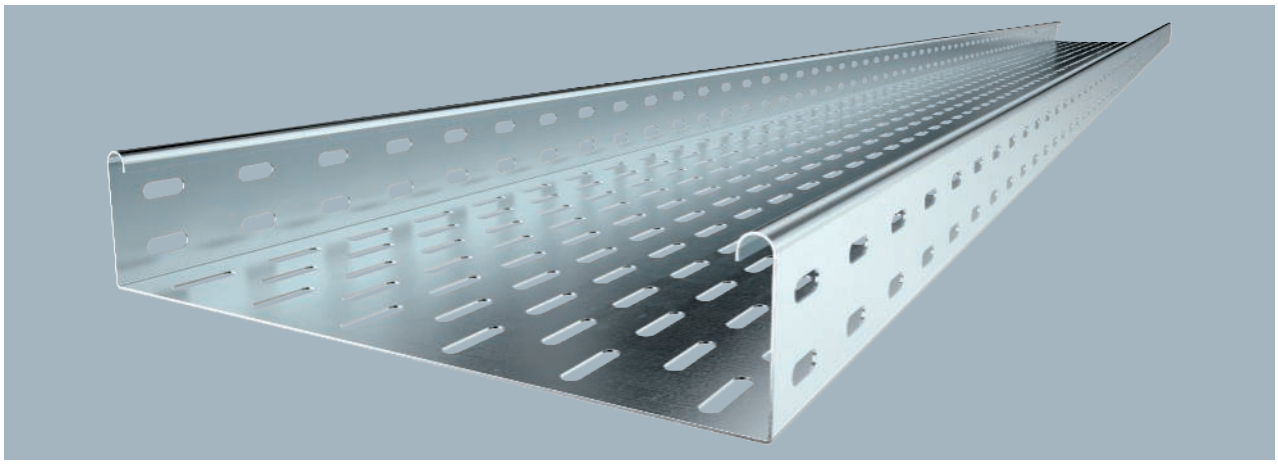
— Strut bend curve according to support width



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## Cable tray MKS 60

St FS



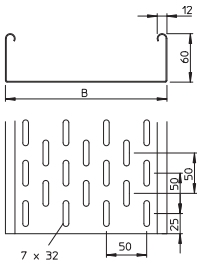
| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **MKS 610 FS** | 100 | 1.00 | | 3 | 173.000 | **6055109** |
| **MKS 615 FS** | 150 | 1.00 | | 3 | 214.000 | **6055141** |
| **MKS 620 FS** | 200 | 1.00 | | 3 | 246.700 | **6055206** |
| **MKS 630 FS** | 300 | 1.00 | | 3 | 312.667 | **6055303** |
| **MKS 640 FS** | 400 | 1.00 | | 3 | 380.000 | **6055400** |
| **MKS 650 FS** | 500 | 1.00 | | 3 | 447.334 | **6055508** |
| **MKS 660 FS** | 600 | 1.00 | | 3 | 513.334 | **6055524** |

Tested for installation above suspended fire protection ceilings (tray widths 100-400 mm, fire load 30 minutes, mounting work and parameters according to fire protection reports)

MKS 60 = medium-duty cable tray system with a side height of 60 mm. FS version includes RV 60 straight connector set.

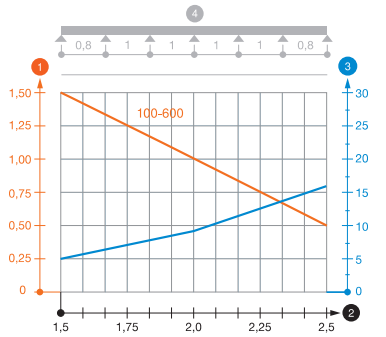
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKS 610 FS | 3000 | 100 | 58 |
| MKS 615 FS | 3000 | 150 | 88 |
| MKS 620 FS | 3000 | 200 | 118 |
| MKS 630 FS | 3000 | 300 | 178 |
| MKS 640 FS | 3000 | 400 | 238 |
| MKS 650 FS | 3000 | 500 | 298 |
| MKS 660 FS | 3000 | 600 | 358 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKS 610 FS** | 1.5 | 1 | 0.5 |
| **MKS 615 FS** | 1.5 | 1 | 0.5 |
| **MKS 620 FS** | 1.5 | 1 | 0.5 |
| **MKS 630 FS** | 1.5 | 1 | 0.5 |
| **MKS 640 FS** | 1.5 | 1 | 0.5 |
| **MKS 650 FS** | 1.5 | 1 | 0.5 |
| **MKS 660 FS** | 1.5 | 1 | 0.5 |

### Load




### Load diagram, cable tray, type MKS 60

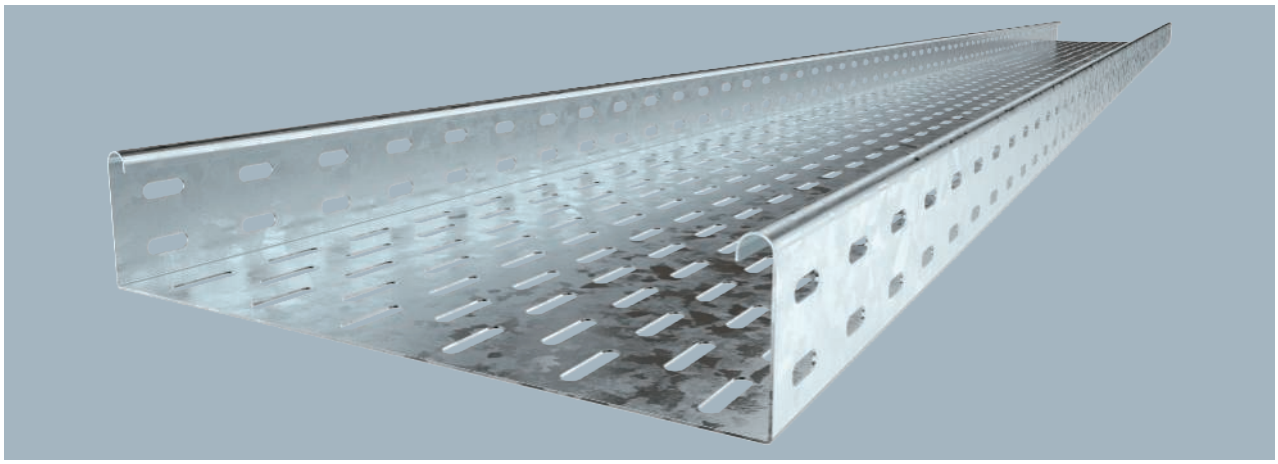
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

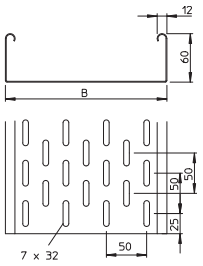
## Cable tray MKS 60



MKS 60 = Medium-duty cable tray system with a side height of 60 mm.

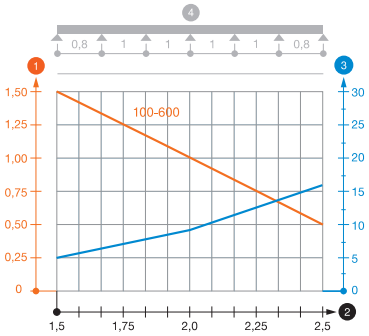
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKS 610 FT** | 100 | 1.00 | 3 | 190.100 | **6055532** |
| **MKS 615 FT** | 150 | 1.00 | 3 | 225.667 | **6055559** |
| **MKS 620 FT** | 200 | 1.00 | 3 | 263.234 | **6055575** |
| **MKS 630 FT** | 300 | 1.00 | 3 | 332.334 | **6055613** |
| **MKS 640 FT** | 400 | 1.00 | 3 | 403.334 | **6055664** |
| **MKS 650 FT** | 500 | 1.00 | 3 | 474.667 | **6055699** |
| **MKS 660 FT** | 600 | 1.00 | 3 | 545.670 | **6055710** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKS 610 FT | 3000 | 100 | 58 |
| MKS 615 FT | 3000 | 150 | 88 |
| MKS 620 FT | 3000 | 200 | 118 |
| MKS 630 FT | 3000 | 300 | 178 |
| MKS 640 FT | 3000 | 400 | 238 |
| MKS 650 FT | 3000 | 500 | 298 |
| MKS 660 FT | 3000 | 600 | 358 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKS 610 FT** | 1.5 | 1 | 0.5 |
| **MKS 615 FT** | 1.5 | 1 | 0.5 |
| **MKS 620 FT** | 1.5 | 1 | 0.5 |
| **MKS 630 FT** | 1.5 | 1 | 0.5 |
| **MKS 640 FT** | 1.5 | 1 | 0.5 |
| **MKS 650 FT** | 1.5 | 1 | 0.5 |
| **MKS 660 FT** | 1.5 | 1 | 0.5 |

**Load diagram, cable tray, type MKS 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

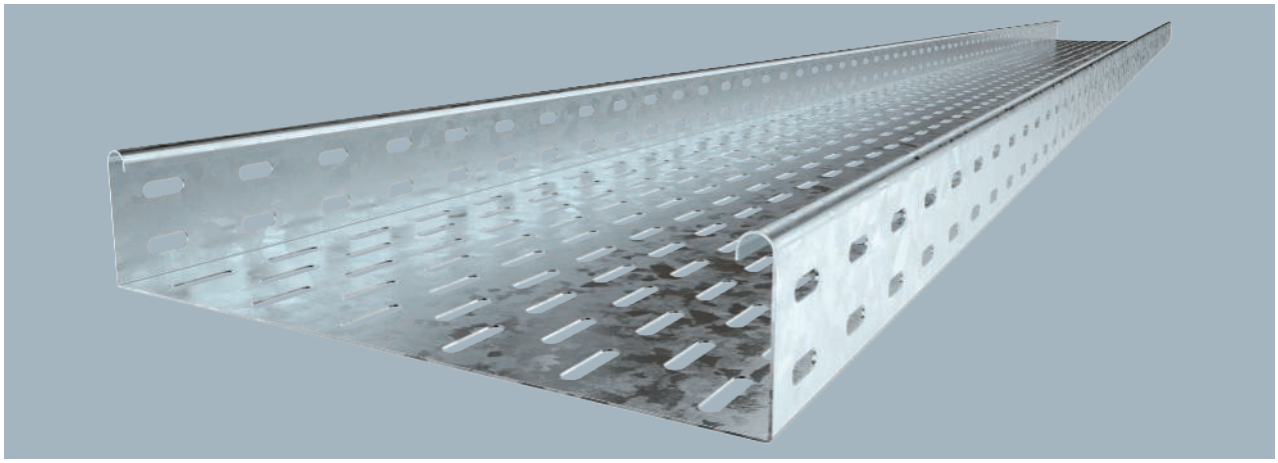


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Always indicate the item number when ordering.

## Cable tray MKS 60 FT SOMY

St FT SO

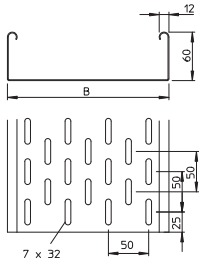


| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKS 610 FT SO** | 100 | 1.00 | 3 | 201.000 | **7190099** |
| **MKS 615 FT SO** | 150 | 1.00 | 3 | 239.000 | **7190101** |
| **MKS 620 FT SO** | 200 | 1.00 | 3 | 261.000 | **7190103** |
| **MKS 630 FT SO** | 300 | 1.00 | 6 | 351.667 | **7190107** |
| **MKS 640 FT SO** | 400 | 1.00 | 6 | 426.667 | **7190109** |
| **MKS 660 FT SO** | 600 | 1.00 | 6 | 577.340 | **7190111** |

MKS 60 = Medium-duty cable tray system with a side height of 60 mm.

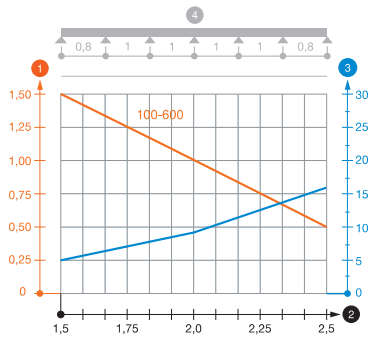
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKS 610 FT SO | 3000 | 100 | 58 |
| MKS 615 FT SO | 3000 | 150 | 88 |
| MKS 620 FT SO | 3000 | 200 | 118 |
| MKS 630 FT SO | 3000 | 300 | 178 |
| MKS 640 FT SO | 3000 | 400 | 238 |
| MKS 660 FT SO | 3000 | 500 | 298 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKS 610 FT SO** | 1.5 | 1 | 0.5 |
| **MKS 615 FT SO** | 1.5 | 1 | 0.5 |
| **MKS 620 FT SO** | 1.5 | 1 | 0.5 |
| **MKS 630 FT SO** | 1.5 | 1 | 0.5 |
| **MKS 640 FT SO** | 1.5 | 1 | 0.5 |
| **MKS 660 FT SO** | 1.5 | 1 | 0.5 |

### Load




**Load diagram, cable tray, type MKS 60**

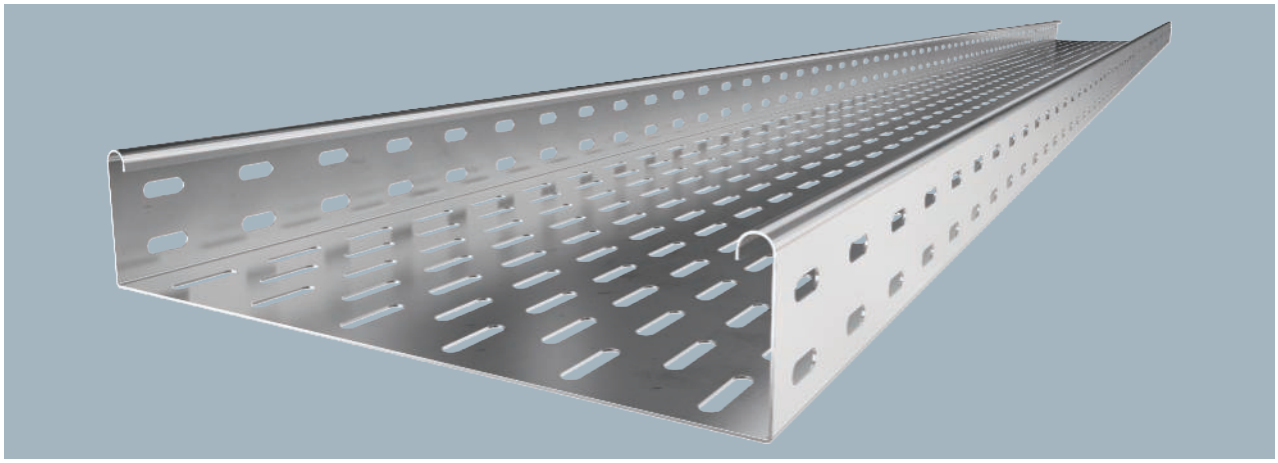
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

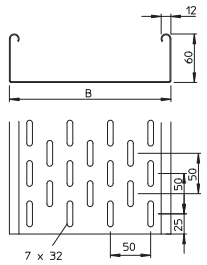
## Cable tray MKS 60



Connecting parts should be ordered in the appropriate quantity.
MKS 60 = Medium-duty cable tray system with a side height of 60 mm.

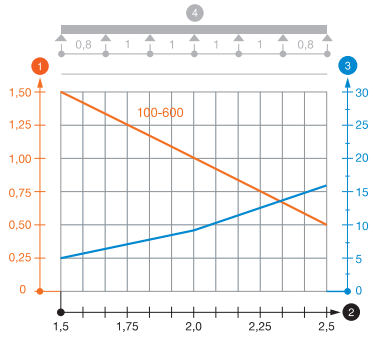
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKS 610 A2** | 100 | 1.00 | 3 | 174.200 | **6056016** |
| **MKS 620 A2** | 200 | 1.00 | 3 | 239.400 | **6056024** |
| **MKS 630 A2** | 300 | 1.00 | 3 | 304.667 | **6056040** |
| **MKS 640 A2** | 400 | 1.00 | 3 | 370.000 | **6056059** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKS 610 A2 | 3000 | 100 | 58 |
| MKS 620 A2 | 3000 | 200 | 118 |
| MKS 630 A2 | 3000 | 300 | 178 |
| MKS 640 A2 | 3000 | 400 | 238 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKS 610 A2** | 1.5 | 1 | 0.5 |
| **MKS 620 A2** | 1.5 | 1 | 0.5 |
| **MKS 630 A2** | 1.5 | 1 | 0.5 |
| **MKS 640 A2** | 1.5 | 1 | 0.5 |

**Load diagram, cable tray MKS 60 VA**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.



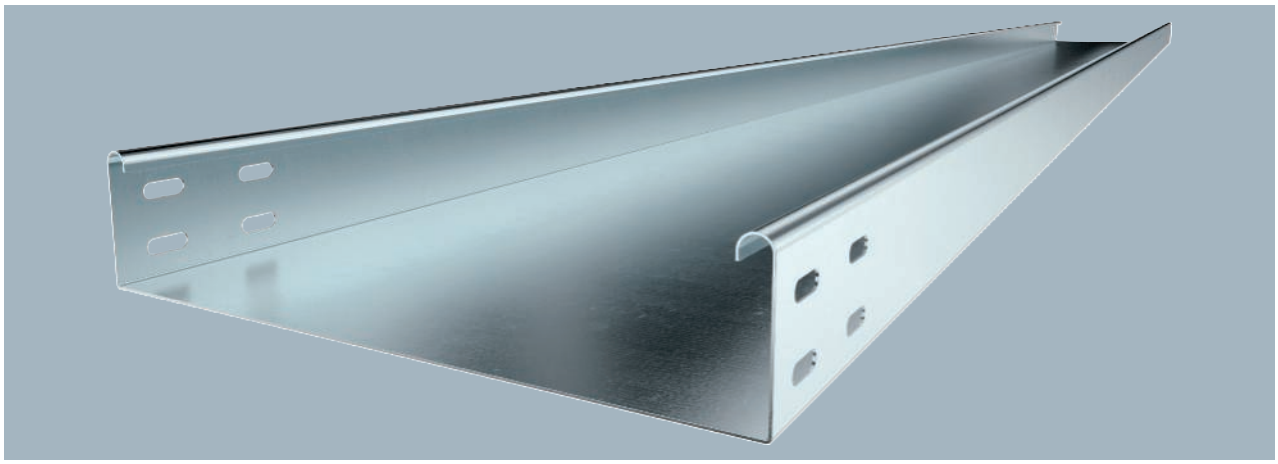


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# Cable trays, side height 60

## Cable tray MKSU 60

St FS



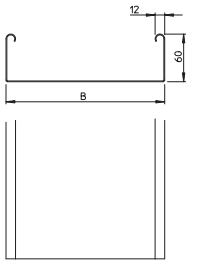
| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **MKSU 610 FS** | 100 | 1.00 | | 3 | 189.000 | **6063160** |
| **MKSU 615 FS** | 150 | 1.00 | | 3 | 229.300 | **6063179** |
| **MKSU 620 FS** | 200 | 1.00 | | 3 | 266.700 | **6063187** |
| **MKSU 630 FS** | 300 | 1.00 | | 3 | 347.000 | **6063209** |
| **MKSU 640 FS** | 400 | 1.00 | | 3 | 426.000 | **6063225** |

The cable tray has connector perforations on both sides.

MKSU 60 = medium-duty cable tray system, unperforated, with a side height of 60 mm. Straight connectors should be ordered in the appropriate quantity.

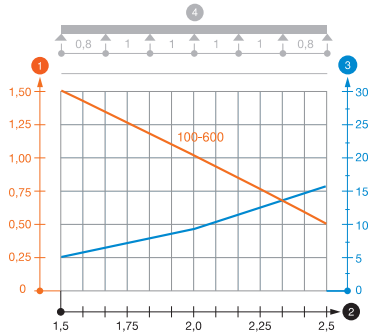
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKSU 610 FS | 3000 | 100 | 58 |
| MKSU 615 FS | 3000 | 150 | 88 |
| MKSU 620 FS | 3000 | 200 | 118 |
| MKSU 630 FS | 3000 | 300 | 178 |
| MKSU 640 FS | 3000 | 400 | 238 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKSU 610 FS** | 1.5 | 1 | 0.5 |
| **MKSU 615 FS** | 1.5 | 1 | 0.5 |
| **MKSU 620 FS** | 1.5 | 1 | 0.5 |
| **MKSU 630 FS** | 1.5 | 1 | 0.5 |
| **MKSU 640 FS** | 1.5 | 1 | 0.5 |

### Load




**Load diagram, cable tray, type MKSU 60**

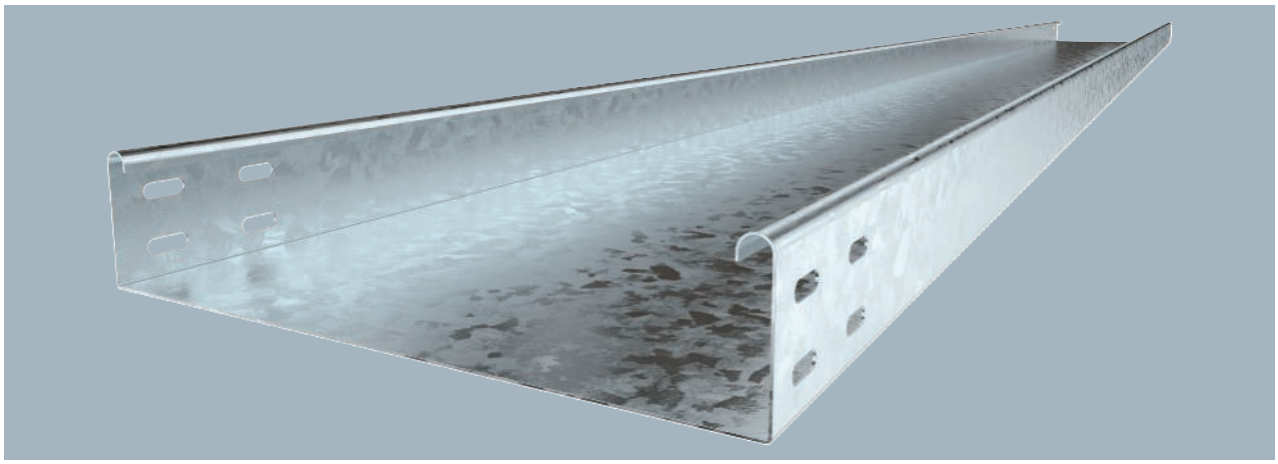
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

## Cable tray MKSU 60

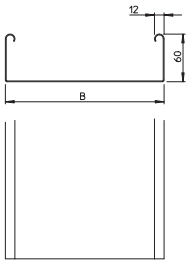


The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

MKSU 60 = Medium duty cable tray system, unperforated, with a side height of 60 mm.

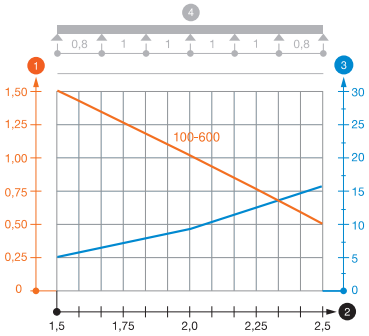
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKSU 610 FT** | 100 | 1.00 | 3 | 209.000 | **6064302** |
| **MKSU 615 FT** | 150 | 1.00 | 3 | 250.000 | **6064319** |
| **MKSU 620 FT** | 200 | 1.00 | 3 | 290.000 | **6064345** |
| **MKSU 630 FT** | 300 | 1.00 | 3 | 378.000 | **6064396** |
| **MKSU 640 FT** | 400 | 1.00 | 3 | 464.000 | **6064426** |

### Dimensions




| Type | Length mm | Width mm | Usable cross-section cm² |
|---|---|---|---|
| MKSU 610 FT | 3000 | 100 | 58 |
| MKSU 615 FT | 3000 | 150 | 88 |
| MKSU 620 FT | 3000 | 200 | 118 |
| MKSU 630 FT | 3000 | 300 | 178 |
| MKSU 640 FT | 3000 | 400 | 238 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKSU 610 FT** | 1.5 | 1 | 0.5 |
| **MKSU 615 FT** | 1.5 | 1 | 0.5 |
| **MKSU 620 FT** | 1.5 | 1 | 0.5 |
| **MKSU 630 FT** | 1.5 | 1 | 0.5 |
| **MKSU 640 FT** | 1.5 | 1 | 0.5 |

**Load diagram, cable tray, type MKSU 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

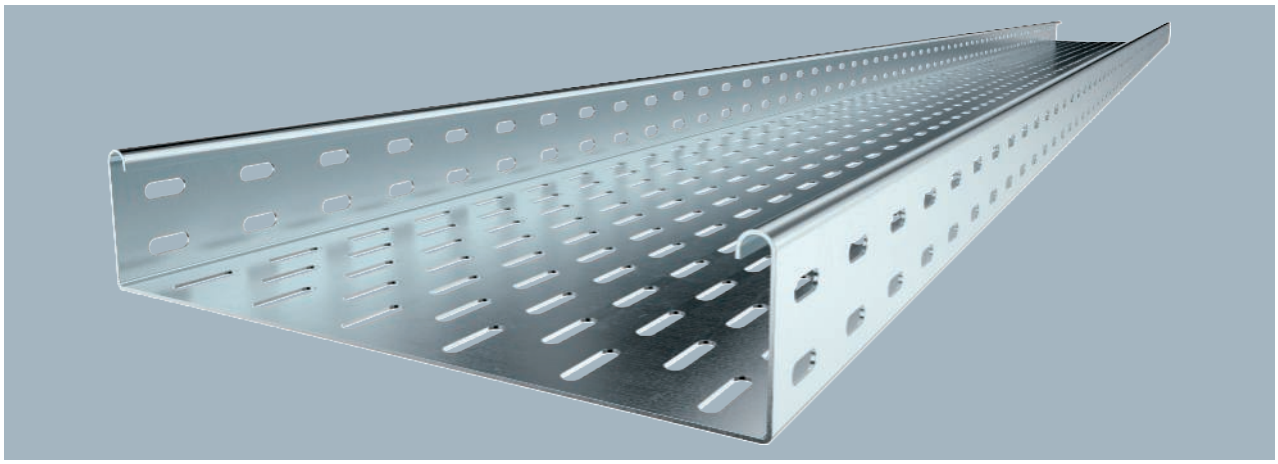




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## Cable tray SKS 60

St FS



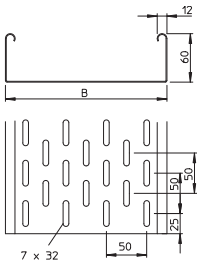
| Type | Width mm | Metal thick-ness mm | BS | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **SKS 610 FS** | 100 | 1.50 | | | 3 | 239.400 | **6056105** |
| **SKS 615 FS** | 150 | 1.50 | | | 3 | 316.670 | **6056156** |
| **SKS 620 FS** | 200 | 1.50 | | | 3 | 364.000 | **6056202** |
| **SKS 630 FS** | 300 | 1.50 | | | 3 | 463.670 | **6056296** |
| **SKS 640 FS** | 400 | 1.50 | | | 3 | 564.340 | **6056407** |
| **SKS 650 FS** | 500 | 1.50 | | | 3 | 663.340 | **6056504** |
| **SKS 660 FS** | 600 | 1.50 | | | 3 | 762.340 | **6056601** |

The cable tray, type SKS, should also be used for the maintenance of electrical function. For additional data, please refer to BSS fire protection systems.

SKS 60 = heavy-duty cable tray system with 60 mm side height.

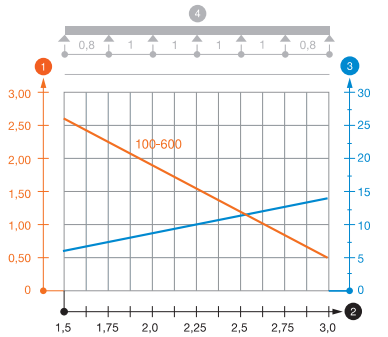
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKS 610 FS | 3000 | 100 | 58 |
| SKS 615 FS | 3000 | 150 | 88 |
| SKS 620 FS | 3000 | 200 | 118 |
| SKS 630 FS | 3000 | 300 | 178 |
| SKS 640 FS | 3000 | 400 | 238 |
| SKS 650 FS | 3000 | 500 | 298 |
| SKS 660 FS | 3000 | 600 | 358 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SKS 610 FS** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 615 FS** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 620 FS** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 630 FS** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 640 FS** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 650 FS** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 660 FS** | 2.65 | 1.8 | 1.15 | 0.5 |

### Load




### Load diagram, cable tray, type SKS 60

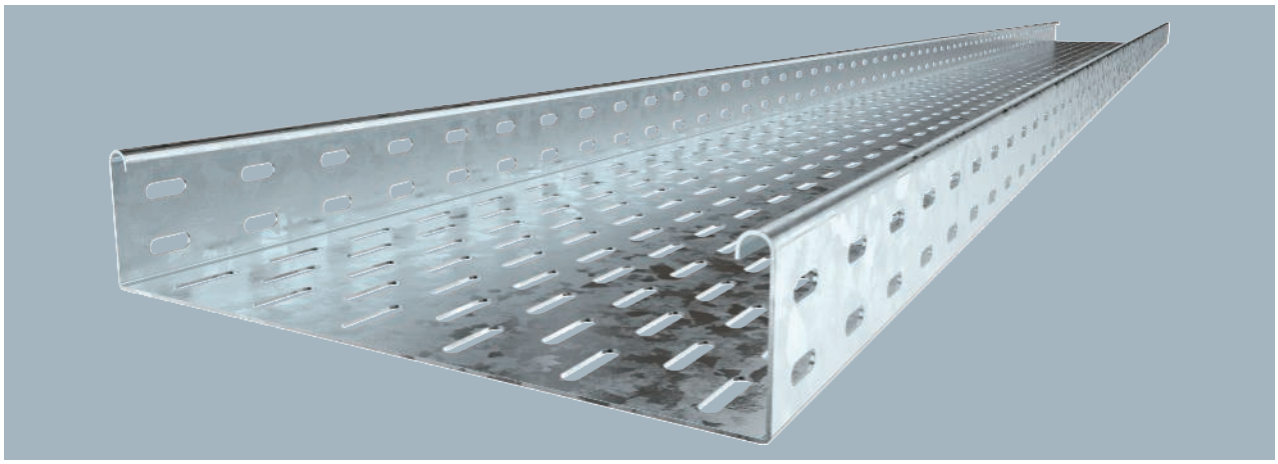
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

## Cable tray SKS 60

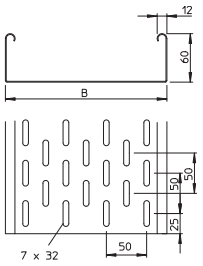


The cable tray, type SKS, should also be used for the maintenance of electrical function. For additional data, please refer to BSS fire protection systems.

SKS 60 = Heavy-duty cable tray system with 60 mm side height.

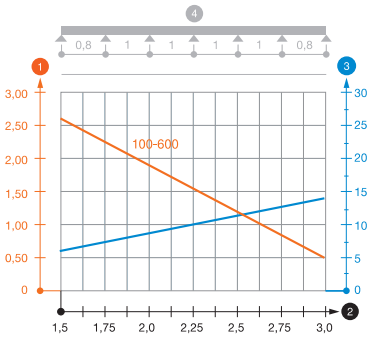
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKS 610 FT** | 100 | 1.50 | 3 | 277.000 | **6056636** |
| **SKS 615 FT** | 150 | 1.50 | 3 | 328.700 | **6056644** |
| **SKS 620 FT** | 200 | 1.50 | 3 | 380.000 | **6056652** |
| **SKS 630 FT** | 300 | 1.50 | 3 | 485.670 | **6056679** |
| **SKS 640 FT** | 400 | 1.50 | 3 | 590.340 | **6056695** |
| **SKS 650 FT** | 500 | 1.50 | 3 | 694.670 | **6056717** |
| **SKS 660 FT** | 600 | 1.50 | 3 | 799.000 | **6056733** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKS 610 FT | 3000 | 100 | 58 |
| SKS 615 FT | 3000 | 150 | 88 |
| SKS 620 FT | 3000 | 200 | 118 |
| SKS 630 FT | 3000 | 300 | 178 |
| SKS 640 FT | 3000 | 400 | 238 |
| SKS 650 FT | 3000 | 500 | 298 |
| SKS 660 FT | 3000 | 600 | 358 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SKS 610 FT** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 615 FT** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 620 FT** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 630 FT** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 640 FT** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 650 FT** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 660 FT** | 2.65 | 1.8 | 1.15 | 0.5 |

**Load diagram, cable tray, type SKS 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

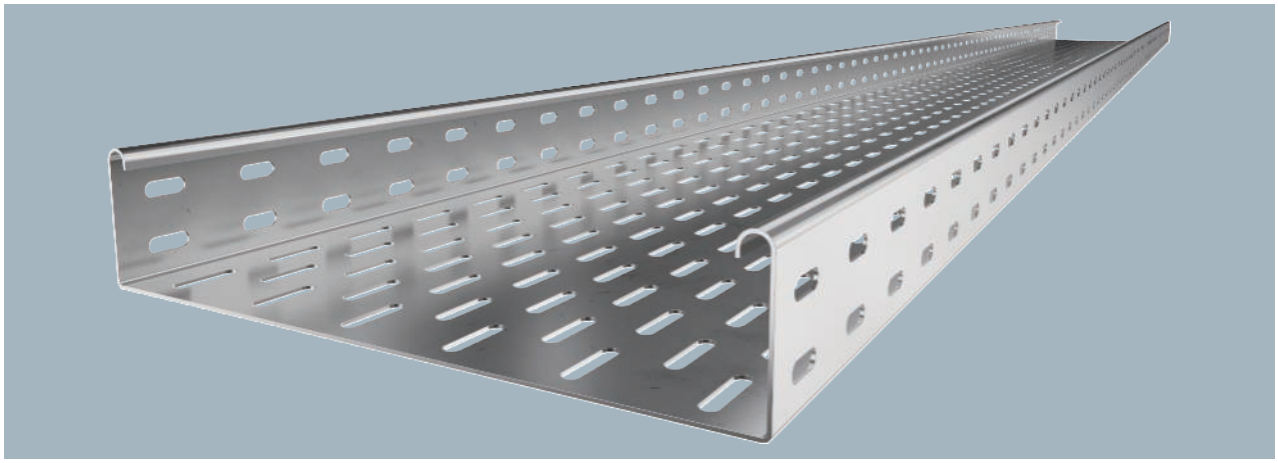


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Always indicate the item number when ordering.

## Cable tray SKS 60

A4 2B



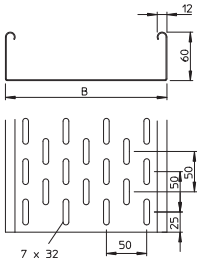
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKS 610 A4** | 100 | 1.50 | 3 | 260.000 | **6056750** |
| **SKS 620 A4** | 200 | 1.50 | 3 | 356.667 | **6056755** |
| **SKS 630 A4** | 300 | 1.50 | 3 | 455.333 | **6056757** |
| **SKS 640 A4** | 400 | 1.50 | 3 | 553.667 | **6056759** |
| **SKS 650 A4** | 500 | 1.50 | 3 | 651.333 | **6056761** |
| **SKS 660 A4** | 600 | 1.50 | 3 | 749.333 | **6056763** |

The cable tray, type SKS, should also be used for maintenance of electrical function. For additional data, please refer to BSS fire protection systems. The cable tray is fastened to the bracket with bolts, type FRS M6 x 12.

SKS 60 = Heavy-duty cable tray system with 60 mm side height.

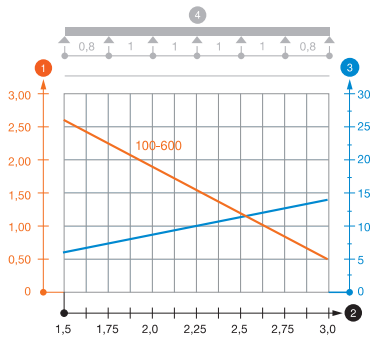
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKS 610 A4 | 3000 | 100 | 58 |
| SKS 620 A4 | 3000 | 200 | 118 |
| SKS 630 A4 | 3000 | 300 | 178 |
| SKS 640 A4 | 3000 | 400 | 238 |
| SKS 650 A4 | 3000 | 500 | 298 |
| SKS 660 A4 | 3000 | 600 | 358 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SKS 610 A4** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 620 A4** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 630 A4** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 640 A4** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 650 A4** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 660 A4** | 2.65 | 1.8 | 1.15 | 0.5 |

### Load




### Load diagram, cable tray SKS 60 VA

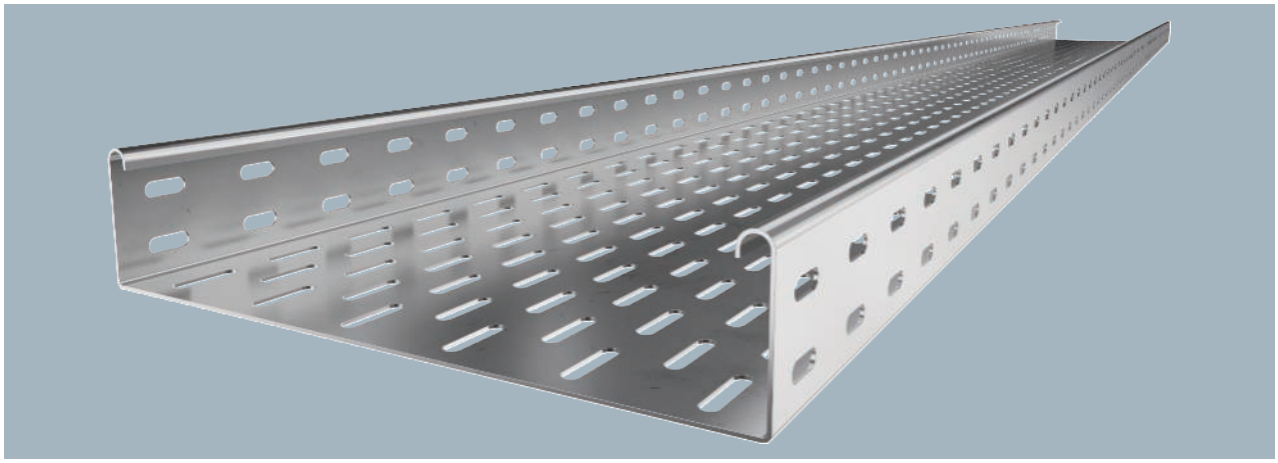
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

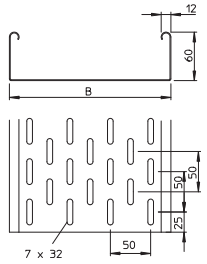
## Cable tray SKS 60



Connecting parts should be ordered in the appropriate quantity.
SKS 60 = heavy-duty cable tray system with 60 mm side height.

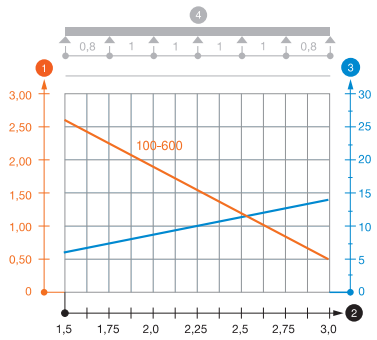
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKS 610 A2** | 100 | 1.50 | 3 | 260.000 | **6056735** |
| **SKS 620 A2** | 200 | 1.50 | 3 | 356.667 | **6056737** |
| **SKS 630 A2** | 300 | 1.50 | 3 | 455.333 | **6056739** |
| **SKS 640 A2** | 400 | 1.50 | 3 | 553.667 | **6056742** |
| **SKS 650 A2** | 500 | 1.50 | 3 | 651.333 | **6056744** |
| **SKS 660 A2** | 600 | 1.50 | 3 | 749.333 | **6056746** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKS 610 A2 | 3000 | 100 | 58 |
| SKS 620 A2 | 3000 | 200 | 118 |
| SKS 630 A2 | 3000 | 300 | 178 |
| SKS 640 A2 | 3000 | 400 | 238 |
| SKS 650 A2 | 3000 | 500 | 298 |
| SKS 660 A2 | 3000 | 600 | 358 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SKS 610 A2** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 620 A2** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 630 A2** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 640 A2** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 650 A2** | 2.65 | 1.8 | 1.15 | 0.5 |
| **SKS 660 A2** | 2.65 | 1.8 | 1.15 | 0.5 |

**Load diagram, cable tray, type SKS 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

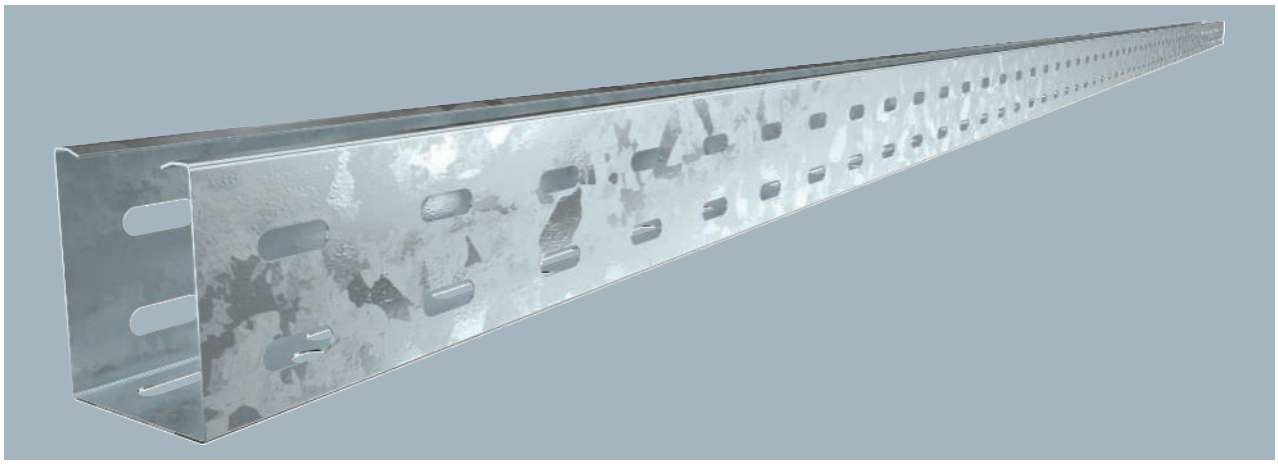


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## Cable tray SKS 605

St FT

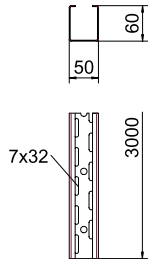
CE



| Type | Side height mm | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **SKS 605 FT** | 60 | 50 | 1.50 | | 3 | 203.900 | **6056634** |

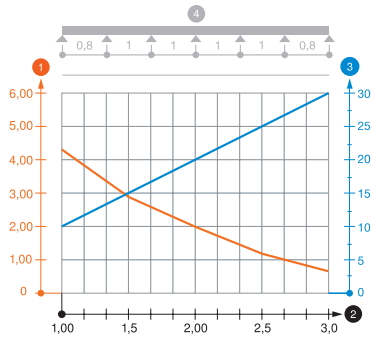
SKS 60 = Heavy-duty cable tray system with 60 mm side height.
Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.
Matching cover with turn buckle: Type AZDMD 50
Additional fastening material not included.

### Dimensions




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|---|
| **SKS 605 FT** | 4.3 | 2.8 | 2 | 1.1 | 0.7 |

### Load



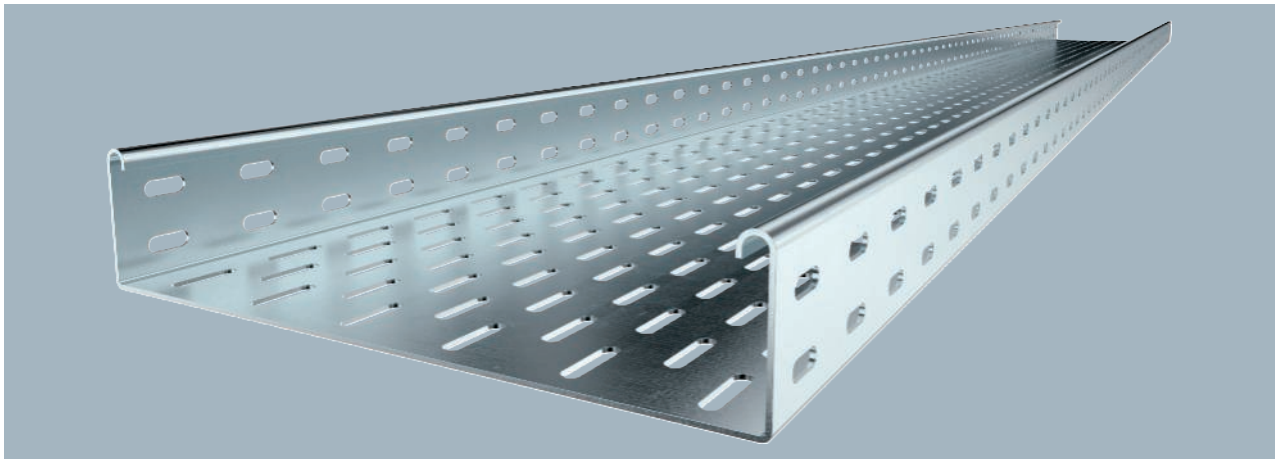

**Load diagram, cable tray, type SKS 605**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FS

## Cable tray EKS 60

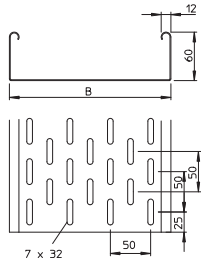


Straight connectors should be ordered separately for all the versions.

EKS 60 = extra-heavy cable tray system with 60 mm side height.

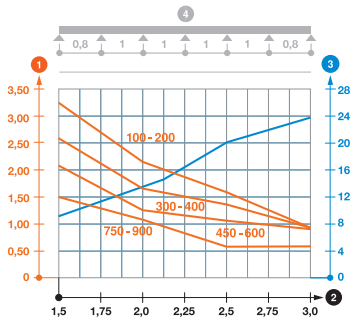
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **EKS 610 FS** | 100 | 2.00 | 3 | 341.340 | **6056148** |
| **EKS 620 FS** | 200 | 2.00 | 3 | 471.670 | **6056229** |
| **EKS 630 FS** | 300 | 2.00 | 3 | 602.000 | **6056326** |
| **EKS 640 FS** | 400 | 2.00 | 3 | 732.670 | **6056423** |
| **EKS 650 FS** | 500 | 2.00 | 3 | 863.000 | **6056520** |
| **EKS 660 FS** | 600 | 2.00 | 3 | 993.340 | **6056628** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| EKS 610 FS | 3000 | 100 | 58 |
| EKS 620 FS | 3000 | 200 | 118 |
| EKS 630 FS | 3000 | 300 | 178 |
| EKS 640 FS | 3000 | 400 | 238 |
| EKS 650 FS | 3000 | 500 | 298 |
| EKS 660 FS | 3000 | 600 | 358 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **EKS 610 FS** | 3.3 | 2.2 | 1.6 | 0.95 |
| **EKS 620 FS** | 3.3 | 2.2 | 1.6 | 0.95 |
| **EKS 630 FS** | 2.6 | 1.7 | 1.4 | 0.95 |
| **EKS 640 FS** | 2.6 | 1.7 | 1.4 | 0.95 |
| **EKS 650 FS** | 2.1 | 1.35 | 1.15 | 0.9 |
| **EKS 660 FS** | 2.1 | 1.35 | 1.15 | 0.9 |

**Load diagram, cable tray, type EKS 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

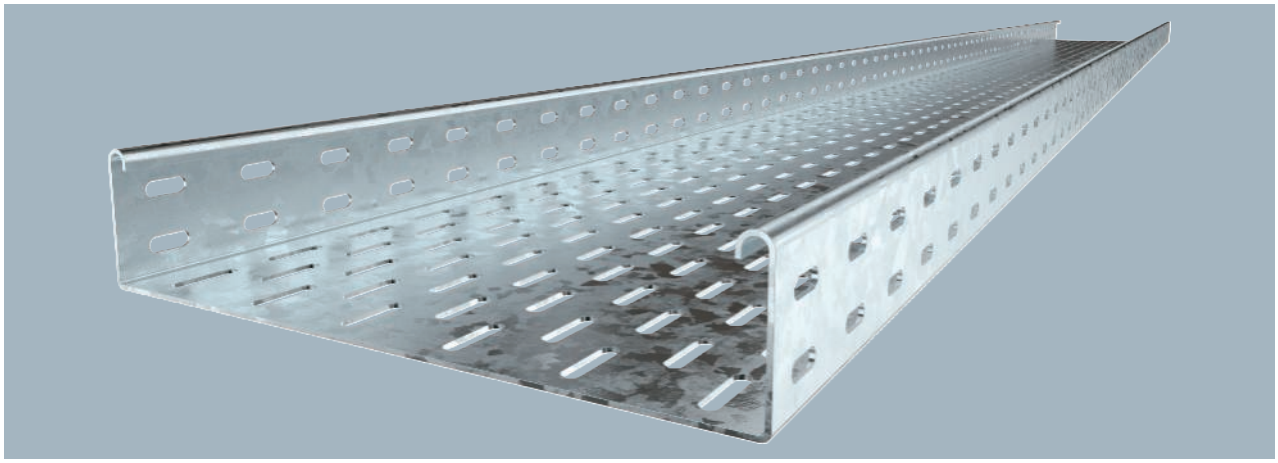


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# Cable trays, side height 60

## Cable tray EKS 60

St FT



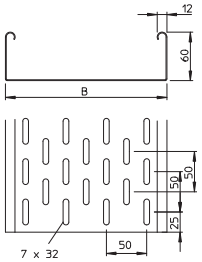
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **EKS 610 FT** | 100 | 2.00 | 3 | 358.340 | **6056776** |
| **EKS 620 FT** | 200 | 2.00 | 3 | 493.000 | **6056792** |
| **EKS 630 FT** | 300 | 2.00 | 3 | 629.340 | **6056806** |
| **EKS 640 FT** | 400 | 2.00 | 3 | 765.670 | **6056970** |
| **EKS 650 FT** | 500 | 2.00 | 3 | 902.000 | **6056989** |
| **EKS 660 FT** | 600 | 2.00 | 3 | 1,038.340 | **6056997** |

Straight connectors should be ordered separately for all the versions.

EKS 60 = Extra-heavy cable tray system with 60 mm side height.

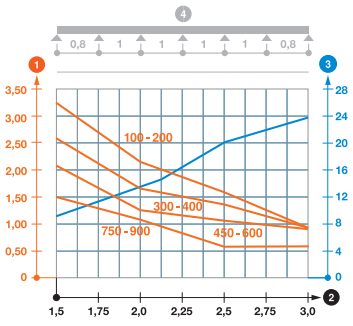
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| EKS 610 FT | 3000 | 100 | 58 |
| EKS 620 FT | 3000 | 200 | 118 |
| EKS 630 FT | 3000 | 300 | 178 |
| EKS 640 FT | 3000 | 400 | 238 |
| EKS 650 FT | 3000 | 500 | 298 |
| EKS 660 FT | 3000 | 600 | 358 |

### Dimensions




| Type | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **EKS 610 FT** | 3.3 | 2.2 | 1.6 | 0.95 |
| **EKS 620 FT** | 3.3 | 2.2 | 1.6 | 0.95 |
| **EKS 630 FT** | 2.6 | 1.7 | 1.4 | 0.95 |
| **EKS 640 FT** | 2.6 | 1.7 | 1.4 | 0.95 |
| **EKS 650 FT** | 2.1 | 1.35 | 1.15 | 0.9 |
| **EKS 660 FT** | 2.1 | 1.35 | 1.15 | 0.9 |

### Load




**Load diagram, cable tray, type EKS 60**

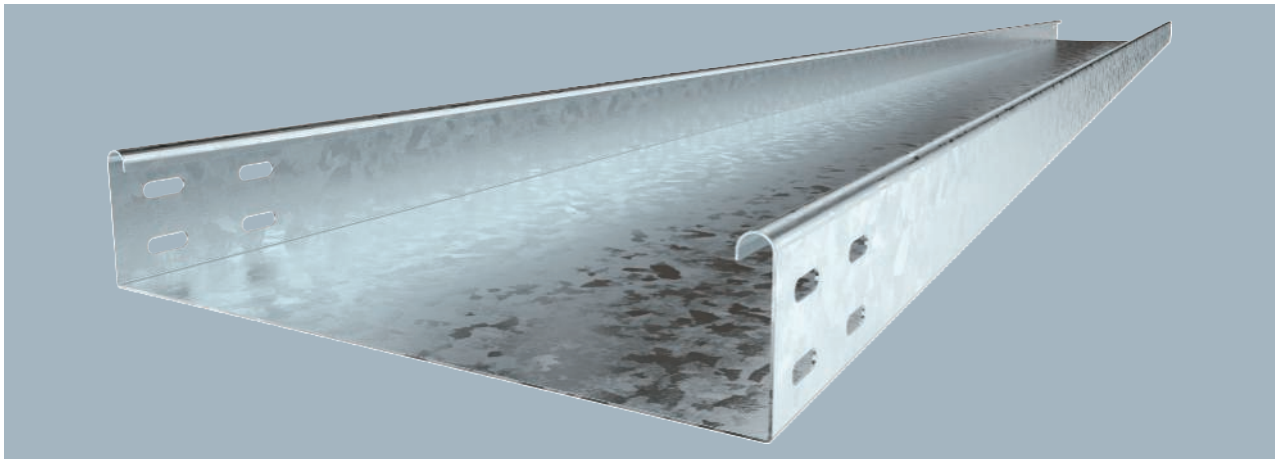
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT SO

## Cable tray EKSU 60 FT SOMY

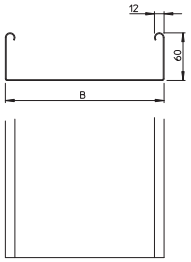


Straight connectors should be ordered separately for all the versions.

EKS 60 = extra-heavy cable tray system with 60 mm side height.

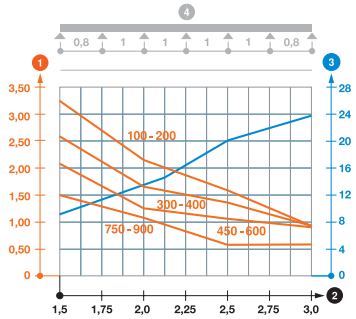
| Type | Width mm | Metal thickness mm | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **EKSU 620 FT SO** | 200 | 2.00 | 575.000 | **7189980** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| EKSU 620 FT SO | 3000 | 200 | 118 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **EKSU 620 FT SO** | 3.3 | 2.2 | 1.6 | 0.95 |

**Load diagram, cable tray, type EKSU 60**

- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 1 Permitted cable tray/ladder load in kN/m without man load
- — Load curve with cable tray/ladder width in mm
- — Strut bend curve according to support width
- 4 Load scheme during testing

Always indicate the item number when ordering.





Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Cable trays, side height 60

## Cable tray SKSU 60

St FS



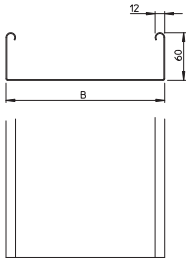
| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SKSU 610 FS** | 100 | 1.50 | | 3 | 286.000 | **6063234** |
| **SKSU 620 FS** | 200 | 1.50 | | 3 | 399.670 | **6063236** |
| **SKSU 630 FS** | 300 | 1.50 | | 3 | 516.000 | **6063238** |
| **SKSU 640 FS** | 400 | 1.50 | | 3 | 639.000 | **6063950** |
| **SKSU 650 FS** | 500 | 1.50 | | 3 | 756.670 | **6063241** |
| **SKSU 660 FS** | 600 | 1.50 | | 3 | 877.000 | **6063276** |

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

SKS 60 = heavy-duty cable tray system, unperforated, with 60 mm side height.

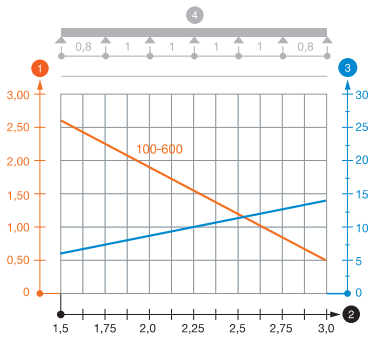
| Type | Length mm | Dim. B mm | Usable cross-section $cm^2$ |
|---|---|---|---|
| SKSU 610 FS | 3000 | 100 | 58 |
| SKSU 620 FS | 3000 | 200 | 118 |
| SKSU 630 FS | 3000 | 300 | 178 |
| SKSU 640 FS | 3000 | 400 | 238 |
| SKSU 650 FS | 3000 | 500 | 298 |
| SKSU 660 FS | 3000 | 600 | 358 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SKSU 610 FS** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSU 620 FS** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSU 630 FS** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSU 640 FS** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSU 650 FS** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSU 660 FS** | 2.6 | 1.9 | 1.1 | 0.55 |

### Load




### Load diagram, cable tray, type SKSU 60

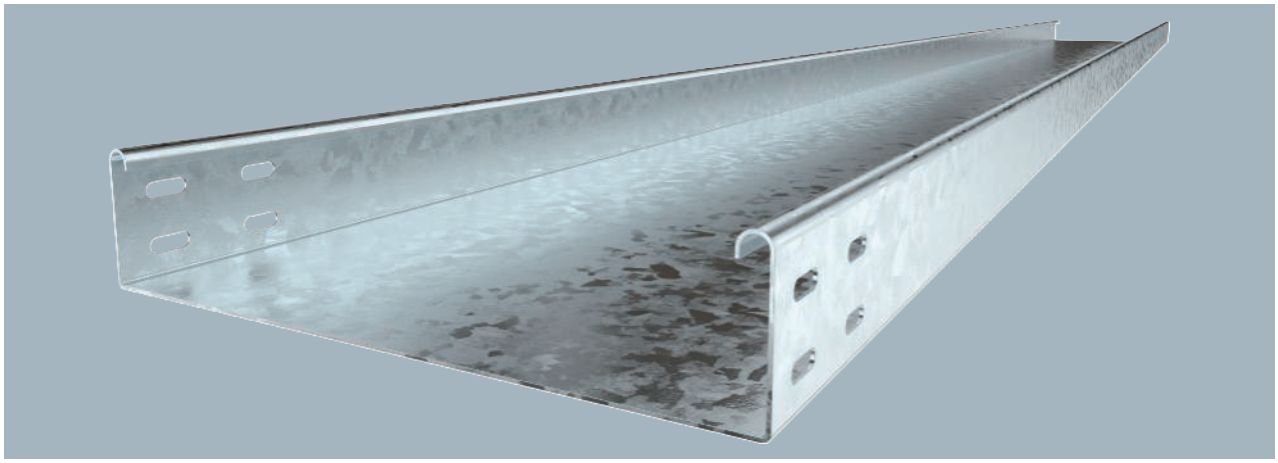
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

## Cable tray SKSU 60

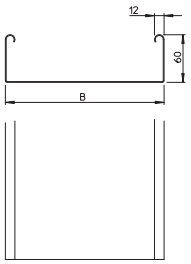


The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

SKS 60 = heavy-duty cable tray system, unperforated, with 60 mm side height.

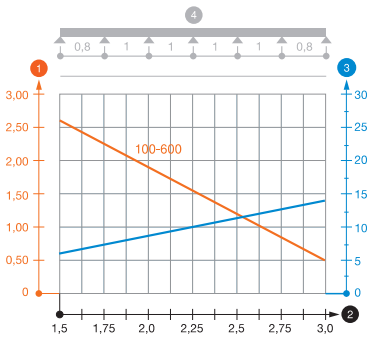
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKSU 610 FT** | 100 | 1.50 | 3 | 302.670 | **6064307** |
| **SKSU 620 FT** | 200 | 1.50 | 3 | 427.340 | **6064353** |
| **SKSU 630 FT** | 300 | 1.50 | 3 | 554.670 | **6064409** |
| **SKSU 640 FT** | 400 | 1.50 | 3 | 687.000 | **6064435** |
| **SKSU 650 FT** | 500 | 1.50 | 3 | 802.000 | **6064515** |
| **SKSU 660 FT** | 600 | 1.50 | 3 | 929.670 | **6064523** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKSU 610 FT | 3000 | 100 | 58 |
| SKSU 620 FT | 3000 | 200 | 118 |
| SKSU 630 FT | 3000 | 300 | 178 |
| SKSU 640 FT | 3000 | 400 | 238 |
| SKSU 650 FT | 3000 | 500 | 298 |
| SKSU 660 FT | 3000 | 600 | 358 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SKSU 610 FT** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSU 620 FT** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSU 630 FT** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSU 640 FT** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSU 650 FT** | 2.6 | 1.9 | 1.1 | 0.55 |
| **SKSU 660 FT** | 2.6 | 1.9 | 1.1 | 0.55 |

**Load diagram, cable tray, type SKSU 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

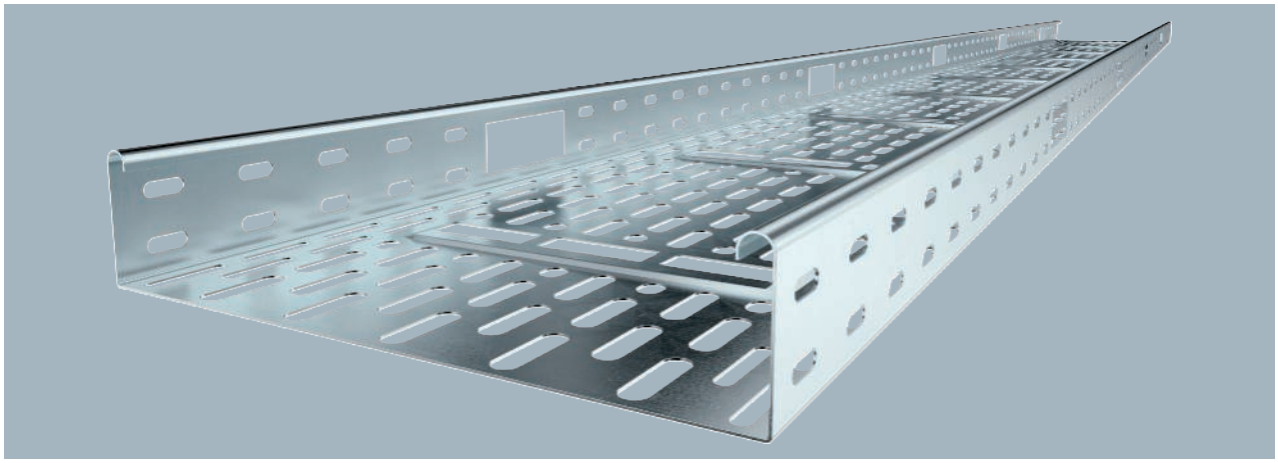
— Strut bend curve according to support width



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## Cable tray IKS 60

St FS

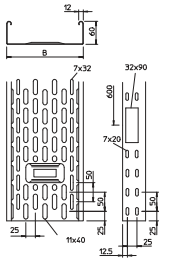


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **IKS 610 FS** | 100 | 1.00 | | 3 | 155.340 | **6087116** |
| **IKS 620 FS** | 200 | 1.00 | | 3 | 212.000 | **6087132** |
| **IKS 630 FS** | 300 | 1.00 | | 3 | 260.721 | **6087140** |
| **IKS 640 FS** | 400 | 1.50 | | 3 | 485.140 | **6087159** |

Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm. Offset side holes every 300 mm.
Connecting parts should be ordered in the appropriate quantity.
IKS 60 = installation cable tray system with 60 mm side height.

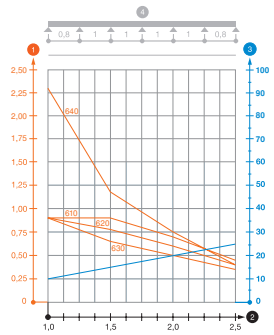
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| IKS 610 FS | 3000 | 100 | 58 |
| IKS 620 FS | 3000 | 200 | 118 |
| IKS 630 FS | 3000 | 300 | 178 |
| IKS 640 FS | 3000 | 400 | 238 |

### Dimensions




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|---|
| **IKS 610 FS** | 0.9 | 0.9 | 0.7 | 0.45 |
| **IKS 620 FS** | 0.9 | 0.77 | 0.6 | 0.4 |
| **IKS 630 FS** | 0.9 | 0.65 | 0.5 | 0.35 |
| **IKS 640 FS** | 2.3 | 1.17 | 0.75 | 0.4 |

### Load




**Load diagram, cable tray, type IKS 60**

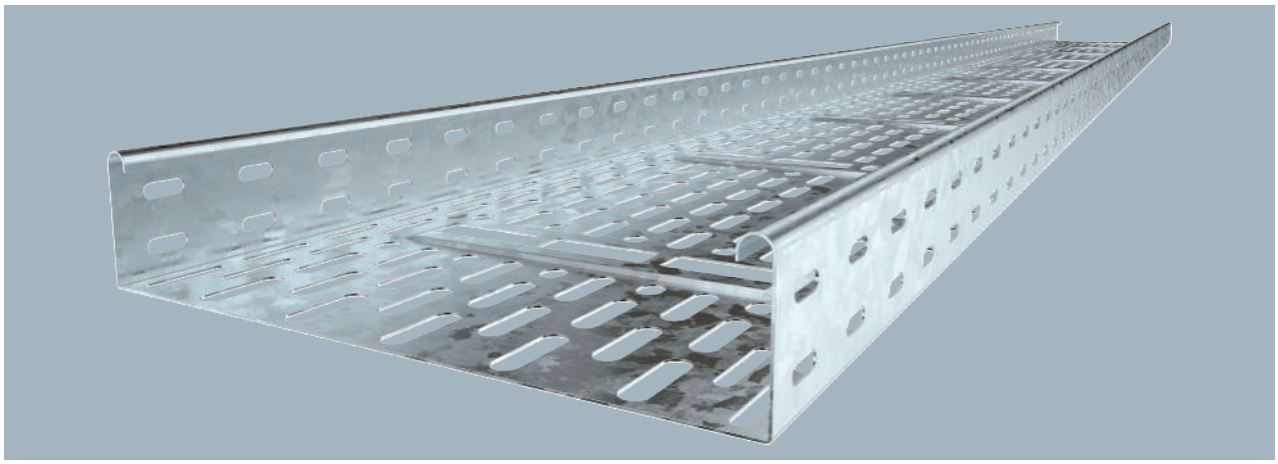
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

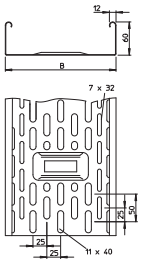
## Cable tray DKS 60



Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.
DKS 60 = perforated cable tray system with 60 mm side height.

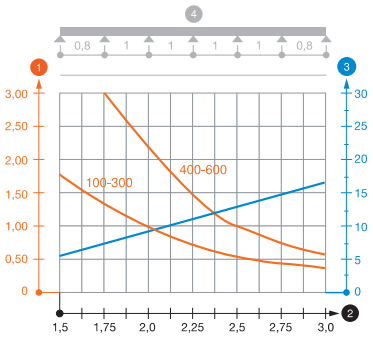
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **DKS 610 FT** | 100 | 1.00 | 3 | 175.667 | **6085326** |
| **DKS 620 FT** | 200 | 1.00 | 3 | 237.334 | **6085342** |
| **DKS 630 FT** | 300 | 1.00 | 3 | 295.000 | **6085369** |
| **DKS 640 FT** | 400 | 1.50 | 3 | 523.000 | **6085512** |
| **DKS 650 FT** | 500 | 1.50 | 3 | 607.000 | **6085539** |
| **DKS 660 FT** | 600 | 1.50 | 3 | 690.667 | **6085555** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| DKS 610 FT | 3000 | 100 | 58 |
| DKS 620 FT | 3000 | 200 | 118 |
| DKS 630 FT | 3000 | 300 | 178 |
| DKS 640 FT | 3000 | 400 | 238 |
| DKS 650 FT | 3000 | 500 | 298 |
| DKS 660 FT | 3000 | 600 | 358 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **DKS 610 FT** | 1.75 | 0.95 | 0.5 | 0.4 |
| **DKS 620 FT** | 1.75 | 0.95 | 0.5 | 0.4 |
| **DKS 630 FT** | 1.75 | 0.95 | 0.5 | 0.4 |
| **DKS 640 FT** | 3 | 2.25 | 1 | 0.65 |
| **DKS 650 FT** | 3 | 2.25 | 1 | 0.65 |
| **DKS 660 FT** | 3 | 2.25 | 1 | 0.65 |

**Load diagram, cable tray, type DKS 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.

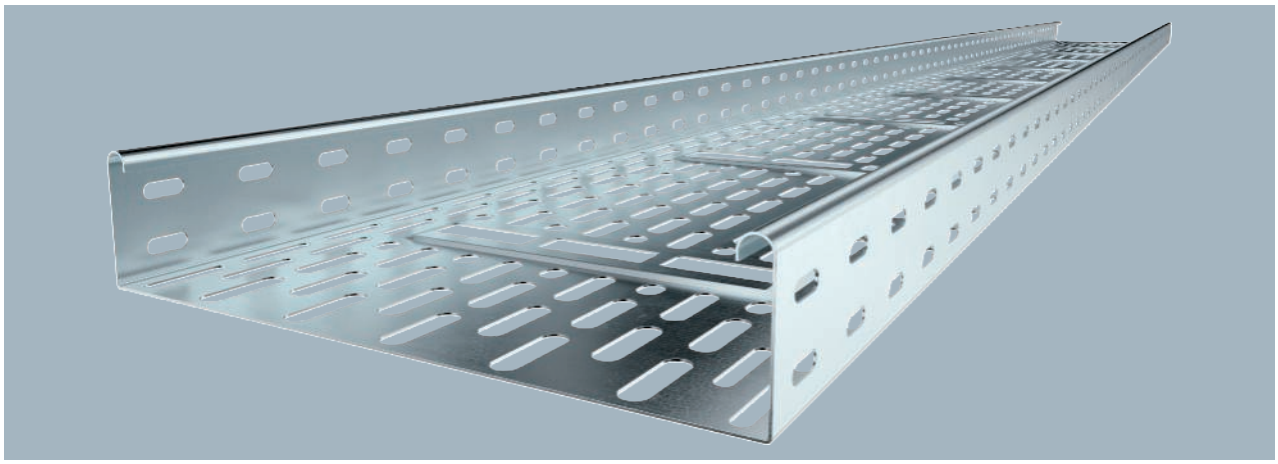




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## Cable tray DKS 60

St FS

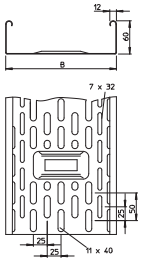


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DKS 610 FS** | 100 | 1.00 | | 3 | 161.000 | **6085016** |
| **DKS 620 FS** | 200 | 1.00 | | 3 | 217.677 | **6085032** |
| **DKS 630 FS** | 300 | 1.00 | | 3 | 270.667 | **6085059** |
| **DKS 660 FS** | 600 | 1.50 | | 3 | 651.334 | **6085245** |

Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.
DKS 60 = perforated cable tray system with 60 mm side height.

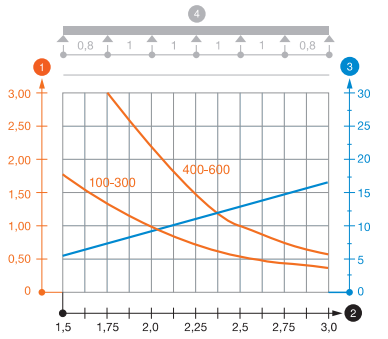
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| DKS 610 FS | 3000 | 100 | 58 |
| DKS 620 FS | 3000 | 200 | 118 |
| DKS 630 FS | 3000 | 300 | 178 |
| DKS 660 FS | 3000 | 600 | 358 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **DKS 610 FS** | 1.75 | 0.95 | 0.5 | 0.4 |
| **DKS 620 FS** | 1.75 | 0.95 | 0.5 | 0.4 |
| **DKS 630 FS** | 1.75 | 0.95 | 0.5 | 0.4 |
| **DKS 660 FS** | 3 | 2.25 | 1 | 0.65 |

### Load



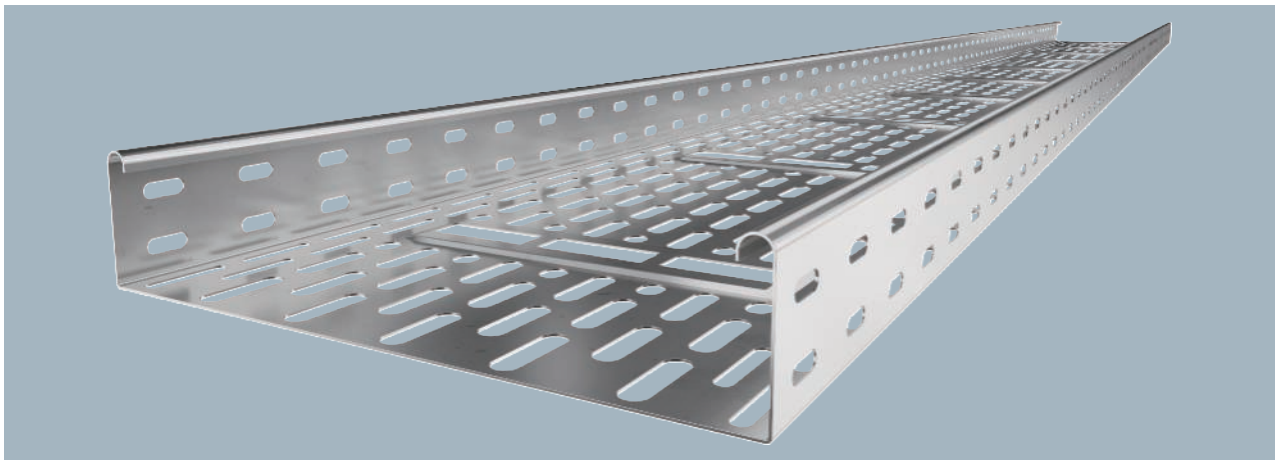

### Load diagram, cable tray, type DKS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

A4 2B

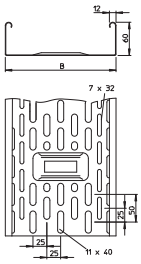
## Cable tray DKS 60



Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.
DKS 60 = perforated cable tray system with 60 mm side height.

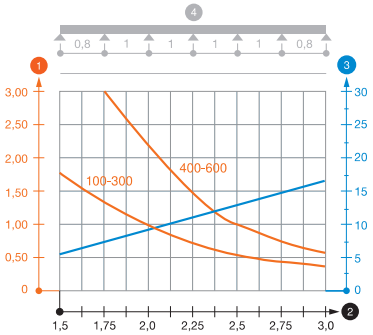
| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DKS 640 A4** | 400 | 1.00 | | 3 | 329.334 | **6085675** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| DKS 640 A4 | 3000 | 400 | 238 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **DKS 640 A4** | 1.1 | 0.75 | 0.45 |

**Load diagram, cable tray DKS 60 VA**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.



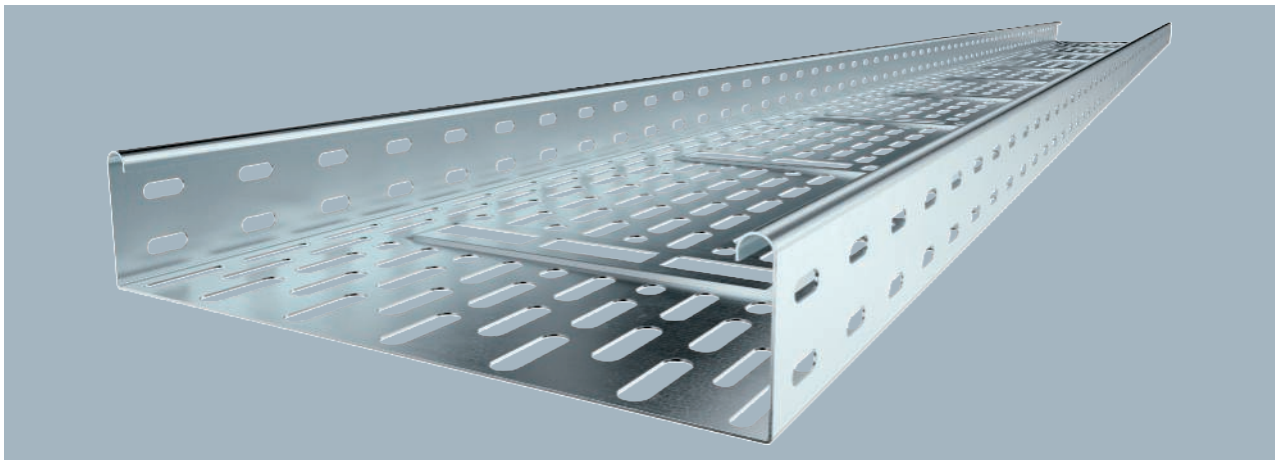


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# Cable trays, side height 60

## Cable tray DKS 60

St FS

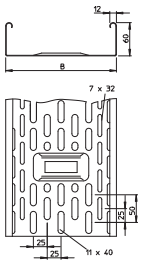


| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **DKS 640 FS** | 400 | 1.50 | 3 | 493.334 | **6085202** |
| **DKS 650 FS** | 500 | 1.50 | 3 | 572.340 | **6085229** |

Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.
DKS 60 = perforated cable tray system with 60 mm side height.

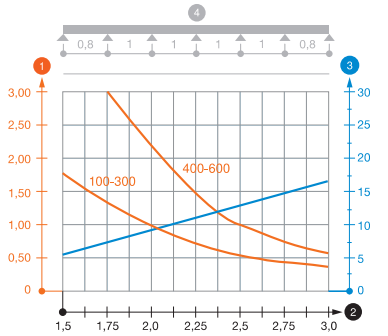
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| DKS 640 FS | 3000 | 400 | 238 |
| DKS 650 FS | 3000 | 500 | 298 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **DKS 640 FS** | 3 | 2.25 | 1 | 0.65 |
| **DKS 650 FS** | 3 | 2.25 | 1 | 0.65 |

**Load**




**Load diagram, cable tray, type DKS 60**

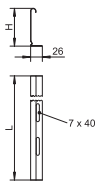
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

## Separating retainer 45

St FS DD






| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 45 FS** | 45 | 0.75 | 3000 | 3 | 46.700 | **6062033** |
| **TSG 45 DD** | 45 | 0.75 | 3000 | 3 | 46.812 | **6062321** |

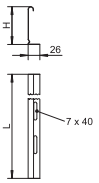
Separating retainer for separation of cables of different voltages or functions.

A2 A4 2B

## Separating retainer 45

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 45 A2 | 45 | 0.75 | 3000 | 3 | 49.850 | 6062025 |
| TSG 45 A4 | 45 | 0.75 | 3000 | 3 | 49.850 | 6062028 |

Separating retainer for separation of cables of different voltages or functions.



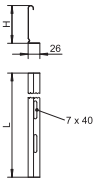



St FS DD

## Separating retainer 60

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 60 FS | 60 | 0.75 | 3000 | 3 | 55.700 | 6062068 |
| TSG 60 DD | 60 | 0.75 | 3000 | 3 | 55.700 | 6062327 |

Separating retainer for separation of cables of different voltages or functions.



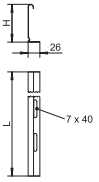



A2 A4 2B

## Separating retainer 60

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 60 A2 | 60 | 0.75 | 3000 | 3 | 59.265 | 6062084 |
| TSG 60 A4 | 60 | 0.75 | 3000 | 3 | 59.256 | 6062086 |

Separating retainer for the separation of cables of different voltages or functions.



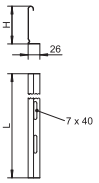



St FT SO

## Barrier strip 60 FT SOMY

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 60 FT SO | 56 | 0.75 | 3000 | 3 | 66.200 | 7190495 |

The surface coating is a coating created in a single-dip method with extra-high zinc thicknesses.
Barrier strip for the separation of cables of different voltages or functions.



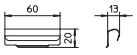



VA 2B

## Separating retainer connector

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| TSGV A2 | 10 | 0.899 | 6067970 |

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.





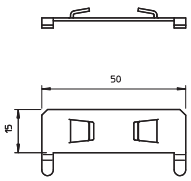



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## Clamping piece for barrier strips fastening in RKS

St FS



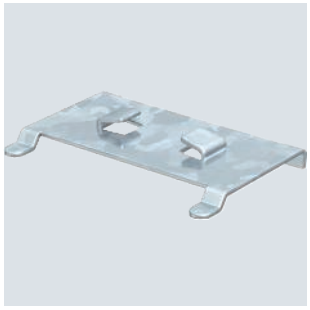


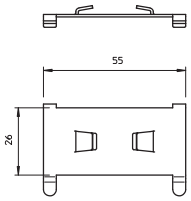

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **KS RKS FS** | | 100 | 0.902 | **6062296** |

Clamping piece for screwless fastening of barrier strips.
Use in cable trays, type RKSM (from width 200 mm).

## Clamping piece for barrier strips fastening in MKS/SKS

St FS





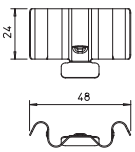

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **KS MKS SKS FS** | | 100 | 1.200 | **6062300** |

Clamping piece for screwless fastening of barrier strips.
Use in cable trays, types MKS, SKS, EKS.

## Spring element, side height 60 mm

VA





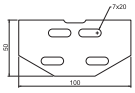

| Type | Dimension mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **FED 60 A2** | 48x24 | | 50 | 0.761 | **6068859** |

Spring element as accessory part (spare) for the RKS-Magic® cable tray of side height 60 mm.

## Straight connector 60, vertical

St FS



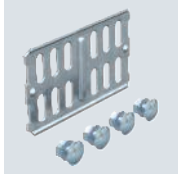


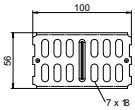

| Type | Side height mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RLVKV 60 FS** | 60 | | 10 | 4.550 | **6067101** |

The vertical straight connector can be used to connect cable trays with the side height 60 mm. Mitre joints that rise and fall up to an angle of 60° can also be realised with this connector.
The screw fastening ensures the continuity of the equipotential bonding.

## Straight connector 60

St FS FT





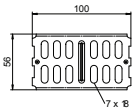

| Type | Side height mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RLVK 60 FS** | 60 | | 10 | 9.976 | **6067093** |
| **RLVK 60 FT** | 60 | | 10 | 10.300 | **6067603** |

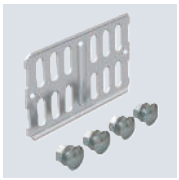
Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

A2 A4 2B

## Straight connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RLVK 60 A2** | 60 | 10 | 9.780 | **6067654** |
| **RLVK 60 A4** | 60 | 10 | 9.780 | **6067675** |



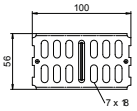



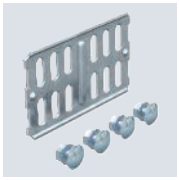
Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

St FT SO

## 60 FT SOMY straight connector

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RLVK 60 FT SO** | 60 | 10 | 10.300 | **7190522** |



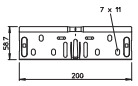



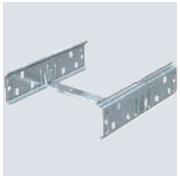
Straight connector for the straight connection of cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

St FS

## Straight connector set 60

| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RV 605 FS** | 60 | 50 | 10 | 18.100 | **6068146** |
| **RV 607 FS** | 60 | 75 | 10 | 18.800 | **6068150** |
| **RV 610 FS** | 60 | 100 | 10 | 19.400 | **6068154** |
| **RV 615 FS** | 60 | 150 | 10 | 20.700 | **6068162** |
| **RV 620 FS** | 60 | 200 | 10 | 20.900 | **6068170** |
| **RV 630 FS** | 60 | 300 | 10 | 24.500 | **6068189** |
| **RV 640 FS** | 60 | 400 | 10 | 32.200 | **6068197** |
| **RV 650 FS** | 60 | 500 | 10 | 36.200 | **6068200** |
| **RV 660 FS** | 60 | 600 | 10 | 39.200 | **6068219** |



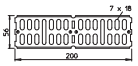



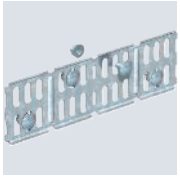
Quick connector set for straight, screwless connections of cable trays and fittings with a side height of 60 mm.
The continuous earthing connection is guaranteed without a screw connection.

St FS FT

## Straight and angle connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RWVL 60 FS** | 60 | 10 | 16.400 | **6067115** |
| **RWVL 60 FT** | 60 | 10 | 17.400 | **6067611** |



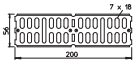



Straight and angle connector for cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

A2 A4 2B

## Straight and angle connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RWVL 60 A2** | 60 | 10 | 16.200 | **6067662** |
| **RWVL 60 A4** | 60 | 10 | 16.200 | **6067664** |






Straight and angle connector for cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.



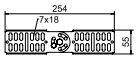
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# Cable trays, side height 60

## Adjustable connector 60

St FS FT





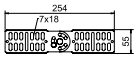

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RGV 60 FS** | 60 | 10 | 25.100 | **7082010** |
| **RGV 60 FT** | 60 | 10 | 23.890 | **7082223** |

Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

## Adjustable connector 60

A2 A4 2B





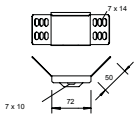

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RGV 60 A2** | 60 | 10 | 25.100 | **7082258** |
| **RGV 60 A4** | 60 | 10 | 25.100 | **7082265** |

Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

## Angle connector 60

St FS FT



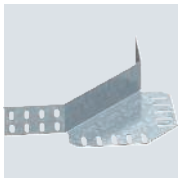


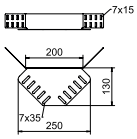

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WKV 60 FS** | 60 | 5 | 14.700 | **6043062** |
| **WKV 60 FT** | 60 | 5 | 15.800 | **6042910** |

Angle connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

## Corner connector 60

St FS DD





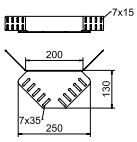

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **REV 60 FS** | 60 | 10 | 32.000 | **6067972** |
| **REV 60 DD** | 60 | 1 | 32.000 | **6069410** |

Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

## Corner connector 60

A2 A4 2B





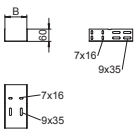

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **REV 60 A2** | 60 | 5 | 32.000 | **6068022** |
| **REV 60 A4** | 60 | 5 | 32.000 | **6068054** |

Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

St DD

## Connector for expansion compensation 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RDV 610 DD | 60 | 10 | 2 | 56.300 | 6065974 |
| RDV 620 DD | 60 | 200 | 2 | 81.800 | 6065976 |
| RDV 630 DD | 60 | 300 | 2 | 104.300 | 6065978 |
| RDV 640 DD | 60 | 400 | 2 | 129.600 | 6065980 |
| RDV 650 DD | 60 | 500 | 2 | 152.200 | 6065982 |
| RDV 660 DD | 60 | 600 | 2 | 177.600 | 6065984 |



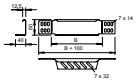


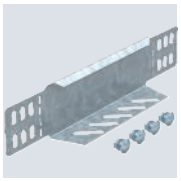

Straight connector for compensation of linear thermal expansion.

St FS DD

## Reducer/stop-end 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RWEB 610 FS | 60 | 100 | 1 | 12.300 | 7109105 |
| RWEB 615 FS | 60 | 150 | 1 | 17.600 | 7109156 |
| RWEB 620 FS | 60 | 200 | 1 | 22.800 | 7109202 |
| RWEB 630 FS | 60 | 300 | 1 | 30.700 | 7109296 |
| RWEB 640 FS | 60 | 400 | 1 | 39.600 | 7109407 |
| RWEB 650 FS | 60 | 500 | 1 | 47.500 | 7109504 |
| RWEB 660 FS | 60 | 600 | 1 | 55.500 | 7109601 |
| RWEB 605 DD | 60 | 50 | 1 | 9.337 | 7107145 |
| RWEB 610 DD | 60 | 100 | 1 | 12.300 | 7106106 |
| RWEB 615 DD | 60 | 150 | 1 | 17.900 | 7106110 |
| RWEB 620 DD | 60 | 200 | 1 | 22.600 | 7106114 |
| RWEB 630 DD | 60 | 300 | 1 | 30.700 | 7106118 |
| RWEB 640 DD | 60 | 400 | 1 | 39.600 | 7106122 |
| RWEB 645 DD | 60 | 450 | 1 | 43.600 | 7106124 |
| RWEB 650 DD | 60 | 500 | 1 | 47.500 | 7106126 |
| RWEB 660 DD | 60 | 600 | 1 | 55.500 | 7106130 |



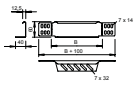


Reducer/stop-end plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

A2 2B

## Reducer/stop-end 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RWEB 610 A2 | 60 | 100 | 1 | 12.500 | 7109814 |
| RWEB 615 A2 | 60 | 150 | 1 | 18.000 | 7109816 |
| RWEB 620 A2 | 60 | 200 | 1 | 22.900 | 7109830 |
| RWEB 630 A2 | 60 | 300 | 1 | 31.200 | 7109857 |
| RWEB 640 A2 | 60 | 400 | 1 | 37.300 | 7109873 |
| RWEB 650 A2 | 60 | 500 | 1 | 48.100 | 7109903 |
| RWEB 660 A2 | 60 | 600 | 1 | 56.100 | 7109938 |





Reducer/stop-end plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.



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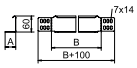
Always indicate the item number when ordering.

# Cable trays, side height 60

## Reducer/stop-end 60

A4 2B





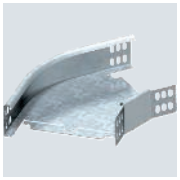

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RWEB 610 A4** | 60 | 95 | 1 | 13.200 | **7109951** |
| **RWEB 620 A4** | 60 | 195 | 1 | 24.000 | **7109953** |
| **RWEB 630 A4** | 60 | 295 | 1 | 32.100 | **7109955** |
| **RWEB 640 A4** | 60 | 395 | 1 | 41.300 | **7109957** |
| **RWEB 650 A4** | 60 | 495 | 1 | 49.400 | **7109959** |
| **RWEB 660 A4** | 60 | 595 | 1 | 57.400 | **7109961** |

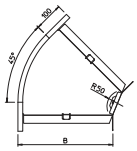
Reducer and end closure plate for cable trays with side height 60 mm.

From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

## 45° bend 60

St FS FT





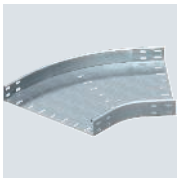

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RB 45 610 FS** | 60 | 100 | 1 | 57.600 | **6043763** |
| **RB 45 615 FS** | 60 | 150 | 1 | 66.800 | **6043755** |
| **RB 45 620 FS** | 60 | 200 | 1 | 80.800 | **6043771** |
| **RB 45 630 FS** | 60 | 300 | 1 | 112.900 | **6043798** |
| **RB 45 610 FT** | 60 | 100 | 1 | 62.000 | **7066112** |
| **RB 45 615 FT** | 60 | 150 | 1 | 72.200 | **7066158** |
| **RB 45 620 FT** | 60 | 200 | 1 | 87.400 | **7066228** |
| **RB 45 630 FT** | 60 | 300 | 1 | 122.700 | **7066317** |

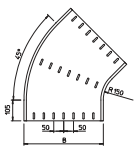
45° bend, horizontal, for all cable tray types of 60 mm side height.

The fitting is shipped in an unmounted state. The WKV 60 angle connector is designed for 90° bends and can be adjusted to 45° on site.
Including appropriate fastening material.

## 45° bend 60

St FS FT





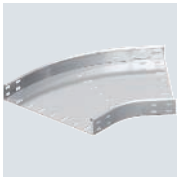

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RB 45 640 FS** | 60 | 400 | 1 | 301.000 | **7000383** |
| **RB 45 650 FS** | 60 | 500 | 1 | 385.900 | **7000405** |
| **RB 45 660 FS** | 60 | 600 | 1 | 480.400 | **7000421** |
| **RB 45 640 FT** | 60 | 400 | 1 | 301.000 | **7066406** |
| **RB 45 650 FT** | 60 | 500 | 1 | 412.800 | **7066503** |
| **RB 45 660 FT** | 60 | 600 | 1 | 515.600 | **7066600** |

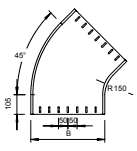
45° bend, horizontal, for all cable tray types of 60 mm side height.

Fastening materials should be ordered separately.

## 45° bend 60

A2 2B






| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBU 45 640 A2** | 60 | 400 | 1 | 300.700 | **7133235** |

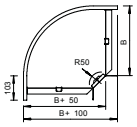
45° bend, horizontal and unperforated, for all cable tray types of 60 mm side height.

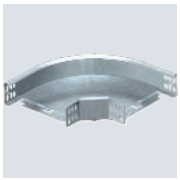
Fitting, unperforated, in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

St FS FT

## 90° bend 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RB 90 610 FS | 60 | 100 | 1 | 71.900 | 6043216 |
| RB 90 615 FS | 60 | 150 | 1 | 88.400 | 6043208 |
| RB 90 620 FS | 60 | 200 | 1 | 110.300 | 6043224 |
| RB 90 630 FS | 60 | 300 | 1 | 167.400 | 6043232 |
| RB 90 610 FT | 60 | 100 | 1 | 77.600 | 7125100 |
| RB 90 615 FT | 60 | 150 | 1 | 89.500 | 7125189 |
| RB 90 620 FT | 60 | 200 | 1 | 119.600 | 7125220 |
| RB 90 630 FT | 60 | 300 | 1 | 181.200 | 7125305 |



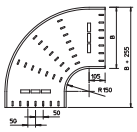
90° bend, horizontal, for all cable tray types of 60 mm side height.

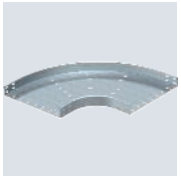
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

## 90° bend 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RB 90 640 FS | 60 | 400 | 1 | 472.300 | 7001290 |
| RB 90 650 FS | 60 | 500 | 1 | 527.000 | 7001304 |
| RB 90 660 FS | 60 | 600 | 1 | 680.000 | 7001312 |
| RB 90 640 FT | 60 | 400 | 1 | 507.000 | 7125410 |
| RB 90 650 FT | 60 | 500 | 1 | 559.000 | 7125526 |
| RB 90 660 FT | 60 | 600 | 1 | 721.500 | 7125585 |



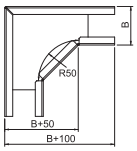
90° bend, horizontal, for all cable tray types of 60 mm side height.

Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

St FS FT

## 90° bend

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RB 90 605 FS | 60 | 50 | 1 | 39.300 | 7124430 |
| RB 90 605 FT | 60 | 50 | 1 | 41.600 | 7124438 |



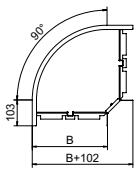



90° bend for horizontal routing of cable trays, type RKS 605.

A2 A4 2B

## 90° bend 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RB 90 610 A2 | 60 | 100 | 1 | 125.000 | 7134122 |
| RB 90 620 A2 | 60 | 200 | 1 | 110.400 | 7134130 |
| RB 90 630 A2 | 60 | 300 | 1 | 166.600 | 7134138 |
| RB 90 610 A4 | 60 | 100 | 1 | 125.000 | 7134286 |
| RB 90 620 A4 | 60 | 200 | 1 | 111.900 | 7134288 |
| RB 90 630 A4 | 60 | 300 | 1 | 166.600 | 7134290 |






90° bend, horizontal, for all cable tray types of 60 mm side height.
The 100 mm width has a rectangle shape and does not correspond to the image.

The fitting is shipped in an unmounted state.
Including appropriate fastening material.

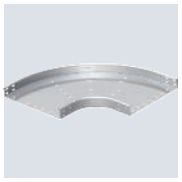


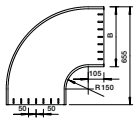
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# Cable trays, side height 60

## 90° bend 60

A2 A4 2B





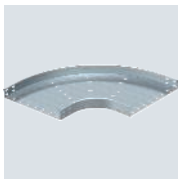
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBU 90 640 A2** | 60 | 400 | 1 | 465.000 | **7134231** |
| **RBU 90 650 A2** | 60 | 500 | 1 | 610.000 | **7134258** |
| **RBU 90 660 A2** | 60 | 600 | 1 | 770.000 | **7134266** |
| **RBU 90 640 A4** | 60 | 400 | 1 | 465.000 | **7134292** |
| **RBU 90 650 A4** | 60 | 500 | 1 | 610.000 | **7134294** |
| **RBU 90 660 A4** | 60 | 600 | 1 | 770.000 | **7134296** |

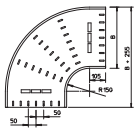
90° bend, horizontal and unperforated, for all cable tray types of 60 mm side height.

Fitting, unperforated, in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

## 90° bend 60 FT SOMY

St FT SO





| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RB 90 640 FT SO** | 60 | 400 | 1 | 531.000 | **7196286** |

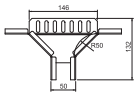
90° bend, horizontal, for all cable tray types of 60 mm side height.

Fitting in round version. The inner radius of the fitting is 150 mm.
Fastening materials should be ordered separately.

## Add-on tee 60

St FS FT





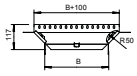
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RAA 605 FS** | 60 | 50 | 1 | 30.000 | **7120460** |
| **RAA 605 FT** | 60 | 50 | 1 | 30.300 | **7120468** |

Add-on tee for horizontal routing of cable trays, type RKS 605.

## Add-on tee 60

St FS FT





| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RAA 610 FS** | 60 | 100 | 1 | 44.200 | **6040403** |
| **RAA 615 FS** | 60 | 150 | 1 | 40.100 | **6040411** |
| **RAA 620 FS** | 60 | 200 | 1 | 53.100 | **6040438** |
| **RAA 630 FS** | 60 | 300 | 1 | 61.900 | **6040446** |
| **RAA 610 FT** | 60 | 100 | 1 | 47.700 | **7121109** |
| **RAA 615 FT** | 60 | 150 | 1 | 43.400 | **7121205** |
| **RAA 620 FT** | 60 | 200 | 1 | 57.500 | **7121210** |
| **RAA 630 FT** | 60 | 300 | 1 | 67.100 | **7121318** |

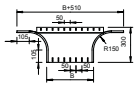
Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.

The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

## Add-on tee 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RAA 640 FS | 60 | 400 | 1 | 220.000 | 7002394 |
| RAA 650 FS | 60 | 500 | 1 | 255.000 | 7002416 |
| RAA 660 FS | 60 | 600 | 1 | 285.000 | 7002432 |
| RAA 640 FT | 60 | 400 | 1 | 240.000 | 7121407 |
| RAA 650 FT | 60 | 500 | 1 | 280.000 | 7121504 |
| RAA 660 FT | 60 | 600 | 1 | 310.000 | 7121601 |



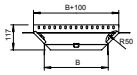


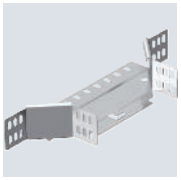
Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.
Fastening materials should be ordered separately.

A2 A4 2B

## Add-on tee 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RAA 610 A2 | 60 | 100 | 1 | 44.200 | 7136120 |
| RAA 620 A2 | 60 | 200 | 1 | 53.200 | 7136133 |
| RAA 630 A2 | 60 | 300 | 1 | 61.500 | 7136141 |
| RAA 610 A4 | 60 | 100 | 1 | 44.200 | 7136122 |
| RAA 630 A4 | 60 | 300 | 1 | 61.500 | 7136143 |
| RAA 620 A4 | 60 | 200 | 1 | 53.200 | 7136135 |



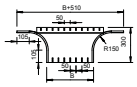


Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

A2 A4 2B

## Add-on tee 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RAA 640 A2 | 60 | 400 | 1 | 220.000 | 7136242 |
| RAA 650 A2 | 60 | 500 | 1 | 255.000 | 7136250 |
| RAA 660 A2 | 60 | 600 | 1 | 285.000 | 7136269 |
| RAA 640 A4 | 60 | 400 | 1 | 220.000 | 7136244 |
| RAA 650 A4 | 60 | 500 | 1 | 255.000 | 7136252 |
| RAA 660 A4 | 60 | 600 | 1 | 285.000 | 7136271 |



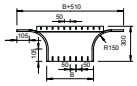


Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.
Fastening materials should be ordered separately.

St FT SO

## Add-on tee 60 FT SOMY

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RAA 640 FT SO | 60 | 400 | 1 | 240.000 | 7196188 |
| RAA 660 FT SO | 60 | 600 | 1 | 331.500 | 7196190 |





Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.
Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

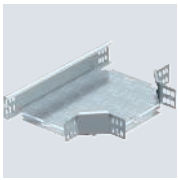


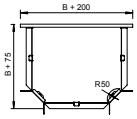
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# Cable trays, side height 60

## T branch piece 60

St FT



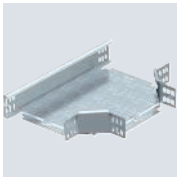


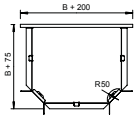

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RT 610 FT** | 60 | 100 | 1 | 89.900 | **7117116** |
| **RT 615 FT** | 60 | 150 | 1 | 109.000 | **7117162** |
| **RT 620 FT** | 60 | 200 | 1 | 144.800 | **7117209** |
| **RT 630 FT** | 60 | 300 | 1 | 215.900 | **7117306** |

Horizontal T branch piece, for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.
Including appropriate fastening material.

## T branch piece 60

St FS



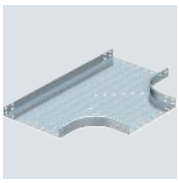


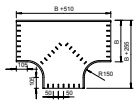

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RT 610 FS** | 60 | 100 | 1 | 83.200 | **6043410** |
| **RT 615 FS** | 60 | 150 | 1 | 101.000 | **6043402** |
| **RT 620 FS** | 60 | 200 | 1 | 133.200 | **6043429** |
| **RT 630 FS** | 60 | 300 | 1 | 198.200 | **6043437** |

Horizontal T branch piece, for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.
Including appropriate fastening material.

## T branch piece 60

St FT



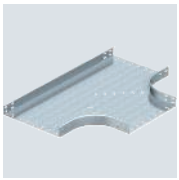


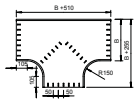

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RT 640 FT** | 60 | 400 | 1 | 746.000 | **7117396** |
| **RT 650 FT** | 60 | 500 | 1 | 804.500 | **7117507** |
| **RT 660 FT** | 60 | 600 | 1 | 1,001.700 | **7117604** |

Horizontal T branch piece, for all cable tray types of 60 mm side height.
Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.
Fastening materials should be ordered separately.

## T branch piece 60

St FS





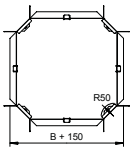

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RT 640 FS** | 60 | 400 | 1 | 697.000 | **7003390** |
| **RT 650 FS** | 60 | 500 | 1 | 804.000 | **7003412** |
| **RT 660 FS** | 60 | 600 | 1 | 1,001.000 | **7003439** |

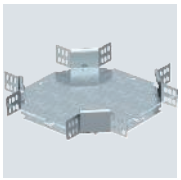
Horizontal T branch piece, for all cable tray types of 60 mm side height.
Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.
Fastening materials should be ordered separately.

St FT

## Cross-over 60

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RK 610 FT** | 60 | 100 | 1 | 97.000 | **7113110** |
| **RK 620 FT** | 60 | 200 | 1 | 148.300 | **7113218** |
| **RK 630 FT** | 60 | 300 | 1 | 216.000 | **7113315** |



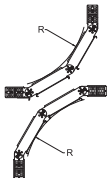



Horizontal cross-over for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.
Including appropriate fastening material.

St FS FT

## 90° adjustable bend, vertical 60

| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RGBV 615 FS** | 60 | 150 | 1 | 200.000 | **7006330** |
| **RGBV 610 FT** | 60 | 100 | 1 | 186.000 | **7079109** |
| **RGBV 615 FT** | 60 | 150 | 1 | 200.000 | **7079141** |
| **RGBV 620 FT** | 60 | 200 | 1 | 239.000 | **7079206** |
| **RGBV 630 FT** | 60 | 300 | 1 | 295.000 | **7079303** |
| **RGBV 640 FT** | 60 | 400 | 1 | 349.000 | **7079400** |
| **RGBV 650 FT** | 60 | 500 | 1 | 404.000 | **7079508** |
| **RGBV 660 FT** | 60 | 600 | 1 | 460.000 | **7079605** |



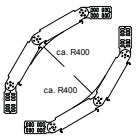



The bend is shipped in an unmounted state. No additional fastening materials are required.
90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.

A2 2B

## 90° adjustable bend, vertical 60

| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RGBV 610 A2** | 60 | 100 | 1 | 182.000 | **7138113** |



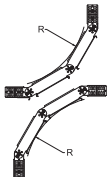



The bend is shipped in an unmounted state. No additional fastening materials are required.
90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.

St FS FT

## 90° adjustable bend, vertical 60

| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RGBV 615 FS** | 60 | 150 | 1 | 200.000 | **7006330** |
| **RGBV 610 FT** | 60 | 100 | 1 | 186.000 | **7079109** |
| **RGBV 615 FT** | 60 | 150 | 1 | 200.000 | **7079141** |
| **RGBV 620 FT** | 60 | 200 | 1 | 239.000 | **7079206** |
| **RGBV 630 FT** | 60 | 300 | 1 | 295.000 | **7079303** |
| **RGBV 640 FT** | 60 | 400 | 1 | 349.000 | **7079400** |
| **RGBV 650 FT** | 60 | 500 | 1 | 404.000 | **7079508** |
| **RGBV 660 FT** | 60 | 600 | 1 | 460.000 | **7079605** |






The bend is shipped in an unmounted state. No additional fastening materials are required.
90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.



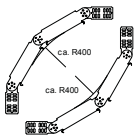
Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Cable trays, side height 60

## 90° adjustable bend, vertical 60

A2 2B



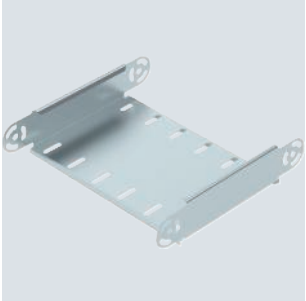



| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RGBV 610 A2** | 60 | 100 | 1 | 182.000 | **7138113** |

The bend is shipped in an unmounted state. No additional fastening materials are required.
90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.

## Adjustable bend element, vertical 60

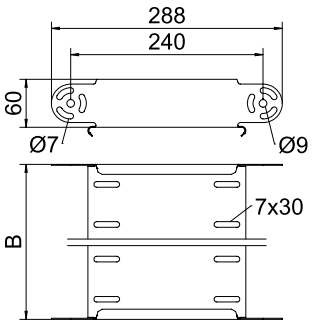
St FS FT



| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RGBEV 610 FS** | 60 | 1 | 48.100 | **7005326** |
| **RGBEV 615 FS** | 60 | 1 | 63.700 | **7005334** |
| **RGBEV 620 FS** | 60 | 1 | 63.600 | **7005342** |
| **RGBEV 630 FS** | 60 | 1 | 80.400 | **7005369** |
| **RGBEV 640 FS** | 60 | 1 | 114.000 | **7005385** |
| **RGBEV 650 FS** | 60 | 1 | 134.000 | **7005407** |
| **RGBEV 660 FS** | 60 | 1 | 155.900 | **7005423** |
| **RGBEV 610 FT** | 60 | 1 | 52.400 | **7075103** |
| **RGBEV 615 FT** | 60 | 1 | 60.300 | **7075154** |
| **RGBEV 620 FT** | 60 | 1 | 69.300 | **7075200** |
| **RGBEV 630 FT** | 60 | 1 | 87.600 | **7075308** |
| **RGBEV 640 FT** | 60 | 1 | 123.000 | **7075405** |
| **RGBEV 650 FT** | 60 | 1 | 144.000 | **7075502** |
| **RGBEV 660 FT** | 60 | 1 | 167.200 | **7075596** |

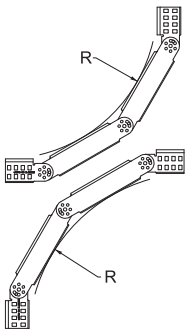
Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.
RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

### Dimensions




| Type | Dim. B mm | Metal thick-ness mm |
|---|---|---|
| RGBEV 610 FS | 100 | 1.00 |
| RGBEV 615 FS | 150 | 1.00 |
| RGBEV 620 FS | 200 | 1.00 |
| RGBEV 630 FS | 300 | 1.00 |
| RGBEV 640 FS | 400 | 1.00 |
| RGBEV 650 FS | 500 | 1.00 |
| RGBEV 660 FS | 600 | 1.00 |

### Installation




**Radius table**

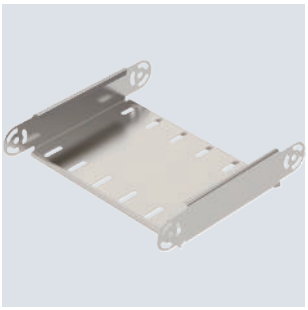
| Quantity of elements | Radius |
|---|---|
| 1 | approx. 300 mm |
| 2 | approx. 450 mm |
| 3 | Approx. 600 mm |
| 4 | approx. 750 mm |
| 5 | Approx. 900 mm |

Please order two RGV 60 adjustable connectors separately.

A2 A4 2B

## Adjustable vertical bend element 60

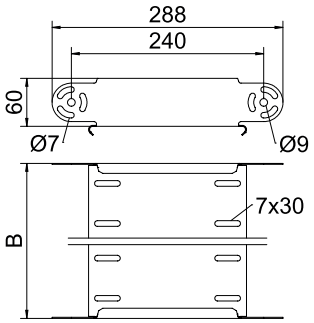
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RGBEV 610 A2** | 60 | 1 | 53.300 | **7075651** |
| **RGBEV 620 A2** | 60 | 1 | 74.100 | **7075653** |
| **RGBEV 630 A2** | 60 | 1 | 94.800 | **7075655** |
| **RGBEV 640 A2** | 60 | 1 | 115.500 | **7075657** |
| **RGBEV 650 A2** | 60 | 1 | 136.200 | **7075659** |
| **RGBEV 660 A2** | 60 | 1 | 157.000 | **7075661** |
| **RGBEV 610 A4** | 60 | 1 | 54.000 | **7075671** |
| **RGBEV 620 A4** | 60 | 1 | 75.000 | **7075673** |
| **RGBEV 630 A4** | 60 | 1 | 96.000 | **7075675** |
| **RGBEV 640 A4** | 60 | 1 | 117.000 | **7075677** |
| **RGBEV 650 A4** | 60 | 1 | 138.000 | **7075679** |
| **RGBEV 660 A4** | 60 | 1 | 159.000 | **7075681** |



Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.
RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

| Type | Dim. B mm | Metal thick-ness mm |
|---|---|---|
| RGBEV 610 A2 | 100 | 1.00 |
| RGBEV 620 A2 | 200 | 1.00 |
| RGBEV 630 A2 | 300 | 1.00 |
| RGBEV 640 A2 | 400 | 1.00 |
| RGBEV 650 A2 | 500 | 1.00 |
| RGBEV 660 A2 | 600 | 1.00 |

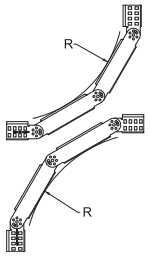
**Dimensions**




| Radius table | |
|---|---|
| Quantity of elements | Radius |
| 1 | approx. 300 mm |
| 2 | approx. 450 mm |
| 3 | approx. 600 mm |
| 4 | approx. 750 mm |
| 5 | approx. 900 mm |

Please order two RGV 60 articulated connectors separately.

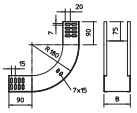
**Installation**

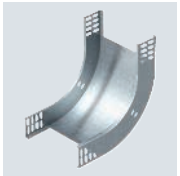



St FT SO

## 90° vertical bend, rising, 60 FT SOMY

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBV 630 S FT SO** | 60 | 300 | 1 | 143.000 | **7195589** |





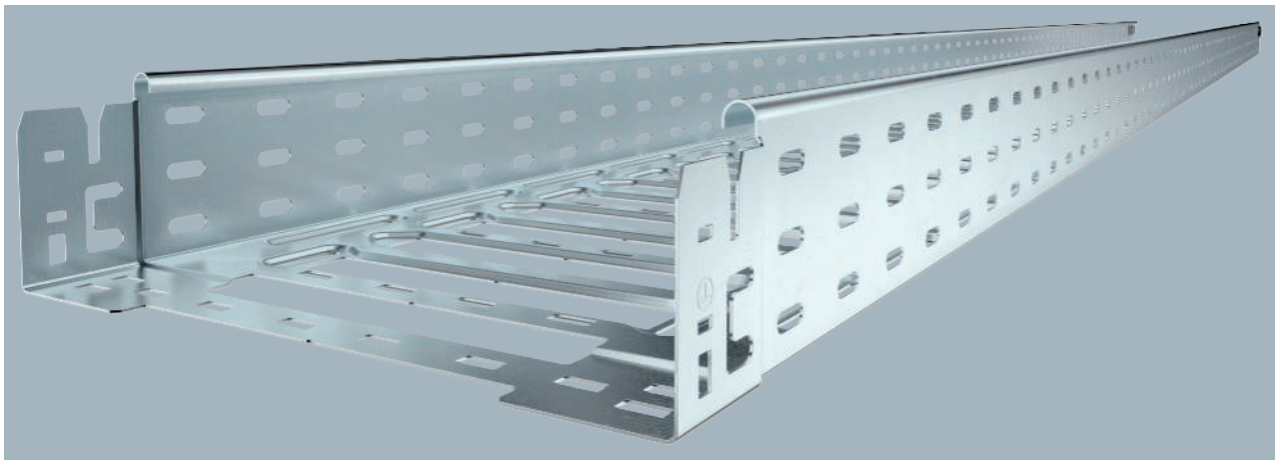
90° rising vertical bend, for all cable tray types of 60 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Cable tray MKS-Magic® 85

St FS

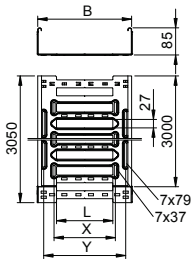


| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKSM 810 FS** | 100 | 1.00 | 3 | 200.000 | **6059080** |
| **MKSM 820 FS** | 200 | 1.00 | 3 | 254.754 | **6059084** |
| **MKSM 830 FS** | 300 | 1.00 | 3 | 292.131 | **6059086** |
| **MKSM 840 FS** | 400 | 1.00 | 3 | 329.508 | **6059088** |
| **MKSM 850 FS** | 500 | 1.00 | 3 | 366.885 | **6059090** |
| **MKSM 860 FS** | 600 | 1.00 | 3 | 403.934 | **6059092** |

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

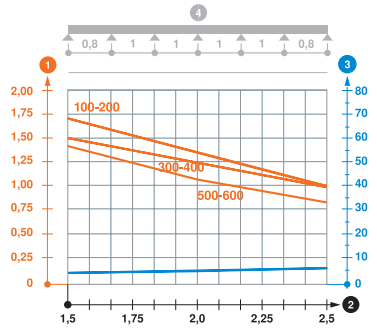
| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dim-en-sion y mm |
|---|---|---|---|---|---|---|
| MKSM 810 FS | 3050 | 100 | 83 | 30 | – | 62 |
| MKSM 820 FS | 3050 | 200 | 186 | 80 | 96 | 162 |
| MKSM 830 FS | 3050 | 300 | 253 | 180 | 196 | 262 |
| MKSM 840 FS | 3050 | 400 | 338 | 280 | 296 | 362 |
| MKSM 850 FS | 3050 | 500 | 423 | 380 | 396 | 462 |
| MKSM 860 FS | 3050 | 600 | 508 | 480 | 496 | 562 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKSM 810 FS** | 1.7 | 1.35 | 1 |
| **MKSM 820 FS** | 1.7 | 1.35 | 1 |
| **MKSM 830 FS** | 1.5 | 1.25 | 1 |
| **MKSM 840 FS** | 1.5 | 1.25 | 1 |
| **MKSM 850 FS** | 1.4 | 1.1 | 0.85 |
| **MKSM 860 FS** | 1.4 | 1.1 | 0.85 |

### Load




**Load diagram, cable tray, type MKSM 85**

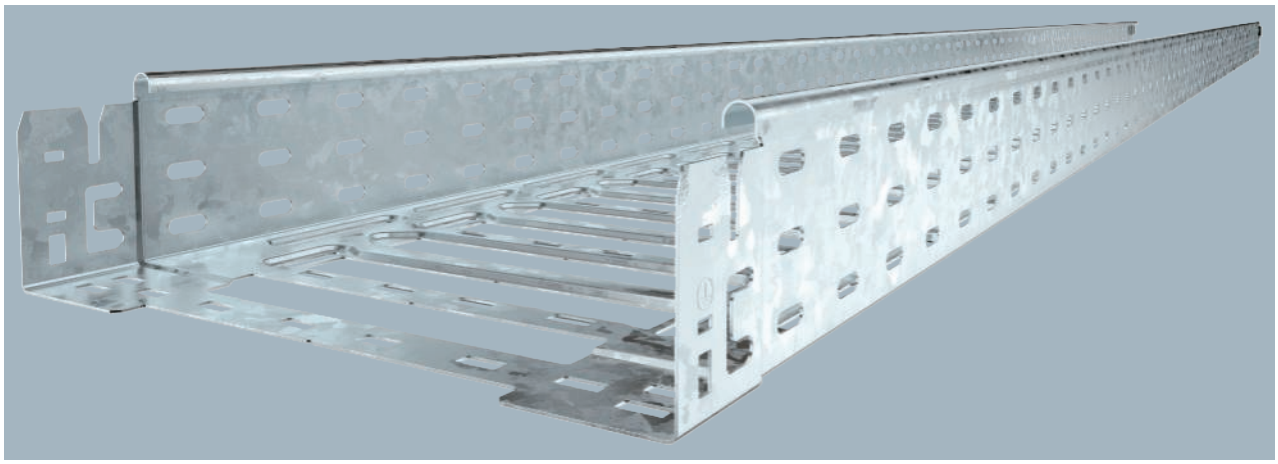
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

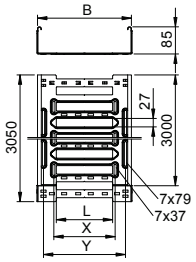
## Cable tray MKS-Magic® 85



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

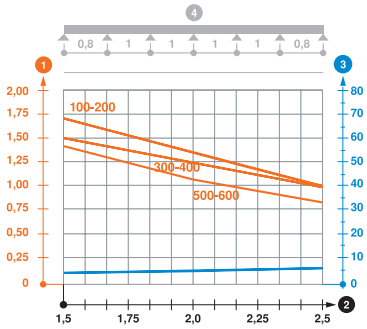
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKSM 810 FT** | 100 | 1.00 | 3 | 218.032 | **6059097** |
| **MKSM 820 FT** | 200 | 1.00 | 3 | 277.704 | **6059101** |
| **MKSM 830 FT** | 300 | 1.00 | 3 | 318.688 | **6059103** |
| **MKSM 840 FT** | 400 | 1.00 | 3 | 359.344 | **6059105** |
| **MKSM 850 FT** | 500 | 1.00 | 3 | 400.000 | **6059107** |
| **MKSM 860 FT** | 600 | 1.00 | 3 | 440.327 | **6059109** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dimension y mm |
|---|---|---|---|---|---|---|
| MKSM 810 FT | 3050 | 100 | 83 | 30 | – | 62 |
| MKSM 820 FT | 3050 | 200 | 186 | 80 | 96 | 162 |
| MKSM 830 FT | 3050 | 300 | 253 | 180 | 196 | 262 |
| MKSM 840 FT | 3050 | 400 | 338 | 280 | 296 | 362 |
| MKSM 850 FT | 3050 | 500 | 423 | 380 | 396 | 462 |
| MKSM 860 FT | 3050 | 600 | 508 | 480 | 496 | 562 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKSM 810 FT** | 1.7 | 1.35 | 1 |
| **MKSM 820 FT** | 1.7 | 1.35 | 1 |
| **MKSM 830 FT** | 1.5 | 1.25 | 1 |
| **MKSM 840 FT** | 1.5 | 1.25 | 1 |
| **MKSM 850 FT** | 1.4 | 1.1 | 0.85 |
| **MKSM 860 FT** | 1.4 | 1.1 | 0.85 |

**Load diagram, cable tray, type MKSM 85**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

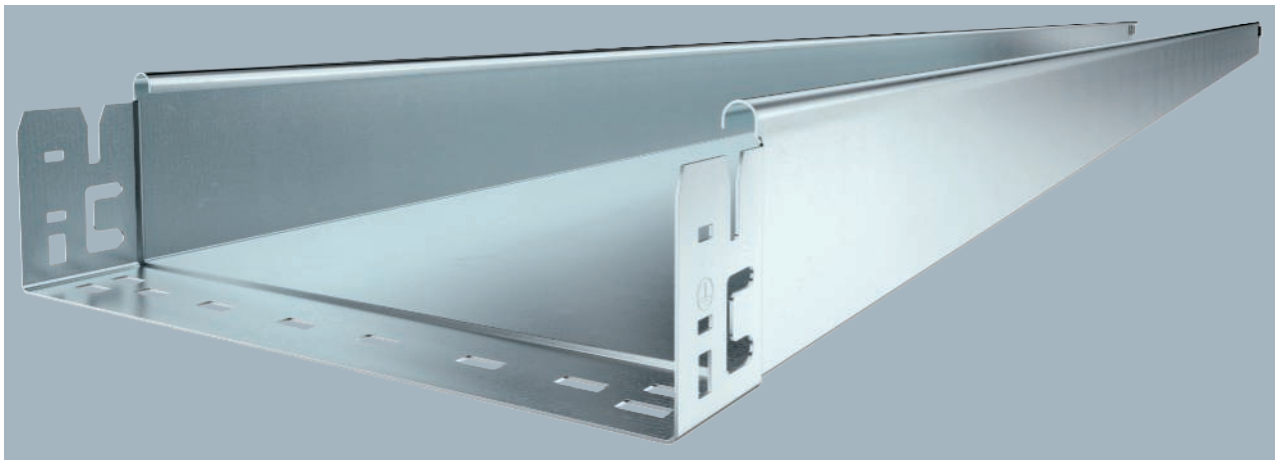




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## Cable tray MKS-Magic® 85, unperforated

St FS

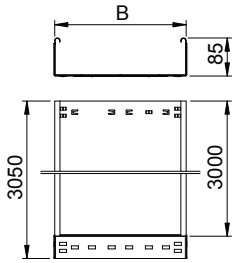


| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKSMU 810 FS** | 100 | 1.00 | 3 | 230.721 | **6059308** |
| **MKSMU 820 FS** | 200 | 1.00 | 3 | 309.049 | **6059312** |
| **MKSMU 830 FS** | 300 | 1.00 | 3 | 387.508 | **6059314** |
| **MKSMU 840 FS** | 400 | 1.00 | 3 | 465.934 | **6059316** |
| **MKSMU 850 FS** | 500 | 1.00 | 3 | 544.360 | **6059318** |
| **MKSMU 860 FS** | 600 | 1.00 | 3 | 622.786 | **6059320** |

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

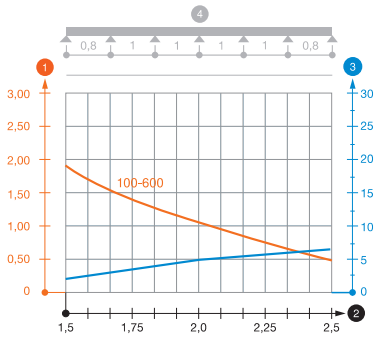
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKSMU 810 FS | 3050 | 100 | 83 |
| MKSMU 820 FS | 3050 | 200 | 186 |
| MKSMU 830 FS | 3050 | 300 | 253 |
| MKSMU 840 FS | 3050 | 400 | 338 |
| MKSMU 850 FS | 3050 | 500 | 423 |
| MKSMU 860 FS | 3050 | 600 | 508 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKSMU 810 FS** | 1.75 | 1.1 | 0.5 |
| **MKSMU 820 FS** | 1.75 | 1.1 | 0.5 |
| **MKSMU 830 FS** | 1.75 | 1.1 | 0.5 |
| **MKSMU 840 FS** | 1.75 | 1.1 | 0.5 |
| **MKSMU 850 FS** | 1.75 | 1.1 | 0.5 |
| **MKSMU 860 FS** | 1.75 | 1.1 | 0.5 |

**Load**




**Load diagram, cable tray, type MKSMU 85**

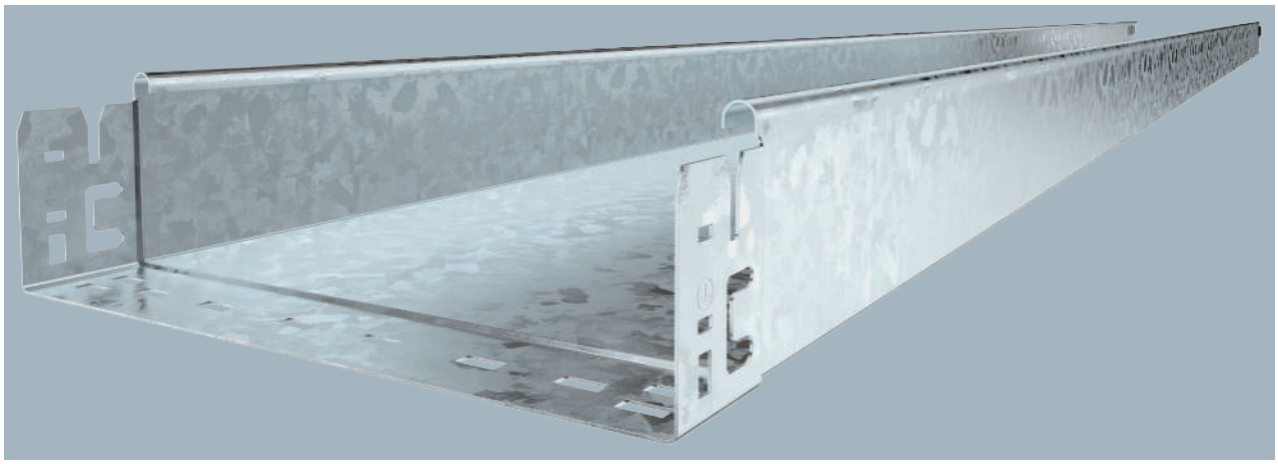
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

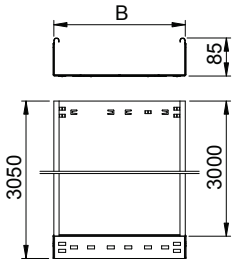
## Cable tray MKS-Magic® 85, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

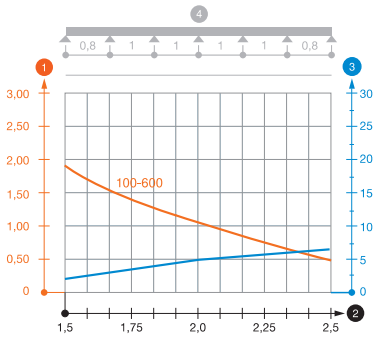
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKSMU 810 FT** | 100 | 1.00 | 3 | 253.606 | **6059325** |
| **MKSMU 820 FT** | 200 | 1.00 | 3 | 339.737 | **6059329** |
| **MKSMU 830 FT** | 300 | 1.00 | 3 | 426.000 | **6059331** |
| **MKSMU 840 FT** | 400 | 1.00 | 3 | 512.229 | **6059333** |
| **MKSMU 850 FT** | 500 | 1.00 | 3 | 598.459 | **6059335** |
| **MKSMU 860 FT** | 600 | 1.00 | 3 | 684.688 | **6059337** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKSMU 810 FT | 3050 | 100 | 83 |
| MKSMU 820 FT | 3050 | 200 | 186 |
| MKSMU 830 FT | 3050 | 300 | 253 |
| MKSMU 840 FT | 3050 | 400 | 338 |
| MKSMU 850 FT | 3050 | 500 | 423 |
| MKSMU 860 FT | 3050 | 600 | 508 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKSMU 810 FT** | 1.75 | 1.1 | 0.5 |
| **MKSMU 820 FT** | 1.75 | 1.1 | 0.5 |
| **MKSMU 830 FT** | 1.75 | 1.1 | 0.5 |
| **MKSMU 840 FT** | 1.75 | 1.1 | 0.5 |
| **MKSMU 850 FT** | 1.75 | 1.1 | 0.5 |
| **MKSMU 860 FT** | 1.75 | 1.1 | 0.5 |

**Load diagram, cable tray, type MKSMU 85**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.

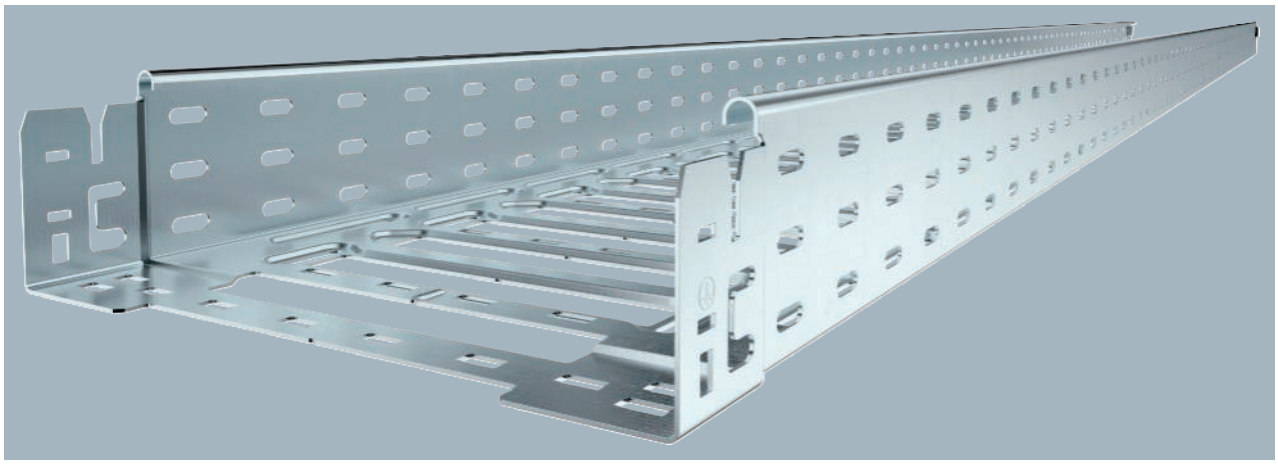




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## Cable tray SKS-Magic® 85

St FS

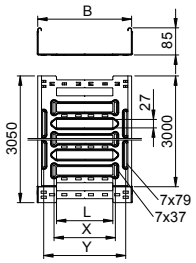


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SKSM 810 FS** | 100 | 1.50 | | 3 | 301.836 | **6059530** |
| **SKSM 820 FS** | 200 | 1.50 | | 3 | 381.967 | **6059534** |
| **SKSM 830 FS** | 300 | 1.50 | | 3 | 438.032 | **6059536** |
| **SKSM 840 FS** | 400 | 1.50 | | 3 | 494.098 | **6059538** |
| **SKSM 850 FS** | 500 | 1.50 | | 3 | 550.163 | **6059540** |
| **SKSM 860 FS** | 600 | 1.50 | | 3 | 605.901 | **6059542** |

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

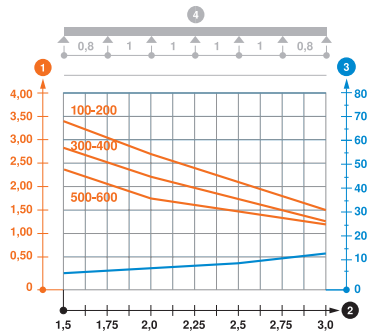
| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dim-en-sion y mm |
|---|---|---|---|---|---|---|
| SKSM 810 FS | 3050 | 100 | 83 | 30 | – | 62 |
| SKSM 820 FS | 3050 | 200 | 186 | 80 | 96 | 162 |
| SKSM 830 FS | 3050 | 300 | 253 | 180 | 196 | 262 |
| SKSM 840 FS | 3050 | 400 | 338 | 280 | 296 | 362 |
| SKSM 850 FS | 3050 | 500 | 423 | 380 | 396 | 462 |
| SKSM 860 FS | 3050 | 600 | 508 | 480 | 496 | 562 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|
| **SKSM 810 FS** | 3.4 | 2.7 | 1.5 |
| **SKSM 820 FS** | 3.4 | 2.7 | 1.5 |
| **SKSM 830 FS** | 2.8 | 2.25 | 1.35 |
| **SKSM 840 FS** | 2.8 | 2.25 | 1.35 |
| **SKSM 850 FS** | 2.4 | 1.75 | 1.2 |
| **SKSM 860 FS** | 2.4 | 1.75 | 1.2 |

### Load




**Load diagram, cable tray, type SKSM 85**

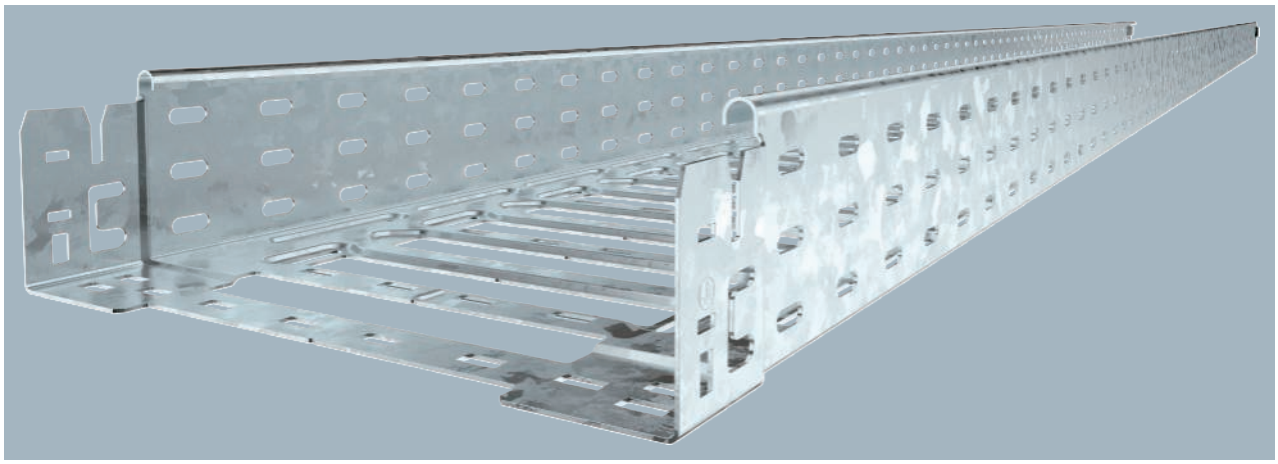
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

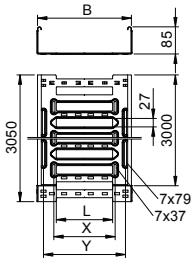
## Cable tray SKS-Magic® 85



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

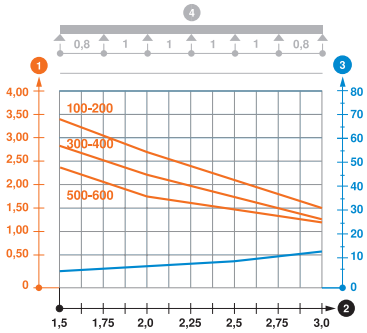
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKSM 810 FT** | 100 | 1.50 | 3 | 321.868 | **6059549** |
| **SKSM 820 FT** | 200 | 1.50 | 3 | 404.918 | **6059553** |
| **SKSM 830 FT** | 300 | 1.50 | 3 | 464.590 | **6059555** |
| **SKSM 840 FT** | 400 | 1.50 | 3 | 523.934 | **6059557** |
| **SKSM 850 FT** | 500 | 1.50 | 3 | 583.278 | **6059559** |
| **SKSM 860 FT** | 600 | 1.50 | 3 | 642.950 | **6059561** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dimension y mm |
|---|---|---|---|---|---|---|
| SKSM 810 FT | 3050 | 100 | 83 | 30 | – | 62 |
| SKSM 820 FT | 3050 | 200 | 186 | 80 | 96 | 162 |
| SKSM 830 FT | 3050 | 300 | 253 | 180 | 196 | 262 |
| SKSM 840 FT | 3050 | 400 | 338 | 280 | 296 | 362 |
| SKSM 850 FT | 3050 | 500 | 423 | 380 | 396 | 462 |
| SKSM 860 FT | 3050 | 600 | 508 | 480 | 496 | 562 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|
| **SKSM 810 FT** | 3.4 | 2.7 | 1.5 |
| **SKSM 820 FT** | 3.4 | 2.7 | 1.5 |
| **SKSM 830 FT** | 2.8 | 2.25 | 1.35 |
| **SKSM 840 FT** | 2.8 | 2.25 | 1.35 |
| **SKSM 850 FT** | 2.4 | 1.75 | 1.2 |
| **SKSM 860 FT** | 2.4 | 1.75 | 1.2 |

**Load diagram, cable tray, type SKSM 85**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width



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## Cable tray SKS-Magic® 85, unperforated

St FS

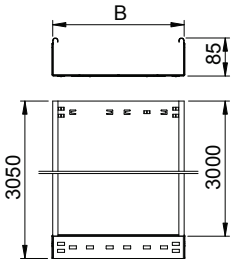


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SKSMU 810 FS** | 100 | 1.50 | | 3 | 345.803 | **6059762** |
| **SKSMU 820 FS** | 200 | 1.50 | | 3 | 463.344 | **6059766** |
| **SKSMU 830 FS** | 300 | 1.50 | | 3 | 581.016 | **6059768** |
| **SKSMU 840 FS** | 400 | 1.50 | | 3 | 698.688 | **6059770** |
| **SKSMU 850 FS** | 500 | 1.50 | | 3 | 816.262 | **6059772** |
| **SKSMU 860 FS** | 600 | 1.50 | | 3 | 933.934 | **6059774** |

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

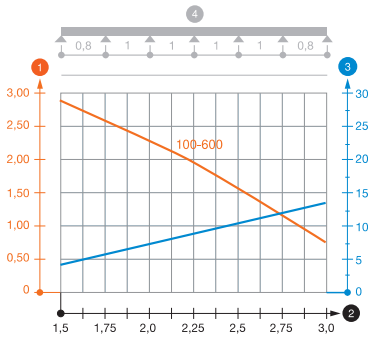
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKSMU 810 FS | 3050 | 100 | 83 |
| SKSMU 820 FS | 3050 | 200 | 186 |
| SKSMU 830 FS | 3050 | 300 | 253 |
| SKSMU 840 FS | 3050 | 400 | 338 |
| SKSMU 850 FS | 3050 | 500 | 423 |
| SKSMU 860 FS | 3050 | 600 | 508 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SKSMU 810 FS** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKSMU 820 FS** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKSMU 830 FS** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKSMU 840 FS** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKSMU 850 FS** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKSMU 860 FS** | 2.8 | 2.25 | 1.5 | 0.75 |

**Load**




**Load diagram, cable tray, type SKSMU 85**

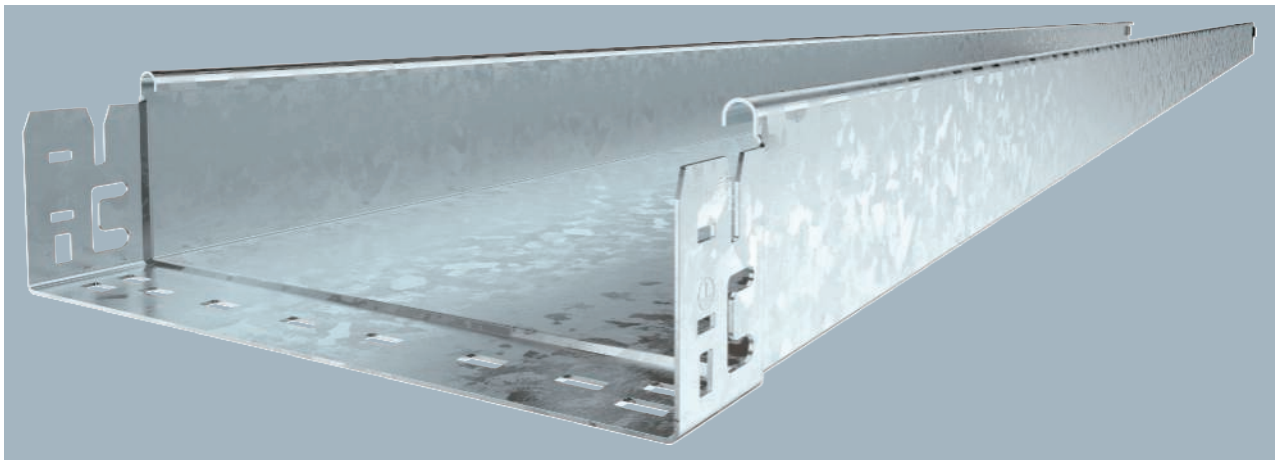
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

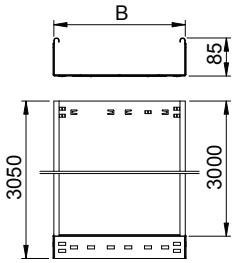
## Cable tray SKS-Magic® 85, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

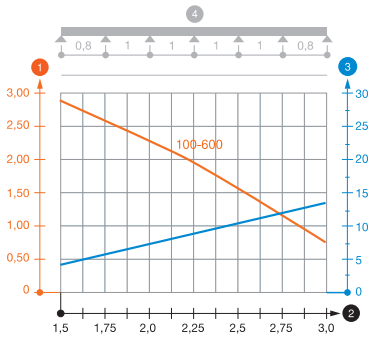
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKSMU 810 FT** | 100 | 1.50 | 3 | 368.819 | **6059779** |
| **SKSMU 820 FT** | 200 | 1.50 | 3 | 494.032 | **6059783** |
| **SKSMU 830 FT** | 300 | 1.50 | 3 | 619.508 | **6059785** |
| **SKSMU 840 FT** | 400 | 1.50 | 3 | 744.983 | **6059787** |
| **SKSMU 850 FT** | 500 | 1.50 | 3 | 848.721 | **6059789** |
| **SKSMU 860 FT** | 600 | 1.50 | 3 | 995.836 | **6059791** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKSMU 810 FT | 3050 | 100 | 83 |
| SKSMU 820 FT | 3050 | 200 | 186 |
| SKSMU 830 FT | 3050 | 300 | 253 |
| SKSMU 840 FT | 3050 | 400 | 338 |
| SKSMU 850 FT | 3050 | 500 | 423 |
| SKSMU 860 FT | 3050 | 600 | 508 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SKSMU 810 FT** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKSMU 820 FT** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKSMU 830 FT** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKSMU 840 FT** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKSMU 850 FT** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKSMU 860 FT** | 2.8 | 2.25 | 1.5 | 0.75 |

**Load diagram, cable tray, type SKSMU 85**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width



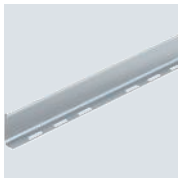
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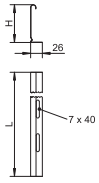
Always indicate the item number when ordering.

# Cable trays, side height 85

## Separating retainer 85

St FS DD





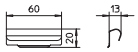

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 85 FS | 85 | 0.75 | 3000 | 3 | 70.233 | 6062114 |
| TSG 85 DD | 85 | 0.75 | 3000 | 3 | 70.300 | 6062331 |

Separating retainer for separation of cables of different voltages or functions.

## Separating retainer connector

VA 2B



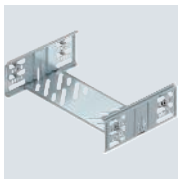


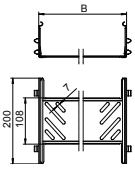

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| TSGV A2 | 10 | 0.899 | 6067970 |

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

## Magic straight connector set 85

St FS DD





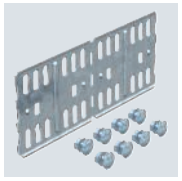

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| KTSMV 810 FS | 85 | 100 | 1 | 37.100 | 6069002 |
| KTSMV 820 FS | 85 | 200 | 1 | 43.800 | 6069006 |
| KTSMV 830 FS | 85 | 300 | 1 | 50.600 | 6069008 |
| KTSMV 840 FS | 85 | 400 | 1 | 57.300 | 6069010 |
| KTSMV 850 FS | 85 | 500 | 1 | 64.000 | 6069012 |
| KTSMV 860 FS | 85 | 600 | 1 | 70.800 | 6069014 |
| KTSMV 810 DD | 85 | 100 | 1 | 37.100 | 6069024 |
| KTSMV 820 DD | 85 | 200 | 1 | 43.800 | 6069028 |
| KTSMV 830 DD | 85 | 300 | 1 | 50.600 | 6069030 |
| KTSMV 840 DD | 85 | 400 | 1 | 57.300 | 6069032 |
| KTSMV 850 DD | 85 | 500 | 1 | 64.000 | 6069034 |
| KTSMV 860 DD | 85 | 600 | 1 | 70.800 | 6069036 |

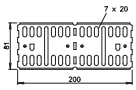
Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 85 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

## Straight and angle connector 85

St FS FT





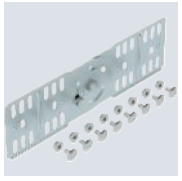

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| RLVL 85 FS | 85 | 10 | 27.300 | 6067123 |
| RLVL 85 FT | 85 | 10 | 28.300 | 6067816 |

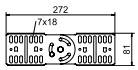
Straight and angle connector for cable trays and fittings with a side height of 85 mm.

Including appropriate fastening material.

## Adjustable connector 85

St FS FT






| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| RGV 85 FS | 85 | 10 | 44.100 | 7082029 |
| RGV 85 FT | 85 | 10 | 45.900 | 7082320 |

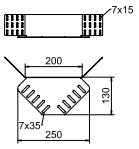
Adjustable connector for cable trays with a side height of 85 mm.

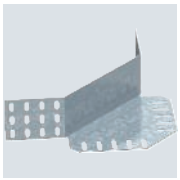
Including appropriate fastening material.

St FS DD

## Corner connector 85

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **REV 85 FS** | 85 | 10 | 61.000 | **6067980** |
| **REV 85 DD** | 85 | 1 | 61.000 | **6069320** |



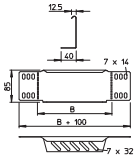



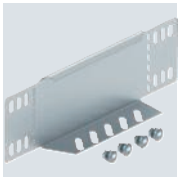
Corner connector for cable trays with side height 85 mm.
Fastening materials should be ordered separately.

St FS DD

## Reducer/stop-end 85

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RWEB 810 FS** | 85 | 100 | 1 | 12.000 | **7110103** |
| **RWEB 820 FS** | 85 | 200 | 1 | 23.000 | **7110200** |
| **RWEB 830 FS** | 85 | 300 | 1 | 33.000 | **7110308** |
| **RWEB 840 FS** | 85 | 400 | 1 | 43.000 | **7110405** |
| **RWEB 850 FS** | 85 | 500 | 1 | 53.000 | **7110502** |
| **RWEB 860 FS** | 85 | 600 | 1 | 63.000 | **7110618** |
| **RWEB 810 DD** | 85 | 100 | 1 | 12.000 | **7107315** |
| **RWEB 820 DD** | 85 | 200 | 1 | 23.000 | **7107331** |
| **RWEB 830 DD** | 85 | 300 | 1 | 33.000 | **7107366** |
| **RWEB 840 DD** | 85 | 400 | 1 | 43.000 | **7107382** |
| **RWEB 850 DD** | 85 | 500 | 1 | 53.000 | **7107404** |
| **RWEB 860 DD** | 85 | 600 | 1 | 63.000 | **7107420** |



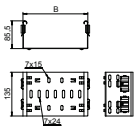



Reducer/stop-end for cable trays with side height 85 mm.
From a width of 150 mm, a perforated bottom flange is available.
Including appropriate fastening material.

St DD

## Magic 85 fitting connector

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **FVM 810 DD** | 85 | 100 | 1 | 37.700 | **6065810** |
| **FVM 820 DD** | 85 | 200 | 1 | 49.800 | **6065814** |
| **FVM 830 DD** | 85 | 300 | 1 | 62.500 | **6065816** |
| **FVM 840 DD** | 85 | 400 | 1 | 75.200 | **6065818** |
| **FVM 850 DD** | 85 | 500 | 1 | 87.400 | **6065820** |
| **FVM 860 DD** | 85 | 600 | 1 | 100.200 | **6065822** |






The fitting connector is compatible with cable tray types MKSM, MKSMU, SKSM and SKSMU.
Magic straight connector for direct and screwless joining of Magic fittings with a side height of 85 mm.
The straight connector is equipped with four brackets and can also be used for the direct connection with a cut cable tray with only two brackets mounted to one side. To join a cut cable tray with a fitting, an additional Magic straight connector set is needed.

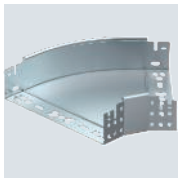


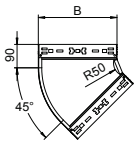
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# Cable trays, side height 85

## 45° Magic bend 85

St FS FT



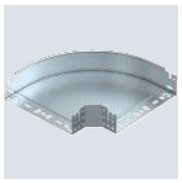


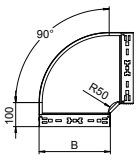

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBM 45 810 FS** | 85 | 100 | 1 | 60.600 | **6041410** |
| **RBM 45 820 FS** | 85 | 200 | 1 | 98.100 | **6041412** |
| **RBM 45 830 FS** | 85 | 300 | 1 | 142.300 | **6041414** |
| **RBM 45 840 FS** | 85 | 400 | 1 | 190.900 | **6041416** |
| **RBM 45 850 FS** | 85 | 500 | 1 | 250.700 | **6041418** |
| **RBM 45 860 FS** | 85 | 600 | 1 | 318.200 | **6041420** |
| **RBM 45 810 FT** | 85 | 100 | 1 | 65.000 | **6041430** |
| **RBM 45 820 FT** | 85 | 200 | 1 | 105.200 | **6041432** |
| **RBM 45 830 FT** | 85 | 300 | 1 | 152.600 | **6041434** |
| **RBM 45 840 FT** | 85 | 400 | 1 | 204.700 | **6041436** |
| **RBM 45 850 FT** | 85 | 500 | 1 | 268.800 | **6041438** |
| **RBM 45 860 FT** | 85 | 600 | 1 | 341.200 | **6041440** |

45° bend with quick connector system. For all cable tray types of 85 mm side height.

## 90° Magic bend 85

St FS FT



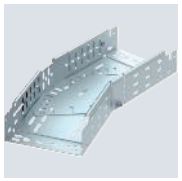


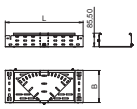

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBM 90 810 FS** | 85 | 100 | 1 | 78.500 | **6041490** |
| **RBM 90 820 FS** | 85 | 200 | 1 | 138.200 | **6041492** |
| **RBM 90 830 FS** | 85 | 300 | 1 | 213.300 | **6041494** |
| **RBM 90 840 FS** | 85 | 400 | 1 | 299.700 | **6041496** |
| **RBM 90 850 FS** | 85 | 500 | 1 | 405.300 | **6041498** |
| **RBM 90 860 FS** | 85 | 600 | 1 | 526.400 | **6041500** |
| **RBM 90 810 FT** | 85 | 100 | 1 | 84.200 | **6041510** |
| **RBM 90 820 FT** | 85 | 200 | 1 | 148.700 | **6041512** |
| **RBM 90 830 FT** | 85 | 300 | 1 | 228.700 | **6041514** |
| **RBM 90 840 FT** | 85 | 400 | 1 | 321.400 | **6041516** |
| **RBM 90 850 FT** | 85 | 500 | 1 | 434.600 | **6041518** |
| **RBM 90 860 FT** | 85 | 600 | 1 | 564.500 | **6041520** |

90° bend with quick connector system. For all cable tray types of 85 mm side height.

## Magic 85 bend, variable

St FS FT





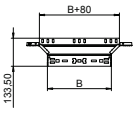

| Type | Side height mm | Dim. B mm | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **RBMV 810 FS** | 85 | 100 | 340 | 1 | 88.500 | **6040580** |
| **RBMV 820 FS** | 85 | 200 | 490 | 1 | 185.400 | **6040584** |
| **RBMV 830 FS** | 85 | 300 | 640 | 1 | 324.700 | **6040586** |
| **RBMV 840 FS** | 85 | 400 | 820 | 1 | 505.500 | **6040588** |
| **RBMV 850 FS** | 85 | 500 | 960 | 1 | 1,059.200 | **6040590** |
| **RBMV 860 FS** | 85 | 600 | 1120 | 1 | 1,433.700 | **6040592** |
| **RBMV 810 FT** | 85 | 100 | 340 | 1 | 100.000 | **6040600** |
| **RBMV 820 FT** | 85 | 200 | 490 | 1 | 202.200 | **6040604** |
| **RBMV 830 FT** | 85 | 300 | 640 | 1 | 430.300 | **6040606** |
| **RBMV 840 FT** | 85 | 400 | 820 | 1 | 676.200 | **6040608** |
| **RBMV 850 FT** | 85 | 500 | 960 | 1 | 1,167.800 | **6040610** |
| **RBMV 860 FT** | 85 | 600 | 1120 | 1 | 1,520.100 | **6040612** |

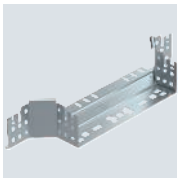
Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 85 mm side height.

St FS FT

## Magic 85 add-on tee

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RAAM 810 FS** | 85 | 100 | 1 | 45.700 | **6041570** |
| **RAAM 820 FS** | 85 | 200 | 1 | 58.400 | **6041572** |
| **RAAM 830 FS** | 85 | 300 | 1 | 71.300 | **6041574** |
| **RAAM 840 FS** | 85 | 400 | 1 | 84.300 | **6041576** |
| **RAAM 850 FS** | 85 | 500 | 1 | 97.100 | **6041578** |
| **RAAM 860 FS** | 85 | 600 | 1 | 110.500 | **6041580** |
| **RAAM 810 FT** | 85 | 100 | 1 | 49.000 | **6041590** |
| **RAAM 820 FT** | 85 | 200 | 1 | 62.600 | **6041592** |
| **RAAM 830 FT** | 85 | 300 | 1 | 76.500 | **6041594** |
| **RAAM 840 FT** | 85 | 400 | 1 | 90.400 | **6041596** |
| **RAAM 850 FT** | 85 | 500 | 1 | 104.100 | **6041598** |
| **RAAM 860 FT** | 85 | 600 | 1 | 118.500 | **6041600** |



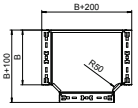



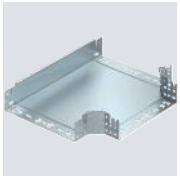
Add-on tee with quick connector system. For all cable tray types of 85 mm side height.

St FS FT

## Magic 85 T branch piece

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RTM 810 FS** | 85 | 100 | 1 | 98.700 | **6041660** |
| **RTM 820 FS** | 85 | 200 | 1 | 168.200 | **6041662** |
| **RTM 830 FS** | 85 | 300 | 1 | 255.800 | **6041664** |
| **RTM 840 FS** | 85 | 400 | 1 | 358.100 | **6041666** |
| **RTM 850 FS** | 85 | 500 | 1 | 485.400 | **6041668** |
| **RTM 860 FS** | 85 | 600 | 1 | 632.400 | **6041670** |
| **RTM 810 FT** | 85 | 100 | 1 | 105.800 | **6041680** |
| **RTM 820 FT** | 85 | 200 | 1 | 180.400 | **6041682** |
| **RTM 830 FT** | 85 | 300 | 1 | 274.300 | **6041684** |
| **RTM 840 FT** | 85 | 400 | 1 | 384.000 | **6041686** |
| **RTM 850 FT** | 85 | 500 | 1 | 520.500 | **6041688** |
| **RTM 860 FT** | 85 | 600 | 1 | 678.200 | **6041690** |



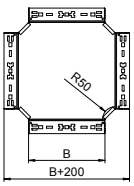



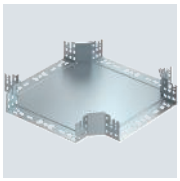
Tee with quick connector system. For all cable tray types of 85 mm side height.

St FS FT

## Magic 85 cross-over

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RKM 810 FS** | 85 | 100 | 1 | 108.700 | **7027081** |
| **RKM 820 FS** | 85 | 200 | 1 | 176.300 | **7027085** |
| **RKM 830 FS** | 85 | 300 | 1 | 261.600 | **7027087** |
| **RKM 840 FS** | 85 | 400 | 1 | 358.900 | **7027089** |
| **RKM 850 FS** | 85 | 500 | 1 | 483.800 | **7027091** |
| **RKM 860 FS** | 85 | 600 | 1 | 628.400 | **7027093** |
| **RKM 810 FT** | 85 | 100 | 1 | 116.600 | **7027101** |
| **RKM 820 FT** | 85 | 200 | 1 | 189.100 | **7027105** |
| **RKM 830 FT** | 85 | 300 | 1 | 280.500 | **7027107** |
| **RKM 840 FT** | 85 | 400 | 1 | 384.900 | **7027109** |
| **RKM 850 FT** | 85 | 500 | 1 | 518.900 | **7027111** |
| **RKM 860 FT** | 85 | 600 | 1 | 673.900 | **7027113** |



Cross-over with quick connector system. For all cable tray types of 85 mm side height.



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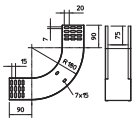
Always indicate the item number when ordering.

# Cable trays, side height 85

## 90° vertical bend, rising 85

St FS FT





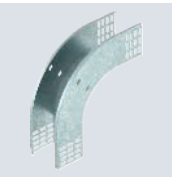
| Type | Side height mm | Dim. B mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **RBV 810 S FS** | 85 | 100 | | 1 | 97.100 | **7007230** |
| **RBV 820 S FS** | 85 | 200 | | 1 | 132.600 | **7007234** |
| **RBV 830 S FS** | 85 | 300 | | 1 | 156.200 | **7007238** |
| **RBV 840 S FS** | 85 | 400 | | 1 | 179.900 | **7007242** |
| **RBV 850 S FS** | 85 | 500 | | 1 | 203.500 | **7007246** |
| **RBV 860 S FS** | 85 | 600 | | 1 | 227.100 | **7007250** |
| **RBV 810 S FT** | 85 | 100 | | 1 | 97.100 | **7007231** |
| **RBV 820 S FT** | 85 | 200 | | 1 | 132.600 | **7007235** |
| **RBV 830 S FT** | 85 | 300 | | 1 | 156.200 | **7007239** |
| **RBV 840 S FT** | 85 | 400 | | 1 | 179.900 | **7007243** |
| **RBV 850 S FT** | 85 | 500 | | 1 | 203.500 | **7007247** |
| **RBV 860 S FT** | 85 | 600 | | 1 | 227.100 | **7007251** |

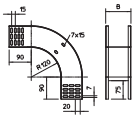
90° rising vertical bend, for all cable tray types of 85 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

## 90° vertical bend, falling 85

St FS FT





| Type | Side height mm | Dim. B mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **RBV 810 F FS** | 85 | 100 | | 1 | 86.600 | **7007270** |
| **RBV 820 F FS** | 85 | 200 | | 1 | 104.200 | **7007274** |
| **RBV 830 F FS** | 85 | 300 | | 1 | 121.800 | **7007278** |
| **RBV 840 F FS** | 85 | 400 | | 1 | 139.500 | **7007282** |
| **RBV 850 F FS** | 85 | 500 | | 1 | 157.100 | **7007286** |
| **RBV 860 F FS** | 85 | 600 | | 1 | 174.700 | **7007290** |
| **RBV 810 F FT** | 85 | 100 | | 1 | 86.600 | **7007271** |
| **RBV 820 F FT** | 85 | 200 | | 1 | 104.200 | **7007275** |
| **RBV 830 F FT** | 85 | 300 | | 1 | 121.800 | **7007279** |
| **RBV 840 F FT** | 85 | 400 | | 1 | 139.500 | **7007283** |
| **RBV 850 F FT** | 85 | 500 | | 1 | 157.100 | **7007287** |
| **RBV 860 F FT** | 85 | 600 | | 1 | 174.700 | **7007291** |

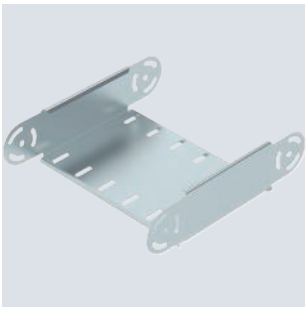
90° vertical bend, falling, for all cable tray types of 85 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

## Adjustable bend element, vertical 85

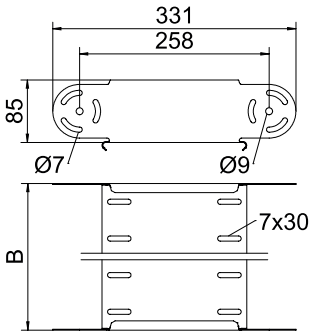
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RGBEV 810 FS** | 85 | 1 | 71.500 | **7005466** |
| **RGBEV 820 FS** | 85 | 1 | 91.900 | **7005482** |
| **RGBEV 830 FS** | 85 | 1 | 112.400 | **7005504** |
| **RGBEV 840 FS** | 85 | 1 | 133.000 | **7005520** |
| **RGBEV 850 FS** | 85 | 1 | 153.100 | **7005547** |
| **RGBEV 860 FS** | 85 | 1 | 173.400 | **7005563** |
| **RGBEV 810 FT** | 85 | 1 | 76.700 | **7076096** |
| **RGBEV 820 FT** | 85 | 1 | 98.500 | **7076207** |
| **RGBEV 830 FT** | 85 | 1 | 120.500 | **7076304** |
| **RGBEV 840 FT** | 85 | 1 | 142.000 | **7076401** |
| **RGBEV 850 FT** | 85 | 1 | 164.100 | **7076509** |
| **RGBEV 860 FT** | 85 | 1 | 185.900 | **7076606** |



Adjustable vertical bend element, for all cable tray types with a side height of 85 mm.
RGV 85 adjustable connectors should be ordered separately and in the appropriate quantity.

| Type | Dim. B mm | Metal thick-ness mm |
|---|---|---|
| RGBEV 810 FS | 100 | 1.00 |
| RGBEV 820 FS | 200 | 1.00 |
| RGBEV 830 FS | 300 | 1.00 |
| RGBEV 840 FS | 400 | 1.00 |
| RGBEV 850 FS | 500 | 1.00 |
| RGBEV 860 FS | 600 | 1.00 |

**Dimensions**

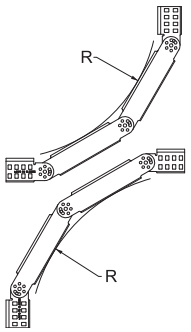



**Radius table**

| Quantity of elements | Radius |
|---|---|
| 1 | approx. 300 mm |
| 2 | approx. 450 mm |
| 3 | approx. 600 mm |
| 4 | approx. 750 mm |
| 5 | approx. 900 mm |

Please order two RGV 85 adjustable connectors separately.

**Installation**




Always indicate the item number when ordering.

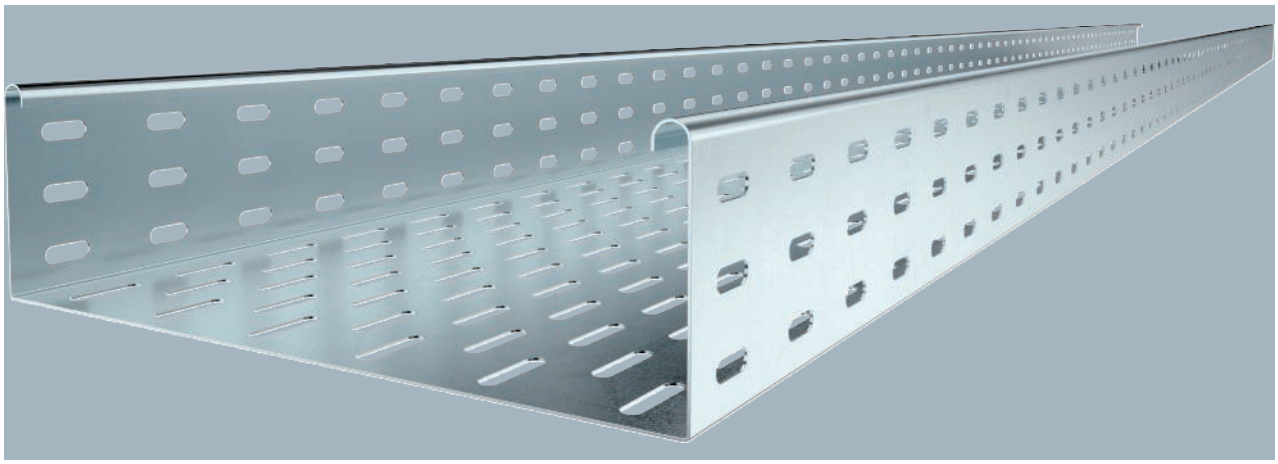




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## Cable tray MKS 85

St FS



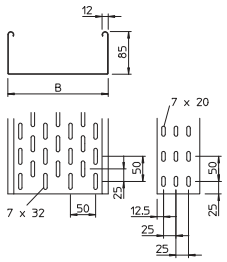
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKS 810 FS** | 100 | 1.00 | 3 | 207.670 | **6057101** |
| **MKS 820 FS** | 200 | 1.00 | 3 | 292.334 | **6057209** |
| **MKS 830 FS** | 300 | 1.00 | 3 | 357.667 | **6057306** |
| **MKS 840 FS** | 400 | 1.00 | 3 | 423.000 | **6057403** |
| **MKS 850 FS** | 500 | 1.00 | 3 | 488.000 | **6057500** |
| **MKS 860 FS** | 600 | 1.00 | 3 | 553.000 | **6057535** |

Including connector, type RLVL 85.

MKS 85 = medium-duty cable tray system with a side height of 85 mm.

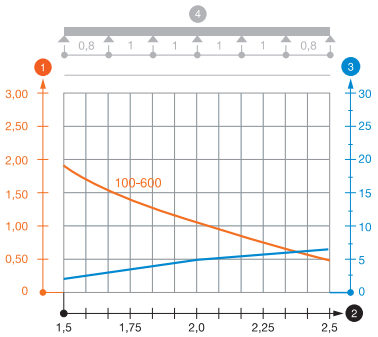
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKS 810 FS | 3000 | 100 | 83 |
| MKS 820 FS | 3000 | 200 | 186 |
| MKS 830 FS | 3000 | 300 | 253 |
| MKS 840 FS | 3000 | 400 | 338 |
| MKS 850 FS | 3000 | 500 | 423 |
| MKS 860 FS | 3000 | 600 | 508 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|
| **MKS 810 FS** | 1.75 | 1.1 | 0.5 |
| **MKS 820 FS** | 1.75 | 1.1 | 0.5 |
| **MKS 830 FS** | 1.75 | 1.1 | 0.5 |
| **MKS 840 FS** | 1.75 | 1.1 | 0.5 |
| **MKS 850 FS** | 1.75 | 1.1 | 0.5 |
| **MKS 860 FS** | 1.75 | 1.1 | 0.5 |

### Load

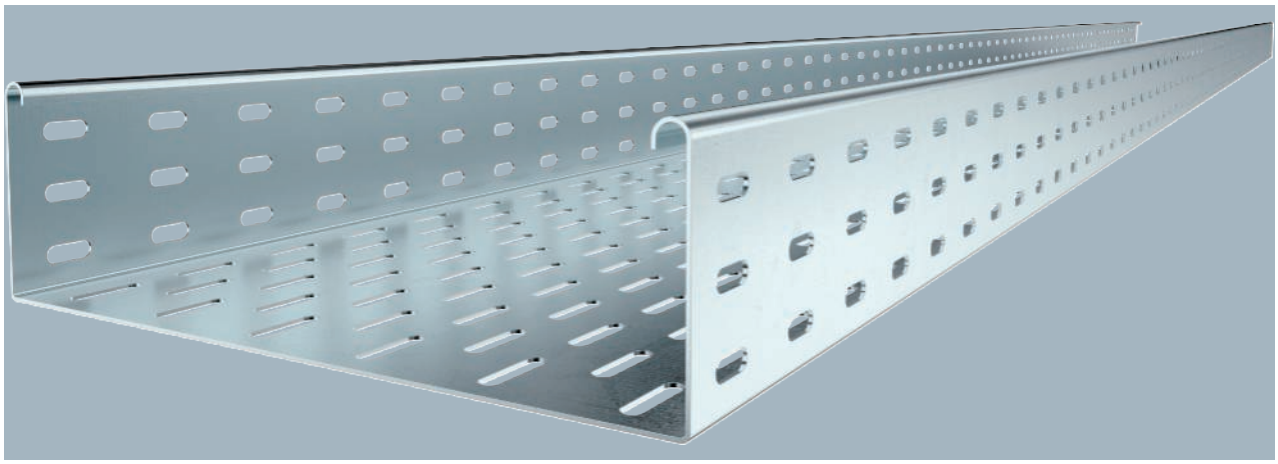



### Load diagram, cable tray, type MKS 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
- From width 300 mm, tested with joint plate SSLB

St FS

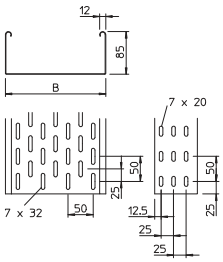
## Cable tray SKS 85



FS version includes connector, type RLVL 85.
SKS 85 = heavy-duty cable tray system with 85 mm side height.

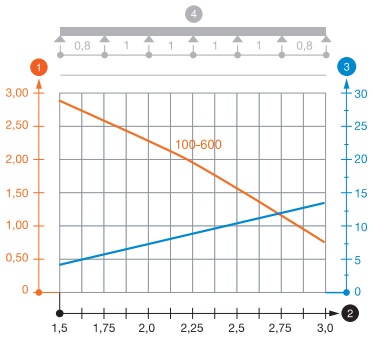
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKS 810 FS** | 100 | 1.50 | 3 | 310.340 | **6058108** |
| **SKS 820 FS** | 200 | 1.50 | 3 | 429.000 | **6058205** |
| **SKS 830 FS** | 300 | 1.50 | 3 | 527.000 | **6058302** |
| **SKS 840 FS** | 400 | 1.50 | 3 | 624.000 | **6058396** |
| **SKS 850 FS** | 500 | 1.50 | 3 | 721.667 | **6058507** |
| **SKS 860 FS** | 600 | 1.50 | 3 | 821.000 | **6058604** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKS 810 FS | 3000 | 100 | 83 |
| SKS 820 FS | 3000 | 200 | 186 |
| SKS 830 FS | 3000 | 300 | 253 |
| SKS 840 FS | 3000 | 400 | 338 |
| SKS 850 FS | 3000 | 500 | 423 |
| SKS 860 FS | 3000 | 600 | 508 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SKS 810 FS** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKS 820 FS** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKS 830 FS** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKS 840 FS** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKS 850 FS** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKS 860 FS** | 2.8 | 2.25 | 1.5 | 0.75 |

**Load diagram, cable tray, type SKS 85**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.

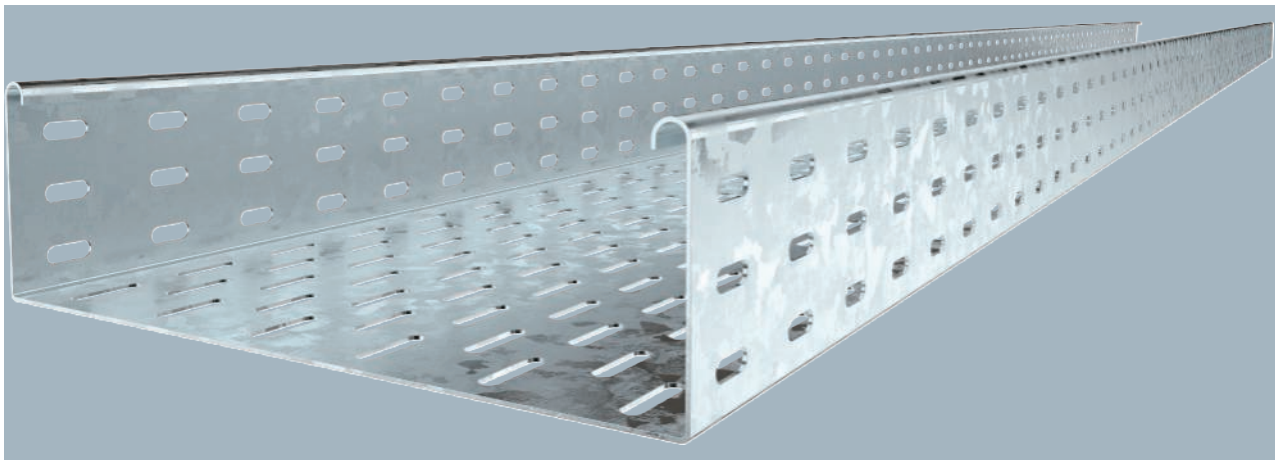




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## Cable tray SKS 85

St FT

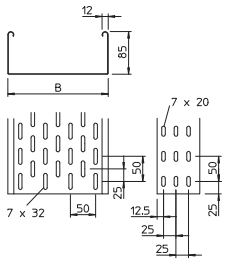


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SKS 810 FT** | 100 | 1.50 | | 3 | 334.000 | **6058620** |
| **SKS 820 FT** | 200 | 1.50 | | 3 | 438.340 | **6058647** |
| **SKS 830 FT** | 300 | 1.50 | | 3 | 543.000 | **6058663** |
| **SKS 840 FT** | 400 | 1.50 | | 3 | 644.000 | **6058698** |
| **SKS 850 FT** | 500 | 1.50 | | 3 | 750.340 | **6058728** |
| **SKS 860 FT** | 600 | 1.50 | | 3 | 856.670 | **6058744** |

SKS 85 = heavy-duty cable tray system with 85 mm side height.

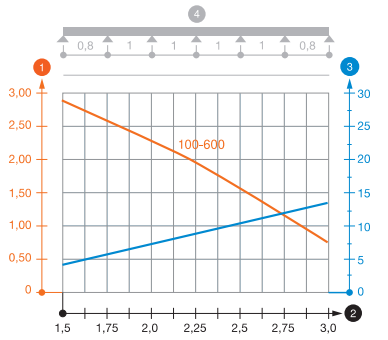
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKS 810 FT | 3000 | 100 | 83 |
| SKS 820 FT | 3000 | 200 | 186 |
| SKS 830 FT | 3000 | 300 | 253 |
| SKS 840 FT | 3000 | 400 | 338 |
| SKS 850 FT | 3000 | 500 | 423 |
| SKS 860 FT | 3000 | 600 | 508 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SKS 810 FT** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKS 820 FT** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKS 830 FT** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKS 840 FT** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKS 850 FT** | 2.8 | 2.25 | 1.5 | 0.75 |
| **SKS 860 FT** | 2.8 | 2.25 | 1.5 | 0.75 |

### Load




### Load diagram, cable tray, type SKS 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

## Cable tray MKSU 85

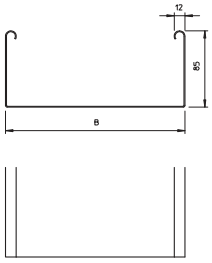


Including connector, type RLVL 85.

MKSU 85 = medium-duty cable tray system with a side height of 85 mm.

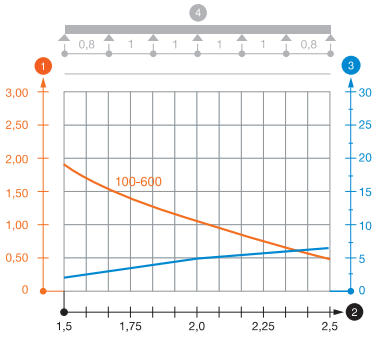
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKSU 820 FS** | 200 | 1.00 | 3 | 308.340 | **6063314** |
| **MKSU 830 FS** | 300 | 1.00 | 3 | 386.670 | **6063330** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKSU 820 FS | 3000 | 200 | 186 |
| MKSU 830 FS | 3000 | 300 | 253 |

### Load




| | 1.5 m kN/m | 1.75 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|---|
| **MKSU 820 FS** | 1.75 | 1.4 | 1.1 | 0.5 |
| **MKSU 830 FS** | 1.75 | 1.4 | 1.1 | 0.5 |

**Load diagram, cable tray, type MKSU 85**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

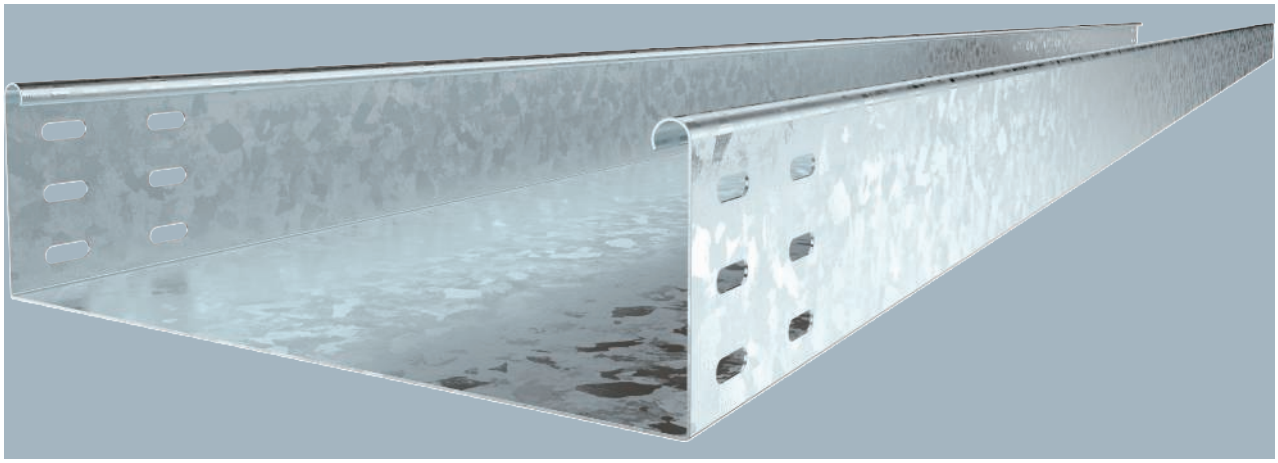




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## Cable tray MKSU 85

St FT



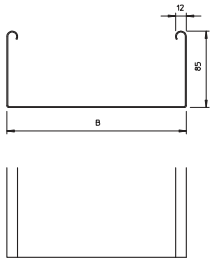
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKSU 810 FT** | 100 | 1.00 | 3 | 248.500 | **6064556** |
| **MKSU 820 FT** | 200 | 1.00 | 3 | 333.500 | **6064559** |
| **MKSU 830 FT** | 300 | 1.00 | 3 | 417.700 | **6064561** |
| **MKSU 840 FT** | 400 | 1.00 | 3 | 502.500 | **6064564** |
| **MKSU 850 FT** | 500 | 1.00 | 3 | 587.500 | **6064568** |
| **MKSU 860 FT** | 600 | 1.00 | 3 | 671.700 | **6064571** |

Including connector, type RLVL 85.

MKSU 85 = medium-duty cable tray system with a side height of 85 mm.

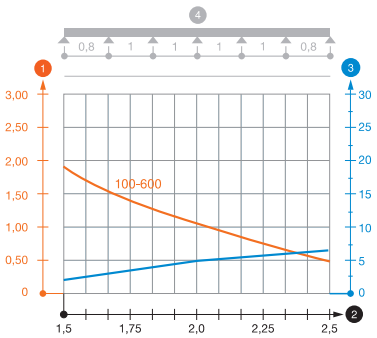
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKSU 810 FT | 3000 | 100 | 83 |
| MKSU 820 FT | 3000 | 200 | 186 |
| MKSU 830 FT | 3000 | 300 | 253 |
| MKSU 840 FT | 3000 | 400 | 338 |
| MKSU 850 FT | 3000 | 500 | 423 |
| MKSU 860 FT | 3000 | 600 | 508 |

**Dimensions**




| | 1.5 m kN/m | 1.75 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|---|
| **MKSU 810 FT** | 1.75 | 1.4 | 1.1 | 0.5 |
| **MKSU 820 FT** | 1.75 | 1.4 | 1.1 | 0.5 |
| **MKSU 830 FT** | 1.75 | 1.4 | 1.1 | 0.5 |
| **MKSU 840 FT** | 1.75 | 1.4 | 1.1 | 0.5 |
| **MKSU 850 FT** | 1.75 | 1.4 | 1.1 | 0.5 |
| **MKSU 860 FT** | 1.75 | 1.4 | 1.1 | 0.5 |

**Load**




**Load diagram, cable tray, type MKSU 85**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

## Cable tray MKSU 85

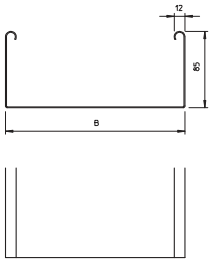


Including connector, type RLVL 85.

MKSU 85 = medium-duty cable tray system with a side height of 85 mm.

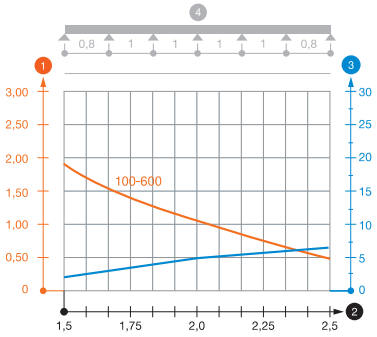
| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **MKSU 810 FS** | 100 | 1.00 | | 3 | 230.000 | **6063312** |
| **MKSU 840 FS** | 400 | 1.00 | | 3 | 465.000 | **6063332** |
| **MKSU 850 FS** | 500 | 1.00 | | 3 | 543.700 | **6063334** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKSU 810 FS | 3000 | 100 | 83 |
| MKSU 840 FS | 3000 | 400 | 338 |
| MKSU 850 FS | 3000 | 500 | 423 |

### Load




| | 1.5 m kN/m | 1.75 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|---|
| **MKSU 810 FS** | 1.75 | 1.4 | 1.1 | 0.5 |
| **MKSU 840 FS** | 1.75 | 1.4 | 1.1 | 0.5 |
| **MKSU 850 FS** | 1.75 | 1.4 | 1.1 | 0.5 |

**Load diagram, cable tray, type MKSU 85**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

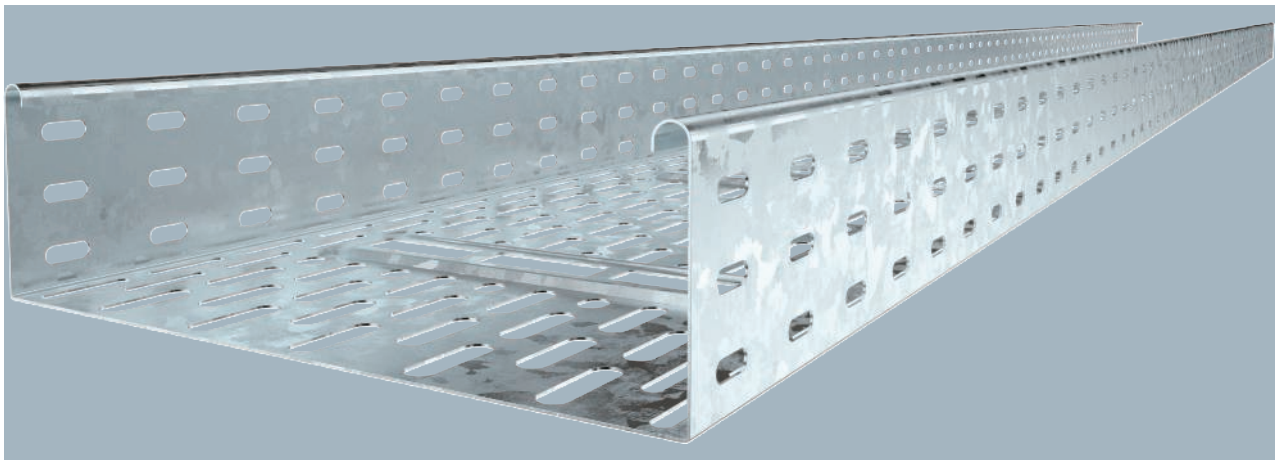
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

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## Cable tray DKS 85

St FT

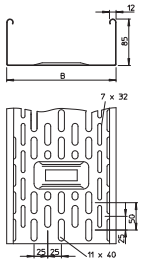


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DKS 820 FT** | 200 | 1.00 | | 3 | 276.000 | **6086497** |

Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.
DKS 85 = perforated cable tray system with 85 mm side height.

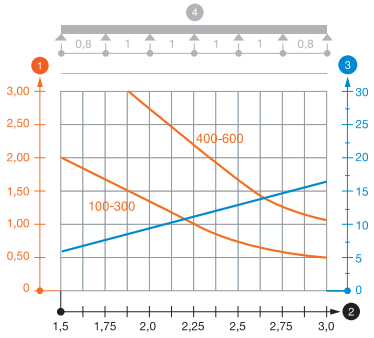
| Type | Length mm | Width mm | Usable cross-section cm² |
|---|---|---|---|
| DKS 820 FT | 3000 | 200 | 186 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **DKS 820 FT** | 2 | 1.1 | 0.65 | 0.5 |

**Load**



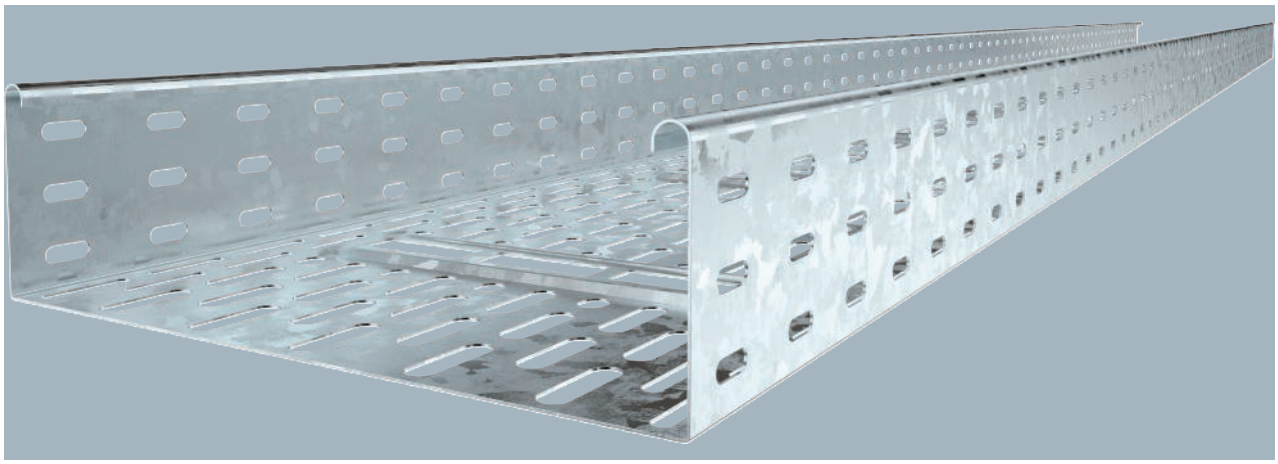

**Load diagram, cable tray, type DKS 85**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FT

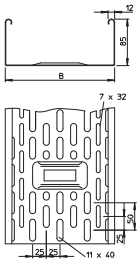
## Cable tray DKS 85



Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.
DKS 85 = perforated cable tray system with 85 mm side height.

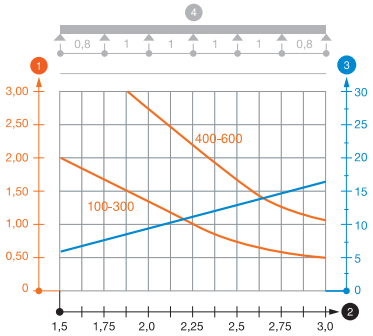
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **DKS 810 FT** | 100 | 1.00 | 3 | 215.600 | **6086470** |
| **DKS 830 FT** | 300 | 1.00 | 3 | 333.340 | **6086519** |
| **DKS 840 FT** | 400 | 1.50 | 3 | 580.400 | **6086659** |
| **DKS 850 FT** | 500 | 1.50 | 3 | 663.700 | **6086675** |
| **DKS 860 FT** | 600 | 1.50 | 3 | 746.967 | **6086691** |

### Dimensions




| Type | Length mm | Width mm | Usable cross-section cm² |
|---|---|---|---|
| DKS 810 FT | 3000 | 100 | 83 |
| DKS 830 FT | 3000 | 300 | 253 |
| DKS 840 FT | 3000 | 400 | 338 |
| DKS 850 FT | 3000 | 500 | 423 |
| DKS 860 FT | 3000 | 600 | 508 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **DKS 810 FT** | 2 | 1.1 | 0.65 | 0.5 |
| **DKS 830 FT** | 2 | 1.1 | 0.65 | 0.5 |
| **DKS 840 FT** | 3 | 2.75 | 1.5 | 1.1 |
| **DKS 850 FT** | 3 | 2.75 | 1.5 | 1.1 |
| **DKS 860 FT** | 3 | 2.75 | 1.5 | 1.1 |

**Load diagram, cable tray, type DKS 85**

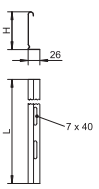
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FS DD

## Separating retainer 60

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 60 FS** | 60 | 0.75 | 3000 | 3 | 55.700 | **6062068** |
| **TSG 60 DD** | 60 | 0.75 | 3000 | 3 | 55.700 | **6062327** |






Separating retainer for separation of cables of different voltages or functions.

Always indicate the item number when ordering.



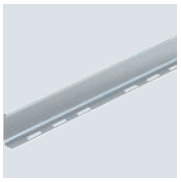


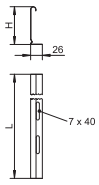
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# Cable trays, side height 85

## Separating retainer 85

St FS DD





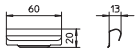

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 85 FS** | 85 | 0.75 | 3000 | 3 | 70.233 | **6062114** |
| **TSG 85 DD** | 85 | 0.75 | 3000 | 3 | 70.300 | **6062331** |

Separating retainer for separation of cables of different voltages or functions.

## Separating retainer connector

VA 2B



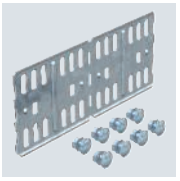


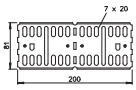

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **TSGV A2** | 10 | 0.899 | **6067970** |

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

## Straight and angle connector 85

St FS FT



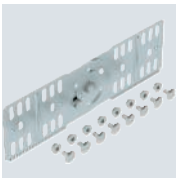


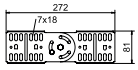

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RLVL 85 FS** | 85 | 10 | 27.300 | **6067123** |
| **RLVL 85 FT** | 85 | 10 | 28.300 | **6067816** |

Straight and angle connector for cable trays and fittings with a side height of 85 mm.
Including appropriate fastening material.

## Adjustable connector 85

St FS FT



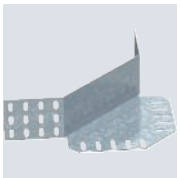


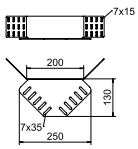

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RGV 85 FS** | 85 | 10 | 44.100 | **7082029** |
| **RGV 85 FT** | 85 | 10 | 45.900 | **7082320** |

Adjustable connector for cable trays with a side height of 85 mm.
Including appropriate fastening material.

## Corner connector 85

St FS DD





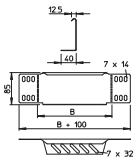

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **REV 85 FS** | 85 | 10 | 61.000 | **6067980** |
| **REV 85 DD** | 85 | 1 | 61.000 | **6069320** |

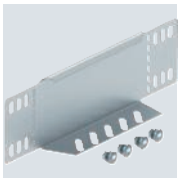
Corner connector for cable trays with side height 85 mm.
Fastening materials should be ordered separately.

St FS DD

## Reducer/stop-end 85

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RWEB 810 FS | 85 | 100 | 1 | 12.000 | 7110103 |
| RWEB 820 FS | 85 | 200 | 1 | 23.000 | 7110200 |
| RWEB 830 FS | 85 | 300 | 1 | 33.000 | 7110308 |
| RWEB 840 FS | 85 | 400 | 1 | 43.000 | 7110405 |
| RWEB 850 FS | 85 | 500 | 1 | 53.000 | 7110502 |
| RWEB 860 FS | 85 | 600 | 1 | 63.000 | 7110618 |
| RWEB 810 DD | 85 | 100 | 1 | 12.000 | 7107315 |
| RWEB 820 DD | 85 | 200 | 1 | 23.000 | 7107331 |
| RWEB 830 DD | 85 | 300 | 1 | 33.000 | 7107366 |
| RWEB 840 DD | 85 | 400 | 1 | 43.000 | 7107382 |
| RWEB 850 DD | 85 | 500 | 1 | 53.000 | 7107404 |
| RWEB 860 DD | 85 | 600 | 1 | 63.000 | 7107420 |



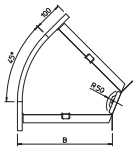



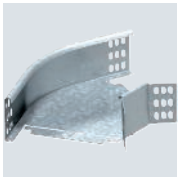
Reducer/stop-end for cable trays with side height 85 mm.
From a width of 150 mm, a perforated bottom flange is available.
Including appropriate fastening material.

St FS FT

## 45° bend 85

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RB 45 810 FS | 85 | 100 | 1 | 60.000 | 7000472 |
| RB 45 820 FS | 85 | 200 | 1 | 85.000 | 7000499 |
| RB 45 830 FS | 85 | 300 | 1 | 120.000 | 7000510 |
| RB 45 810 FT | 85 | 100 | 1 | 65.000 | 7067119 |
| RB 45 820 FT | 85 | 200 | 1 | 90.000 | 7067216 |
| RB 45 830 FT | 85 | 300 | 1 | 130.000 | 7067313 |



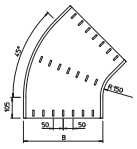



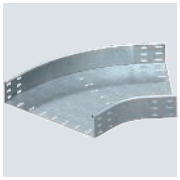
45° bend, horizontal, for all cable tray types of 85 mm side height.
The fitting is shipped in an unmounted state. The WKV 85 angle connector is designed for 90° bends and can be adjusted to 45° on site.
Including appropriate fastening material.

St FS FT

## 45° bend 85

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RB 45 840 FS | 85 | 400 | 1 | 320.000 | 7000529 |
| RB 45 850 FS | 85 | 500 | 1 | 380.000 | 7000545 |
| RB 45 860 FS | 85 | 600 | 1 | 490.000 | 7000561 |
| RB 45 840 FT | 85 | 400 | 1 | 340.000 | 7067402 |
| RB 45 850 FT | 85 | 500 | 1 | 400.000 | 7067496 |
| RB 45 860 FT | 85 | 600 | 1 | 525.000 | 7067607 |



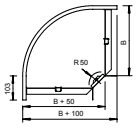



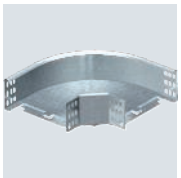
45° bend, horizontal, for all cable tray types of 85 mm side height.
Fastening materials should be ordered separately.

St FS FT

## 90° bend 85

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RB 90 810 FS | 85 | 100 | 1 | 65.000 | 7001762 |
| RB 90 820 FS | 85 | 200 | 1 | 150.000 | 7001789 |
| RB 90 830 FS | 85 | 300 | 1 | 180.000 | 7001800 |
| RB 90 810 FT | 85 | 100 | 1 | 70.000 | 7126127 |
| RB 90 820 FT | 85 | 200 | 1 | 160.000 | 7126216 |
| RB 90 830 FT | 85 | 300 | 1 | 200.000 | 7126301 |



90° bend, horizontal, for all cable tray types of 85 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.



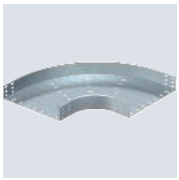


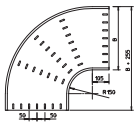
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# Cable trays, side height 85

## 90° bend 85

St FS FT





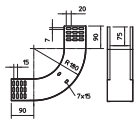
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RB 90 840 FS | 85 | 400 | 1 | 500.000 | 7001819 |
| RB 90 850 FS | 85 | 500 | 1 | 650.000 | 7001835 |
| RB 90 860 FS | 85 | 600 | 1 | 820.000 | 7001851 |
| RB 90 840 FT | 85 | 400 | 1 | 540.000 | 7126417 |
| RB 90 850 FT | 85 | 500 | 1 | 690.000 | 7126514 |
| RB 90 860 FT | 85 | 600 | 1 | 870.000 | 7126611 |

90° bend, horizontal, for all cable tray types of 85 mm side height.
Fastening materials should be ordered separately.

## 90° vertical bend, rising 85

St FS FT



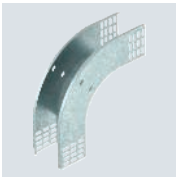


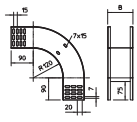
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RBV 810 S FS | 85 | 100 | 1 | 97.100 | 7007230 |
| RBV 820 S FS | 85 | 200 | 1 | 132.600 | 7007234 |
| RBV 830 S FS | 85 | 300 | 1 | 156.200 | 7007238 |
| RBV 840 S FS | 85 | 400 | 1 | 179.900 | 7007242 |
| RBV 850 S FS | 85 | 500 | 1 | 203.500 | 7007246 |
| RBV 860 S FS | 85 | 600 | 1 | 227.100 | 7007250 |
| RBV 810 S FT | 85 | 100 | 1 | 97.100 | 7007231 |
| RBV 820 S FT | 85 | 200 | 1 | 132.600 | 7007235 |
| RBV 830 S FT | 85 | 300 | 1 | 156.200 | 7007239 |
| RBV 840 S FT | 85 | 400 | 1 | 179.900 | 7007243 |
| RBV 850 S FT | 85 | 500 | 1 | 203.500 | 7007247 |
| RBV 860 S FT | 85 | 600 | 1 | 227.100 | 7007251 |

90° rising vertical bend, for all cable tray types of 85 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

## 90° vertical bend, falling 85

St FS FT





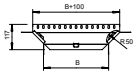
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RBV 810 F FS | 85 | 100 | 1 | 86.600 | 7007270 |
| RBV 820 F FS | 85 | 200 | 1 | 104.200 | 7007274 |
| RBV 830 F FS | 85 | 300 | 1 | 121.800 | 7007278 |
| RBV 840 F FS | 85 | 400 | 1 | 139.500 | 7007282 |
| RBV 850 F FS | 85 | 500 | 1 | 157.100 | 7007286 |
| RBV 860 F FS | 85 | 600 | 1 | 174.700 | 7007290 |
| RBV 810 F FT | 85 | 100 | 1 | 86.600 | 7007271 |
| RBV 820 F FT | 85 | 200 | 1 | 104.200 | 7007275 |
| RBV 830 F FT | 85 | 300 | 1 | 121.800 | 7007279 |
| RBV 840 F FT | 85 | 400 | 1 | 139.500 | 7007283 |
| RBV 850 F FT | 85 | 500 | 1 | 157.100 | 7007287 |
| RBV 860 F FT | 85 | 600 | 1 | 174.700 | 7007291 |

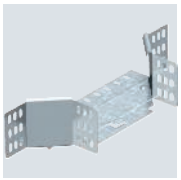
90° vertical bend, falling, for all cable tray types of 85 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

## Add-on tee 85

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RAA 810 FS** | 85 | 100 | 1 | 40.000 | **7002475** |
| **RAA 820 FS** | 85 | 200 | 1 | 45.000 | **7002491** |
| **RAA 830 FS** | 85 | 300 | 1 | 60.000 | **7002513** |
| **RAA 810 FT** | 85 | 100 | 1 | 45.000 | **7122109** |
| **RAA 820 FT** | 85 | 200 | 1 | 50.000 | **7122213** |
| **RAA 830 FT** | 85 | 300 | 1 | 65.000 | **7122310** |





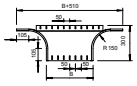
Add-on tee for horizontal and vertical use. For all cable tray types of 85 mm side height.

The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

## Add-on tee 85

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RAA 840 FS** | 85 | 400 | 1 | 230.000 | **7002521** |
| **RAA 850 FS** | 85 | 500 | 1 | 265.000 | **7002556** |
| **RAA 860 FS** | 85 | 600 | 1 | 295.000 | **7002572** |
| **RAA 840 FT** | 85 | 400 | 1 | 250.000 | **7122403** |
| **RAA 850 FT** | 85 | 500 | 1 | 290.000 | **7122500** |
| **RAA 860 FT** | 85 | 600 | 1 | 320.000 | **7122608** |





Add-on tee for horizontal and vertical use. For all cable tray types of 85 mm side height.

Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.



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# Cable trays, side height 85

## Adjustable bend element, vertical 85

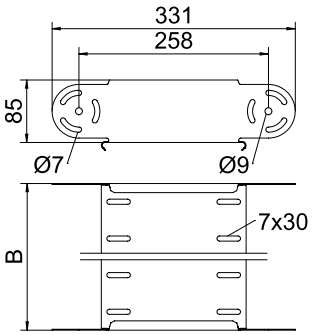
St FS FT



| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RGBEV 810 FS** | 85 | 1 | 71.500 | **7005466** |
| **RGBEV 820 FS** | 85 | 1 | 91.900 | **7005482** |
| **RGBEV 830 FS** | 85 | 1 | 112.400 | **7005504** |
| **RGBEV 840 FS** | 85 | 1 | 133.000 | **7005520** |
| **RGBEV 850 FS** | 85 | 1 | 153.100 | **7005547** |
| **RGBEV 860 FS** | 85 | 1 | 173.400 | **7005563** |
| **RGBEV 810 FT** | 85 | 1 | 76.700 | **7076096** |
| **RGBEV 820 FT** | 85 | 1 | 98.500 | **7076207** |
| **RGBEV 830 FT** | 85 | 1 | 120.500 | **7076304** |
| **RGBEV 840 FT** | 85 | 1 | 142.000 | **7076401** |
| **RGBEV 850 FT** | 85 | 1 | 164.100 | **7076509** |
| **RGBEV 860 FT** | 85 | 1 | 185.900 | **7076606** |

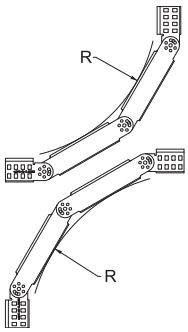
Adjustable vertical bend element, for all cable tray types with a side height of 85 mm.
RGV 85 adjustable connectors should be ordered separately and in the appropriate quantity.

### Dimensions




| Type | Dim. B mm | Metal thick-ness mm |
|---|---|---|
| RGBEV 810 FS | 100 | 1.00 |
| RGBEV 820 FS | 200 | 1.00 |
| RGBEV 830 FS | 300 | 1.00 |
| RGBEV 840 FS | 400 | 1.00 |
| RGBEV 850 FS | 500 | 1.00 |
| RGBEV 860 FS | 600 | 1.00 |

### Installation




**Radius table**

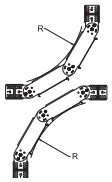
| Quantity of elements | Radius |
|---|---|
| 1 | approx. 300 mm |
| 2 | approx. 450 mm |
| 3 | approx. 600 mm |
| 4 | approx. 750 mm |
| 5 | approx. 900 mm |

Please order two RGV 85 adjustable connectors separately.

## 90° adjustable bend, vertical 85

St FS FT





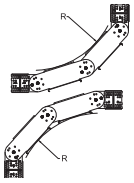

| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RGBV 810 FS** | 85 | 100 | 1 | 244.000 | **7006462** |
| **RGBV 820 FS** | 85 | 200 | 1 | 305.000 | **7006489** |
| **RGBV 830 FS** | 85 | 300 | 1 | 355.000 | **7006500** |
| **RGBV 840 FS** | 85 | 400 | 1 | 407.000 | **7006527** |
| **RGBV 850 FS** | 85 | 500 | 1 | 460.000 | **7006543** |
| **RGBV 860 FS** | 85 | 600 | 1 | 508.000 | **7006578** |
| **RGBV 810 FT** | 85 | 100 | 1 | 261.000 | **7080107** |
| **RGBV 820 FT** | 85 | 200 | 1 | 325.000 | **7080204** |
| **RGBV 830 FT** | 85 | 300 | 1 | 380.000 | **7080301** |
| **RGBV 840 FT** | 85 | 400 | 1 | 435.000 | **7080409** |
| **RGBV 850 FT** | 85 | 500 | 1 | 488.000 | **7080506** |
| **RGBV 860 FT** | 85 | 600 | 1 | 550.000 | **7080603** |

90° adjustable vertical bend, for all cable tray types with a side height of 85 mm.
The bend is shipped in an unmounted state. No additional fastening materials are required.

St FS FT

## 90° adjustable bend, vertical 110

| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RGBV 110 FS** | 110 | 100 | 1 | 363.000 | **7006624** |
| **RGBV 115 FS** | 110 | 150 | 1 | 392.000 | **7006632** |
| **RGBV 120 FS** | 110 | 200 | 1 | 420.000 | **7006640** |
| **RGBV 130 FS** | 110 | 300 | 1 | 480.000 | **7006667** |
| **RGBV 140 FS** | 110 | 400 | 1 | 530.000 | **7006683** |
| **RGBV 150 FS** | 110 | 500 | 1 | 580.000 | **7006705** |
| **RGBV 155 FS** | 110 | 550 | 1 | 610.000 | **7006713** |
| **RGBV 160 FS** | 110 | 600 | 1 | 630.000 | **7006717** |
| **RGBV 110 FT** | 110 | 100 | 1 | 363.000 | **7081103** |
| **RGBV 115 FT** | 110 | 150 | 1 | 392.000 | **7081108** |
| **RGBV 120 FT** | 110 | 200 | 1 | 420.000 | **7081200** |
| **RGBV 130 FT** | 110 | 300 | 1 | 480.000 | **7081308** |
| **RGBV 140 FT** | 110 | 400 | 1 | 530.000 | **7081405** |
| **RGBV 150 FT** | 110 | 500 | 1 | 580.000 | **7081502** |
| **RGBV 155 FT** | 110 | 550 | 1 | 610.000 | **7081553** |
| **RGBV 160 FT** | 110 | 600 | 1 | 630.000 | **7081555** |






90° adjustable vertical bend, for all cable tray types with a side height of 110 mm.
The bend is shipped in an unmounted state. No additional fastening materials are required.



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# Cable tray BKRS, side height 100

## Cable tray BKRS 100

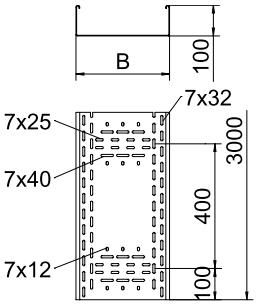
St FS



| Type | Side height mm | Dim. H mm | Dim. B mm | Dim. L mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|---|---|
| **BKRS 1010 FS** | 100 | 100 | 100 | 3000 | 2.00 | | 3 | 469.800 | **6062000** |
| **BKRS 1020 FS** | 100 | 100 | 200 | 3000 | 2.00 | | 3 | 614.567 | **6062002** |
| **BKRS 1030 FS** | 100 | 100 | 300 | 3000 | 2.00 | | 3 | 761.267 | **6062004** |
| **BKRS 1040 FS** | 100 | 100 | 400 | 3000 | 2.00 | | 3 | 908.000 | **6062006** |
| **BKRS 1050 FS** | 100 | 100 | 500 | 3000 | 2.00 | | 3 | 1,054.700 | **6062008** |
| **BKRS 1060 FS** | 100 | 100 | 600 | 3000 | 2.00 | | 3 | 1,201.400 | **6062010** |

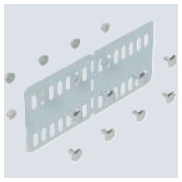
Heavy-duty, walkable cable tray system BKRS with base perforation, in 100 mm side height.

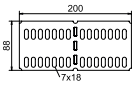
The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.




## Universal connector 100 FS

St FS



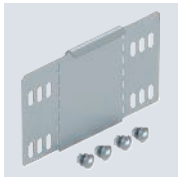


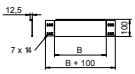

| Type | Side height mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RUVK 100 FS** | 100 | | 10 | 22.100 | **6067870** |

Straight and angle connector for cable trays with a side height of 100 mm.

## Reducer/stop-end 100

St FS





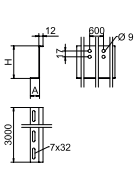

| Type | Side height mm | Dim. B mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **RWEB 1010 FS** | 100 | 100 | | 1 | 13.600 | **7111802** |
| **RWEB 1020 FS** | 100 | 200 | | 1 | 22.100 | **7111804** |
| **RWEB 1030 FS** | 100 | 300 | | 1 | 30.600 | **7111806** |
| **RWEB 1040 FS** | 100 | 400 | | 1 | 39.100 | **7111808** |
| **RWEB 1050 FS** | 100 | 500 | | 1 | 47.600 | **7111810** |
| **RWEB 1060 FS** | 100 | 600 | | 1 | 56.100 | **7111812** |

Reducer/stop-end for cable trays with side height 100 mm.
Including appropriate fastening material.

St FS

## Barrier strip, Z-shaped 100

| Type | Dim. H mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG100Z BKRS FS** | 100 | 2.00 | 3000 | 3 | 187.667 | **6062390** |





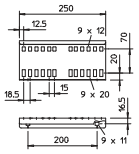

Barrier strip for the BKRS walkable cable tray system. Fastening with truss-head bolts M6 x 12 in the base perforation.

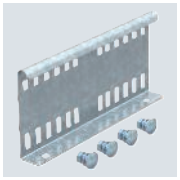
For widths of 200 mm or more, a barrier strip with a maximum compartment size of 220 mm should be used.
For widths of 500 mm or more, two barrier strips with a maximum compartment size of 220 mm should be used.

St FT SO

## Straight connector FT SOMY

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **LVG 110 FT SO** | 110 | 10 | 55.200 | **7189256** |



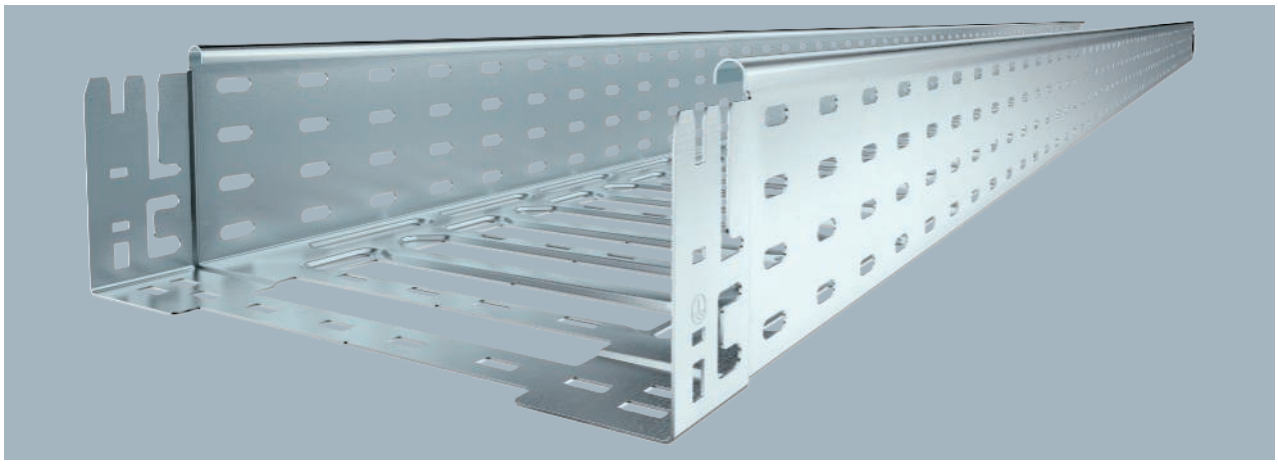
Straight connectors as internal connectors to connect cable ladders and fittings of 110 mm side height.

The adjustable connector ensures the continuity of the equipotential bonding.

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## Cable tray MKS-Magic® 110

St FS

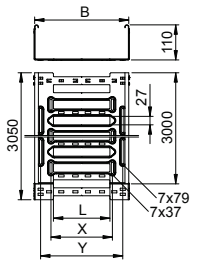


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **MKSM 110 FS** | 100 | 1.00 | | 3 | 236.819 | **6059156** |
| **MKSM 115 FS** | 150 | 1.00 | | 3 | 274.426 | **6059158** |
| **MKSM 120 FS** | 200 | 1.00 | | 3 | 293.114 | **6059160** |
| **MKSM 130 FS** | 300 | 1.00 | | 3 | 331.081 | **6059162** |
| **MKSM 140 FS** | 400 | 1.00 | | 3 | 369.049 | **6059164** |
| **MKSM 150 FS** | 500 | 1.00 | | 3 | 406.983 | **6059166** |
| **MKSM 160 FS** | 600 | 1.00 | | 3 | 444.983 | **6059168** |

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

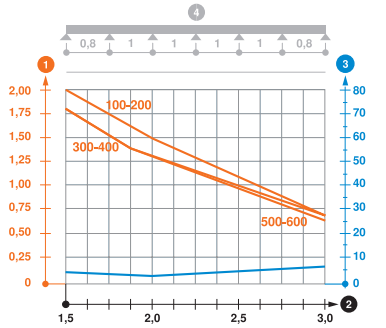
| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dim-en-sion y mm |
|---|---|---|---|---|---|---|
| MKSM 110 FS | 3050 | 100 | 108 | 30 | – | 62 |
| MKSM 115 FS | 3050 | 150 | 161 | 30 | 46 | 112 |
| MKSM 120 FS | 3050 | 200 | 218 | 80 | 96 | 162 |
| MKSM 130 FS | 3050 | 300 | 328 | 180 | 196 | 262 |
| MKSM 140 FS | 3050 | 400 | 438 | 280 | 296 | 362 |
| MKSM 150 FS | 3050 | 500 | 548 | 380 | 396 | 462 |
| MKSM 160 FS | 3050 | 600 | 655 | 480 | 496 | 562 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|
| **MKSM 110 FS** | 2 | 1.5 | 0.7 |
| **MKSM 115 FS** | 2 | 1.5 | 0.7 |
| **MKSM 120 FS** | 2 | 1.5 | 0.7 |
| **MKSM 130 FS** | 1.8 | 1.3 | 0.7 |
| **MKSM 140 FS** | 1.8 | 1.3 | 0.7 |
| **MKSM 150 FS** | 1.8 | 1.3 | 0.65 |
| **MKSM 160 FS** | 1.8 | 1.3 | 0.65 |

### Load

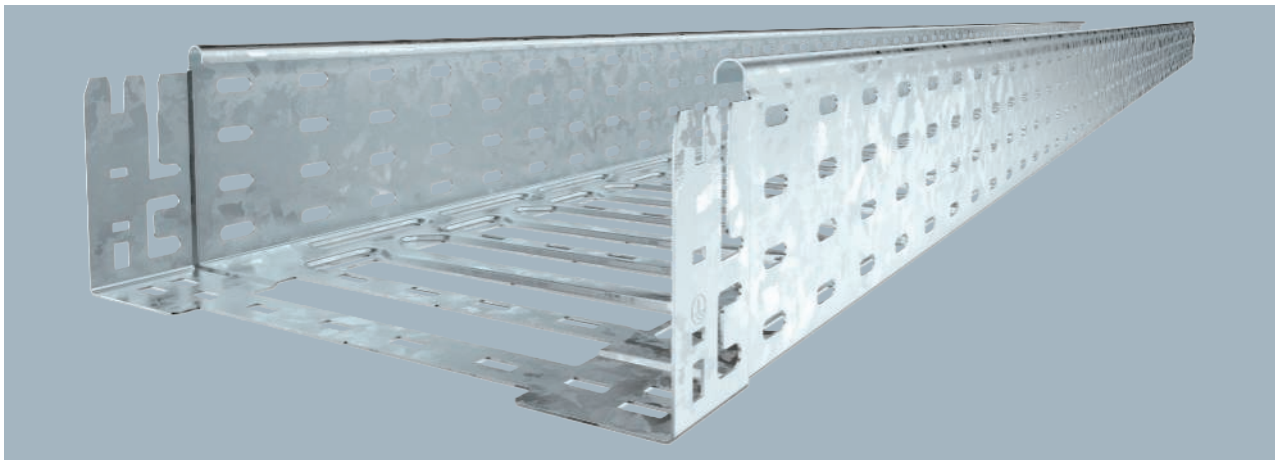



### Load diagram, cable tray, type MKSM 110

1 Permitted cable tray/ladder load in kN/m without man load
2 Support width in m
3 Rail bend in mm at permitted kN/m
4 Load scheme during testing
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FT

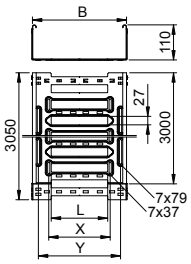
## Cable tray MKS-Magic® 110



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

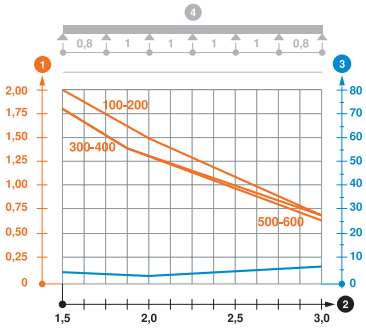
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKSM 110 FT** | 100 | 1.00 | 3 | 260.327 | **6059173** |
| **MKSM 115 FT** | 150 | 1.00 | 3 | 301.672 | **6059175** |
| **MKSM 120 FT** | 200 | 1.00 | 3 | 322.229 | **6059177** |
| **MKSM 130 FT** | 300 | 1.00 | 3 | 363.967 | **6059179** |
| **MKSM 140 FT** | 400 | 1.00 | 3 | 405.737 | **6059181** |
| **MKSM 150 FT** | 500 | 1.00 | 3 | 447.442 | **6059183** |
| **MKSM 160 FT** | 600 | 1.00 | 3 | 489.180 | **6059185** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dimension y mm |
|---|---|---|---|---|---|---|
| MKSM 110 FT | 3050 | 100 | 108 | 30 | – | 62 |
| MKSM 115 FT | 3050 | 150 | 161 | 30 | 46 | 112 |
| MKSM 120 FT | 3050 | 200 | 218 | 80 | 96 | 162 |
| MKSM 130 FT | 3050 | 300 | 328 | 180 | 196 | 262 |
| MKSM 140 FT | 3050 | 400 | 438 | 280 | 296 | 362 |
| MKSM 150 FT | 3050 | 500 | 548 | 380 | 396 | 462 |
| MKSM 160 FT | 3050 | 600 | 655 | 480 | 496 | 562 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|
| **MKSM 110 FT** | 2 | 1.5 | 0.7 |
| **MKSM 115 FT** | 2 | 1.5 | 0.7 |
| **MKSM 120 FT** | 2 | 1.5 | 0.7 |
| **MKSM 130 FT** | 1.8 | 1.3 | 0.7 |
| **MKSM 140 FT** | 1.8 | 1.3 | 0.7 |
| **MKSM 150 FT** | 1.8 | 1.3 | 0.65 |
| **MKSM 160 FT** | 1.8 | 1.3 | 0.65 |

**Load diagram, cable tray, type MKSM 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

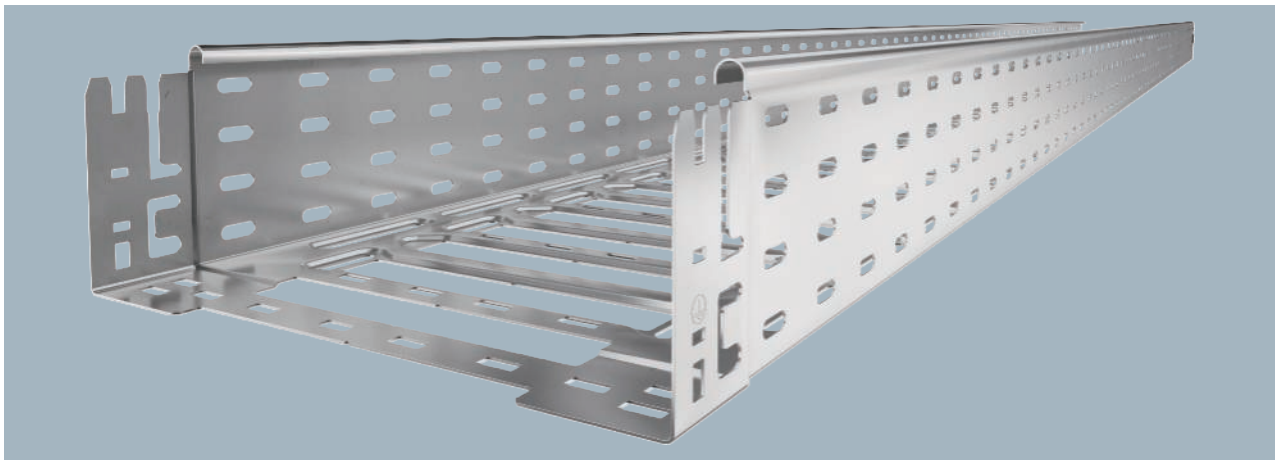
— Strut bend curve according to support width



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## Cable tray MKS-Magic® 110

A2 2B

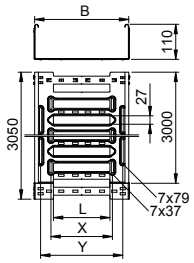


| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKSM 110 A2** | 100 | 1.00 | 3 | 240.767 | **6059190** |
| **MKSM 120 A2** | 200 | 1.00 | 3 | 298.000 | **6059194** |
| **MKSM 130 A2** | 300 | 1.00 | 3 | 336.600 | **6059196** |
| **MKSM 140 A2** | 400 | 1.00 | 3 | 375.200 | **6059198** |
| **MKSM 150 A2** | 500 | 1.00 | 3 | 413.767 | **6059200** |
| **MKSM 160 A2** | 600 | 1.00 | 3 | 452.400 | **6059202** |

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

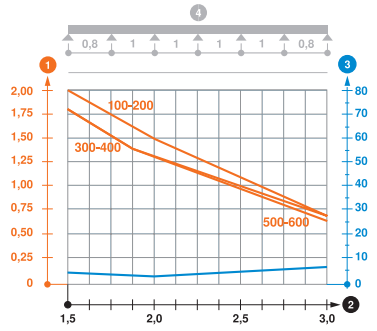
| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dim-en-sion y mm |
|---|---|---|---|---|---|---|
| MKSM 110 A2 | 3050 | 100 | 108 | 30 | – | 62 |
| MKSM 120 A2 | 3050 | 200 | 218 | 80 | 96 | 162 |
| MKSM 130 A2 | 3050 | 300 | 328 | 180 | 196 | 262 |
| MKSM 140 A2 | 3050 | 400 | 438 | 280 | 296 | 362 |
| MKSM 150 A2 | 3050 | 500 | 548 | 380 | 396 | 462 |
| MKSM 160 A2 | 3050 | 600 | 655 | 480 | 496 | 562 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|
| **MKSM 110 A2** | 2 | 1.5 | 0.7 |
| **MKSM 120 A2** | 2 | 1.5 | 0.7 |
| **MKSM 130 A2** | 1.45 | 1.2 | 0.7 |
| **MKSM 140 A2** | 1.45 | 1.2 | 0.7 |
| **MKSM 150 A2** | 1.1 | 0.95 | 0.65 |
| **MKSM 160 A2** | 1.1 | 0.95 | 0.65 |

### Load




### Load diagram, cable tray, type MKSM 110

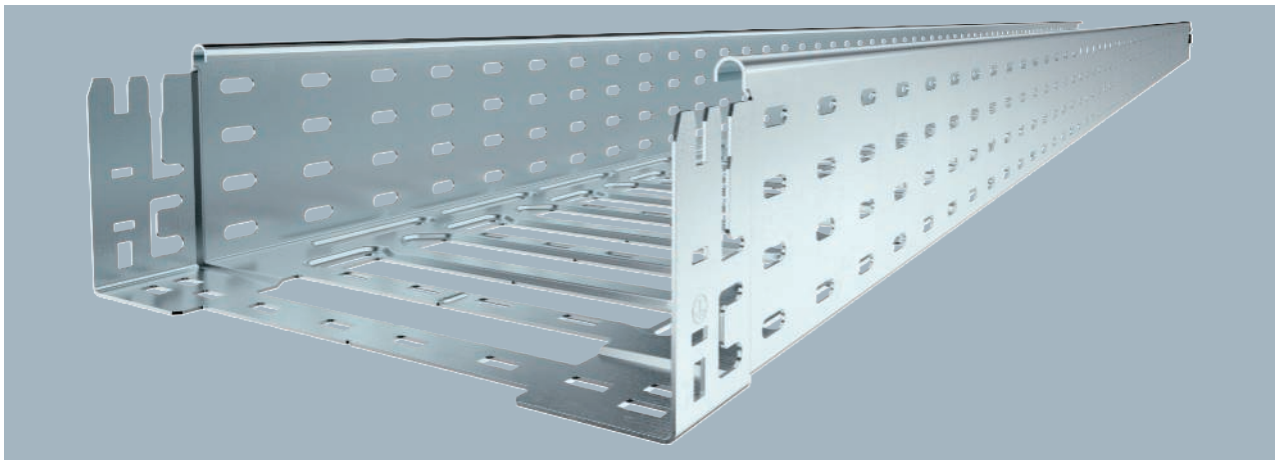
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

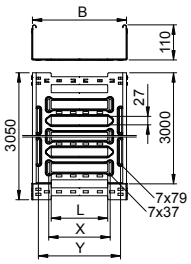
## Cable tray SKS-Magic® 110



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

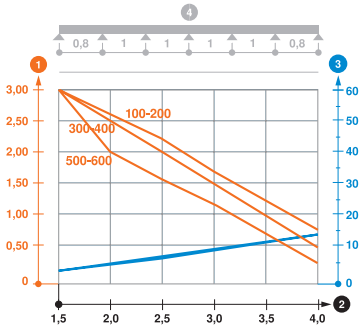
| Type | Width mm | Metal thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SKSM 110 FS** | 100 | 1.50 | | 3 | 353.114 | **6059614** |
| **SKSM 115 FS** | 150 | 1.50 | | 3 | 407.213 | **6059616** |
| **SKSM 120 FS** | 200 | 1.50 | | 3 | 434.754 | **6059618** |
| **SKSM 130 FS** | 300 | 1.50 | | 3 | 490.819 | **6059620** |
| **SKSM 140 FS** | 400 | 1.50 | | 3 | 546.885 | **6059622** |
| **SKSM 150 FS** | 500 | 1.50 | | 3 | 602.950 | **6059624** |
| **SKSM 160 FS** | 600 | 1.50 | | 3 | 667.278 | **6059626** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dimension y mm |
|---|---|---|---|---|---|---|
| SKSM 110 FS | 3050 | 100 | 108 | 30 | – | 62 |
| SKSM 115 FS | 3050 | 150 | 161 | 30 | 46 | 112 |
| SKSM 120 FS | 3050 | 200 | 218 | 80 | 96 | 162 |
| SKSM 130 FS | 3050 | 300 | 328 | 180 | 196 | 262 |
| SKSM 140 FS | 3050 | 400 | 438 | 280 | 296 | 362 |
| SKSM 150 FS | 3050 | 500 | 548 | 380 | 396 | 462 |
| SKSM 160 FS | 3050 | 600 | 655 | 480 | 496 | 562 |

### Load




| | 1.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|
| **SKSM 110 FS** | 3 | 1.7 | 0.8 |
| **SKSM 115 FS** | 3 | 1.7 | 0.8 |
| **SKSM 120 FS** | 3 | 1.7 | 0.8 |
| **SKSM 130 FS** | 3 | 1.5 | 0.5 |
| **SKSM 140 FS** | 3 | 1.5 | 0.5 |
| **SKSM 150 FS** | 3 | 1.2 | 0.3 |
| **SKSM 160 FS** | 3 | 1.2 | 0.3 |

**Load diagram, cable tray, type SKSM 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

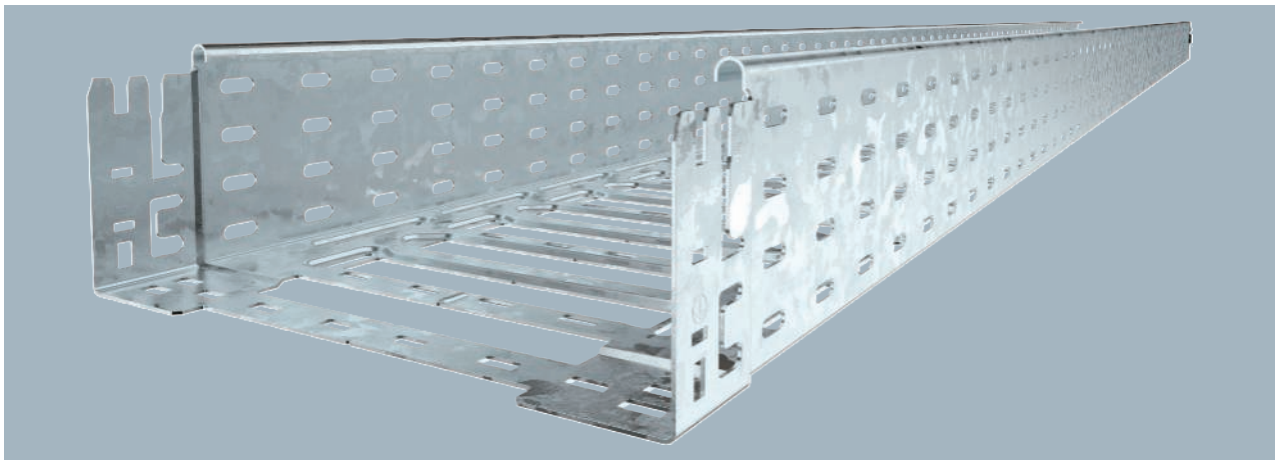
— Strut bend curve according to support width



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## Cable tray SKS-Magic® 110

St FT

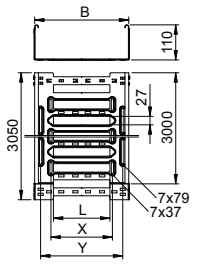


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SKSM 110 FT** | 100 | 1.50 | | 3 | 374.426 | **6059631** |
| **SKSM 115 FT** | 150 | 1.50 | | 3 | 431.803 | **6059633** |
| **SKSM 120 FT** | 200 | 1.50 | | 3 | 460.983 | **6059635** |
| **SKSM 130 FT** | 300 | 1.50 | | 3 | 520.327 | **6059637** |
| **SKSM 140 FT** | 400 | 1.50 | | 3 | 580.000 | **6059639** |
| **SKSM 150 FT** | 500 | 1.50 | | 3 | 639.344 | **6059641** |
| **SKSM 160 FT** | 600 | 1.50 | | 3 | 711.508 | **6059643** |

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

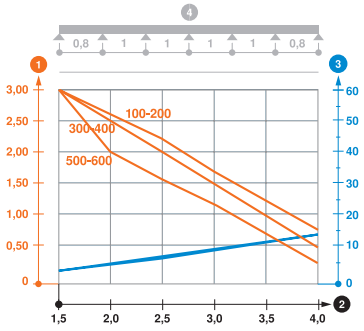
| Type | Length mm | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dim-en-sion y mm |
|---|---|---|---|---|---|---|
| SKSM 110 FT | 3050 | 100 | 108 | 30 | – | 62 |
| SKSM 115 FT | 3050 | 150 | 161 | 30 | 46 | 112 |
| SKSM 120 FT | 3050 | 200 | 218 | 80 | 96 | 162 |
| SKSM 130 FT | 3050 | 300 | 328 | 180 | 196 | 262 |
| SKSM 140 FT | 3050 | 400 | 438 | 280 | 296 | 362 |
| SKSM 150 FT | 3050 | 500 | 548 | 380 | 396 | 462 |
| SKSM 160 FT | 3050 | 600 | 655 | 480 | 496 | 562 |

### Dimensions




| | 1.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|
| **SKSM 110 FT** | 3 | 1.7 | 0.8 |
| **SKSM 115 FT** | 3 | 1.7 | 0.8 |
| **SKSM 120 FT** | 3 | 1.7 | 0.8 |
| **SKSM 130 FT** | 3 | 1.5 | 0.5 |
| **SKSM 140 FT** | 3 | 1.5 | 0.5 |
| **SKSM 150 FT** | 3 | 1.2 | 0.3 |
| **SKSM 160 FT** | 3 | 1.2 | 0.3 |

### Load




**Load diagram, cable tray, type SKSM 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

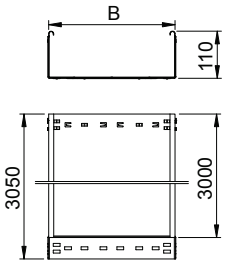
## Cable tray MKS-Magic® 110, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

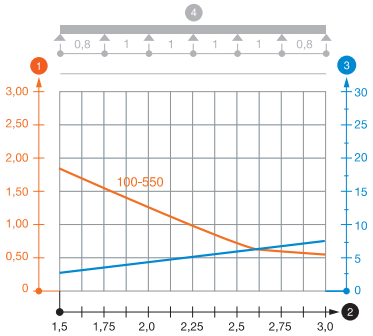
| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **MKSMU 110 FS** | 100 | 1.00 | | 3 | 269.672 | **6059382** |
| **MKSMU 115 FS** | 150 | 1.00 | | 3 | 308.885 | **6059384** |
| **MKSMU 120 FS** | 200 | 1.00 | | 3 | 348.032 | **6059386** |
| **MKSMU 130 FS** | 300 | 1.00 | | 3 | 426.459 | **6059388** |
| **MKSMU 140 FS** | 400 | 1.00 | | 3 | 504.918 | **6059390** |
| **MKSMU 150 FS** | 500 | 1.00 | | 3 | 583.311 | **6059392** |
| **MKSMU 160 FS** | 600 | 1.00 | | 3 | 661.770 | **6059394** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKSMU 110 FS | 3050 | 100 | 108 |
| MKSMU 115 FS | 3050 | 150 | 161 |
| MKSMU 120 FS | 3050 | 200 | 218 |
| MKSMU 130 FS | 3050 | 300 | 328 |
| MKSMU 140 FS | 3050 | 400 | 438 |
| MKSMU 150 FS | 3050 | 500 | 548 |
| MKSMU 160 FS | 3050 | 600 | 655 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **MKSMU 110 FS** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 115 FS** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 120 FS** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 130 FS** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 140 FS** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 150 FS** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 160 FS** | 1.85 | 1.3 | 0.75 | 0.6 |

**Load diagram, cable tray, type MKSMU 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.

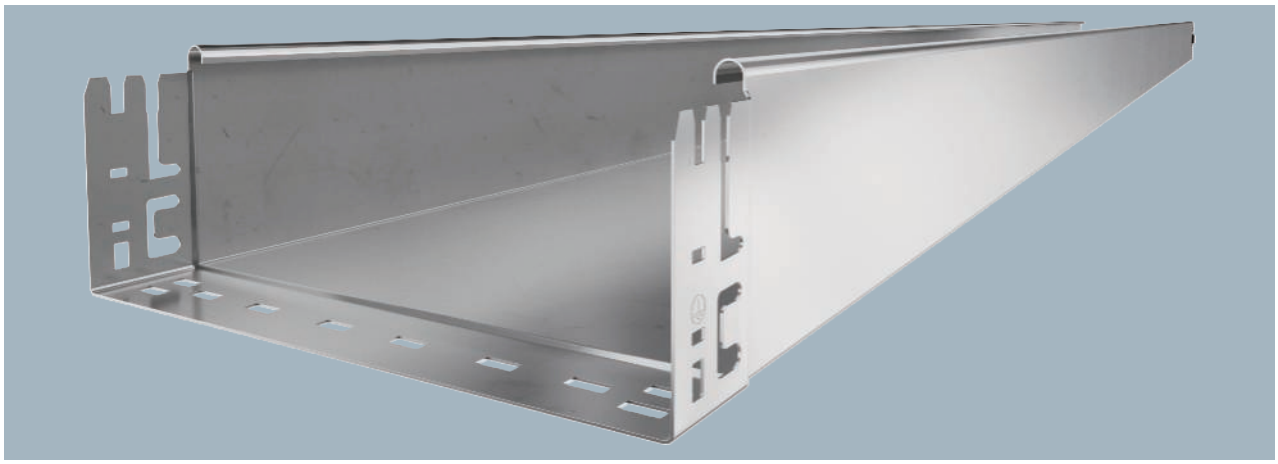




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## Cable tray MKS-Magic® 110, unperforated

A2 2B

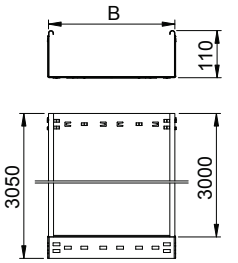


| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKSMU 110 A2** | 100 | 1.00 | 3 | 274.167 | **6059416** |
| **MKSMU 120 A2** | 200 | 1.00 | 3 | 353.833 | **6059420** |
| **MKSMU 130 A2** | 300 | 1.00 | 3 | 433.600 | **6059422** |
| **MKSMU 140 A2** | 400 | 1.00 | 3 | 513.333 | **6059424** |
| **MKSMU 150 A2** | 500 | 1.00 | 3 | 593.033 | **6059426** |
| **MKSMU 160 A2** | 600 | 1.00 | 3 | 672.800 | **6059428** |

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

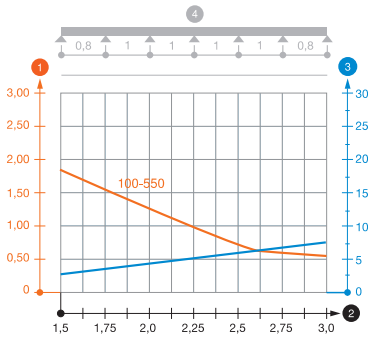
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKSMU 110 A2 | 3050 | 100 | 108 |
| MKSMU 120 A2 | 3050 | 200 | 218 |
| MKSMU 130 A2 | 3050 | 300 | 328 |
| MKSMU 140 A2 | 3050 | 400 | 438 |
| MKSMU 150 A2 | 3050 | 500 | 548 |
| MKSMU 160 A2 | 3050 | 600 | 655 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **MKSMU 110 A2** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 120 A2** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 130 A2** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 140 A2** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 150 A2** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 160 A2** | 1.85 | 1.3 | 0.75 | 0.6 |

**Load**




**Load diagram, cable tray, type MKSMU 110**

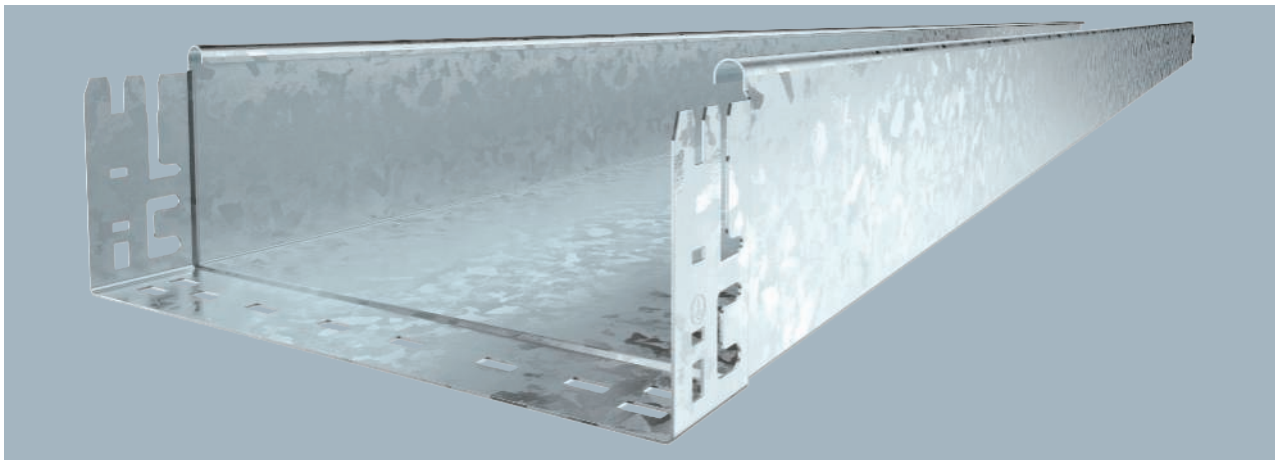
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

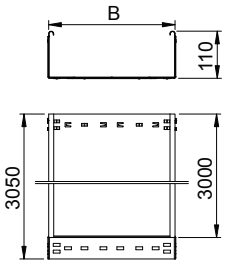
## Cable tray MKS-Magic® 110, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

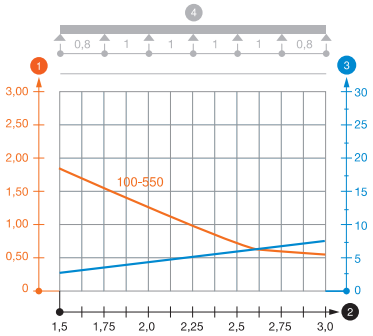
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKSMU 110 FT** | 100 | 1.00 | 3 | 296.459 | **6059399** |
| **MKSMU 115 FT** | 150 | 1.00 | 3 | 339.540 | **6059401** |
| **MKSMU 120 FT** | 200 | 1.00 | 3 | 382.590 | **6059403** |
| **MKSMU 130 FT** | 300 | 1.00 | 3 | 468.852 | **6059405** |
| **MKSMU 140 FT** | 400 | 1.00 | 3 | 555.081 | **6059407** |
| **MKSMU 150 FT** | 500 | 1.00 | 3 | 641.278 | **6059409** |
| **MKSMU 160 FT** | 600 | 1.00 | 3 | 727.540 | **6059411** |

### Dimensions




| Type | Length mm | Width mm | Usable cross-section cm² |
|---|---|---|---|
| MKSMU 110 FT | 3050 | 100 | 108 |
| MKSMU 115 FT | 3050 | 150 | 161 |
| MKSMU 120 FT | 3050 | 200 | 218 |
| MKSMU 130 FT | 3050 | 300 | 328 |
| MKSMU 140 FT | 3050 | 400 | 438 |
| MKSMU 150 FT | 3050 | 500 | 548 |
| MKSMU 160 FT | 3050 | 600 | 655 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **MKSMU 110 FT** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 115 FT** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 120 FT** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 130 FT** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 140 FT** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 150 FT** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKSMU 160 FT** | 1.85 | 1.3 | 0.75 | 0.6 |

**Load diagram, cable tray, type MKSMU 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.

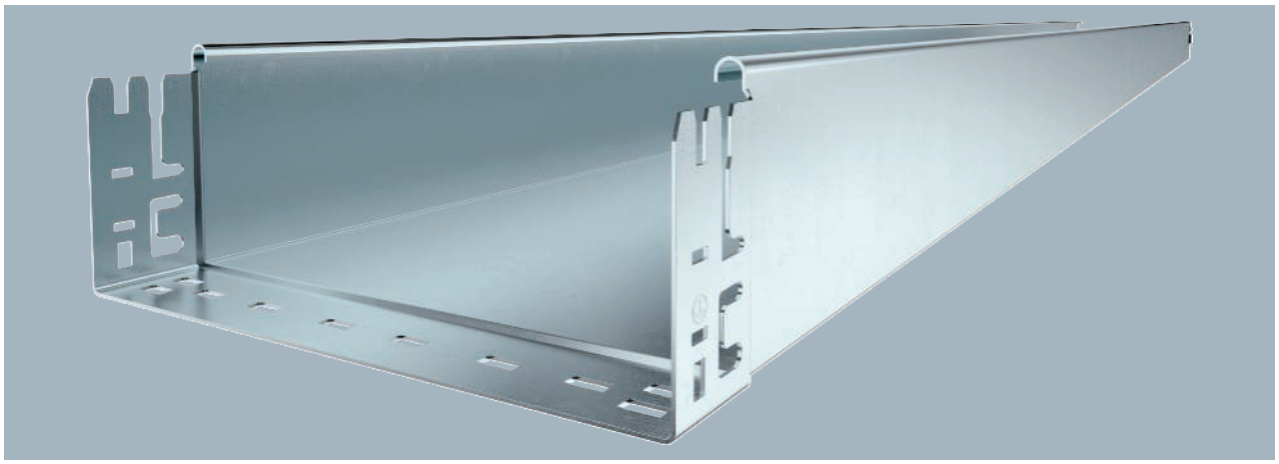




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## Cable tray SKS-Magic® 110, unperforated

St FS

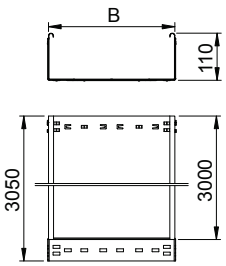


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SKSMU 110 FS** | 100 | 1.50 | | 3 | 404.262 | **6059836** |
| **SKSMU 115 FS** | 150 | 1.50 | | 3 | 463.049 | **6059838** |
| **SKSMU 120 FS** | 200 | 1.50 | | 3 | 521.803 | **6059840** |
| **SKSMU 130 FS** | 300 | 1.50 | | 3 | 639.442 | **6059842** |
| **SKSMU 140 FS** | 400 | 1.50 | | 3 | 757.114 | **6059844** |
| **SKSMU 150 FS** | 500 | 1.50 | | 3 | 874.721 | **6059846** |
| **SKSMU 160 FS** | 600 | 1.50 | | 3 | 992.360 | **6059848** |

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

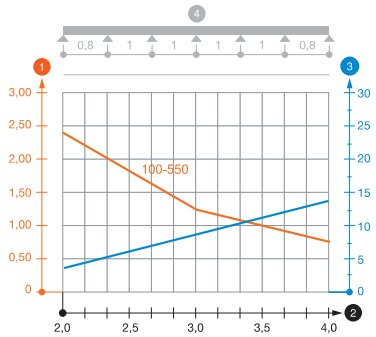
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKSMU 110 FS | 3050 | 100 | 108 |
| SKSMU 115 FS | 3050 | 150 | 161 |
| SKSMU 120 FS | 3050 | 200 | 218 |
| SKSMU 130 FS | 3050 | 300 | 328 |
| SKSMU 140 FS | 3050 | 400 | 438 |
| SKSMU 150 FS | 3050 | 500 | 548 |
| SKSMU 160 FS | 3050 | 600 | 655 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **SKSMU 110 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSMU 115 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSMU 120 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSMU 130 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSMU 140 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSMU 150 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSMU 160 FS** | 3 | 2.4 | 1.2 | 0.8 |

**Load**




**Load diagram, cable tray, type SKSMU 110**

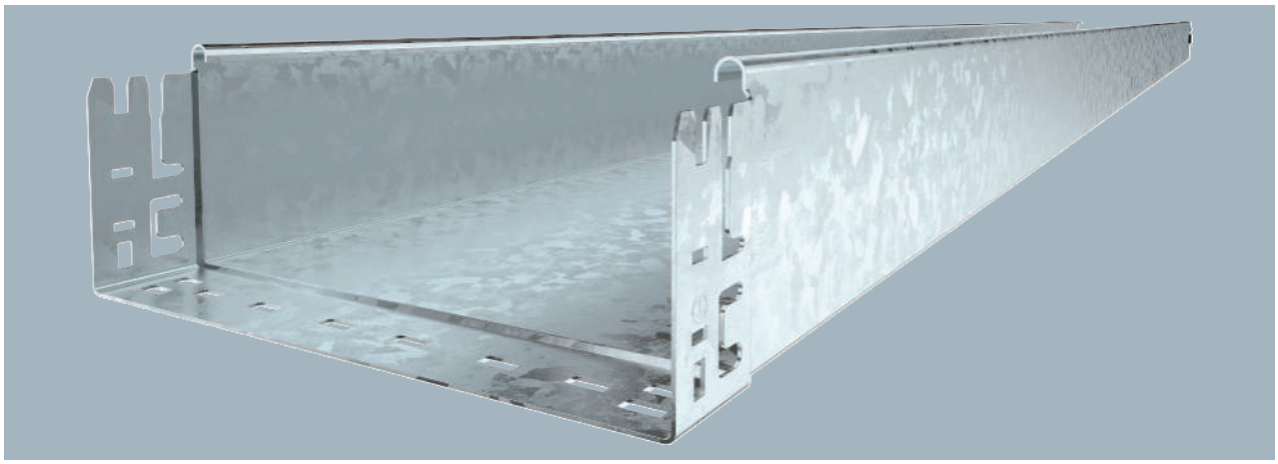
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

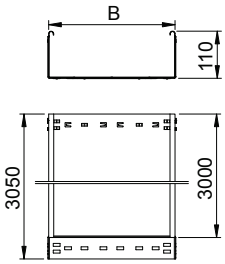
## Cable tray SKS-Magic® 110, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

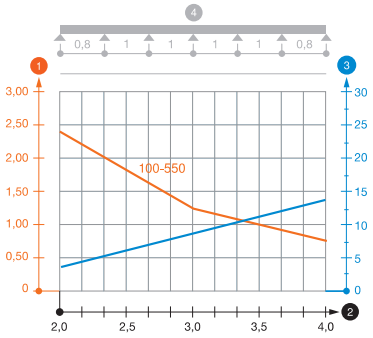
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKSMU 110 FT** | 100 | 1.50 | 3 | 431.049 | **6059853** |
| **SKSMU 115 FT** | 150 | 1.50 | 3 | 493.737 | **6059855** |
| **SKSMU 120 FT** | 200 | 1.50 | 3 | 556.360 | **6059857** |
| **SKSMU 130 FT** | 300 | 1.50 | 3 | 681.836 | **6059859** |
| **SKSMU 140 FT** | 400 | 1.50 | 3 | 807.311 | **6059861** |
| **SKSMU 150 FT** | 500 | 1.50 | 3 | 932.688 | **6059863** |
| **SKSMU 160 FT** | 600 | 1.50 | 3 | 1,058.163 | **6059865** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKSMU 110 FT | 3050 | 100 | 108 |
| SKSMU 115 FT | 3050 | 150 | 161 |
| SKSMU 120 FT | 3050 | 200 | 218 |
| SKSMU 130 FT | 3050 | 300 | 328 |
| SKSMU 140 FT | 3050 | 400 | 438 |
| SKSMU 150 FT | 3050 | 500 | 548 |
| SKSMU 160 FT | 3050 | 600 | 655 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **SKSMU 110 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSMU 115 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSMU 120 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSMU 130 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSMU 140 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSMU 150 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSMU 160 FT** | 3 | 2.4 | 1.2 | 0.8 |

**Load diagram, cable tray, type SKSMU 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width



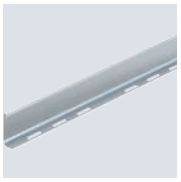
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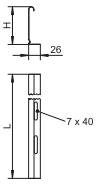
Always indicate the item number when ordering.

# Cable trays, side height 110

## Separating retainer 85

St FS DD





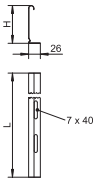

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 85 FS** | 85 | 0.75 | 3000 | 3 | 70.233 | **6062114** |
| **TSG 85 DD** | 85 | 0.75 | 3000 | 3 | 70.300 | **6062331** |

Separating retainer for separation of cables of different voltages or functions.

## Separating retainer 110

St FS DD





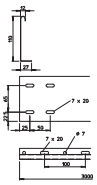

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 110 FS** | 110 | 0.75 | 3000 | 3 | 85.000 | **6062122** |
| **TSG 110 DD** | 110 | 0.75 | 3000 | 3 | 85.000 | **6062335** |

Separating retainer for separation of cables of different voltages or functions.

## Barrier strip 110

A2 2B





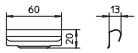
| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 110 A2** | 110 | 0.75 | 3000 | 3 | 90.684 | **6062255** |

Barrier strip for separation of cables of different voltages or functions.

## Separating retainer connector

VA 2B



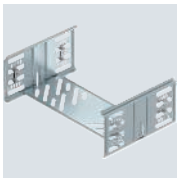


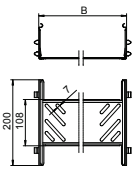

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **TSGV A2** | 10 | 0.899 | **6067970** |

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

## Magic straight connector set 110

St FS DD






| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **KTSMV 110 FS** | 110 | 100 | 1 | 44.100 | **6069090** |
| **KTSMV 120 FS** | 110 | 200 | 1 | 50.800 | **6069094** |
| **KTSMV 130 FS** | 110 | 300 | 1 | 57.600 | **6069096** |
| **KTSMV 140 FS** | 110 | 400 | 1 | 64.300 | **6069098** |
| **KTSMV 150 FS** | 110 | 500 | 1 | 71.000 | **6069100** |
| **KTSMV 160 FS** | 110 | 600 | 1 | 77.800 | **6069102** |
| **KTSMV 110 DD** | 110 | 100 | 1 | 44.100 | **6069112** |
| **KTSMV 120 DD** | 110 | 200 | 1 | 50.800 | **6069116** |
| **KTSMV 130 DD** | 110 | 300 | 1 | 57.600 | **6069118** |
| **KTSMV 140 DD** | 110 | 400 | 1 | 64.300 | **6069120** |
| **KTSMV 150 DD** | 110 | 500 | 1 | 71.000 | **6069122** |
| **KTSMV 160 DD** | 110 | 600 | 1 | 77.800 | **6069124** |

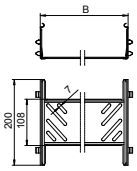
Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 110 mm.

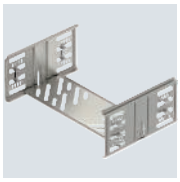
The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

A2 2B

## Magic straight connector set 110

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| KTSMV 110 A2 | 110 | 100 | 1 | 44.100 | 6069134 |
| KTSMV 120 A2 | 110 | 200 | 1 | 50.800 | 6069138 |
| KTSMV 130 A2 | 110 | 300 | 1 | 57.600 | 6069140 |
| KTSMV 140 A2 | 110 | 400 | 1 | 64.300 | 6069142 |
| KTSMV 150 A2 | 110 | 500 | 1 | 71.000 | 6069144 |
| KTSMV 160 A2 | 110 | 600 | 1 | 77.800 | 6069146 |



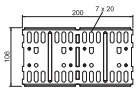
Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 110 mm.

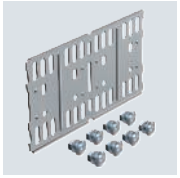
The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

St FS FT

## Straight and angle connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| RLVL 110 FS | 110 | 10 | 33.800 | 6067131 |
| RLVL 110 FT | 110 | 10 | 35.100 | 6067913 |



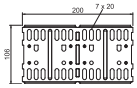
Straight and angle connector for cable trays and fittings with a side height of 110 mm.

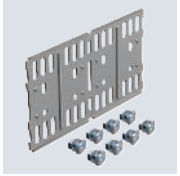
Including appropriate fastening material.

A2 2B

## Straight and angle connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| RLVL 110 A2 | 110 | 10 | 33.400 | 6067948 |



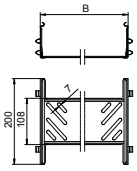



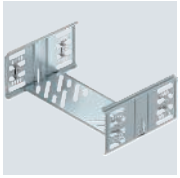
Straight and angle connector for cable trays and fittings with a side height of 110 mm.

St FS DD

## Magic straight connector set 110

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| KTSMV 115 FS | 110 | 150 | 1 | 48.500 | 6069092 |
| KTSMV 115 DD | 110 | 150 | 1 | 48.500 | 6069114 |



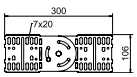
Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 110 mm.

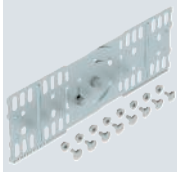
The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

St FS FT

## Adjustable connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| RGV 110 FS | 110 | 10 | 61.700 | 7082037 |
| RGV 110 FT | 110 | 10 | 64.300 | 7082436 |



Adjustable connector for cable trays with a side height of 110 mm.

Including appropriate fastening material.



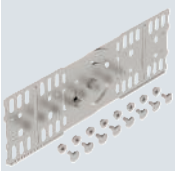
Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

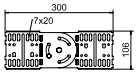
Always indicate the item number when ordering.

# Cable trays, side height 110

## Adjustable connector 110

A2 2B



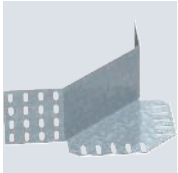


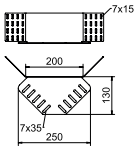

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RGV 110 A2** | 110 | 4 | 61.700 | **7082479** |

Adjustable connector for cable trays with a side height of 110 mm.

## Corner connector 110

St FS DD



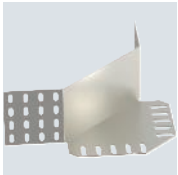


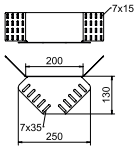

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **REV 110 FS** | 110 | 10 | 72.000 | **6067999** |
| **REV 110 DD** | 110 | 1 | 72.000 | **6069339** |

Corner connector for cable trays with side height 110 mm.
Fastening materials should be ordered separately.

## Corner connector 110

A2 2B



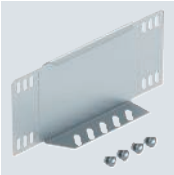


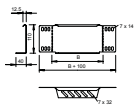

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **REV 110 A2** | 110 | 5 | 75.000 | **6068049** |

Corner connector for cable trays with side height 110 mm.

## Reducer/stop-end 110

St FS DD





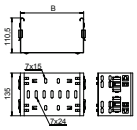
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RWEB 110 FS** | 110 | 100 | 1 | 16.400 | **7111096** |
| **RWEB 120 FS** | 110 | 200 | 1 | 29.000 | **7111207** |
| **RWEB 130 FS** | 110 | 300 | 1 | 40.700 | **7111304** |
| **RWEB 140 FS** | 110 | 400 | 1 | 52.900 | **7111428** |
| **RWEB 150 FS** | 110 | 500 | 1 | 64.800 | **7111509** |
| **RWEB 160 FS** | 110 | 600 | 1 | 71.000 | **7111740** |
| **RWEB 110 DD** | 110 | 100 | 1 | 16.300 | **7107455** |
| **RWEB 120 DD** | 110 | 200 | 1 | 25.000 | **7107471** |
| **RWEB 130 DD** | 110 | 300 | 1 | 44.000 | **7107501** |
| **RWEB 140 DD** | 110 | 400 | 1 | 58.000 | **7107536** |
| **RWEB 150 DD** | 110 | 500 | 1 | 64.700 | **7107552** |
| **RWEB 160 DD** | 110 | 600 | 1 | 71.000 | **7107562** |
| **RWEB 155 DD** | 110 | 550 | 1 | 70.700 | **7107560** |

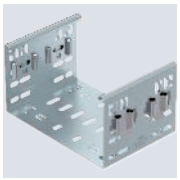
Reducer/stop-end for cable trays with side height 110 mm.
From a width of 150 mm, the perforated lower flange is provided.
Including appropriate fastening material.

St DD

## Magic 110 fitting connector

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **FVM 110 DD** | 110 | 100 | 1 | 42.900 | **6065910** |
| **FVM 115 DD** | 110 | 150 | 1 | 48.900 | **6065912** |
| **FVM 120 DD** | 110 | 200 | 1 | 55.000 | **6065914** |
| **FVM 130 DD** | 110 | 300 | 1 | 67.700 | **6065916** |
| **FVM 140 DD** | 110 | 400 | 1 | 80.400 | **6065918** |
| **FVM 150 DD** | 110 | 500 | 1 | 92.600 | **6065920** |
| **FVM 160 DD** | 110 | 600 | 1 | 105.000 | **6065922** |





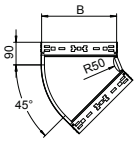
The fitting connector is compatible with cable tray types MKSM, MKSMU, SKSM and SKSMU.

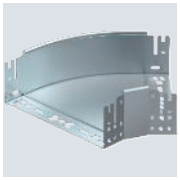
Magic straight connector for direct and screwless joining of Magic fittings with a side height of 110 mm.
The straight connector is equipped with four brackets and can also be used for the direct connection with a cut cable tray with only two brackets mounted to one side. To join a cut cable tray with a fitting, an additional Magic straight connector set is needed.

St FS FT

## 45° Magic bend 110

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBM 45 110 FS** | 110 | 100 | 1 | 70.500 | **6041750** |
| **RBM 45 115 FS** | 110 | 150 | 1 | 89.300 | **6041751** |
| **RBM 45 120 FS** | 110 | 200 | 1 | 109.900 | **6041752** |
| **RBM 45 130 FS** | 110 | 300 | 1 | 156.100 | **6041754** |
| **RBM 45 140 FS** | 110 | 400 | 1 | 206.500 | **6041756** |
| **RBM 45 150 FS** | 110 | 500 | 1 | 268.300 | **6041758** |
| **RBM 45 160 FS** | 110 | 600 | 1 | 337.700 | **6041760** |
| **RBM 45 110 FT** | 110 | 100 | 1 | 75.600 | **6041780** |
| **RBM 45 115 FT** | 110 | 150 | 1 | 95.800 | **6041781** |
| **RBM 45 120 FT** | 110 | 200 | 1 | 117.900 | **6041782** |
| **RBM 45 130 FT** | 110 | 300 | 1 | 167.400 | **6041784** |
| **RBM 45 140 FT** | 110 | 400 | 1 | 221.400 | **6041786** |
| **RBM 45 150 FT** | 110 | 500 | 1 | 287.700 | **6041788** |
| **RBM 45 160 FT** | 110 | 600 | 1 | 362.100 | **6041790** |



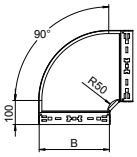



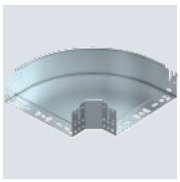
45° bend with quick connector system. For all cable tray types of 110 mm side height.

St FS FT

## 90° Magic bend 110

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBM 90 110 FS** | 110 | 100 | 1 | 90.900 | **6041840** |
| **RBM 90 115 FS** | 110 | 150 | 1 | 121.000 | **6041841** |
| **RBM 90 120 FS** | 110 | 200 | 1 | 154.900 | **6041842** |
| **RBM 90 130 FS** | 110 | 300 | 1 | 233.400 | **6041844** |
| **RBM 90 140 FS** | 110 | 400 | 1 | 323.600 | **6041846** |
| **RBM 90 150 FS** | 110 | 500 | 1 | 433.100 | **6041848** |
| **RBM 90 160 FS** | 110 | 600 | 1 | 558.000 | **6041850** |
| **RBM 90 110 FT** | 110 | 100 | 1 | 97.500 | **6041860** |
| **RBM 90 115 FT** | 110 | 150 | 1 | 129.800 | **6041861** |
| **RBM 90 120 FT** | 110 | 200 | 1 | 166.100 | **6041862** |
| **RBM 90 130 FT** | 110 | 300 | 1 | 250.300 | **6041864** |
| **RBM 90 140 FT** | 110 | 400 | 1 | 347.000 | **6041866** |
| **RBM 90 150 FT** | 110 | 500 | 1 | 464.400 | **6041868** |
| **RBM 90 160 FT** | 110 | 600 | 1 | 598.400 | **6041870** |



90° bend with quick connector system. For all cable tray types of 110 mm side height.

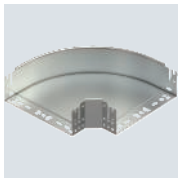


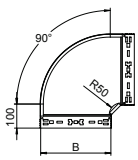
Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Cable trays, side height 110

## 90° Magic bend 110

A2 2B



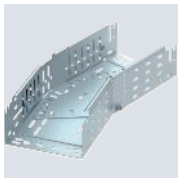


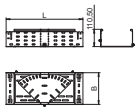

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBM 90 110 A2** | 110 | 100 | 1 | 90.900 | **6041880** |
| **RBM 90 120 A2** | 110 | 200 | 1 | 154.900 | **6041882** |
| **RBM 90 130 A2** | 110 | 300 | 1 | 233.400 | **6041884** |
| **RBM 90 140 A2** | 110 | 400 | 1 | 323.600 | **6041886** |
| **RBM 90 150 A2** | 110 | 500 | 1 | 433.100 | **6041888** |
| **RBM 90 160 A2** | 110 | 600 | 1 | 558.000 | **6041890** |

90° bend with quick connector system. For all cable tray types of 110 mm side height.

## Magic 110 bend, variable

St FS FT



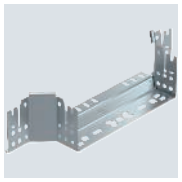


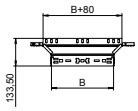

| Type | Side height mm | Dim. B mm | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **RBMV 110 FS** | 110 | 100 | 340 | 1 | 103.900 | **6040680** |
| **RBMV 115 FS** | 110 | 150 | 420 | 1 | 152.200 | **6040682** |
| **RBMV 120 FS** | 110 | 200 | 490 | 1 | 209.200 | **6040684** |
| **RBMV 130 FS** | 110 | 300 | 640 | 1 | 357.800 | **6040686** |
| **RBMV 140 FS** | 110 | 400 | 820 | 1 | 548.400 | **6040688** |
| **RBMV 150 FS** | 110 | 500 | 960 | 1 | 1,134.000 | **6040690** |
| **RBMV 160 FS** | 110 | 600 | 1120 | 1 | 1,522.400 | **6040692** |
| **RBMV 110 FT** | 110 | 100 | 340 | 1 | 117.600 | **6040700** |
| **RBMV 115 FT** | 110 | 150 | 420 | 1 | 170.500 | **6040702** |
| **RBMV 120 FT** | 110 | 200 | 490 | 1 | 228.100 | **6040704** |
| **RBMV 130 FT** | 110 | 300 | 640 | 1 | 474.400 | **6040706** |
| **RBMV 140 FT** | 110 | 400 | 820 | 1 | 733.500 | **6040708** |
| **RBMV 150 FT** | 110 | 500 | 960 | 1 | 1,202.400 | **6040710** |
| **RBMV 160 FT** | 110 | 600 | 1120 | 1 | 1,614.200 | **6040712** |

Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 110 mm side height.

## Magic 110 add-on tee

St FS FT





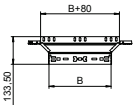

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RAAM 110 FS** | 110 | 100 | 1 | 53.700 | **6041920** |
| **RAAM 115 FS** | 110 | 150 | 1 | 60.000 | **6041921** |
| **RAAM 120 FS** | 110 | 200 | 1 | 66.300 | **6041922** |
| **RAAM 130 FS** | 110 | 300 | 1 | 79.200 | **6041924** |
| **RAAM 140 FS** | 110 | 400 | 1 | 92.200 | **6041926** |
| **RAAM 150 FS** | 110 | 500 | 1 | 105.100 | **6041928** |
| **RAAM 160 FS** | 110 | 600 | 1 | 118.400 | **6041930** |
| **RAAM 110 FT** | 110 | 100 | 1 | 57.600 | **6041940** |
| **RAAM 115 FT** | 110 | 150 | 1 | 64.300 | **6041941** |
| **RAAM 120 FT** | 110 | 200 | 1 | 71.100 | **6041942** |
| **RAAM 130 FT** | 110 | 300 | 1 | 84.900 | **6041944** |
| **RAAM 140 FT** | 110 | 400 | 1 | 98.900 | **6041946** |
| **RAAM 150 FT** | 110 | 500 | 1 | 112.700 | **6041948** |
| **RAAM 160 FT** | 110 | 600 | 1 | 127.000 | **6041950** |

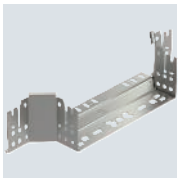
Add-on tee with quick connector system. For all cable tray types of 110 mm side height.

A2 2B

## Magic 110 add-on tee

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RAAM 110 A2 | 110 | 100 | 1 | 53.700 | 6041960 |
| RAAM 120 A2 | 110 | 200 | 1 | 66.300 | 6041962 |
| RAAM 130 A2 | 110 | 300 | 1 | 79.200 | 6041964 |
| RAAM 140 A2 | 110 | 400 | 1 | 92.200 | 6041966 |
| RAAM 150 A2 | 110 | 500 | 1 | 105.100 | 6041968 |
| RAAM 160 A2 | 110 | 600 | 1 | 118.400 | 6041970 |



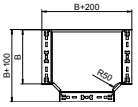



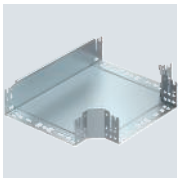
Add-on tee with quick connector system. For all cable tray types of 110 mm side height.

St FS FT

## Magic 110 tee

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RTM 110 FS | 110 | 100 | 1 | 113.600 | 6042010 |
| RTM 115 FS | 110 | 150 | 1 | 147.200 | 6042011 |
| RTM 120 FS | 110 | 200 | 1 | 185.500 | 6042012 |
| RTM 130 FS | 110 | 300 | 1 | 275.600 | 6042014 |
| RTM 140 FS | 110 | 400 | 1 | 380.300 | 6042018 |
| RTM 150 FS | 110 | 500 | 1 | 510.100 | 6042020 |
| RTM 160 FS | 110 | 600 | 1 | 659.500 | 6042022 |
| RTM 110 FT | 110 | 100 | 1 | 121.800 | 6042030 |
| RTM 115 FT | 110 | 150 | 1 | 157.900 | 6042032 |
| RTM 120 FT | 110 | 200 | 1 | 198.900 | 6042034 |
| RTM 130 FT | 110 | 300 | 1 | 295.500 | 6042036 |
| RTM 140 FT | 110 | 400 | 1 | 407.800 | 6042038 |
| RTM 150 FT | 110 | 500 | 1 | 547.000 | 6042040 |
| RTM 160 FT | 110 | 600 | 1 | 707.200 | 6042042 |



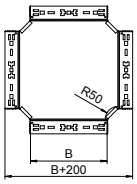



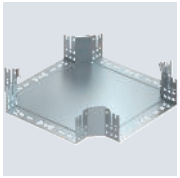
Tee with quick connector system. For all cable tray types of 110 mm side height.

St FS FT

## Magic 110 cross-over

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RKM 110 FS | 110 | 100 | 1 | 124.700 | 7027161 |
| RKM 115 FS | 110 | 150 | 1 | 156.100 | 7027163 |
| RKM 120 FS | 110 | 200 | 1 | 192.300 | 7027165 |
| RKM 130 FS | 110 | 300 | 1 | 277.600 | 7027167 |
| RKM 140 FS | 110 | 400 | 1 | 374.800 | 7027169 |
| RKM 150 FS | 110 | 500 | 1 | 499.800 | 7027171 |
| RKM 160 FS | 110 | 600 | 1 | 644.300 | 7027173 |
| RKM 110 FT | 110 | 100 | 1 | 133.700 | 7027181 |
| RKM 115 FT | 110 | 150 | 1 | 167.400 | 7027183 |
| RKM 120 FT | 110 | 200 | 1 | 206.200 | 7027185 |
| RKM 130 FT | 110 | 300 | 1 | 297.700 | 7027187 |
| RKM 140 FT | 110 | 400 | 1 | 401.900 | 7027189 |
| RKM 150 FT | 110 | 500 | 1 | 536.000 | 7027191 |
| RKM 160 FT | 110 | 600 | 1 | 690.900 | 7027193 |



Cross-over with quick connector system. For all cable tray types of 110 mm side height.

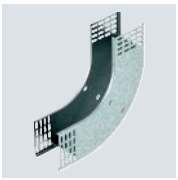


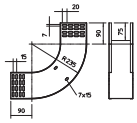
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# Cable trays, side height 110

## 90° vertical bend, rising, 110

St FS FT



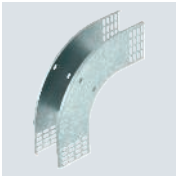


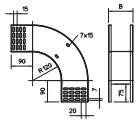
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBV 110 S FS** | 110 | 100 | 1 | 120.100 | **7007310** |
| **RBV 120 S FS** | 110 | 200 | 1 | 151.300 | **7007314** |
| **RBV 130 S FS** | 110 | 300 | 1 | 182.400 | **7007318** |
| **RBV 140 S FS** | 110 | 400 | 1 | 213.600 | **7007322** |
| **RBV 150 S FS** | 110 | 500 | 1 | 244.800 | **7007326** |
| **RBV 160 S FS** | 110 | 600 | 1 | 274.000 | **7007333** |
| **RBV 110 S FT** | 110 | 100 | 1 | 120.000 | **7007398** |
| **RBV 115 S FT** | 110 | 150 | 1 | 147.000 | **7007313** |
| **RBV 120 S FT** | 110 | 200 | 1 | 163.000 | **7007400** |
| **RBV 130 S FT** | 110 | 300 | 1 | 182.400 | **7007319** |
| **RBV 140 S FT** | 110 | 400 | 1 | 231.000 | **7007404** |
| **RBV 150 S FT** | 110 | 500 | 1 | 244.800 | **7007327** |
| **RBV 155 S FT** | 110 | 550 | 1 | 260.400 | **7007331** |
| **RBV 160 S FT** | 110 | 600 | 1 | 299.000 | **7007334** |

90° rising vertical bend, for all cable tray types of 110 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

## 90° vertical bend, falling 110

St FS FT



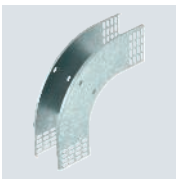


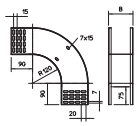
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBV 110 F FS** | 110 | 100 | 1 | 106.300 | **7007350** |
| **RBV 120 F FS** | 110 | 200 | 1 | 124.000 | **7007354** |
| **RBV 130 F FS** | 110 | 300 | 1 | 141.600 | **7007358** |
| **RBV 140 F FS** | 110 | 400 | 1 | 159.200 | **7007362** |
| **RBV 150 F FS** | 110 | 500 | 1 | 176.900 | **7007366** |
| **RBV 160 F FS** | 110 | 600 | 1 | 193.000 | **7007373** |
| **RBV 110 F FT** | 110 | 100 | 1 | 120.000 | **7007468** |
| **RBV 120 F FT** | 110 | 200 | 1 | 134.000 | **7007470** |
| **RBV 130 F FT** | 110 | 300 | 1 | 141.600 | **7007359** |
| **RBV 140 F FT** | 110 | 400 | 1 | 172.000 | **7007474** |
| **RBV 150 F FT** | 110 | 500 | 1 | 176.900 | **7007367** |
| **RBV 160 F FT** | 110 | 600 | 1 | 210.000 | **7007374** |

90° vertical bend, falling, for all cable tray types of 110 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

## 90° vertical bend, falling 110

St FS FT





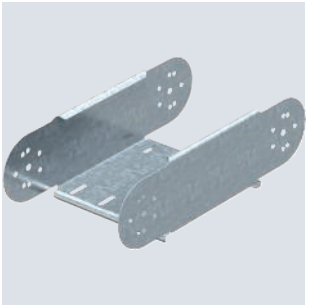
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBV 115 F FS** | 110 | 150 | 1 | 114.000 | **7007352** |
| **RBV 155 F FS** | 110 | 550 | 1 | 185.700 | **7007370** |
| **RBV 115 F FT** | 110 | 150 | 1 | 124.000 | **7007353** |
| **RBV 155 F FT** | 110 | 550 | 1 | 185.700 | **7007371** |

90° vertical bend, falling, for all cable tray types of 110 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

## Adjustable bend element, vertical 110

| Type | Side height mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RGBEV 110 FS** | 110 | | 1 | 96.500 | **7005628** |
| **RGBEV 120 FS** | 110 | | 1 | 116.800 | **7005644** |
| **RGBEV 130 FS** | 110 | | 1 | 137.200 | **7005660** |
| **RGBEV 140 FS** | 110 | | 1 | 157.500 | **7005687** |
| **RGBEV 150 FS** | 110 | | 1 | 177.900 | **7005709** |
| **RGBEV 160 FS** | 110 | | 1 | 175.000 | **7005723** |
| **RGBEV 110 FT** | 110 | | 1 | 103.400 | **7077106** |
| **RGBEV 115 FT** | 110 | | 1 | 114.300 | **7077112** |
| **RGBEV 120 FT** | 110 | | 1 | 125.200 | **7077203** |
| **RGBEV 130 FT** | 110 | | 1 | 147.100 | **7077300** |
| **RGBEV 140 FT** | 110 | | 1 | 168.900 | **7077408** |
| **RGBEV 150 FT** | 110 | | 1 | 179.800 | **7077505** |
| **RGBEV 160 FT** | 110 | | 1 | 186.000 | **7077972** |

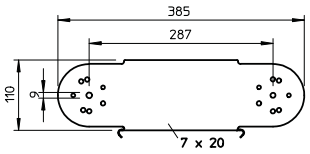


Adjustable bend element, vertical, for all cable tray types with a side height of 110 mm.

RGV 110 adjustable connectors should be ordered separately and in the appropriate quantity.

| Type | Width mm | Metal thickness mm |
|---|---|---|
| RGBEV 110 FS | 100 | 1.00 |
| RGBEV 120 FS | 200 | 1.00 |
| RGBEV 130 FS | 300 | 1.00 |
| RGBEV 140 FS | 400 | 1.00 |
| RGBEV 150 FS | 500 | 1.00 |
| RGBEV 160 FS | 600 | 1.00 |

### Dimensions

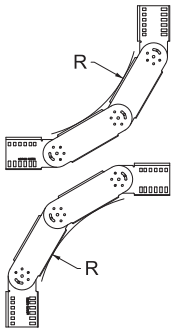



**Radius table**

| Quantity of elements | Radius |
|---|---|
| 1 | Approx. 300 mm |
| 2 | Approx. 450 mm |
| 3 | Approx. 600 mm |
| 4 | Approx. 750 mm |
| 5 | Approx. 900 mm |

Please order two RGV 110 adjustable connectors separately.

### Installation



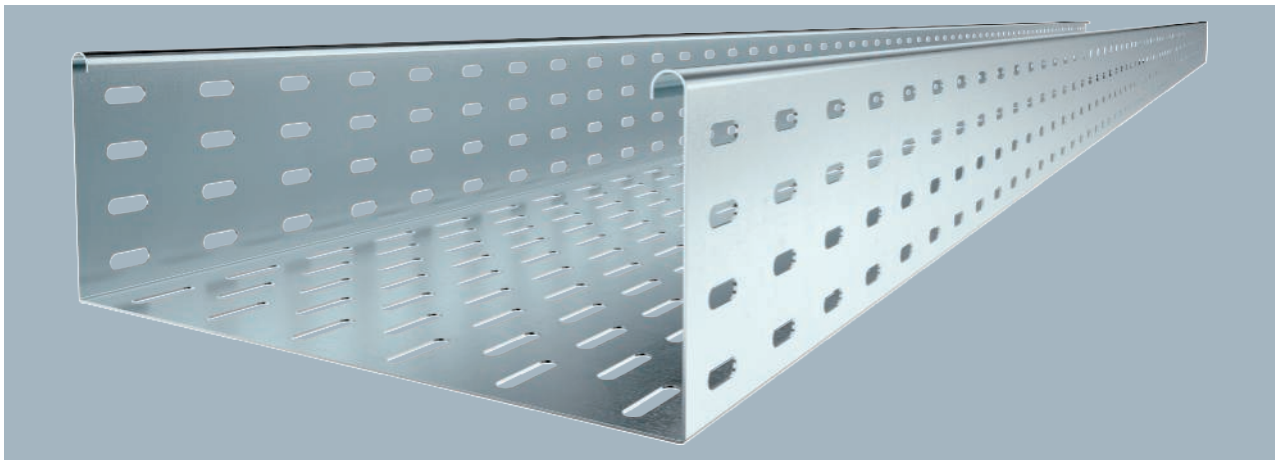



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# Cable trays, side height 110

## Cable tray MKS 110

St FS



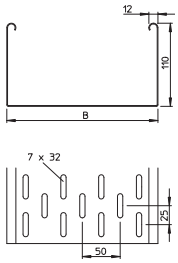
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKS 110 FS** | 100 | 1.00 | 3 | 267.700 | **6060102** |
| **MKS 120 FS** | 200 | 1.00 | 3 | 308.500 | **6060196** |
| **MKS 130 FS** | 300 | 1.00 | 3 | 373.900 | **6060307** |
| **MKS 140 FS** | 400 | 1.00 | 3 | 463.000 | **6060404** |
| **MKS 150 FS** | 500 | 1.00 | 3 | 528.333 | **6060412** |
| **MKS 155 FS** | 550 | 1.00 | 3 | 536.700 | **6060528** |

Including connector, type RLVL 110.

MKS 110 = medium-duty cable tray system with a side height of 110 mm.

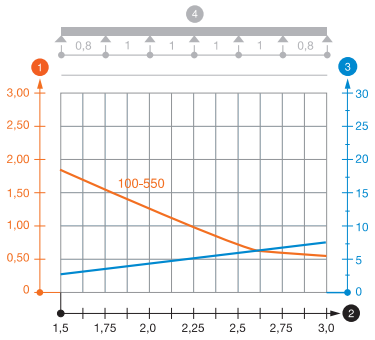
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKS 110 FS | 3000 | 100 | 108 |
| MKS 120 FS | 3000 | 200 | 218 |
| MKS 130 FS | 3000 | 300 | 328 |
| MKS 140 FS | 3000 | 400 | 438 |
| MKS 150 FS | 3000 | 500 | 548 |
| MKS 155 FS | 3000 | 550 | 603 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **MKS 110 FS** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKS 120 FS** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKS 130 FS** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKS 140 FS** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKS 150 FS** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKS 155 FS** | 1.85 | 1.3 | 0.75 | 0.6 |

### Load




### Load diagram, cable tray, type MKS 110

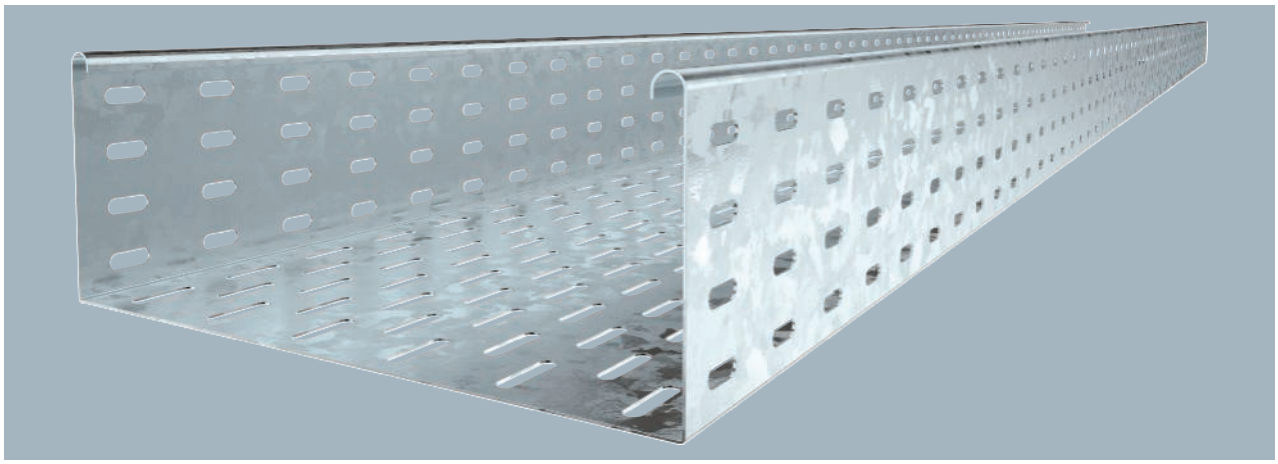
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

## Cable tray MKS 110

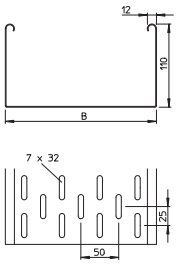


The cable tray is fastened to the bracket with screws, type FRS M6 x 12.

MKS 110 = medium-duty cable tray system with a side height of 110 mm.

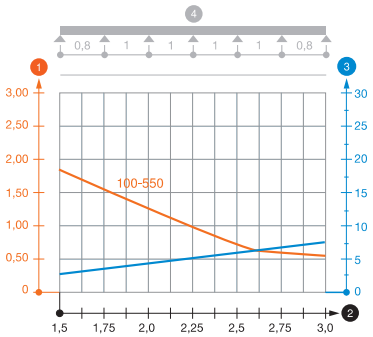
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MKS 110 FT** | 100 | 1.00 | 3 | 268.900 | **6060609** |
| **MKS 120 FT** | 200 | 1.00 | 3 | 340.600 | **6060625** |
| **MKS 130 FT** | 300 | 1.00 | 3 | 407.000 | **6060641** |
| **MKS 140 FT** | 400 | 1.00 | 3 | 484.000 | **6060676** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MKS 110 FT | 3000 | 100 | 110 |
| MKS 120 FT | 3000 | 200 | 220 |
| MKS 130 FT | 3000 | 300 | 330 |
| MKS 140 FT | 3000 | 400 | 440 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **MKS 110 FT** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKS 120 FT** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKS 130 FT** | 1.85 | 1.3 | 0.75 | 0.6 |
| **MKS 140 FT** | 1.85 | 1.3 | 0.75 | 0.6 |

**Load diagram, cable tray, type MKS 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

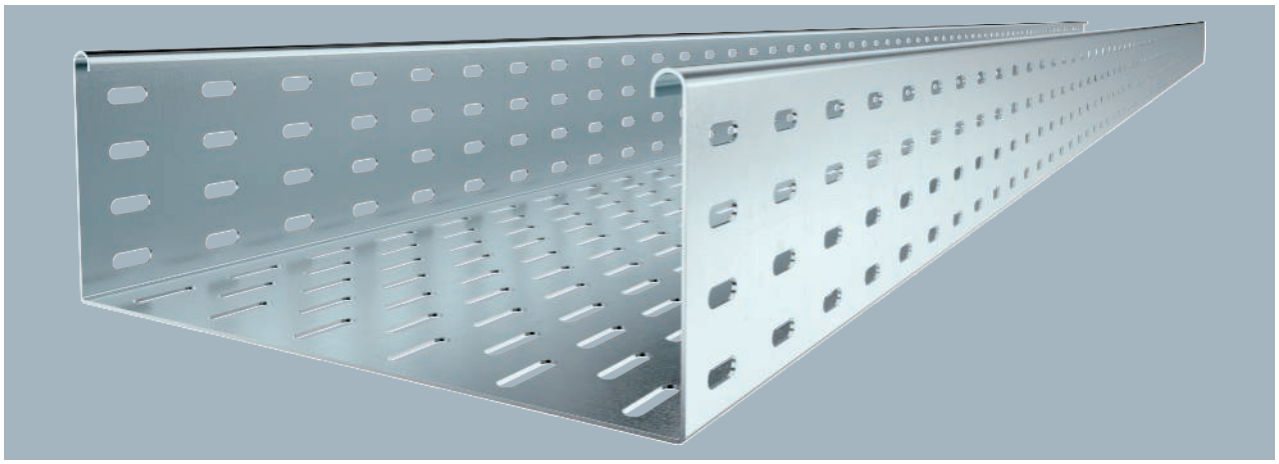




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## Cable tray SKS 110

St FS



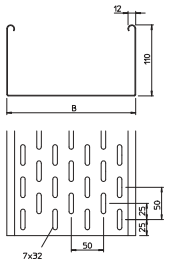
| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SKS 110 FS** | 100 | 1.50 | | 3 | 386.000 | **6061109** |
| **SKS 120 FS** | 200 | 1.50 | | 3 | 486.340 | **6061206** |
| **SKS 130 FS** | 300 | 1.50 | | 3 | 584.000 | **6061303** |
| **SKS 140 FS** | 400 | 1.50 | | 3 | 681.670 | **6061400** |
| **SKS 150 FS** | 500 | 1.50 | | 3 | 779.670 | **6061508** |
| **SKS 155 FS** | 550 | 1.50 | | 3 | 830.000 | **6061559** |

FS version includes connector, type RLVL 110.

SKS 110 = heavy-duty cable tray system with 110 mm side height.

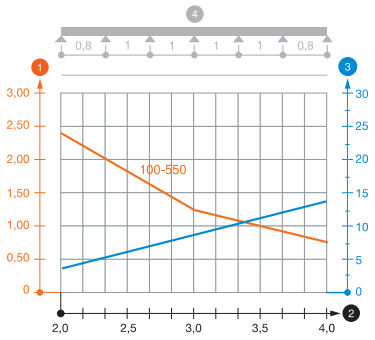
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKS 110 FS | 3000 | 100 | 108 |
| SKS 120 FS | 3000 | 200 | 218 |
| SKS 130 FS | 3000 | 300 | 328 |
| SKS 140 FS | 3000 | 400 | 438 |
| SKS 150 FS | 3000 | 500 | 548 |
| SKS 155 FS | 3000 | 550 | 603 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **SKS 110 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKS 120 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKS 130 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKS 140 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKS 150 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKS 155 FS** | 3 | 2.4 | 1.2 | 0.8 |

### Load




### Load diagram, cable tray, type SKS 110

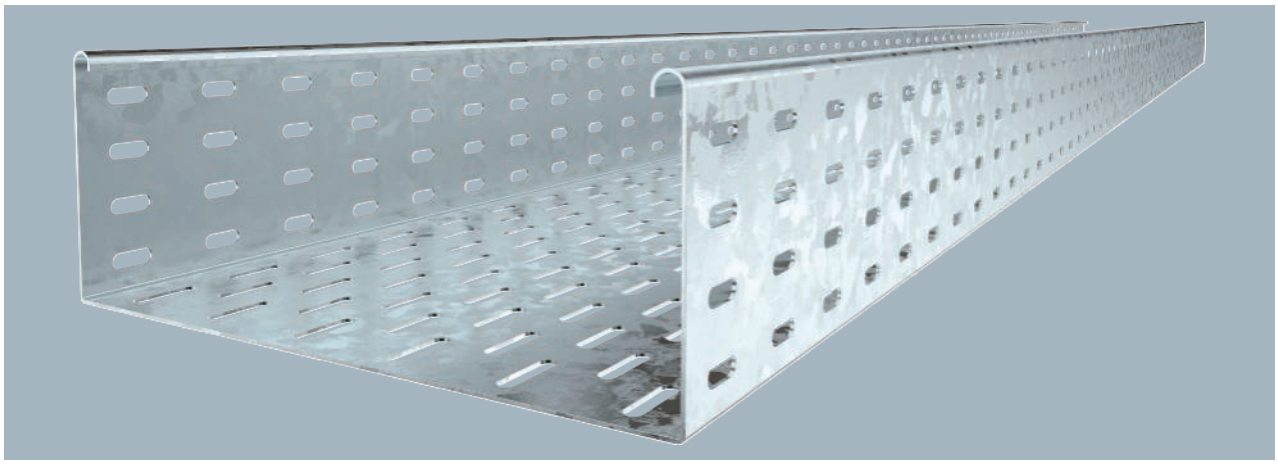
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

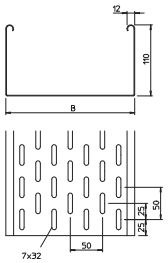
## Cable tray SKS 110



SKS 110 = heavy-duty cable tray system with 110 mm side height.

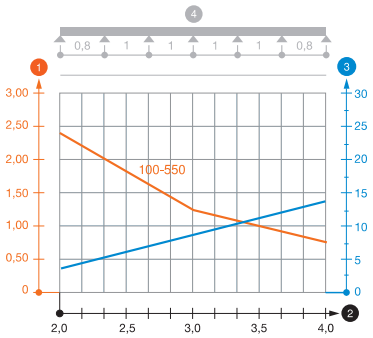
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKS 110 FT** | 100 | 1.50 | 3 | 388.680 | **6061605** |
| **SKS 120 FT** | 200 | 1.50 | 3 | 494.000 | **6061621** |
| **SKS 130 FT** | 300 | 1.50 | 3 | 598.340 | **6061656** |
| **SKS 140 FT** | 400 | 1.50 | 3 | 697.340 | **6061672** |
| **SKS 150 FT** | 500 | 1.50 | 3 | 807.000 | **6061702** |
| **SKS 155 FT** | 550 | 1.50 | 3 | 856.000 | **6061729** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKS 110 FT | 3000 | 100 | 108 |
| SKS 120 FT | 3000 | 200 | 218 |
| SKS 130 FT | 3000 | 300 | 328 |
| SKS 140 FT | 3000 | 400 | 438 |
| SKS 150 FT | 3000 | 500 | 548 |
| SKS 155 FT | 3000 | 550 | 603 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **SKS 110 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKS 120 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKS 130 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKS 140 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKS 150 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKS 155 FT** | 3 | 2.4 | 1.2 | 0.8 |

**Load diagram, cable tray, type SKS 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

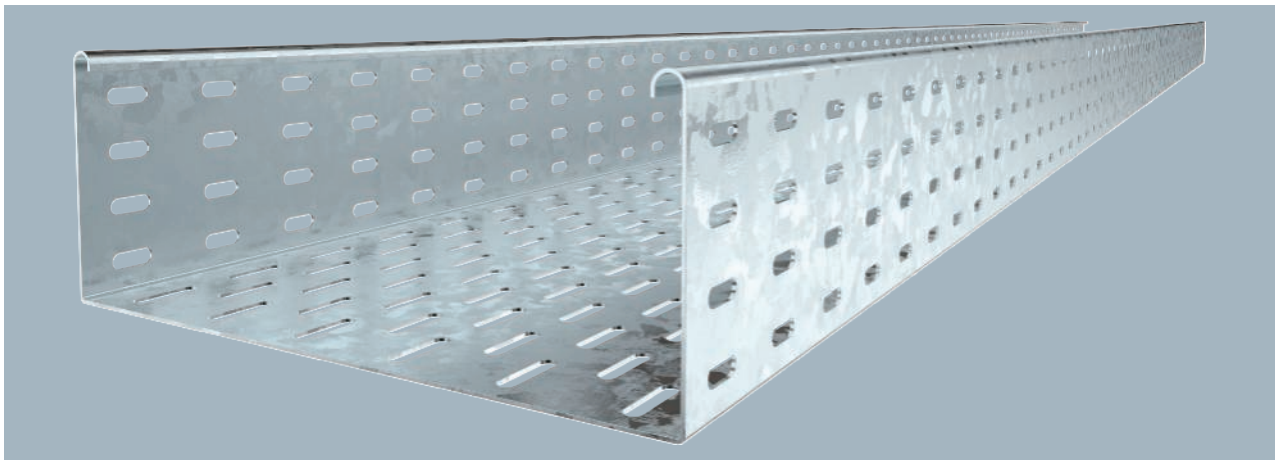




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## Cable tray SKS 110

St FT

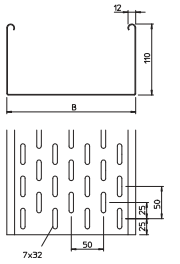


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SKS 160 FT** | 600 | 1.50 | | 3 | 912.670 | **6061733** |

SKS 110 = heavy-duty cable tray system with 110 mm side height.

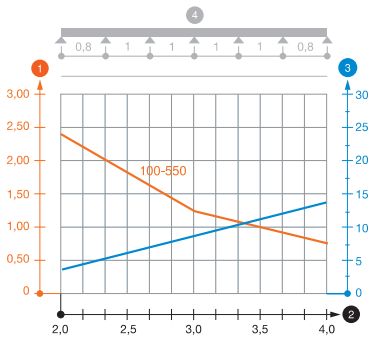
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKS 160 FT | 3000 | 600 | 658 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **SKS 160 FT** | 3 | 2.4 | 1.2 | 0.8 |

**Load**




**Load diagram, cable tray, type SKS 110**

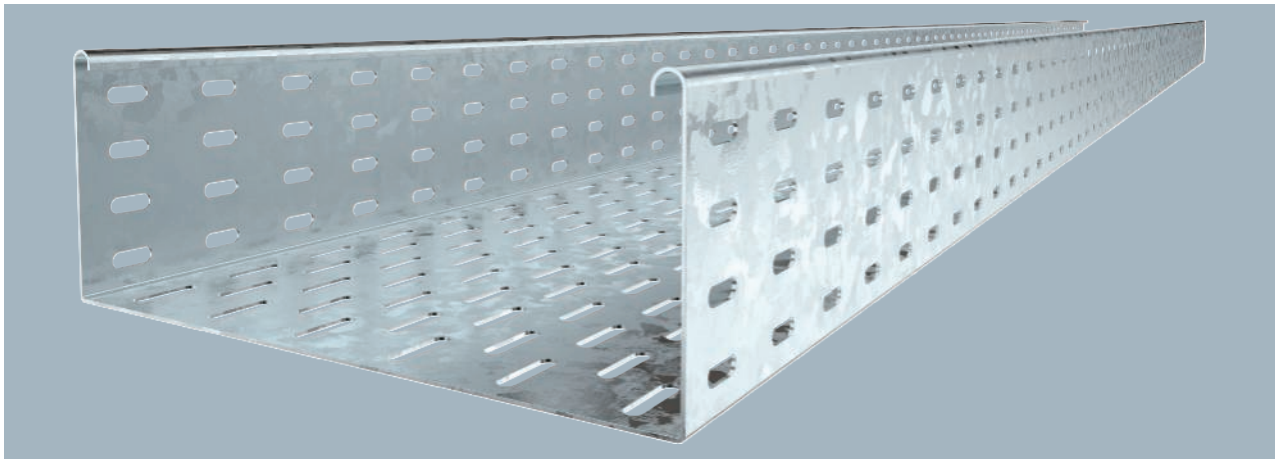
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT SO

## Cable tray SKS 110 FT SOMY

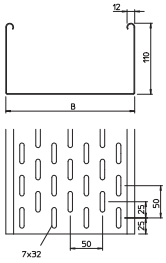


The cable tray is fastened to the bracket with bolts, type FRS M6 x 12. The surface coating is a coating created in a single-dip method with extra-high zinc thicknesses.

SKS 110 = Heavy-duty cable tray system with 110 mm side height.

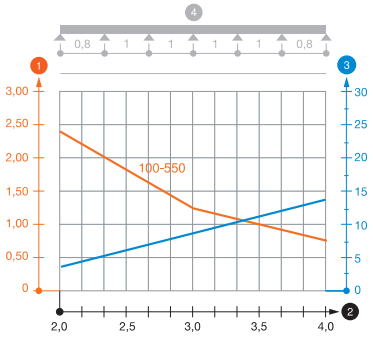
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKS 130 FT SO** | 300 | 1.50 | 3 | 618.670 | **7196025** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKS 130 FT SO | 3000 | 300 | 328 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **SKS 130 FT SO** | 3 | 2.4 | 1.2 | 0.8 |

**Load diagram, cable tray, type SKS 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

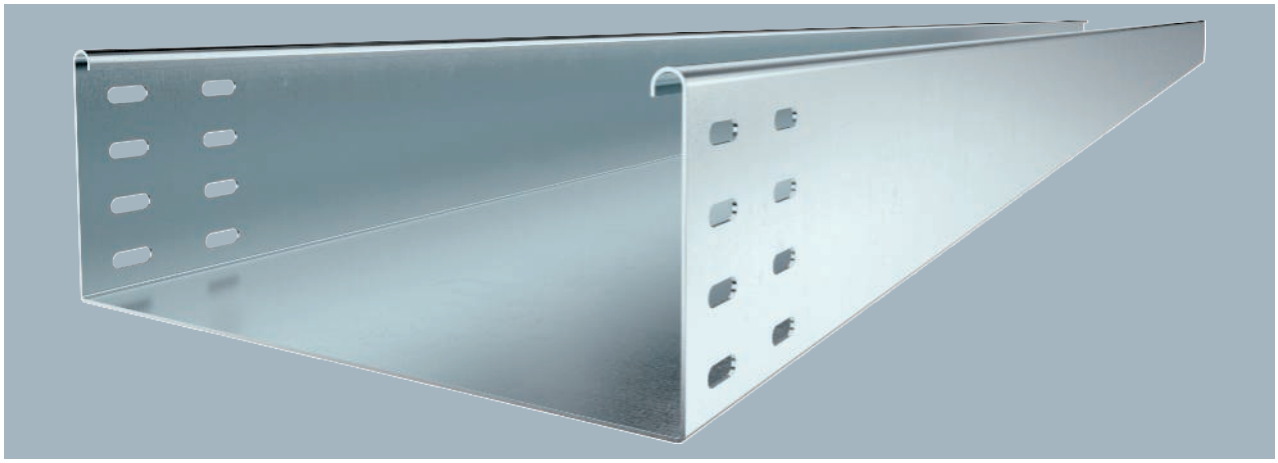
— Strut bend curve according to support width



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Cable tray SKSU 110

St FS



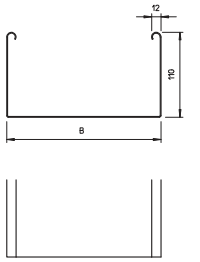
| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SKSU 110 FS** | 100 | 1.50 | | 3 | 404.000 | **6063403** |
| **SKSU 120 FS** | 200 | 1.50 | | 3 | 520.000 | **6063438** |
| **SKSU 130 FS** | 300 | 1.50 | | 3 | 637.000 | **6063454** |
| **SKSU 140 FS** | 400 | 1.50 | | 3 | 754.700 | **6063470** |
| **SKSU 150 FS** | 500 | 1.50 | | 3 | 872.000 | **6063497** |
| **SKSU 155 FS** | 550 | 1.50 | | 3 | 935.340 | **6063500** |

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

SKSU 110 = heavy-duty cable tray system, unperforated, with 110 mm side height.

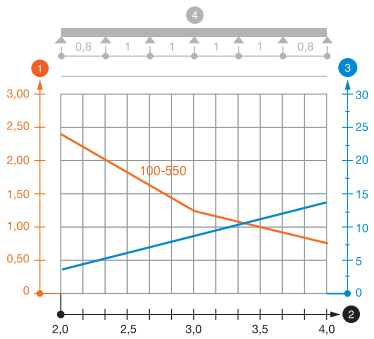
| Type | Length mm | Dim. B mm | Usable cross-section $cm^2$ |
|---|---|---|---|
| SKSU 110 FS | 3000 | 100 | 108 |
| SKSU 120 FS | 3000 | 200 | 218 |
| SKSU 130 FS | 3000 | 300 | 328 |
| SKSU 140 FS | 3000 | 400 | 438 |
| SKSU 150 FS | 3000 | 500 | 548 |
| SKSU 155 FS | 3000 | 550 | 603 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **SKSU 110 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSU 120 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSU 130 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSU 140 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSU 150 FS** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSU 155 FS** | 3 | 2.4 | 1.2 | 0.8 |

### Load

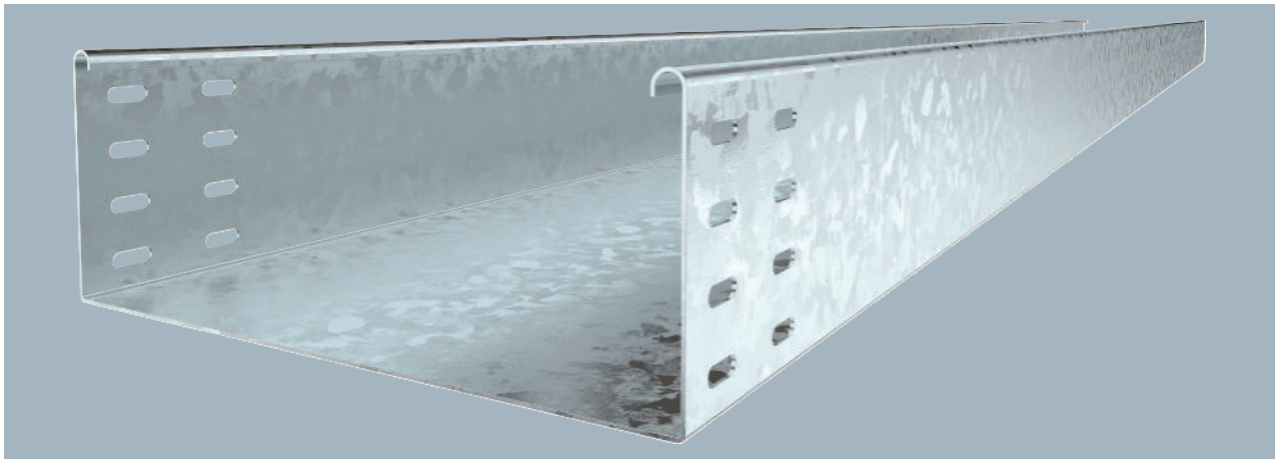



### Load diagram, cable tray, type SKSU 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width

St FT

## Cable tray SKSU 110

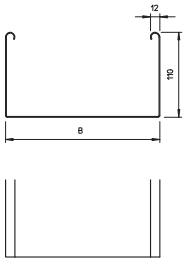


The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

SKS 110 = heavy-duty cable tray system, unperforated, with 110 mm side height.

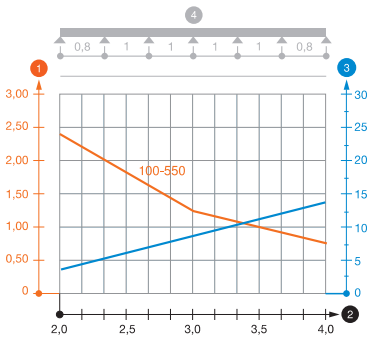
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKSU 110 FT** | 100 | 1.50 | 3 | 406.700 | **6064795** |
| **SKSU 120 FT** | 200 | 1.50 | 3 | 551.340 | **6064833** |
| **SKSU 130 FT** | 300 | 1.50 | 3 | 694.000 | **6064884** |
| **SKSU 140 FT** | 400 | 1.50 | 3 | 822.670 | **6064922** |
| **SKSU 150 FT** | 500 | 1.50 | 3 | 924.670 | **6064965** |
| **SKSU 155 FT** | 550 | 1.50 | 3 | 991.670 | **6064973** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKSU 110 FT | 3000 | 100 | 108 |
| SKSU 120 FT | 3000 | 200 | 218 |
| SKSU 130 FT | 3000 | 300 | 328 |
| SKSU 140 FT | 3000 | 400 | 438 |
| SKSU 150 FT | 3000 | 500 | 548 |
| SKSU 155 FT | 3000 | 550 | 605 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **SKSU 110 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSU 120 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSU 130 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSU 140 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSU 150 FT** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSU 155 FT** | 3 | 2.4 | 1.2 | 0.8 |

**Load diagram, cable tray, type SKSU 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

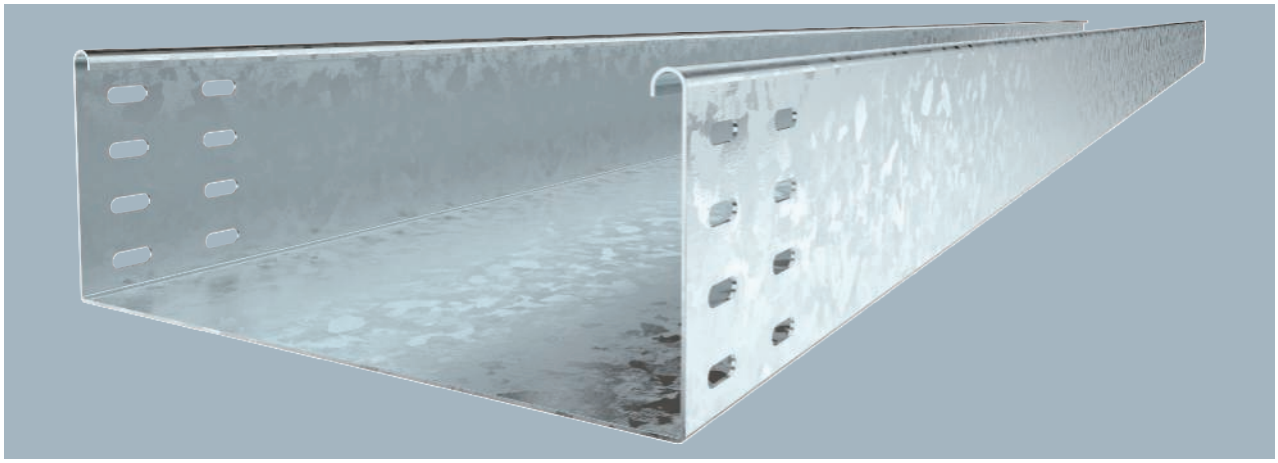




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## Cable tray SKSU 110 FT SOMY

St FT SO



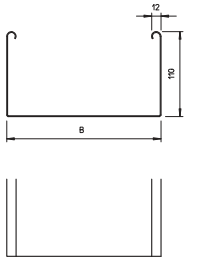
| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SKSU 120 FT SO** | 200 | 1.50 | | 3 | 551.340 | **7196012** |

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

SKS 110 = heavy-duty cable tray system, unperforated, with 110 mm side height.

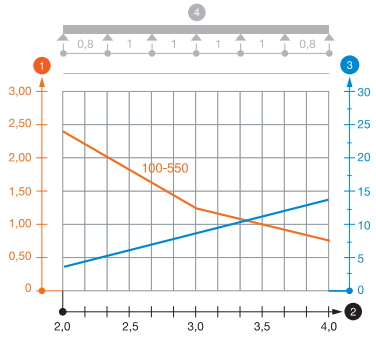
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKSU 120 FT SO | 3000 | 200 | 218 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **SKSU 120 FT SO** | 3 | 2.4 | 1.2 | 0.8 |

**Load**




**Load diagram, cable tray, type SKSU 110**

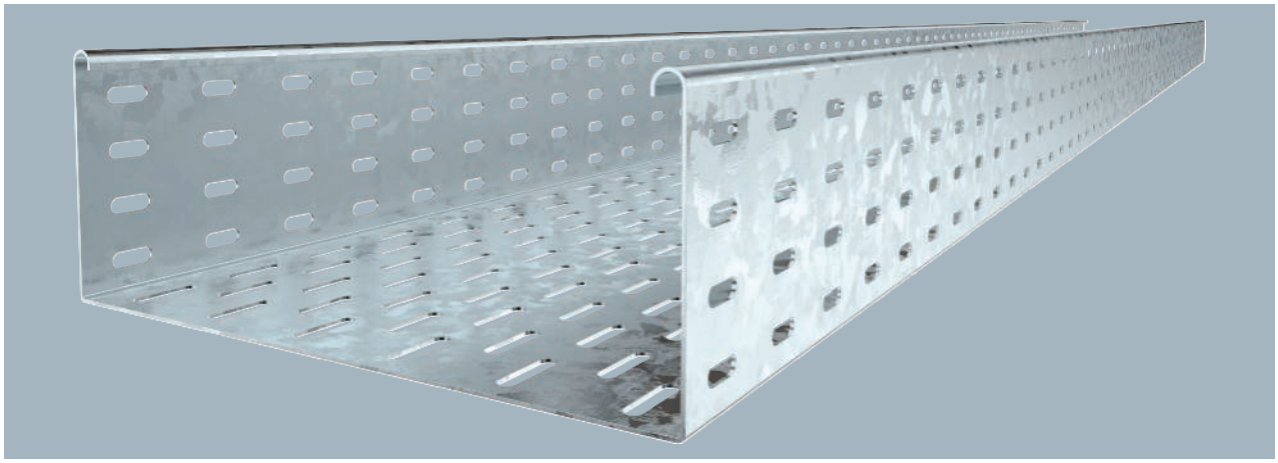
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT SO

## Cable tray SKS 110 FT SOMY

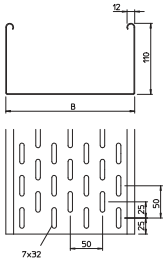


The cable tray is fastened to the bracket with bolts, type FRS M6 x 12. The surface coating is a coating created in a single-dip method with extra-high zinc thicknesses.

SKS 110 = Heavy-duty cable tray system with 110 mm side height.

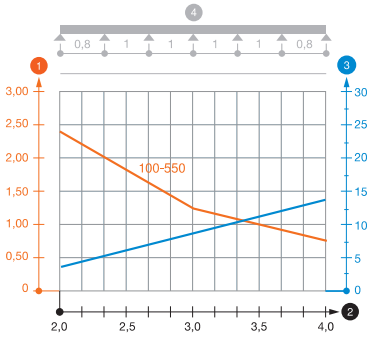
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKS 110 FT SO** | 100 | 1.50 | 3 | 402.000 | **7196008** |
| **SKS 120 FT SO** | 200 | 1.50 | 3 | 511.000 | **7196011** |
| **SKS 140 FT SO** | 400 | 1.50 | 3 | 726.700 | **7196016** |
| **SKS 150 FT SO** | 500 | 1.50 | 3 | 836.000 | **7196019** |
| **SKS 160 FT SO** | 600 | 1.50 | 3 | 942.400 | **7196026** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SKS 110 FT SO | 3000 | 100 | 108 |
| SKS 120 FT SO | 3000 | 200 | 218 |
| SKS 140 FT SO | 3000 | 400 | 438 |
| SKS 150 FT SO | 3000 | 500 | 548 |
| SKS 160 FT SO | 3000 | 600 | 655 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **SKS 110 FT SO** | 3 | 2.4 | 1.2 | 0.8 |
| **SKS 120 FT SO** | 3 | 2.4 | 1.2 | 0.8 |
| **SKS 140 FT SO** | 3 | 2.4 | 1.2 | 0.8 |
| **SKS 150 FT SO** | 3 | 2.4 | 1.2 | 0.8 |
| **SKS 160 FT SO** | 3 | 2.4 | 1.2 | 0.8 |

**Load diagram, cable tray, type SKS 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

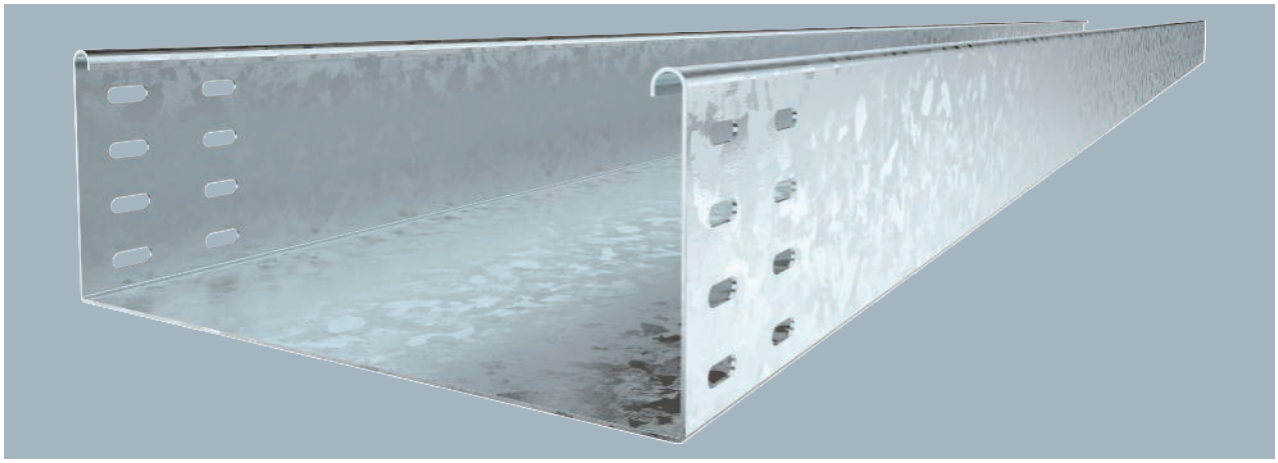
— Strut bend curve according to support width



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## Cable tray SKSU 110 FT SOMY

St FT SO



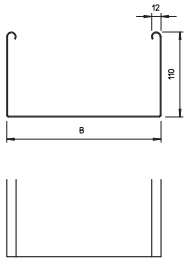
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SKSU 130 FT SO** | 300 | 1.50 | 3 | 694.000 | **7196013** |
| **SKSU 140 FT SO** | 400 | 1.50 | 3 | 822.700 | **7196014** |

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

SKS 110 = heavy-duty cable tray system, unperforated, with 110 mm side height.

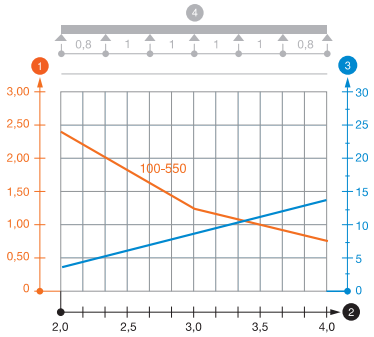
| Type | Length mm | Dim. B mm | Usable cross-section $cm^2$ |
|---|---|---|---|
| SKSU 130 FT SO | 3000 | 300 | 328 |
| SKSU 140 FT SO | 3000 | 400 | 438 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **SKSU 130 FT SO** | 3 | 2.4 | 1.2 | 0.8 |
| **SKSU 140 FT SO** | 3 | 2.4 | 1.2 | 0.8 |

**Load**




**Load diagram, cable tray, type SKSU 110**

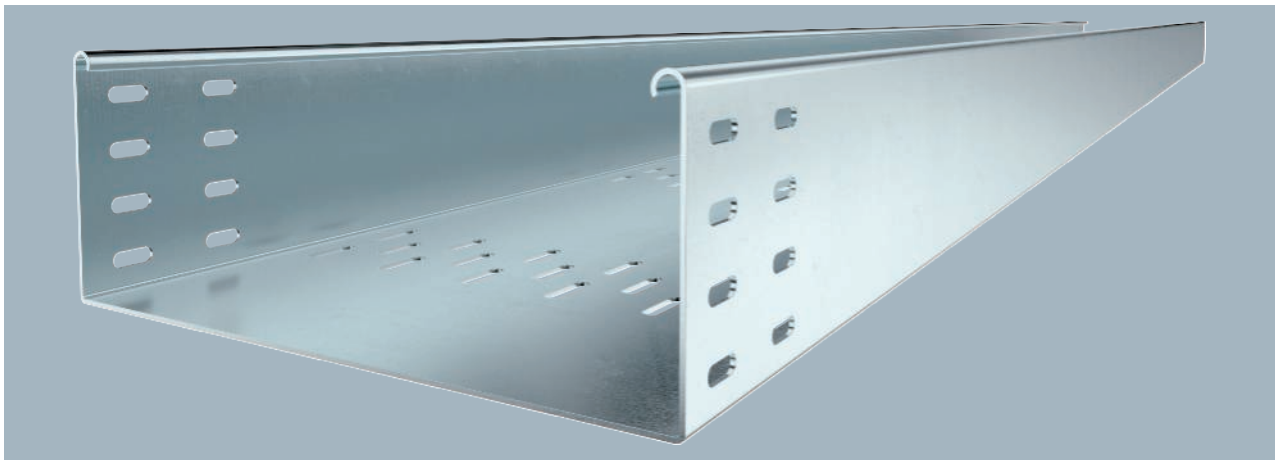
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

## Cable tray BKRS 110

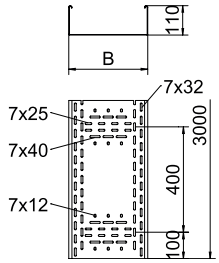


The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

Heavy-duty, walkable cable tray system BKRS with base perforation, in 110 mm side height.

| Type | Side height mm | Dim. H mm | Dim. B mm | Dim. L mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|---|
| **BKRS 1110 FS** | 110 | 110 | 100 | 3000 | 2.00 | 3 | 517.933 | **6061981** |
| **BKRS 1120 FS** | 110 | 110 | 200 | 3000 | 2.00 | 3 | 659.900 | **6061983** |
| **BKRS 1130 FS** | 110 | 110 | 300 | 3000 | 2.00 | 3 | 806.833 | **6061985** |
| **BKRS 1140 FS** | 110 | 110 | 400 | 3000 | 2.00 | 3 | 954.767 | **6061987** |
| **BKRS 1150 FS** | 110 | 110 | 500 | 3000 | 2.00 | 3 | 1,102.667 | **6061989** |
| **BKRS 1160 FS** | 110 | 110 | 600 | 3000 | 2.00 | 3 | 1,250.600 | **6061991** |

### Dimensions




| Type | Dim. L mm | Dim. B mm | Dim. H mm | Metal thick-ness mm | Usable cross-section cm² |
|---|---|---|---|---|---|
| BKRS 1110 FS | 3000 | 100 | 110 | 2.00 | 96 |
| BKRS 1120 FS | 3000 | 200 | 110 | 2.00 | 196 |
| BKRS 1130 FS | 3000 | 300 | 110 | 2.00 | 296 |
| BKRS 1140 FS | 3000 | 400 | 110 | 2.00 | 396 |
| BKRS 1150 FS | 3000 | 500 | 110 | 2.00 | 496 |
| BKRS 1160 FS | 3000 | 600 | 110 | 2.00 | 596 |

Always indicate the item number when ordering.



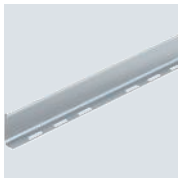


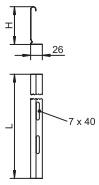
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# Cable trays, side height 110

## Separating retainer 85

St FS DD





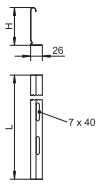

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 85 FS** | 85 | 0.75 | 3000 | 3 | 70.233 | **6062114** |
| **TSG 85 DD** | 85 | 0.75 | 3000 | 3 | 70.300 | **6062331** |

Separating retainer for separation of cables of different voltages or functions.

## Separating retainer 110

St FS DD



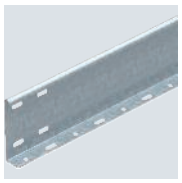


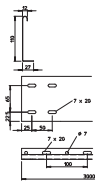

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 110 FS** | 110 | 0.75 | 3000 | 3 | 85.000 | **6062122** |
| **TSG 110 DD** | 110 | 0.75 | 3000 | 3 | 85.000 | **6062335** |

Separating retainer for separation of cables of different voltages or functions.

## TSG 110 FT SOMY

St FT SO





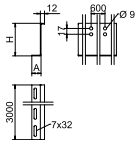
| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 110 FT SO** | 106 | 0.75 | 3000 | 3 | 101.667 | **7190498** |

Barrier strip for separation of cables of different voltages or functions.

## Barrier strip, Z-shaped 110

St FS






| Type | Dim. H mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG110Z BKRS FS** | 110 | 2.00 | 3000 | 3 | 210.433 | **6062391** |

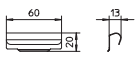
For widths of 200 mm or more, a barrier strip with a maximum compartment size of 220 mm should be used.
For widths of 500 mm or more, two barrier strips with a maximum compartment size of 220 mm should be used.

Barrier strip for the BKRS walkable cable tray system. Fastening with truss-head bolts M6 x 12 in the base perforation.

## Separating retainer connector

VA 2B





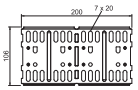

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **TSGV A2** | 10 | 0.899 | **6067970** |

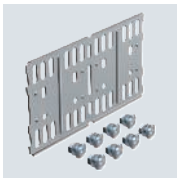
Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

St FS FT

## Straight and angle connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| RLVL 110 FS | 110 | 10 | 33.800 | 6067131 |
| RLVL 110 FT | 110 | 10 | 35.100 | 6067913 |



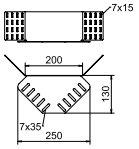



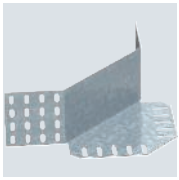
Straight and angle connector for cable trays and fittings with a side height of 110 mm.
Including appropriate fastening material.

St FS DD

## Corner connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| REV 110 FS | 110 | 10 | 72.000 | 6067999 |
| REV 110 DD | 110 | 1 | 72.000 | 6069339 |



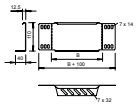



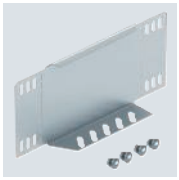
Corner connector for cable trays with side height 110 mm.
Fastening materials should be ordered separately.

St FS DD

## Reducer/stop-end 110

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RWEB 110 FS | 110 | 100 | 1 | 16.400 | 7111096 |
| RWEB 115 FS | 110 | 150 | 1 | 22.900 | 7111201 |
| RWEB 120 FS | 110 | 200 | 1 | 29.000 | 7111207 |
| RWEB 130 FS | 110 | 300 | 1 | 40.700 | 7111304 |
| RWEB 140 FS | 110 | 400 | 1 | 52.900 | 7111428 |
| RWEB 150 FS | 110 | 500 | 1 | 64.800 | 7111509 |
| RWEB 160 FS | 110 | 600 | 1 | 71.000 | 7111740 |
| RWEB 155 FS | 110 | 550 | 1 | 70.700 | 7111541 |
| RWEB 110 DD | 110 | 100 | 1 | 16.300 | 7107455 |
| RWEB 120 DD | 110 | 200 | 1 | 25.000 | 7107471 |
| RWEB 130 DD | 110 | 300 | 1 | 44.000 | 7107501 |
| RWEB 140 DD | 110 | 400 | 1 | 58.000 | 7107536 |
| RWEB 150 DD | 110 | 500 | 1 | 64.700 | 7107552 |
| RWEB 160 DD | 110 | 600 | 1 | 71.000 | 7107562 |
| RWEB 155 DD | 110 | 550 | 1 | 70.700 | 7107560 |



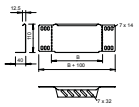


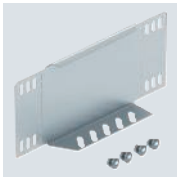
Reducer/stop-end for cable trays with side height 110 mm.
From a width of 150 mm, the perforated lower flange is provided.
Including appropriate fastening material.

St FT SO

## Reducer/stop-end RWEB SO

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RWEB 110 FT SO | 110 | 100 | 1 | 25.300 | 7195351 |
| RWEB 130 FT SO | 110 | 300 | 1 | 44.400 | 7195355 |
| RWEB 160 FT SO | 110 | 600 | 1 | 92.300 | 7195362 |





Reducer/stop-end for cable trays with side height 110 mm.
From a width of 150 mm, the perforated lower flange is provided.
Including appropriate fastening material.



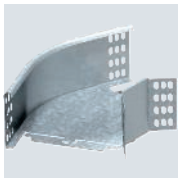
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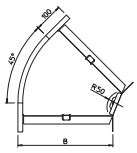
Always indicate the item number when ordering.

# Cable trays, side height 110

## 45° bend 110

St FS FT



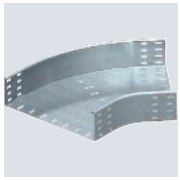


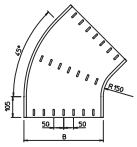
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RB 45 110 FS** | 110 | 100 | 1 | 70.000 | **7000634** |
| **RB 45 120 FS** | 110 | 200 | 1 | 100.000 | **7000650** |
| **RB 45 130 FS** | 110 | 300 | 1 | 135.000 | **7000677** |
| **RB 45 110 FT** | 110 | 100 | 1 | 75.000 | **7068115** |
| **RB 45 120 FT** | 110 | 200 | 1 | 110.000 | **7068212** |
| **RB 45 130 FT** | 110 | 300 | 1 | 145.000 | **7068328** |

45° bend, horizontal, for all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state. The WKV 110 angle connector is designed for 90° bends and can be adjusted to 45° on site.
Including appropriate fastening material.

## 45° bend 110

St FS FT



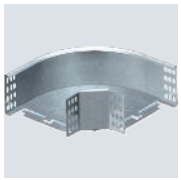


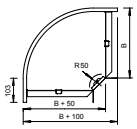
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RB 45 140 FS** | 110 | 400 | 1 | 340.000 | **7000685** |
| **RB 45 150 FS** | 110 | 500 | 1 | 400.000 | **7000707** |
| **RB 45 155 FS** | 110 | 550 | 1 | 470.000 | **7000715** |
| **RB 45 140 FT** | 110 | 400 | 1 | 365.000 | **7068409** |
| **RB 45 150 FT** | 110 | 500 | 1 | 425.000 | **7068506** |
| **RB 45 155 FT** | 110 | 550 | 1 | 500.000 | **7068557** |

45° bend, horizontal, for all cable tray types of 110 mm side height.
Fastening materials should be ordered separately.

## 90° bend 110

St FS FT



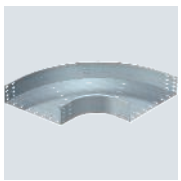


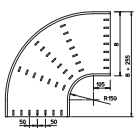
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RB 90 110 FS** | 110 | 100 | 1 | 80.000 | **7001894** |
| **RB 90 120 FS** | 110 | 200 | 1 | 140.000 | **7001916** |
| **RB 90 130 FS** | 110 | 300 | 1 | 210.000 | **7001932** |
| **RB 90 110 FT** | 110 | 100 | 1 | 85.000 | **7127103** |
| **RB 90 120 FT** | 110 | 200 | 1 | 150.000 | **7127227** |
| **RB 90 130 FT** | 110 | 300 | 1 | 230.000 | **7127320** |

90° bend, horizontal, for all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

## 90° bend 110

St FS FT





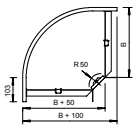
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RB 90 140 FS** | 110 | 400 | 1 | 540.000 | **7001940** |
| **RB 90 150 FS** | 110 | 500 | 1 | 700.000 | **7001967** |
| **RB 90 155 FS** | 110 | 550 | 1 | 780.000 | **7001975** |
| **RB 90 140 FT** | 110 | 400 | 1 | 575.000 | **7127413** |
| **RB 90 150 FT** | 110 | 500 | 1 | 750.000 | **7127499** |
| **RB 90 155 FT** | 110 | 550 | 1 | 840.000 | **7127545** |
| **RB 90 160 FT** | 110 | 600 | 1 | 855.000 | **7127627** |

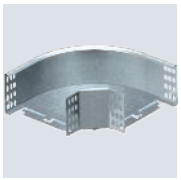
90° bend, horizontal, for all cable tray types of 110 mm side height.
Fastening materials should be ordered separately.

St FT SO

## 90° Magic bend 110 FT SOMY

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RB 90 110 FT SO | 110 | 100 | 1 | 85.000 | 7196105 |
| RB 90 120 FT SO | 110 | 200 | 1 | 167.000 | 7196107 |
| RB 90 130 FT SO | 110 | 300 | 1 | 230.000 | 7196110 |
| RB 90 140 FT SO | 110 | 400 | 1 | 576.000 | 7196113 |
| RB 90 150 FT SO | 110 | 500 | 1 | 785.000 | 7196115 |
| RB 90 160 FT SO | 110 | 600 | 1 | 855.000 | 7196122 |



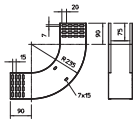



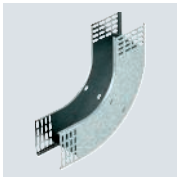
90° bend, horizontal, for all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

## 90° vertical bend, rising, 110

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RBV 115 S FS | 110 | 150 | 1 | 135.000 | 7007312 |
| RBV 155 S FS | 110 | 550 | 1 | 260.400 | 7007330 |
| RBV 115 S FT | 110 | 150 | 1 | 147.000 | 7007313 |



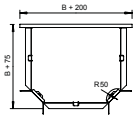



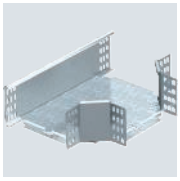
90° rising vertical bend, for all cable tray types of 110 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

## T branch piece 110

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RT 110 FS | 110 | 100 | 1 | 105.000 | 7003633 |
| RT 120 FS | 110 | 200 | 1 | 160.000 | 7003668 |
| RT 130 FS | 110 | 300 | 1 | 235.000 | 7003684 |
| RT 110 FT | 110 | 100 | 1 | 110.000 | 7119119 |
| RT 120 FT | 110 | 200 | 1 | 180.000 | 7119216 |
| RT 130 FT | 110 | 300 | 1 | 250.000 | 7119313 |



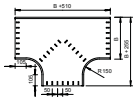



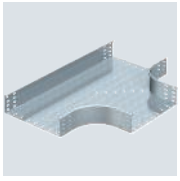
Horizontal T branch piece, for all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state. Including appropriate fastening material.

St FS FT

## T branch piece 110

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| RT 140 FS | 110 | 400 | 1 | 770.000 | 7003692 |
| RT 150 FS | 110 | 500 | 1 | 950.000 | 7003714 |
| RT 140 FT | 110 | 400 | 1 | 825.000 | 7119402 |
| RT 150 FT | 110 | 500 | 1 | 950.000 | 7119496 |
| RT 155 FT | 110 | 550 | 1 | 1,100.000 | 7119550 |



Horizontal T branch piece, for all cable tray types of 110 mm side height.
Fastening materials should be ordered separately.

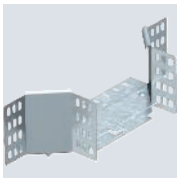


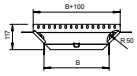
Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Cable trays, side height 110

## Add-on tee 110

St FS FT





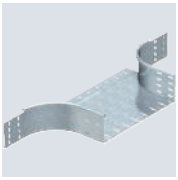
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RAA 110 FS** | 110 | 100 | 1 | 45.000 | **7002637** |
| **RAA 120 FS** | 110 | 200 | 1 | 55.000 | **7002653** |
| **RAA 130 FS** | 110 | 300 | 1 | 70.000 | **7002688** |
| **RAA 110 FT** | 110 | 100 | 1 | 50.000 | **7123116** |
| **RAA 120 FT** | 110 | 200 | 1 | 60.000 | **7123213** |
| **RAA 130 FT** | 110 | 300 | 1 | 75.000 | **7123310** |

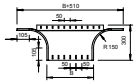
Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.

The fitting is shipped in an unmounted state.
Including appropriate fastening material.

## Add-on tee 110

St FS FT





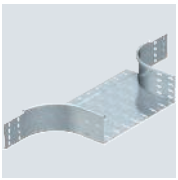
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RAA 140 FS** | 110 | 400 | 1 | 250.000 | **7002696** |
| **RAA 150 FS** | 110 | 500 | 1 | 285.000 | **7002726** |
| **RAA 155 FS** | 110 | 550 | 1 | 300.000 | **7002734** |
| **RAA 140 FT** | 110 | 400 | 1 | 270.000 | **7123396** |
| **RAA 150 FT** | 110 | 500 | 1 | 310.000 | **7123507** |
| **RAA 155 FT** | 110 | 550 | 1 | 325.000 | **7123558** |

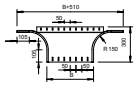
Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.

Fastening materials should be ordered separately.

## Add-on tee 110 FT SOMY

St FT SO





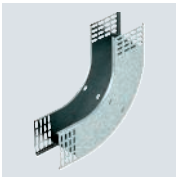
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RAA 160 FT SO** | 110 | 600 | 1 | 337.000 | **7196178** |

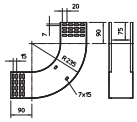
Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.

Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

## 90° vertical bend, rising, 110

St FS FT





| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBV 110 S FS** | 110 | 100 | 1 | 120.100 | **7007310** |
| **RBV 120 S FS** | 110 | 200 | 1 | 151.300 | **7007314** |
| **RBV 130 S FS** | 110 | 300 | 1 | 182.400 | **7007318** |
| **RBV 140 S FS** | 110 | 400 | 1 | 213.600 | **7007322** |
| **RBV 150 S FS** | 110 | 500 | 1 | 244.800 | **7007326** |
| **RBV 160 S FS** | 110 | 600 | 1 | 274.000 | **7007333** |
| **RBV 110 S FT** | 110 | 100 | 1 | 120.000 | **7007398** |
| **RBV 115 S FT** | 110 | 150 | 1 | 147.000 | **7007313** |
| **RBV 120 S FT** | 110 | 200 | 1 | 163.000 | **7007400** |
| **RBV 130 S FT** | 110 | 300 | 1 | 182.400 | **7007319** |
| **RBV 140 S FT** | 110 | 400 | 1 | 231.000 | **7007404** |
| **RBV 150 S FT** | 110 | 500 | 1 | 244.800 | **7007327** |
| **RBV 155 S FT** | 110 | 550 | 1 | 260.400 | **7007331** |
| **RBV 160 S FT** | 110 | 600 | 1 | 299.000 | **7007334** |

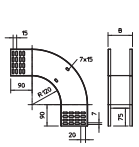
90° rising vertical bend, for all cable tray types of 110 mm side height.

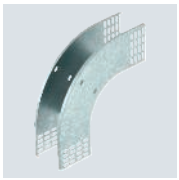
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

## 90° vertical bend, falling 110

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RBV 110 F FS** | 110 | 100 | 1 | 106.300 | **7007350** |
| **RBV 120 F FS** | 110 | 200 | 1 | 124.000 | **7007354** |
| **RBV 130 F FS** | 110 | 300 | 1 | 141.600 | **7007358** |
| **RBV 140 F FS** | 110 | 400 | 1 | 159.200 | **7007362** |
| **RBV 150 F FS** | 110 | 500 | 1 | 176.900 | **7007366** |
| **RBV 160 F FS** | 110 | 600 | 1 | 193.000 | **7007373** |
| **RBV 110 F FT** | 110 | 100 | 1 | 120.000 | **7007468** |
| **RBV 120 F FT** | 110 | 200 | 1 | 134.000 | **7007470** |
| **RBV 130 F FT** | 110 | 300 | 1 | 141.600 | **7007359** |
| **RBV 140 F FT** | 110 | 400 | 1 | 172.000 | **7007474** |
| **RBV 150 F FT** | 110 | 500 | 1 | 176.900 | **7007367** |
| **RBV 160 F FT** | 110 | 600 | 1 | 210.000 | **7007374** |





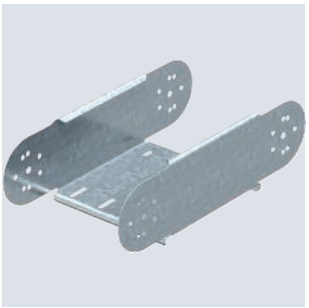
90° vertical bend, falling, for all cable tray types of 110 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

## Adjustable bend element, vertical 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RGBEV 110 FS** | 110 | 1 | 96.500 | **7005628** |
| **RGBEV 115 FS** | 110 | 1 | 106.700 | **7005636** |
| **RGBEV 120 FS** | 110 | 1 | 116.800 | **7005644** |
| **RGBEV 130 FS** | 110 | 1 | 137.200 | **7005660** |
| **RGBEV 140 FS** | 110 | 1 | 157.500 | **7005687** |
| **RGBEV 150 FS** | 110 | 1 | 177.900 | **7005709** |
| **RGBEV 155 FS** | 110 | 1 | 188.300 | **7005717** |
| **RGBEV 160 FS** | 110 | 1 | 175.000 | **7005723** |
| **RGBEV 110 FT** | 110 | 1 | 103.400 | **7077106** |
| **RGBEV 115 FT** | 110 | 1 | 114.300 | **7077112** |
| **RGBEV 120 FT** | 110 | 1 | 125.200 | **7077203** |
| **RGBEV 130 FT** | 110 | 1 | 147.100 | **7077300** |
| **RGBEV 140 FT** | 110 | 1 | 168.900 | **7077408** |
| **RGBEV 150 FT** | 110 | 1 | 179.800 | **7077505** |
| **RGBEV 160 FT** | 110 | 1 | 186.000 | **7077972** |

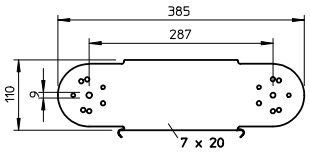


Adjustable bend element, vertical, for all cable tray types with a side height of 110 mm.

RGV 110 adjustable connectors should be ordered separately and in the appropriate quantity.

| Type | Width mm | Metal thickness mm |
|---|---|---|
| RGBEV 110 FS | 100 | 1.00 |
| RGBEV 115 FS | 150 | 1.00 |
| RGBEV 120 FS | 200 | 1.00 |
| RGBEV 130 FS | 300 | 1.00 |
| RGBEV 140 FS | 400 | 1.00 |
| RGBEV 150 FS | 500 | 1.00 |
| RGBEV 155 FS | 550 | 1.00 |
| RGBEV 160 FS | 600 | 1.00 |

**Dimensions**

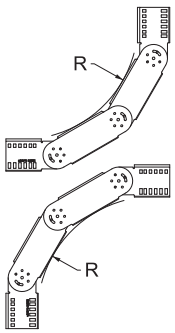



**Radius table**

| Quantity of elements | Radius |
|---|---|
| 1 | Approx. 300 mm |
| 2 | Approx. 450 mm |
| 3 | Approx. 600 mm |
| 4 | Approx. 750 mm |
| 5 | Approx. 900 mm |

Please order two RGV 110 adjustable connectors separately.

**Installation**



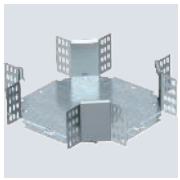


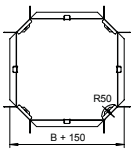

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# Cable trays, side height 110

## Cross-over 110

St FS FT



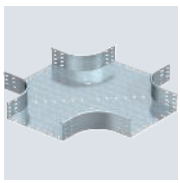


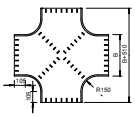

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RK 110 FS** | 110 | 100 | 1 | 110.000 | **7004648** |
| **RK 120 FS** | 110 | 200 | 1 | 160.000 | **7004664** |
| **RK 130 FS** | 110 | 300 | 1 | 220.000 | **7004680** |
| **RK 110 FT** | 110 | 100 | 1 | 120.000 | **7115113** |
| **RK 120 FT** | 110 | 200 | 1 | 175.000 | **7115210** |
| **RK 130 FT** | 110 | 300 | 1 | 240.000 | **7115318** |

Horizontal cross-over for all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state. Including appropriate fastening material.

## Cross-over 110

St FS FT






| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **RK 140 FS** | 110 | 400 | 1 | 906.000 | **7004699** |
| **RK 150 FS** | 110 | 500 | 1 | 1,100.000 | **7004710** |
| **RK 140 FT** | 110 | 400 | 1 | 960.000 | **7115407** |
| **RK 150 FT** | 110 | 500 | 1 | 1,180.000 | **7115504** |
| **RK 160 FT** | 110 | 600 | 1 | 1,340.000 | **7115564** |

Horizontal cross-over for all cable tray types of 110 mm side height.
Fastening materials should be ordered separately.

# MFR cable tray

## Cable tray MFR 200

St FT

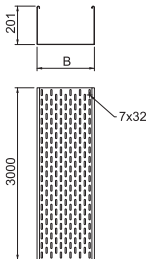


| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **MFR 220 FT** | 200 | 1.50 | | 3 | 721.467 | **6083056** |
| **MFR 230 FT** | 300 | 1.50 | | 3 | 825.767 | **6083060** |
| **MFR 240 FT** | 400 | 1.50 | | 3 | 930.066 | **6083064** |

MFR = mobile radio tray
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

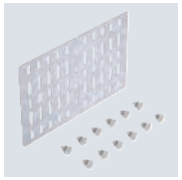
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| MFR 220 FT | 3000 | 200 | 400 |
| MFR 230 FT | 3000 | 300 | 600 |
| MFR 240 FT | 3000 | 400 | 800 |

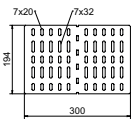
**Dimensions**




## Straight and angle connector 200

St FT



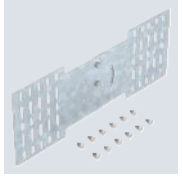


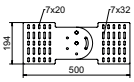

| Type | Side height mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LWVM 200 FT** | 200 | | 2 | 113.200 | **6083200** |

Usable as a straight connector for straight connections of cable trays (FT) with a side height of 200 mm. Usable as angle connector for horizontal brackets without fittings.

## Adjustable connector 200

St FT






| Type | Side height mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **GVM 200 FT** | 200 | | 2 | 216.600 | **6083210** |

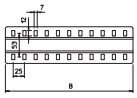
Adjustable connector for vertically rounded connections of cable trays (FT) with a side height of 200 mm.

# Joint plates

## Joint plate

St FS DD





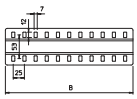
| Type | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **SSLB 100 FS** | 100 | 20 | 7.700 | **7070205** |
| **SSLB 150 FS** | 150 | 20 | 14.000 | **7070209** |
| **SSLB 200 FS** | 200 | 20 | 18.500 | **7070213** |
| **SSLB 300 FS** | 300 | 20 | 29.200 | **7070217** |
| **SSLB 400 FS** | 400 | 20 | 38.200 | **7070221** |
| **SSLB 500 FS** | 500 | 20 | 49.000 | **7070225** |
| **SSLB 550 FS** | 550 | 20 | 53.500 | **7070229** |
| **SSLB 600 FS** | 600 | 20 | 58.000 | **7070233** |
| **SSLB 100 DD** | 100 | 20 | 7.700 | **7070306** |
| **SSLB 150 DD** | 150 | 20 | 14.000 | **7070310** |
| **SSLB 200 DD** | 200 | 20 | 18.500 | **7070314** |
| **SSLB 300 DD** | 300 | 20 | 29.200 | **7070318** |
| **SSLB 400 DD** | 400 | 20 | 38.200 | **7070322** |
| **SSLB 500 DD** | 500 | 20 | 49.000 | **7070326** |
| **SSLB 600 DD** | 600 | 20 | 58.000 | **7070334** |
| **SSLB 550 DD** | 550 | 20 | 53.500 | **7070330** |

Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

## Joint plate

A2 A4 2B





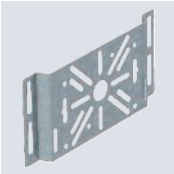
| Type | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **SSLB 100 A2** | 100 | 20 | 7.700 | **7070353** |
| **SSLB 200 A2** | 200 | 20 | 18.500 | **7070361** |
| **SSLB 300 A2** | 300 | 20 | 29.200 | **7070365** |
| **SSLB 400 A2** | 400 | 20 | 38.200 | **7070369** |
| **SSLB 500 A2** | 500 | 20 | 49.000 | **7070373** |
| **SSLB 600 A2** | 600 | 20 | 58.000 | **7070381** |
| **SSLB 100 A4** | 100 | 20 | 7.700 | **7070390** |
| **SSLB 200 A4** | 200 | 20 | 18.500 | **7070392** |
| **SSLB 300 A4** | 300 | 20 | 29.200 | **7070394** |
| **SSLB 400 A4** | 400 | 20 | 38.200 | **7070396** |
| **SSLB 500 A4** | 500 | 20 | 49.000 | **7070398** |
| **SSLB 600 A4** | 600 | 20 | 58.000 | **7070400** |

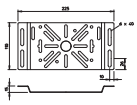
Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

# Mounting plates

## Mounting plate FS

St FS





| Type | Height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **MP FS** | 110 | 225 | 1 | 20.000 | **7084919** |

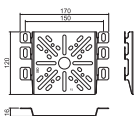
Mounting plate for fastening on the side rail of the cable tray. All kinds of junction boxes and switching devices can be fastened to the mark.

St A2 FS DD 2B

## Mounting plate

| Type | Height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| MP UNI FS | 120 | 170 | 1 | 11.000 | 7084773 |
| MP UNI DD | 120 | 170 | 1 | 11.000 | 7085114 |
| MP UNI A2 | 120 | 170 | 1 | 11.000 | 7085133 |

Please order the truss-head bolt, type FRSB 6 x 12, separately.
Mounting plate, for fastening on the side rail of cable support systems.



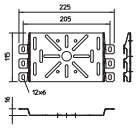


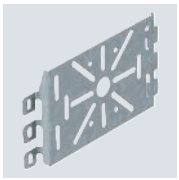
St FS

## Mounting plate

| Type | Height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| MP 225 UNI FS | 115 | 225 | 1 | 20.000 | 7084870 |

Please order the truss-head bolt, type FRSB 6 x 12, separately.
Mounting plate for universal use on side rails of cable trays and mesh cable trays.



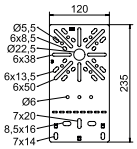


St FS DD

## Mounting plate, flat

| Type | Height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| MP FL FS | 235 | 120 | 1 | 19.200 | 7084757 |
| MP FL DD | 235 | 120 | 1 | 19.200 | 7085108 |

Please order the truss-head bolt, type FRS B6 x 12, separately.
Flat mounting plate, for fastening on the side rail of the cable tray.



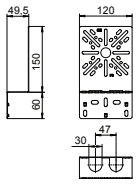


St FS DD

## Mounting plate, angled

| Type | Height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| MP WI KL. FS | 210 | 120 | 1 | 20.200 | 7084765 |
| MP WI KL. DD | 210 | 120 | 1 | 20.200 | 7085111 |

Please order the truss-head bolt, type FRS B6 x 12, separately.
Curved mounting plate, for fixing on the side rail of the cable tray.



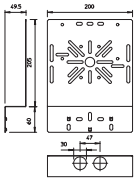


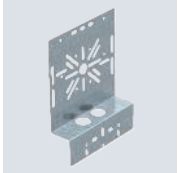
St FS DD

## Mounting plate, angled, wide

| Type | Height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| MP WI GR. FS | 240 | 200 | 1 | 39.400 | 7084781 |
| MP WI GR. DD | 240 | 200 | 1 | 39.400 | 7085112 |

Please order the truss-head bolt, type FRS B6 x 12, separately.
Angled mounting plate, for fastening on the side rail of the cable tray.







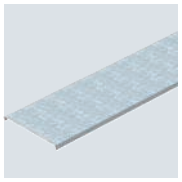
Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

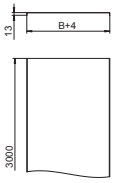
Always indicate the item number when ordering.

# System accessories

## Unperforated cover

St FS DD





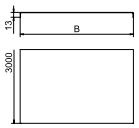

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DRLU 050 FS** | 50 | 1.00 | 3000 | 3 | 59.767 | **6052056** |
| **DRLU 100 FS** | 100 | 1.00 | 3000 | 3 | 99.000 | **6052103** |
| **DRLU 150 FS** | 150 | 1.00 | 3000 | 3 | 138.267 | **6052153** |
| **DRLU 200 FS** | 200 | 1.00 | 3000 | 3 | 177.500 | **6052210** |
| **DRLU 300 FS** | 300 | 1.00 | 3000 | 3 | 256.000 | **6052307** |
| **DRLU 400 FS** | 400 | 1.00 | 3000 | 3 | 334.500 | **6052405** |
| **DRLU 500 FS** | 500 | 1.50 | 3000 | 3 | 619.234 | **6052512** |
| **DRLU 550 FS** | 550 | 1.50 | 3000 | 3 | 678.100 | **6052571** |
| **DRLU 600 FS** | 600 | 1.50 | 3000 | 3 | 737.000 | **6052609** |
| **DRLU 050 DD** | 50 | 1.00 | 3000 | 3 | 59.770 | **6052640** |
| **DRLU 100 DD** | 100 | 1.00 | 3000 | 3 | 99.000 | **6052643** |
| **DRLU 150 DD** | 150 | 1.00 | 3000 | 3 | 138.267 | **6052647** |
| **DRLU 200 DD** | 200 | 1.00 | 3000 | 3 | 177.500 | **6052650** |
| **DRLU 300 DD** | 300 | 1.00 | 3000 | 3 | 256.000 | **6052656** |
| **DRLU 400 DD** | 400 | 1.00 | 3000 | 3 | 334.500 | **6052662** |
| **DRLU 500 DD** | 500 | 1.50 | 3000 | 3 | 619.234 | **6052668** |
| **DRLU 550 DD** | 550 | 1.50 | 3000 | 3 | 678.100 | **6052671** |
| **DRLU 600 DD** | 600 | 1.50 | 3000 | 3 | 737.000 | **6052674** |

Cover for cable trays and mesh cable trays.
When using covers outdoors, additional measures against the influence of wind must be taken.
Transverse bead from 500 mm width.

## Unperforated cover

A2 A4 2B






| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DRLU 050 A2** | 50 | 1.00 | 3000 | 3 | 59.767 | **6052821** |
| **DRLU 100 A2** | 100 | 1.00 | 3000 | 3 | 99.000 | **6052824** |
| **DRLU 200 A2** | 200 | 1.00 | 3000 | 3 | 177.500 | **6052831** |
| **DRLU 300 A2** | 300 | 1.00 | 3000 | 3 | 256.000 | **6052834** |
| **DRLU 400 A2** | 400 | 1.00 | 3000 | 3 | 334.500 | **6052837** |
| **DRLU 500 A2** | 500 | 1.50 | 3000 | 3 | 619.167 | **6052841** |
| **DRLU 600 A2** | 600 | 1.50 | 3000 | 3 | 736.900 | **6052844** |
| **DRLU 100 A4** | 100 | 1.00 | 3000 | 3 | 99.000 | **6052991** |
| **DRLU 200 A4** | 200 | 1.00 | 3000 | 3 | 177.500 | **6052993** |
| **DRLU 300 A4** | 300 | 1.00 | 3000 | 3 | 256.000 | **6052994** |
| **DRLU 400 A4** | 400 | 1.00 | 3000 | 3 | 334.500 | **6052995** |
| **DRLU 500 A4** | 500 | 1.25 | 3000 | 3 | 619.167 | **6052996** |
| **DRLU 600 A4** | 600 | 1.25 | 3000 | 3 | 736.900 | **6052998** |

Cover for cable trays and mesh cable trays.
When using covers outdoors, additional measures against the influence of wind must be taken.
Transverse bead from 500 mm width.

## Cover clamp

VA 2B





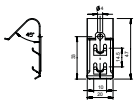
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **DK DRLU A2** | 30 | 0.842 | **6052810** |

Cover clamp for secure fastening of covers on cable trays and cable ladders.
At least 6 cover clamps should be mounted for each 3 metres of cover.

VA 2B

## Cover clamp, universal

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| DKU A2 | 20 | 0.794 | 6065600 |



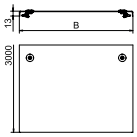


Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ small ducts.
The cover clamp is not suitable for use with mesh cable trays with a side height of 35 mm.
Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.

St FS FT DD

## Cover with turn buckle

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| DRL 075 FS | 75 | 1.00 | 3000 | 3 | 83.340 | 6052029 |
| DRL 100 FS | 100 | 1.00 | 3000 | 3 | 103.000 | 6052096 |
| DRL 150 FS | 150 | 1.00 | 3000 | 3 | 141.667 | 6052150 |
| DRL 200 FS | 200 | 1.00 | 3000 | 3 | 181.340 | 6052207 |
| DRL 300 FS | 300 | 1.00 | 3000 | 3 | 259.334 | 6052304 |
| DRL 400 FS | 400 | 1.00 | 3000 | 3 | 338.670 | 6052401 |
| DRL 500 FS | 500 | 1.25 | 3000 | 3 | 623.000 | 6052509 |
| DRL 550 FS | 550 | 1.25 | 3000 | 3 | 681.670 | 6052568 |
| DRL 600 FS | 600 | 1.25 | 3000 | 3 | 741.000 | 6052606 |
| DRL 100 FT | 100 | 1.00 | 3000 | 3 | 106.670 | 6051340 |
| DRL 150 FT | 150 | 1.00 | 3000 | 3 | 159.340 | 6051359 |
| DRL 200 FT | 200 | 1.00 | 3000 | 3 | 202.670 | 6051367 |
| DRL 300 FT | 300 | 1.00 | 3000 | 3 | 289.000 | 6051383 |
| DRL 400 FT | 400 | 1.50 | 3000 | 3 | 542.000 | 6051413 |
| DRL 500 FT | 500 | 1.50 | 3000 | 3 | 667.670 | 6051448 |
| DRL 600 FT | 600 | 1.50 | 3000 | 3 | 793.000 | 6051472 |
| DRL 100 DD | 100 | 1.00 | 3000 | 3 | 106.340 | 6052703 |
| DRL 150 DD | 150 | 1.00 | 3000 | 3 | 145.670 | 6052706 |
| DRL 200 DD | 200 | 1.00 | 3000 | 3 | 185.000 | 6052709 |
| DRL 300 DD | 300 | 1.00 | 3000 | 3 | 263.340 | 6052712 |
| DRL 400 DD | 400 | 1.00 | 3000 | 3 | 342.070 | 6052715 |
| DRL 500 DD | 500 | 1.25 | 3000 | 3 | 626.670 | 6052718 |
| DRL 550 DD | 550 | 1.25 | 3000 | 3 | 685.340 | 6052721 |
| DRL 600 DD | 600 | 1.25 | 3000 | 3 | 744.570 | 6052724 |



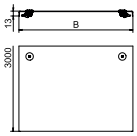



Transverse bead from 500 mm width.
Cover for cable trays and cable ladders with turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.

A2 A4 2B

## Cover with turn buckle

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| DRL 100 A2 | 100 | 1.00 | 3000 | 3 | 105.070 | 6052878 |
| DRL 200 A2 | 200 | 1.00 | 3000 | 3 | 183.500 | 6052894 |
| DRL 300 A2 | 300 | 1.00 | 3000 | 3 | 262.240 | 6052908 |
| DRL 400 A2 | 400 | 1.00 | 3000 | 3 | 340.400 | 6052932 |
| DRL 500 A2 | 500 | 1.25 | 3000 | 3 | 625.340 | 6052959 |
| DRL 600 A2 | 600 | 1.25 | 3000 | 3 | 743.240 | 6052975 |
| DRL 100 A4 | 100 | 1.00 | 3000 | 3 | 105.070 | 6052980 |
| DRL 200 A4 | 200 | 1.00 | 3000 | 3 | 183.570 | 6052981 |
| DRL 300 A4 | 300 | 1.00 | 3000 | 3 | 262.240 | 6052983 |
| DRL 400 A4 | 400 | 1.00 | 3000 | 3 | 341.240 | 6052984 |
| DRL 500 A4 | 500 | 1.25 | 3000 | 3 | 624.900 | 6052985 |
| DRL 600 A4 | 600 | 1.25 | 3000 | 3 | 743.240 | 6052986 |





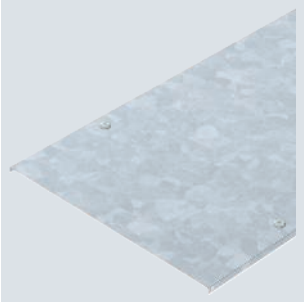

Transverse bead from 500 mm width.
Cover for cable trays and cable ladders with three pairs of turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.

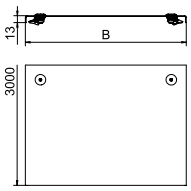


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## Cover with turn buckle FT SOMY

St FT SO






| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DRL 200 FT SO** | 200 | 1.00 | 3000 | 3 | 210.670 | **7196035** |
| **DRL 400 FT SO** | 400 | 1.00 | 3000 | 3 | 371.370 | **7196039** |
| **DRL 500 FT SO** | 500 | 1.00 | 3000 | 3 | 623.000 | **7196045** |
| **DRL 600 FT SO** | 600 | 1.00 | 3000 | 3 | 818.667 | **7196061** |
| **DRL 150 FT SO** | 150 | 1.00 | 3000 | 3 | 165.400 | **7196034** |

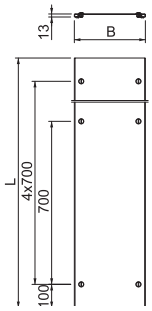
Cover for cable trays and cable ladders with three pairs of turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken.

## Cover with turn buckle 200

St FT






| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DMFR 200 FT** | 200 | 1.00 | 3000 | 3 | 194.470 | **6083150** |
| **DMFR 300 FT** | 300 | 1.50 | 3000 | 3 | 407.970 | **6083152** |
| **DMFR 400 FT** | 400 | 1.50 | 3000 | 3 | 533.570 | **6083154** |

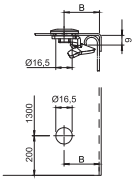
Cover for mobile radio tray with five pairs of turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken.

## Turn buckle for riveting

St FT






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **DRL H FT** | 20 | 2.187 | **6065012** |

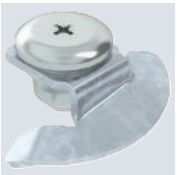
Turn buckle for additional installation or installation at a later date.

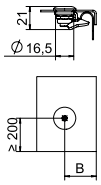
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm

Single-sided turn buckle. Use for cover widths of 100–600 mm.

## Turn buckle for screwing

St FT






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **DRL H S FT** | 20 | 3.260 | **6065018** |

Turn buckle for additional installation or installation at a later date.

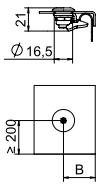
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm

Single-sided turn buckle. Use for cover widths of 100–600 mm.

A2 2B

## Turn buckle for screwing

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **DRL H S A2** | 20 | 3.260 | **6065016** |






Turn buckle for additional mounting or mounting at a later date.

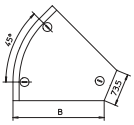
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm

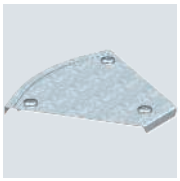
Single-sided turn buckle. Use for cover widths of 100–600 mm.

St FS DD

## Cover for 45° bend

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFB 45 100 FS** | 100 | 1.00 | 1 | 19.400 | **7128819** |
| **DFB 45 150 FS** | 150 | 1.00 | 1 | 27.800 | **7128827** |
| **DFB 45 200 FS** | 200 | 1.00 | 1 | 36.900 | **7128835** |
| **DFB 45 300 FS** | 300 | 1.00 | 1 | 60.200 | **7128851** |
| **DFB 45 100 DD** | 100 | 1.00 | 1 | 19.400 | **7131828** |
| **DFB 45 150 DD** | 150 | 1.00 | 1 | 27.800 | **7131836** |
| **DFB 45 200 DD** | 200 | 1.00 | 1 | 36.900 | **7131844** |
| **DFB 45 300 DD** | 300 | 1.00 | 1 | 60.200 | **7131860** |



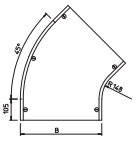



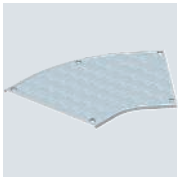
The cover can be used with fittings of all side heights.
Cover for 45° bend with pre-mounted turn buckle.

St FS DD

## Cover for 45° bend

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFB 45 400 FS** | 400 | 1.25 | 1 | 218.600 | **7128886** |
| **DFB 45 500 FS** | 500 | 1.25 | 1 | 252.800 | **7128908** |
| **DFB 45 550 FS** | 550 | 1.25 | 1 | 324.000 | **7128916** |
| **DFB 45 600 FS** | 600 | 1.25 | 1 | 362.800 | **7128924** |
| **DFB 45 400 DD** | 400 | 1.25 | 1 | 218.600 | **7131879** |
| **DFB 45 500 DD** | 500 | 1.25 | 1 | 252.800 | **7131887** |
| **DFB 45 550 DD** | 550 | 1.25 | 1 | 324.000 | **7131895** |
| **DFB 45 600 DD** | 600 | 1.25 | 1 | 362.800 | **7131909** |



The cover can be used with fittings of all side heights.
Cover for 45° bend with pre-mounted turn buckle.

Always indicate the item number when ordering.

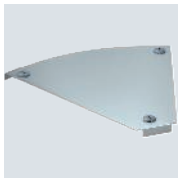


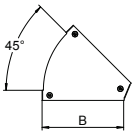


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## Cover for 45° Magic bend

St FS DD





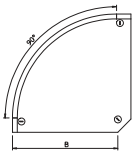

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFBM 45 100 FS** | 100 | 1.25 | 1 | 16.400 | **7138360** |
| **DFBM 45 150 FS** | 150 | 1.25 | 1 | 23.100 | **7138362** |
| **DFBM 45 200 FS** | 200 | 1.25 | 1 | 31.400 | **7138364** |
| **DFBM 45 300 FS** | 300 | 1.25 | 1 | 52.400 | **7138366** |
| **DFBM 45 400 FS** | 400 | 1.25 | 1 | 97.900 | **7138368** |
| **DFBM 45 500 FS** | 500 | 1.25 | 1 | 142.300 | **7138370** |
| **DFBM 45 600 FS** | 600 | 1.25 | 1 | 191.500 | **7138372** |
| **DFBM 45 100 DD** | 100 | 1.25 | 1 | 16.400 | **7138400** |
| **DFBM 45 150 DD** | 150 | 1.25 | 1 | 23.100 | **7138402** |
| **DFBM 45 200 DD** | 200 | 1.25 | 1 | 31.400 | **7138404** |
| **DFBM 45 300 DD** | 300 | 1.25 | 1 | 52.400 | **7138406** |
| **DFBM 45 400 DD** | 400 | 1.25 | 1 | 97.900 | **7138408** |
| **DFBM 45 500 DD** | 500 | 1.25 | 1 | 142.300 | **7138410** |
| **DFBM 45 600 DD** | 600 | 1.25 | 1 | 191.500 | **7138412** |

The cover can be used with fittings of all side heights.
Cover for 45° bend with pre-mounted turn buckles.

## Cover for 90° bend

St FS DD





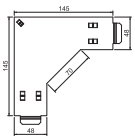

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFB 90 100 FS** | 100 | 1.00 | 1 | 27.000 | **7129610** |
| **DFB 90 150 FS** | 150 | 1.00 | 1 | 40.000 | **7129629** |
| **DFB 90 200 FS** | 200 | 1.00 | 1 | 56.000 | **7129637** |
| **DFB 90 300 FS** | 300 | 1.00 | 1 | 100.000 | **7129653** |
| **DFB 90 100 DD** | 100 | 1.00 | 1 | 27.000 | **7130511** |
| **DFB 90 150 DD** | 150 | 1.00 | 1 | 40.000 | **7130538** |
| **DFB 90 200 DD** | 200 | 1.00 | 1 | 56.000 | **7130546** |
| **DFB 90 300 DD** | 300 | 1.00 | 1 | 100.000 | **7130562** |

The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

## Cover for 90° bend

St FS FT





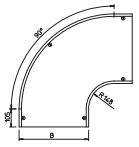
| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFB 90 050 FS** | 50 | 1.00 | 1 | 10.800 | **7131780** |
| **DFB 90 050 FT** | 50 | 1.00 | 1 | 12.000 | **7131785** |

Fixing under cable tray cover, no fastening material required.
Cover for for 90° cable tray bend fitting, type RB 90 305 and 605.

St FS DD

## Cover for 90° bend

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFB 90 400 FS** | 400 | 1.25 | 1 | 340.000 | **7129688** |
| **DFB 90 500 FS** | 500 | 1.25 | 1 | 455.000 | **7129718** |
| **DFB 90 550 FS** | 550 | 1.25 | 1 | 517.000 | **7129726** |
| **DFB 90 600 FS** | 600 | 1.25 | 1 | 640.000 | **7129734** |
| **DFB 90 400 DD** | 400 | 1.25 | 1 | 400.000 | **7130589** |
| **DFB 90 500 DD** | 500 | 1.25 | 1 | 535.000 | **7130600** |
| **DFB 90 550 DD** | 550 | 1.25 | 1 | 607.000 | **7130619** |
| **DFB 90 600 DD** | 600 | 1.25 | 1 | 750.000 | **7130627** |



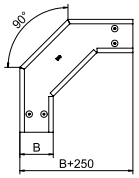



The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

A2 A4 2B

## Cover for 90° bend

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFB 90 100 A2** | 100 | 1.00 | 1 | 65.000 | **7134908** |
| **DFB 90 200 A2** | 200 | 1.00 | 1 | 60.000 | **7134916** |
| **DFB 90 300 A2** | 300 | 1.00 | 1 | 102.200 | **7134924** |
| **DFB 90 100 A4** | 100 | 1.00 | 1 | 65.000 | **7134982** |
| **DFB 90 200 A4** | 200 | 1.00 | 1 | 60.000 | **7134988** |
| **DFB 90 300 A4** | 300 | 1.00 | 1 | 102.200 | **7134990** |



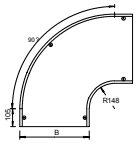



The cover can be used with fittings of all side heights.
The 100 mm width has a rectangular shape and does not correspond to the image.
Cover for 90° bend with pre-mounted turn buckles.

A2 A4 2B

## Cover for 90° bend

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFB 90 400 A2** | 400 | 1.25 | 1 | 340.000 | **7134932** |
| **DFB 90 500 A2** | 500 | 1.25 | 1 | 470.000 | **7134940** |
| **DFB 90 600 A2** | 600 | 1.25 | 1 | 589.700 | **7134967** |
| **DFB 90 400 A4** | 400 | 1.25 | 1 | 340.000 | **7134992** |
| **DFB 90 500 A4** | 500 | 1.25 | 1 | 470.000 | **7134994** |
| **DFB 90 600 A4** | 600 | 1.25 | 1 | 589.700 | **7134996** |





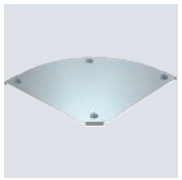

The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

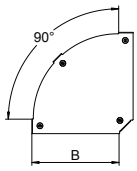


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## Cover for 90° Magic bend

St FS DD





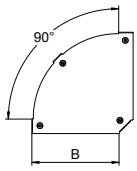

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFBM 90 100 FS** | 100 | 1.25 | 1 | 17.100 | **7138500** |
| **DFBM 90 150 FS** | 150 | 1.25 | 1 | 28.500 | **7138502** |
| **DFBM 90 200 FS** | 200 | 1.25 | 1 | 43.000 | **7138504** |
| **DFBM 90 300 FS** | 300 | 1.25 | 1 | 81.600 | **7138506** |
| **DFBM 90 400 FS** | 400 | 1.25 | 1 | 165.000 | **7138508** |
| **DFBM 90 500 FS** | 500 | 1.25 | 1 | 244.100 | **7138510** |
| **DFBM 90 600 FS** | 600 | 1.25 | 1 | 338.100 | **7138512** |
| **DFBM 90 100 DD** | 100 | 1.25 | 1 | 17.100 | **7138540** |
| **DFBM 90 150 DD** | 150 | 1.25 | 1 | 28.500 | **7138542** |
| **DFBM 90 200 DD** | 200 | 1.25 | 1 | 43.000 | **7138544** |
| **DFBM 90 300 DD** | 300 | 1.25 | 1 | 81.600 | **7138546** |
| **DFBM 90 400 DD** | 400 | 1.25 | 1 | 165.000 | **7138548** |
| **DFBM 90 500 DD** | 500 | 1.25 | 1 | 244.100 | **7138550** |
| **DFBM 90 600 DD** | 600 | 1.25 | 1 | 338.100 | **7138552** |

The cover can be used with fittings of all side heights.
Cover for 90° bend with premounted turn buckles.

## Cover for 90° Magic bend

A2 A4 2B



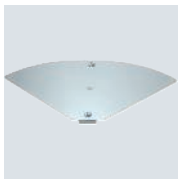


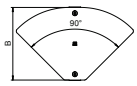

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFBM 90 100 A2** | 100 | 1.25 | 1 | 18.500 | **7138570** |
| **DFBM 90 200 A2** | 200 | 1.25 | 1 | 44.400 | **7138574** |
| **DFBM 90 300 A2** | 300 | 1.25 | 1 | 83.000 | **7138576** |
| **DFBM 90 400 A2** | 400 | 1.25 | 1 | 166.400 | **7138578** |
| **DFBM 90 500 A2** | 500 | 1.25 | 1 | 245.500 | **7138580** |
| **DFBM 90 600 A2** | 600 | 1.25 | 1 | 339.500 | **7138582** |
| **DFBM 90 100 A4** | 100 | 1.25 | 1 | 18.500 | **7138590** |
| **DFBM 90 200 A4** | 200 | 1.25 | 1 | 44.400 | **7138594** |
| **DFBM 90 300 A4** | 300 | 1.25 | 1 | 83.000 | **7138596** |
| **DFBM 90 400 A4** | 400 | 1.25 | 1 | 166.400 | **7138598** |
| **DFBM 90 500 A4** | 500 | 1.25 | 1 | 245.500 | **7138600** |

The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

## Cover for variable Magic bend

St FS DD





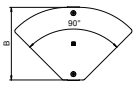

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFBMV 100 FS** | 100 | 1.00 | 1 | 17.300 | **6040760** |
| **DFBMV 150 FS** | 150 | 1.00 | 1 | 28.500 | **6040762** |
| **DFBMV 200 FS** | 200 | 1.00 | 1 | 42.800 | **6040764** |
| **DFBMV 300 FS** | 300 | 1.00 | 1 | 81.200 | **6040766** |
| **DFBMV 400 FS** | 400 | 1.25 | 1 | 164.400 | **6040768** |
| **DFBMV 500 FS** | 500 | 1.25 | 1 | 244.500 | **6040770** |
| **DFBMV 600 FS** | 600 | 1.25 | 1 | 340.600 | **6040772** |
| **DFBMV 100 DD** | 100 | 1.00 | 1 | 17.300 | **6040780** |
| **DFBMV 200 DD** | 200 | 1.00 | 1 | 42.800 | **6040784** |
| **DFBMV 300 DD** | 300 | 1.00 | 1 | 81.200 | **6040786** |
| **DFBMV 400 DD** | 400 | 1.25 | 1 | 164.400 | **6040788** |
| **DFBMV 500 DD** | 500 | 1.25 | 1 | 244.500 | **6040790** |
| **DFBMV 600 DD** | 600 | 1.25 | 1 | 340.600 | **6040792** |

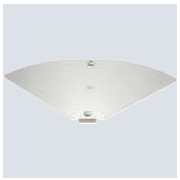
Cover for the variable bend, adjustable to an angle of 0 to 90°, locking through turn buckle and through overlapping with cable tray cover.

A2 A4 2B

## Cover for variable Magic bend

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFBMV 100 A2** | 100 | 1.00 | 1 | 16.800 | **6040800** |
| **DFBMV 200 A2** | 200 | 1.00 | 1 | 41.300 | **6040804** |
| **DFBMV 300 A2** | 300 | 1.00 | 1 | 78.100 | **6040806** |
| **DFBMV 400 A2** | 400 | 1.25 | 1 | 158.100 | **6040808** |
| **DFBMV 500 A2** | 500 | 1.25 | 1 | 234.900 | **6040810** |
| **DFBMV 600 A2** | 600 | 1.25 | 1 | 327.200 | **6040812** |
| **DFBMV 100 A4** | 100 | 1.00 | 1 | 16.800 | **6040820** |
| **DFBMV 200 A4** | 200 | 1.00 | 1 | 41.300 | **6040824** |
| **DFBMV 300 A4** | 300 | 1.00 | 1 | 78.100 | **6040826** |
| **DFBMV 400 A4** | 400 | 1.25 | 1 | 158.100 | **6040828** |
| **DFBMV 500 A4** | 500 | 1.25 | 1 | 234.900 | **6040830** |
| **DFBMV 600 A4** | 600 | 1.25 | 1 | 327.200 | **6040832** |



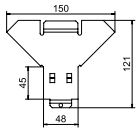



Cover for the variable bend, adjustable to an angle of 0 to 90°, locking through turn buckle and through overlapping with cable tray cover.

St FS FT

## Cover for add-on tee

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFAA 050 FS** | 50 | 1.00 | 1 | 8.450 | **7132110** |
| **DFAA 050 FT** | 50 | 1.00 | 1 | 9.380 | **7132115** |



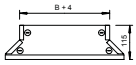



Cover for for add-on tee cable tray fitting, type RAA 305 and 605.
Fixing under cable tray cover, no fastening material required.

St FS DD

## Cover for add-on tee

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFAA 100 FS** | 100 | 1.00 | 1 | 25.000 | **7128428** |
| **DFAA 150 FS** | 150 | 1.00 | 1 | 30.000 | **7128436** |
| **DFAA 200 FS** | 200 | 1.00 | 1 | 34.000 | **7128444** |
| **DFAA 300 FS** | 300 | 1.00 | 1 | 43.000 | **7128460** |
| **DFAA 100 DD** | 100 | 1.00 | 1 | 25.000 | **7131305** |
| **DFAA 200 DD** | 200 | 1.00 | 1 | 34.000 | **7131321** |
| **DFAA 300 DD** | 300 | 1.00 | 1 | 43.000 | **7131348** |



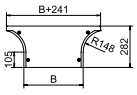



Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

St FS DD

## Cover for add-on tee

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFAA 400 FS** | 400 | 1.25 | 1 | 145.000 | **7128487** |
| **DFAA 500 FS** | 500 | 1.25 | 1 | 174.000 | **7128509** |
| **DFAA 550 FS** | 550 | 1.25 | 1 | 186.000 | **7128517** |
| **DFAA 600 FS** | 600 | 1.25 | 1 | 200.000 | **7128525** |
| **DFAA 400 DD** | 400 | 1.25 | 1 | 145.000 | **7131356** |
| **DFAA 500 DD** | 500 | 1.25 | 1 | 174.000 | **7131364** |
| **DFAA 550 DD** | 550 | 1.25 | 1 | 186.000 | **7131372** |
| **DFAA 600 DD** | 600 | 1.25 | 1 | 214.000 | **7131380** |






Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

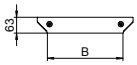


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## Cover for Magic add-on tee

St FS DD





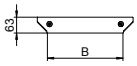

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFAAM 100 FS** | 100 | 1.25 | 1 | 12.400 | **7138640** |
| **DFAAM 150 FS** | 150 | 1.25 | 1 | 14.800 | **7138642** |
| **DFAAM 200 FS** | 200 | 1.25 | 1 | 17.300 | **7138644** |
| **DFAAM 300 FS** | 300 | 1.25 | 1 | 22.200 | **7138646** |
| **DFAAM 400 FS** | 400 | 1.25 | 1 | 32.800 | **7138648** |
| **DFAAM 500 FS** | 500 | 1.25 | 1 | 39.000 | **7138650** |
| **DFAAM 600 FS** | 600 | 1.25 | 1 | 45.100 | **7138652** |
| **DFAAM 100 DD** | 100 | 1.25 | 1 | 12.400 | **7138680** |
| **DFAAM 150 DD** | 150 | 1.25 | 1 | 14.800 | **7138682** |
| **DFAAM 200 DD** | 200 | 1.25 | 1 | 17.300 | **7138684** |
| **DFAAM 300 DD** | 300 | 1.25 | 1 | 22.200 | **7138686** |
| **DFAAM 400 DD** | 400 | 1.25 | 1 | 32.800 | **7138688** |
| **DFAAM 500 DD** | 500 | 1.25 | 1 | 39.000 | **7138690** |
| **DFAAM 600 DD** | 600 | 1.25 | 1 | 45.100 | **7138692** |

Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

## Cover for Magic add-on tee

A2 A4 2B





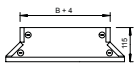

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFAAM 100 A2** | 100 | 1.25 | 1 | 11.100 | **7138720** |
| **DFAAM 200 A2** | 200 | 1.25 | 1 | 14.500 | **7138724** |
| **DFAAM 300 A2** | 300 | 1.25 | 1 | 20.900 | **7138726** |
| **DFAAM 400 A2** | 400 | 1.25 | 1 | 31.700 | **7138728** |
| **DFAAM 500 A2** | 500 | 1.25 | 1 | 37.900 | **7138730** |
| **DFAAM 600 A2** | 600 | 1.25 | 1 | 44.100 | **7138732** |
| **DFAAM 100 A4** | 100 | 1.25 | 1 | 11.100 | **7138740** |
| **DFAAM 200 A4** | 200 | 1.25 | 1 | 14.500 | **7138744** |
| **DFAAM 300 A4** | 300 | 1.25 | 1 | 20.900 | **7138746** |
| **DFAAM 400 A4** | 400 | 1.25 | 1 | 31.700 | **7138748** |
| **DFAAM 500 A4** | 500 | 1.25 | 1 | 37.900 | **7138750** |
| **DFAAM 600 A4** | 600 | 1.25 | 1 | 44.100 | **7138752** |

Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

## Cover for add-on tee

A2 A4 2B





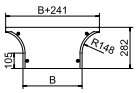

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFAA 100 A2** | 100 | 1.00 | 1 | 26.700 | **7136900** |
| **DFAA 200 A2** | 200 | 1.00 | 1 | 35.800 | **7136919** |
| **DFAA 300 A2** | 300 | 1.00 | 1 | 44.800 | **7136927** |
| **DFAA 100 A4** | 100 | 1.00 | 1 | 26.000 | **7136902** |
| **DFAA 200 A4** | 200 | 1.00 | 1 | 35.800 | **7136921** |
| **DFAA 300 A4** | 300 | 1.00 | 1 | 44.800 | **7136929** |

Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

A2 A4 2B

## Cover for add-on tee

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| DFAA 400 A2 | 400 | 1.25 | 1 | 176.800 | 7136935 |
| DFAA 500 A2 | 500 | 1.25 | 1 | 208.000 | 7136943 |
| DFAA 600 A2 | 600 | 1.25 | 1 | 240.000 | 7136978 |
| DFAA 400 A4 | 400 | 1.25 | 1 | 176.800 | 7136937 |
| DFAA 500 A4 | 500 | 1.25 | 1 | 210.000 | 7136944 |
| DFAA 600 A4 | 600 | 1.25 | 1 | 243.300 | 7136980 |



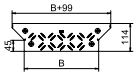



Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

St FS

## Cover for add-on tee BKRS

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| DFAA BKR 100 FS | 100 | 2.00 | 1 | 35.500 | 6049400 |
| DFAA BKR 200 FS | 200 | 2.00 | 1 | 51.900 | 6049402 |
| DFAA BKR 300 FS | 300 | 2.00 | 1 | 68.800 | 6049404 |
| DFAA BKR 400 FS | 400 | 2.00 | 1 | 202.900 | 6049406 |
| DFAA BKR 500 FS | 500 | 2.00 | 1 | 247.200 | 6049408 |
| DFAA BKR 600 FS | 600 | 2.00 | 1 | 290.800 | 6049410 |



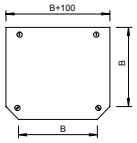


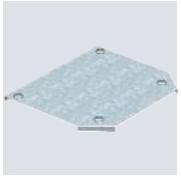

The cover can be used with fittings of all side heights.
Cover for add-on tee with pre-mounted turn buckles.

St FS DD

## Cover for tee

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| DFT 100 FS | 100 | 1.00 | 1 | 30.400 | 7128215 |
| DFT 150 FS | 150 | 1.00 | 1 | 40.000 | 7128223 |
| DFT 200 FS | 200 | 1.00 | 1 | 60.000 | 7128231 |
| DFT 300 FS | 300 | 1.00 | 1 | 115.000 | 7128266 |
| DFT 100 DD | 100 | 1.00 | 1 | 27.000 | 7129319 |
| DFT 150 DD | 150 | 1.00 | 1 | 45.000 | 7129327 |
| DFT 200 DD | 200 | 1.00 | 1 | 65.000 | 7129335 |
| DFT 300 DD | 300 | 1.00 | 1 | 125.000 | 7129351 |



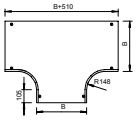



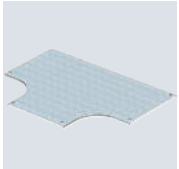
Cover for tee with pre-mounted turn buckle.
The cover can be used with fittings of all side heights.

St FS DD

## Cover for tee

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| DFT 400 FS | 400 | 1.25 | 1 | 505.000 | 7128282 |
| DFT 500 FS | 500 | 1.25 | 1 | 670.000 | 7128304 |
| DFT 600 FS | 600 | 1.25 | 1 | 854.000 | 7128320 |
| DFT 400 DD | 400 | 1.25 | 1 | 600.000 | 7129386 |
| DFT 500 DD | 500 | 1.25 | 1 | 798.000 | 7129408 |
| DFT 550 DD | 550 | 1.25 | 1 | 905.500 | 7129416 |
| DFT 600 DD | 600 | 1.25 | 1 | 1,019.000 | 7129424 |



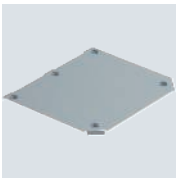
Cover for tee with pre-mounted turn buckle.
The cover can be used with fittings of all side heights.

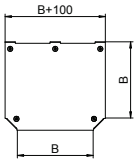


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## Cover for Magic tee

St FS DD



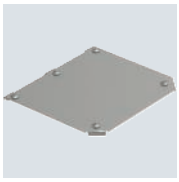


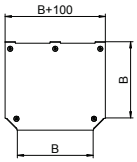

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFTM 100 FS** | 100 | 1.25 | 1 | 30.400 | **7138790** |
| **DFTM 150 FS** | 150 | 1.25 | 1 | 45.700 | **7138792** |
| **DFTM 200 FS** | 200 | 1.25 | 1 | 64.900 | **7138794** |
| **DFTM 300 FS** | 300 | 1.25 | 1 | 117.600 | **7138796** |
| **DFTM 400 FS** | 400 | 1.25 | 1 | 226.500 | **7138798** |
| **DFTM 500 FS** | 500 | 1.25 | 1 | 325.800 | **7138800** |
| **DFTM 600 FS** | 600 | 1.25 | 1 | 449.400 | **7138802** |
| **DFTM 100 DD** | 100 | 1.25 | 1 | 30.400 | **7138830** |
| **DFTM 150 DD** | 150 | 1.25 | 1 | 45.700 | **7138832** |
| **DFTM 200 DD** | 200 | 1.25 | 1 | 64.900 | **7138834** |
| **DFTM 300 DD** | 300 | 1.25 | 1 | 117.600 | **7138836** |
| **DFTM 400 DD** | 400 | 1.25 | 1 | 226.500 | **7138838** |
| **DFTM 500 DD** | 500 | 1.25 | 1 | 328.400 | **7138840** |
| **DFTM 600 DD** | 600 | 1.25 | 1 | 449.400 | **7138842** |

Cover for tee with pre-mounted turn buckle.
The cover can be used with fittings of all side heights.

## Cover for Magic tee

A4 2B



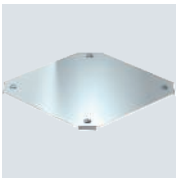


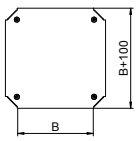

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFTM 600 A4** | 600 | 1.25 | 1 | 444.600 | **7138892** |

The cover can be used with fittings of all side heights.
Cover for tee with pre-mounted turn buckles.

## Cover for Magic cross-over

St FS DD



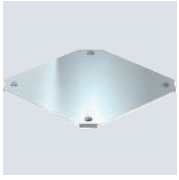


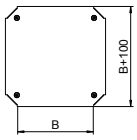

| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFKM 100 FS** | 100 | 1.25 | 1 | 36.300 | **7138930** |
| **DFKM 150 FS** | 150 | 1.25 | 1 | 53.700 | **7138932** |
| **DFKM 200 FS** | 200 | 1.25 | 1 | 75.000 | **7138934** |
| **DFKM 400 FS** | 400 | 1.25 | 1 | 246.900 | **7138938** |
| **DFKM 500 FS** | 500 | 1.25 | 1 | 353.700 | **7138940** |
| **DFKM 600 FS** | 600 | 1.25 | 1 | 480.100 | **7138942** |
| **DFKM 100 DD** | 100 | 1.25 | 1 | 36.300 | **7138970** |
| **DFKM 200 DD** | 200 | 1.25 | 1 | 75.000 | **7138974** |
| **DFKM 300 DD** | 300 | 1.25 | 1 | 123.100 | **7138976** |
| **DFKM 400 DD** | 400 | 1.25 | 1 | 246.900 | **7138978** |
| **DFKM 500 DD** | 500 | 1.25 | 1 | 353.700 | **7138980** |
| **DFKM 600 DD** | 600 | 1.25 | 1 | 480.100 | **7138982** |

Cover for cross-over with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

## Cover for Magic cross-over

St FS





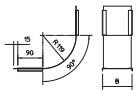

| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFKM 300 FS** | 300 | 1.25 | 1 | 129.300 | **7138936** |

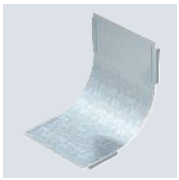
The cover can be used with fittings of all side heights.
Cover for cross-over with pre-mounted turn buckles.

St FS DD

## Cover for 90° vertical bend, rising

| Type | Side height mm | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **DBV 100 S FS** | 60 | 100 | 0.75 | 1 | 21.000 | **7130805** |
| **DBV 150 S FS** | 60 | 150 | 0.75 | 1 | 30.000 | **7130809** |
| **DBV 200 S FS** | 60 | 200 | 0.75 | 1 | 39.000 | **7130813** |
| **DBV 300 S FS** | 60 | 300 | 0.75 | 1 | 49.000 | **7130817** |
| **DBV 400 S FS** | 60 | 400 | 0.75 | 1 | 68.000 | **7130821** |
| **DBV 500 S FS** | 60 | 500 | 0.75 | 1 | 86.000 | **7130825** |
| **DBV 600 S FS** | 60 | 600 | 0.75 | 1 | 105.000 | **7130829** |
| **DBV 100 S DD** | 60 | 100 | 0.75 | 1 | 34.000 | **7131508** |
| **DBV 150 S DD** | 60 | 150 | 0.75 | 1 | 50.000 | **7131509** |
| **DBV 200 S DD** | 60 | 200 | 0.75 | 1 | 66.000 | **7131510** |
| **DBV 300 S DD** | 60 | 300 | 0.75 | 1 | 81.000 | **7131514** |
| **DBV 400 S DD** | 60 | 400 | 0.75 | 1 | 113.000 | **7131518** |
| **DBV 500 S DD** | 60 | 500 | 0.75 | 1 | 144.000 | **7131524** |
| **DBV 600 S DD** | 60 | 600 | 0.75 | 1 | 176.000 | **7131527** |





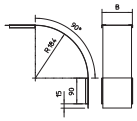
Cover for all rising vertical bends.

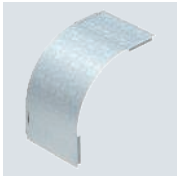
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

St FS DD

## Cover for 90° vertical bend, falling

| Type | Side height mm | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **DBV 60 100 F FS** | 60 | 100 | 0.75 | 1 | 25.200 | **7130852** |
| **DBV 60 150 F FS** | 60 | 150 | 0.75 | 1 | 36.900 | **7130856** |
| **DBV 60 200 F FS** | 60 | 200 | 0.75 | 1 | 48.700 | **7130860** |
| **DBV 60 300 F FS** | 60 | 300 | 0.75 | 1 | 72.300 | **7130864** |
| **DBV 60 400 F FS** | 60 | 400 | 0.75 | 1 | 95.800 | **7130868** |
| **DBV 60 500 F FS** | 60 | 500 | 0.75 | 1 | 119.300 | **7130872** |
| **DBV 60 600 F FS** | 60 | 600 | 0.75 | 1 | 142.800 | **7130876** |
| **DBV 60 100 F DD** | 60 | 100 | 0.75 | 1 | 42.100 | **7131632** |
| **DBV 60 150 F DD** | 60 | 150 | 0.75 | 1 | 61.700 | **7131634** |
| **DBV 60 200 F DD** | 60 | 200 | 0.75 | 1 | 81.300 | **7131636** |
| **DBV 60 300 F DD** | 60 | 300 | 0.75 | 1 | 120.400 | **7131640** |
| **DBV 60 400 F DD** | 60 | 400 | 0.75 | 1 | 159.600 | **7131644** |
| **DBV 60 500 F DD** | 60 | 500 | 0.75 | 1 | 198.800 | **7131648** |
| **DBV 60 600 F DD** | 60 | 600 | 0.75 | 1 | 238.000 | **7131652** |





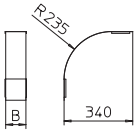
Cover for falling vertical bends of side height 60 mm.

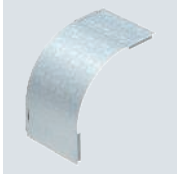
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

St FS

## Cover for 90° vertical bend 85, falling

| Type | Side height mm | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **DBV 85 100 F FS** | 85 | 100 | 0.75 | 1 | 27.100 | **7130990** |
| **DBV 85 200 F FS** | 85 | 200 | 0.75 | 1 | 52.500 | **7130994** |
| **DBV 85 300 F FS** | 85 | 300 | 0.75 | 1 | 77.800 | **7130998** |
| **DBV 85 400 F FS** | 85 | 400 | 0.75 | 1 | 103.200 | **7131002** |
| **DBV 85 500 F FS** | 85 | 500 | 0.75 | 1 | 128.500 | **7131006** |
| **DBV 85 600 F FS** | 85 | 600 | 0.75 | 1 | 153.900 | **7131010** |



Cover for falling vertical bends of side height 85 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

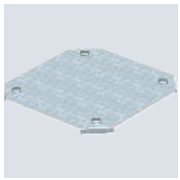


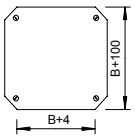
Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# System accessories

## Cover for cross-over

St FS DD



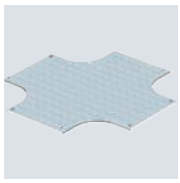


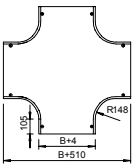

| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFK 100 FS** | 100 | 1.25 | 1 | 44.500 | **7128614** |
| **DFK 150 FS** | 150 | 1.25 | 1 | 62.500 | **7128622** |
| **DFK 200 FS** | 200 | 1.25 | 1 | 83.500 | **7128630** |
| **DFK 300 FS** | 300 | 1.25 | 1 | 138.500 | **7128657** |
| **DFK 100 DD** | 100 | 1.25 | 1 | 44.500 | **7131089** |
| **DFK 200 DD** | 200 | 1.25 | 1 | 83.500 | **7131100** |
| **DFK 300 DD** | 300 | 1.25 | 1 | 138.500 | **7131127** |

The cover can be used with fittings of all side heights.
Cover for cross-over with pre-mounted turn buckles.

## Cover for cross-over

St FS DD





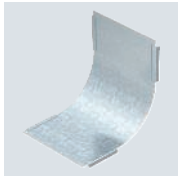

| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFK 400 FS** | 400 | 1.25 | 1 | 624.000 | **7128673** |
| **DFK 500 FS** | 500 | 1.25 | 1 | 810.000 | **7128703** |
| **DFK 600 FS** | 600 | 1.25 | 1 | 1,020.000 | **7128738** |
| **DFK 400 DD** | 400 | 1.25 | 1 | 739.000 | **7131143** |
| **DFK 500 DD** | 500 | 1.25 | 1 | 965.000 | **7131178** |
| **DFK 600 DD** | 600 | 1.25 | 1 | 1,215.000 | **7131194** |

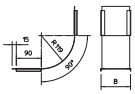
The cover can be used with fittings of all side heights.
Cover for cross-over with pre-mounted turn buckles.

# Cover, vertical bend, rising

## Cover for 90° vertical bend, rising

St FS DD





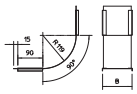

| Type | Side height mm | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **DBV 100 S FS** | 60 | 100 | 0.75 | 1 | 21.000 | **7130805** |
| **DBV 150 S FS** | 60 | 150 | 0.75 | 1 | 30.000 | **7130809** |
| **DBV 200 S FS** | 60 | 200 | 0.75 | 1 | 39.000 | **7130813** |
| **DBV 300 S FS** | 60 | 300 | 0.75 | 1 | 49.000 | **7130817** |
| **DBV 400 S FS** | 60 | 400 | 0.75 | 1 | 68.000 | **7130821** |
| **DBV 500 S FS** | 60 | 500 | 0.75 | 1 | 86.000 | **7130825** |
| **DBV 600 S FS** | 60 | 600 | 0.75 | 1 | 105.000 | **7130829** |
| **DBV 100 S DD** | 60 | 100 | 0.75 | 1 | 34.000 | **7131508** |
| **DBV 150 S DD** | 60 | 150 | 0.75 | 1 | 50.000 | **7131509** |
| **DBV 200 S DD** | 60 | 200 | 0.75 | 1 | 66.000 | **7131510** |
| **DBV 300 S DD** | 60 | 300 | 0.75 | 1 | 81.000 | **7131514** |
| **DBV 400 S DD** | 60 | 400 | 0.75 | 1 | 113.000 | **7131518** |
| **DBV 500 S DD** | 60 | 500 | 0.75 | 1 | 144.000 | **7131524** |
| **DBV 600 S DD** | 60 | 600 | 0.75 | 1 | 176.000 | **7131527** |

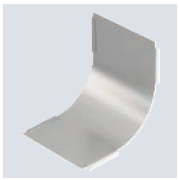
Cover for all rising vertical bends.
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

A2 A4 2B

## Cover for 90° vertical bend, rising

| Type | Side height mm | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **DBV 100 S A2** | 60 | 100 | 0.75 | 1 | 34.000 | **7130905** |
| **DBV 200 S A2** | 60 | 200 | 0.75 | 1 | 39.000 | **7130907** |
| **DBV 300 S A2** | 60 | 300 | 0.75 | 1 | 49.000 | **7130909** |
| **DBV 400 S A2** | 60 | 400 | 0.75 | 1 | 68.000 | **7130911** |
| **DBV 500 S A2** | 60 | 500 | 0.75 | 1 | 86.000 | **7130913** |
| **DBV 600 S A2** | 60 | 600 | 0.75 | 1 | 105.000 | **7130915** |
| **DBV 100 S A4** | 60 | 100 | 0.75 | 1 | 21.000 | **7130920** |
| **DBV 200 S A4** | 60 | 200 | 0.75 | 1 | 39.000 | **7130922** |
| **DBV 300 S A4** | 60 | 300 | 0.75 | 1 | 49.000 | **7130924** |
| **DBV 400 S A4** | 60 | 400 | 0.75 | 1 | 68.000 | **7130926** |
| **DBV 500 S A4** | 60 | 500 | 0.75 | 1 | 86.000 | **7130928** |
| **DBV 600 S A4** | 60 | 600 | 0.75 | 1 | 105.000 | **7130930** |



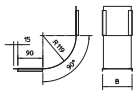
Cover for all rising vertical bends.

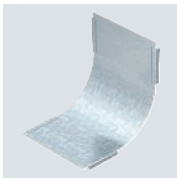
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

St FT

## Cover for 90° vertical bend, rising

| Type | Side height mm | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **DBV 100 S FT** | 60 | 100 | 0.75 | 1 | 37.200 | **7131710** |
| **DBV 200 S FT** | 60 | 200 | 0.75 | 1 | 65.200 | **7131712** |
| **DBV 300 S FT** | 60 | 300 | 0.75 | 1 | 105.100 | **7131714** |
| **DBV 400 S FT** | 60 | 400 | 0.75 | 1 | 136.000 | **7131716** |



Cover for all rising vertical bends.

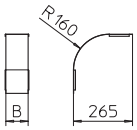
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

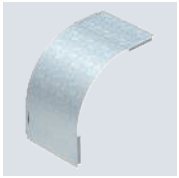


St FS DD

## Cover for 90° vertical bend, falling

| Type | Side height mm | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **DBV 35 100 F FS** | 35 | 100 | 0.75 | 1 | 23.000 | **7130764** |
| **DBV 35 150 F FS** | 35 | 150 | 0.75 | 1 | 37.000 | **7130768** |
| **DBV 35 200 F FS** | 35 | 200 | 0.75 | 1 | 45.000 | **7130772** |
| **DBV 35 300 F FS** | 35 | 300 | 0.75 | 1 | 67.000 | **7130776** |
| **DBV 35 100 F DD** | 35 | 100 | 0.75 | 1 | 23.000 | **7131592** |
| **DBV 35 150 F DD** | 35 | 150 | 0.75 | 1 | 37.000 | **7131594** |
| **DBV 35 200 F DD** | 35 | 200 | 0.75 | 1 | 45.000 | **7131596** |
| **DBV 35 300 F DD** | 35 | 300 | 0.75 | 1 | 67.000 | **7131600** |



Cover for falling vertical bends of side height 35 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

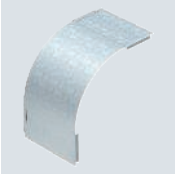


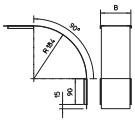
Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Cover, vertical bend, falling

## Cover for 90° vertical bend, falling

St FS DD





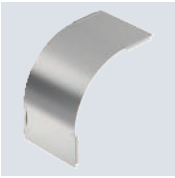
| Type | Side height mm | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **DBV 60 100 F FS** | 60 | 100 | 0.75 | 1 | 25.200 | **7130852** |
| **DBV 60 150 F FS** | 60 | 150 | 0.75 | 1 | 36.900 | **7130856** |
| **DBV 60 200 F FS** | 60 | 200 | 0.75 | 1 | 48.700 | **7130860** |
| **DBV 60 300 F FS** | 60 | 300 | 0.75 | 1 | 72.300 | **7130864** |
| **DBV 60 400 F FS** | 60 | 400 | 0.75 | 1 | 95.800 | **7130868** |
| **DBV 60 500 F FS** | 60 | 500 | 0.75 | 1 | 119.300 | **7130872** |
| **DBV 60 600 F FS** | 60 | 600 | 0.75 | 1 | 142.800 | **7130876** |
| **DBV 60 100 F DD** | 60 | 100 | 0.75 | 1 | 42.100 | **7131632** |
| **DBV 60 150 F DD** | 60 | 150 | 0.75 | 1 | 61.700 | **7131634** |
| **DBV 60 200 F DD** | 60 | 200 | 0.75 | 1 | 81.300 | **7131636** |
| **DBV 60 300 F DD** | 60 | 300 | 0.75 | 1 | 120.400 | **7131640** |
| **DBV 60 400 F DD** | 60 | 400 | 0.75 | 1 | 159.600 | **7131644** |
| **DBV 60 500 F DD** | 60 | 500 | 0.75 | 1 | 198.800 | **7131648** |
| **DBV 60 600 F DD** | 60 | 600 | 0.75 | 1 | 238.000 | **7131652** |

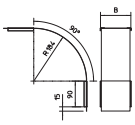
Cover for falling vertical bends of side height 60 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

## Cover for 90° vertical bend 60, falling

A2 A4 2B





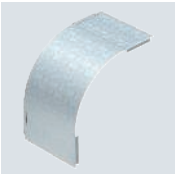
| Type | Side height mm | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **DBV 60 100 F A2** | 60 | 100 | 0.75 | 1 | 42.100 | **7130952** |
| **DBV 60 200 F A2** | 60 | 200 | 0.75 | 1 | 81.300 | **7130954** |
| **DBV 60 300 F A2** | 60 | 300 | 0.75 | 1 | 120.400 | **7130956** |
| **DBV 60 400 F A2** | 60 | 400 | 0.75 | 1 | 159.600 | **7130958** |
| **DBV 60 500 F A2** | 60 | 500 | 0.75 | 1 | 198.800 | **7130960** |
| **DBV 60 600 F A2** | 60 | 600 | 0.75 | 1 | 238.000 | **7130962** |
| **DBV 60 100 F A4** | 60 | 100 | 0.75 | 1 | 42.100 | **7130972** |
| **DBV 60 200 F A4** | 60 | 200 | 0.75 | 1 | 81.300 | **7130974** |
| **DBV 60 300 F A4** | 60 | 300 | 0.75 | 1 | 120.400 | **7130976** |
| **DBV 60 400 F A4** | 60 | 400 | 0.75 | 1 | 159.600 | **7130978** |
| **DBV 60 500 F A4** | 60 | 500 | 0.75 | 1 | 198.800 | **7130980** |
| **DBV 60 600 F A4** | 60 | 600 | 0.75 | 1 | 238.000 | **7130982** |

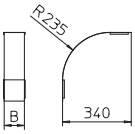
Cover for falling vertical bends of side height 60 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

## Cover for 90° vertical bend 85, falling

St FS DD






| Type | Side height mm | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **DBV 85 100 F FS** | 85 | 100 | 0.75 | 1 | 27.100 | **7130990** |
| **DBV 85 200 F FS** | 85 | 200 | 0.75 | 1 | 52.500 | **7130994** |
| **DBV 85 300 F FS** | 85 | 300 | 0.75 | 1 | 77.800 | **7130998** |
| **DBV 85 400 F FS** | 85 | 400 | 0.75 | 1 | 103.200 | **7131002** |
| **DBV 85 500 F FS** | 85 | 500 | 0.75 | 1 | 128.500 | **7131006** |
| **DBV 85 600 F FS** | 85 | 600 | 0.75 | 1 | 153.900 | **7131010** |
| **DBV 85 100 F DD** | 85 | 100 | 0.75 | 1 | 45.200 | **7131672** |
| **DBV 85 200 F DD** | 85 | 200 | 0.75 | 1 | 87.500 | **7131676** |
| **DBV 85 300 F DD** | 85 | 300 | 0.75 | 1 | 129.700 | **7131680** |
| **DBV 85 400 F DD** | 85 | 400 | 0.75 | 1 | 172.000 | **7131684** |
| **DBV 85 500 F DD** | 85 | 500 | 0.75 | 1 | 214.200 | **7131688** |
| **DBV 85 600 F DD** | 85 | 600 | 0.75 | 1 | 256.000 | **7131692** |

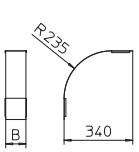
Cover for falling vertical bends of side height 85 mm.

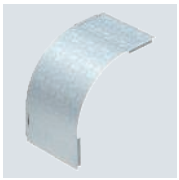
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

St FS DD

## Cover for 90° vertical bend 110, falling

| Type | Side height mm | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **DBV 110 100 F FS** | 110 | 100 | 0.75 | 1 | 29.000 | **7131030** |
| **DBV 110 150 F FS** | 110 | 150 | 0.75 | 1 | 42.600 | **7131032** |
| **DBV 110 200 F FS** | 110 | 200 | 0.75 | 1 | 56.200 | **7131034** |
| **DBV 110 300 F FS** | 110 | 300 | 0.75 | 1 | 83.400 | **7131038** |
| **DBV 110 400 F FS** | 110 | 400 | 0.75 | 1 | 110.600 | **7131042** |
| **DBV 110 500 F FS** | 110 | 500 | 0.75 | 1 | 137.800 | **7131046** |
| **DBV 110 600 F FS** | 110 | 600 | 0.75 | 1 | 165.000 | **7131052** |
| **DBV 110 550 F FS** | 110 | 550 | 0.75 | 1 | 151.400 | **7131050** |
| **DBV 110 100 F DD** | 110 | 100 | 0.75 | 1 | 48.300 | **7131556** |
| **DBV 110 150 F DD** | 110 | 150 | 0.75 | 1 | 71.000 | **7131554** |
| **DBV 110 200 F DD** | 110 | 200 | 0.75 | 1 | 93.700 | **7131560** |
| **DBV 110 300 F DD** | 110 | 300 | 0.75 | 1 | 139.000 | **7131564** |
| **DBV 110 400 F DD** | 110 | 400 | 0.75 | 1 | 184.300 | **7131568** |
| **DBV 110 500 F DD** | 110 | 500 | 0.75 | 1 | 229.700 | **7131572** |
| **DBV 110 600 F DD** | 110 | 600 | 0.75 | 1 | 275.000 | **7131576** |



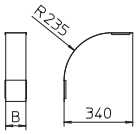
Cover for falling vertical bends of side height 110 mm.

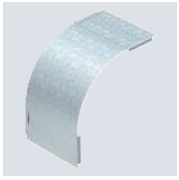
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

St DD

## Cover for 90° vertical bend 110, falling

| Type | Side height mm | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **DBV 110 550 F DD** | 110 | 550 | 0.75 | 1 | 252.300 | **7131574** |



Cover for falling vertical bends of side height 110 mm.

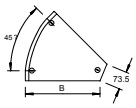
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

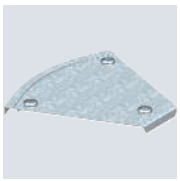


St FT

## Cover for 45° bend

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFB 45 100 FT** | 100 | 1.00 | 1 | 19.400 | **7132002** |
| **DFB 45 200 FT** | 200 | 1.00 | 1 | 36.900 | **7132004** |
| **DFB 45 300 FT** | 300 | 1.00 | 1 | 60.200 | **7132006** |



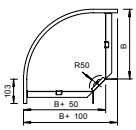
The cover can be used with fittings of all side heights.

Cover for 45° bend with pre-mounted turn buckles.

St FT

## Cover for 90° bend

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFB 90 100 FT** | 100 | 1.00 | 1 | 29.000 | **7132022** |
| **DFB 90 200 FT** | 200 | 1.00 | 1 | 61.000 | **7132024** |
| **DFB 90 300 FT** | 300 | 1.00 | 1 | 106.900 | **7132026** |






The cover can be used with fittings of all side heights.

Cover for 90° bend with premounted turn buckles.



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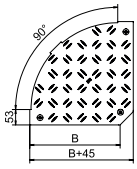
Always indicate the item number when ordering.

# Lid, horizontal bend

## Cover for 90° bend BKRS

St FS





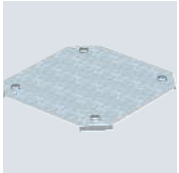

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFB90 BKR 100 FS** | 100 | 2.00 | 1 | 34.000 | **6049372** |
| **DFB90 BKR 200 FS** | 200 | 2.00 | 1 | 88.700 | **6049374** |
| **DFB90 BKR 300 FS** | 300 | 2.00 | 1 | 159.600 | **6049376** |
| **DFB90 BKR 400 FS** | 400 | 2.00 | 1 | 458.800 | **6049378** |
| **DFB90 BKR 500 FS** | 500 | 2.00 | 1 | 626.900 | **6049380** |
| **DFB90 BKR 600 FS** | 600 | 2.00 | 1 | 816.400 | **6049382** |

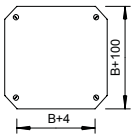
The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

# Lid for intersection

## Cover for cross-over

St FS DD



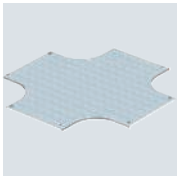


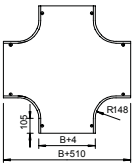

| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFK 100 FS** | 100 | 1.25 | 1 | 44.500 | **7128614** |
| **DFK 150 FS** | 150 | 1.25 | 1 | 62.500 | **7128622** |
| **DFK 200 FS** | 200 | 1.25 | 1 | 83.500 | **7128630** |
| **DFK 300 FS** | 300 | 1.25 | 1 | 138.500 | **7128657** |
| **DFK 100 DD** | 100 | 1.25 | 1 | 44.500 | **7131089** |
| **DFK 200 DD** | 200 | 1.25 | 1 | 83.500 | **7131100** |
| **DFK 300 DD** | 300 | 1.25 | 1 | 138.500 | **7131127** |

The cover can be used with fittings of all side heights.
Cover for cross-over with pre-mounted turn buckles.

## Cover for cross-over

St FS DD






| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **DFK 400 FS** | 400 | 1.25 | 1 | 624.000 | **7128673** |
| **DFK 500 FS** | 500 | 1.25 | 1 | 810.000 | **7128703** |
| **DFK 600 FS** | 600 | 1.25 | 1 | 1,020.000 | **7128738** |
| **DFK 400 DD** | 400 | 1.25 | 1 | 739.000 | **7131143** |
| **DFK 500 DD** | 500 | 1.25 | 1 | 965.000 | **7131178** |
| **DFK 600 DD** | 600 | 1.25 | 1 | 1,215.000 | **7131194** |

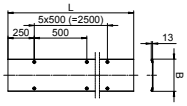
The cover can be used with fittings of all side heights.
Cover for cross-over with pre-mounted turn buckles.

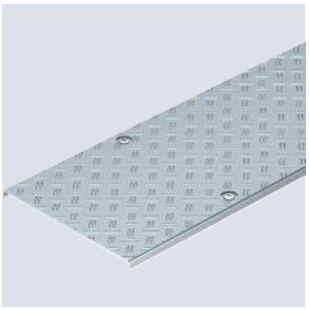
# Deckel Kabelkanal begehbar BKRS

St Alu/St DD

## Cover with chequer plate and turn buckle

| Type | Dim. B mm | Dim. L mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DF BKR10 FS AL** | 100 | 3000 | 6.00 | 3 | 272.330 | **6049181** |
| **DF BKR20 FS AL** | 200 | 3000 | 6.00 | 3 | 503.670 | **6049183** |
| **DF BKR30 FS AL** | 300 | 3000 | 6.00 | 3 | 735.000 | **6049185** |
| **DF BKR40 FS AL** | 400 | 3000 | 6.00 | 3 | 966.670 | **6049187** |
| **DF BKR50 FS AL** | 500 | 3000 | 6.00 | 3 | 1,197.670 | **6049189** |
| **DF BKR60 FS AL** | 600 | 3000 | 6.00 | 3 | 1,429.000 | **6049191** |
| **DBKR 100 DD** | 100 | 3000 | 3.30 | 3 | 195.066 | **6049140** |
| **DBKR 200 DD** | 200 | 3000 | 3.30 | 3 | 352.066 | **6049141** |
| **DBKR 300 DD** | 300 | 3000 | 3.30 | 3 | 509.066 | **6049142** |
| **DBKR 400 DD** | 400 | 3000 | 3.30 | 3 | 666.066 | **6049143** |
| **DBKR 500 DD** | 500 | 3000 | 3.30 | 3 | 823.066 | **6049144** |
| **DBKR 600 DD** | 600 | 3000 | 3.30 | 3 | 980.066 | **6049145** |



Cable tray cover for the walkable BKRS cable tray system. The basic cover is strip galvanised in a material thickness of 2 mm with additional aluminium chequer riveted on in a thickness of 4 mm, sturdy and non-slip. Turn buckle fastening with a turn buckle distance of 500 mm.

The covers are tested according to DIN 51130 and possess anti-slip class R10 and displacement space class V8.

The turn buckles for cover mounting are pre-installed.

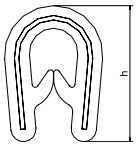
When the cover is used under wind, draught or pressure impacts, additional security measures are required.

# Edge protection strips

PVC

## Edge protection strip, black

| Type | For metal thickness mm | Dim. h mm | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **KSB 2 PVC** | 0.75-2 | 10 | Black | 10000 | 10 | 8.000 | **6072909** |
| **KSB 4 PVC** | 1.5-4 | 15 | Black | 10000 | 10 | 15.000 | **6072895** |





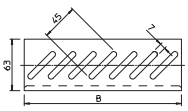

Edge protection strip with steel inlay to cover cut plate ends. Black, UV-resistant version.

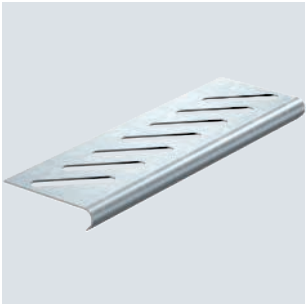
# Bottom end plates

St FS DD

## Bottom end plate

| Type | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **BEB 050 FS** | 50 | 1 | 2.215 | **7083041** |
| **BEB 100 FS** | 100 | 1 | 4.599 | **7083106** |
| **BEB 150 FS** | 150 | 1 | 6.983 | **7083157** |
| **BEB 200 FS** | 200 | 1 | 9.367 | **7083203** |
| **BEB 300 FS** | 300 | 1 | 14.100 | **7083300** |
| **BEB 400 FS** | 400 | 1 | 18.900 | **7083408** |
| **BEB 500 FS** | 500 | 1 | 23.700 | **7083505** |
| **BEB 550 FS** | 550 | 1 | 26.100 | **7083556** |
| **BEB 600 FS** | 600 | 1 | 28.400 | **7083602** |
| **BEB 050 DD** | 50 | 1 | 2.215 | **7083616** |
| **BEB 100 DD** | 100 | 1 | 4.599 | **7083618** |
| **BEB 150 DD** | 150 | 1 | 6.983 | **7083622** |
| **BEB 200 DD** | 200 | 1 | 9.367 | **7083626** |
| **BEB 300 DD** | 300 | 1 | 14.100 | **7083630** |
| **BEB 400 DD** | 400 | 1 | 18.900 | **7083634** |
| **BEB 500 DD** | 500 | 1 | 23.700 | **7083638** |
| **BEB 550 DD** | 550 | 1 | 26.100 | **7083640** |
| **BEB 600 DD** | 600 | 1 | 28.400 | **7083642** |



For fastening, please order screws, type FRSB M6x12, separately.

Bottom end plate for floor reinforcement at the ends of the cable tray and as cable protection.

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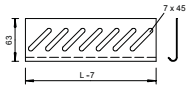
Always indicate the item number when ordering.

# Bottom end plates

## Bottom end plate

A2 A4 2B






| Type | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **BEB 100 A2** | 100 | 1 | 4.599 | **7084013** |
| **BEB 200 A2** | 200 | 1 | 9.367 | **7084048** |
| **BEB 300 A2** | 300 | 1 | 14.100 | **7084064** |
| **BEB 400 A2** | 400 | 1 | 18.900 | **7084080** |
| **BEB 500 A2** | 500 | 1 | 23.700 | **7084102** |
| **BEB 600 A2** | 600 | 1 | 28.400 | **7084129** |
| **BEB 100 A4** | 100 | 1 | 4.599 | **7084141** |
| **BEB 200 A4** | 200 | 1 | 9.367 | **7084143** |
| **BEB 300 A4** | 300 | 1 | 14.100 | **7084145** |
| **BEB 400 A4** | 400 | 1 | 18.900 | **7084147** |
| **BEB 500 A4** | 500 | 1 | 23.700 | **7084149** |
| **BEB 600 A4** | 600 | 1 | 28.400 | **7084151** |

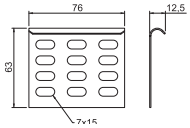
For fastening, please order screws, type FRSB M6x12, separately.
For base reinforcement at the ends of the tray and as cable protection.

# Side end panel - SEB 85 FS

## Side end panel 85

St FS





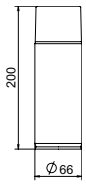

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **SEB 85 FS** | 85 | 20 | 5.240 | **7083008** |

Including appropriate fastening material.
Side end plate for side reinforcement at the ends of the cable tray and as cable protection.

# Zinc touch-ups

## Zinc repairs



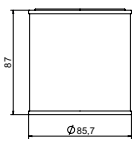



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **ZSF** | 1 | 45.000 | **2362970** |

The zinc spray can be used in the temperature range - 20 °C to 150 °C.
Zinc spray for treatment of unprotected surfaces and cutting edges. Can contents: 400 ml.

## Zinc repair paint






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **ZABF** | 1 | 86.000 | **2362979** |

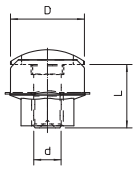
Zinc repair paint for blank areas on the hot galvanised steel parts, to eliminate grinding and welding damage on the galvanisation and to adapt ungalvanised small parts on galvanised structures.
Resistant to normal weathering influences. Light shade, similar to zinc. Before paint application, the substrate must be carefully cleaned and roughened. Paint application with a brush.

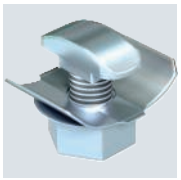
St F

## Quick connector

| Type | Dimension mm | Dim. L mm | Dim. d mm | Dim. D mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **FCM F** | M6 x 12 | 12 | 6 | 13.5 | 50 | 0.720 | **6424548** |

The quick fastening can then be mounted in all brackets with 7 x ... perforation at a later date.
Quick connector for efficient fastening of cable tray on brackets.



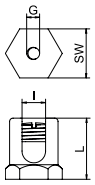
# Earthing terminal

CuZn 37

## Earthing terminal with fastening thread

| Type | Dim. L mm | Dim. l mm | Cross-section mm² | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **EKL 25 M8** | 26 | 10 | 50 | M8 | 50 | 3.970 | **6404001** |

Earthing terminal for fastening the equipotential bonding wire to the cable support system.
Suitable for conductor cross sections of 4–50 mm².



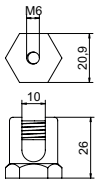



CuZn 37

## Earthing terminal with fastening thread

| Type | Cross-section mm² | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **EKL 35 M6 ISK** | 70 | M6 | 50 | 4.800 | **6404016** |

Earthing terminal for fastening the equipotential bonding conductor to the cable support system.
M14 threaded pin, Allen drive with 6 mm across flats.
Suitable for conductor cross sections of 25–70 mm².






# Anti-slip strip

GUM

## Anti-slip strip

| Type | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|
| **ARS BKR** | 11 | 10.070 | **6049259** |

Self-adhesive, anti-slip strip to stick onto the Z-shaped barrier in walkable cable trays, for securing laid-on but not yet attached covers.





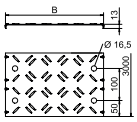
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# Chequer plate lid DBKR

## Chequer plate cover DBKR

St FS






| Type | Dim. B mm | Dim. b mm | Dim. L mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **DBKR 100 FS** | 100 | 50 | 3000 | 3.30 | 3 | 195.070 | **6049119** |
| **DBKR 200 FS** | 200 | 50 | 3000 | 3.30 | 3 | 352.067 | **6049121** |
| **DBKR 300 FS** | 300 | 50 | 3000 | 3.30 | 3 | 509.070 | **6049123** |
| **DBKR 400 FS** | 400 | 50 | 3000 | 3.30 | 3 | 666.070 | **6049125** |
| **DBKR 500 FS** | 500 | 50 | 3000 | 3.30 | 3 | 823.070 | **6049127** |
| **DBKR 600 FS** | 600 | 50 | 3000 | 3.30 | 3 | 980.070 | **6049129** |

Chequer plate cover for the walkable cable tray system, type BKR.
The cover thickness is comprised of 2.0 mm of strip-galvanised sheet steel and a 1.3 mm chequer height.
Pre-marked break-out openings at a spacing of 100 mm allow retroinstallation of a turn buckle.

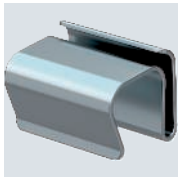
The covers are tested according to DIN51130 and possess anti-slip class R11 and displacement space class V10.

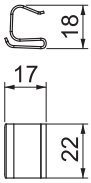
Cover fastenings are not part of the scope of delivery and can be ordered separately.

# Lid clamp

## Cover clamp

St G






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **DK DBKR G** | 30 | 0.794 | **6049280** |

Cover clamp for rapid fastening of the chequer plate cover, type DBKR, on cable trays.

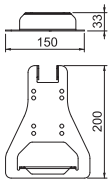
We recommend using at least 6 cover clamps for 3 metres of chequer plate cover.

# Lid lifter

## Cover lifter for chequer plate cover

St FS






| Type | Length mm | Width mm | Height mm | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|---|---|---|
| **DH DBKR FS** | 200 | 150 | 33 | 1 | 22.100 | **6049285** |

Using the cover lifter, chequer plate covers installed with cover clamps can be dismantled quickly and simply.

Position the cover lifter at pairs of the cover clamps and remove the chequer plate cover evenly. Repeat the operation in the lengthwise direction until the whole cover has been removed.

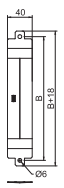
Alternatively, the cover lifter can be used as a template for the connector perforation with cable trays cut during construction. For this, turn the cover lifter through 180° and position on the cable tray. Then use the perforation template appropriate to the side height.

# Dust protection element

## Dust protection element and joint plate

St FS






| Type | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **SSE SSLB 100 FS** | 100 | 1 | 1.574 | **6049290** |
| **SSE SSLB 200 FS** | 200 | 1 | 3.145 | **6049292** |
| **SSE SSLB 300 FS** | 300 | 1 | 4.716 | **6049294** |
| **SSE SSLB 400 FS** | 400 | 1 | 6.287 | **6049296** |
| **SSE SSLB 500 FS** | 500 | 1 | 7.858 | **6049298** |
| **SSE SSLB 600 FS** | 600 | 1 | 9.429 | **6049300** |

Dust protection element for use between chequer plate covers and aluminium chequer plates for walkable BKRS cable tray systems, as protection against dust and chips, etc.
The component can alternatively be used as a joint plate in the walkable cable tray, to bridge construction interfaces.

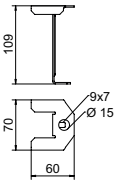
# Cover support

St FS

## Cover support 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| DST110 BKRS FS | 110 | 10 | 11.200 | 6049256 |

Cover support for the walkable BKRS cable tray system, for additional support of covers at a side height of 110 mm.





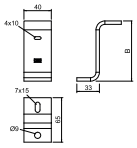

# Z support for BKRS

St FT

## BKRS Z support

| Type | Length mm | Width mm | Height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| ZST 100 BKRS FT | 65 | 40 | 88 | 25 | 21.700 | 6044601 |
| ZST 110 BKRS FT | 65 | 40 | 75 | 25 | 18.433 | 6044603 |

The Z support is used as a stand-off of the walkable cable tray system. Protective plates can be attached to it using lens metal screws.





# Clamping spring

St G

## Clamp spring for stranded cables

| Type | Cross-section mm² | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| KFL G | 35 | 50 | 1.731 | 6049273 |

Functional equipotential bonding of the cable support system can be created with the clamp spring.
The clamp spring is clamped onto the edge of the cable tray and then the conductor cable is clamped into the intended support of the clamp spring.
The clamp spring can accept conductor cables of between 10 and 35 mm² and should be mounted every 1,500 mm.





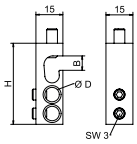
# Connection terminal

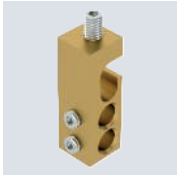
CuZn 37

## Connection terminal, single

| Type | Dim. H mm | Dim. B mm | Dim. D mm | Cross-section mm² | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| AKL 25 E | 40 | 7 | 6.5 | 25 | 10 | 5.808 | 6049276 |

Simple connection terminal to accept 1 conductor cable, to create the protective equipotential bonding for cable support systems. Mounting on conductor cable, central in clamp spring.



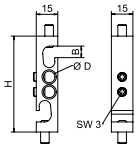



CuZn 37

## Connection terminal, double

| Type | Dim. H mm | Dim. B mm | Dim. D mm | Cross-section mm² | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| AKL 25 Z | 60 | 7 | 6.5 | 25 | 10 | 8.612 | 6049277 |

Double connection terminal to accept 2 conductor cables, to create the protective equipotential bonding for cable support systems. Can be used as a junction for branches and intersections. Mounting on conductor cable, central in clamp spring.





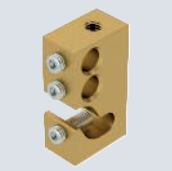

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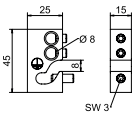
Always indicate the item number when ordering.

# Connection terminal

## Connection terminal, double

CuZn 37






| Type | Cross-section mm² | | | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **AKL 25 E DM** | 25 | – | | 10.491 | **6049275** |

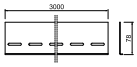
Simple connection terminal to accept 1 conductor cable, to create the protective equipotential bonding for cable support systems. Mounting on conductor cable, central in clamp spring.

# Protective panel

## Protective panel

St FS





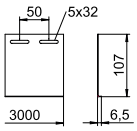

| Type | Length mm | Height mm | Thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **SB 100 BKS FS** | 3000 | 78 | 1.5 | | 3 | 93.534 | **6049241** |
| **SB 110 BKS FS** | 3000 | 65 | 1.5 | | 3 | 78.200 | **6049243** |

Protective panel, to be attached at the side as a collision guard for the walkable cable tray system. The protective panel can be installed on the Z supports using lens metal screws, type SPHS.

## Protective panel 108

St FS






| Type | Length mm | Height mm | Thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **SB BKS FS** | 3000 | 108 | 1 | | 3 | 91.670 | **6049252** |

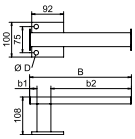
Protective panel, to be attached at the side as a collision guard for the walkable BKRS cable tray system. The side height is 108 mm.

# Support bracket

## BKRS support bracket

St FT





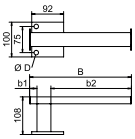

| Type | Dim. B mm | Dim. b1 mm | Dim. b2 mm | for width mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **STA BKRS 300 FT** | 292 | 23 | 229 | 300 | | 1 | 122.700 | **6044545** |
| **STA BKRS 400 FT** | 392 | 23 | 329 | 400 | | 1 | 138.700 | **6044547** |
| **STA BKRS 500 FT** | 492 | 123 | 329 | 500 | | 1 | 155.700 | **6044551** |
| **STA BKRS 600 FT** | 592 | 223 | 329 | 600 | | 1 | 172.700 | **6044553** |

Support bracket, made of closed rectangular steel pipe, as a stand-off of the walkable cable tray system.

## BKRS support bracket

St FT





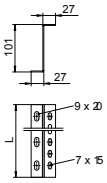

| Type | Dim. B mm | Dim. b1 mm | Dim. b2 mm | for width mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **STA BKRS 100 FT** | 92 | 11 | 61 | 100 | | 1 | 83.700 | **6044541** |
| **STA BKRS 200 FT** | 192 | 11 | 161 | 200 | | 1 | 100.700 | **6044543** |

Support bracket, made of closed rectangular steel pipe, as a stand-off of the walkable cable tray system.

St FS

## Support profile 100

| Type | Dim. L mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **STP Z 1010 FS** | 100 | 2.00 | 1 | 22.500 | **6044581** |
| **STP Z 1020 FS** | 200 | 2.00 | 1 | 44.800 | **6044583** |
| **STP Z 1030 FS** | 300 | 2.00 | 1 | 67.200 | **6044585** |
| **STP Z 1040 FS** | 400 | 2.00 | 1 | 89.500 | **6044587** |
| **STP Z 1050 FS** | 500 | 2.00 | 1 | 111.800 | **6044589** |
| **STP Z 1060 FS** | 600 | 2.00 | 1 | 127.340 | **6044591** |
| **STP Z 10300 FS** | 3000 | 2.00 | 3 | 223.400 | **6044596** |





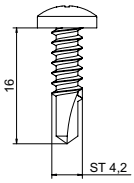

Support profile for holding up the walkable cable tray system BKRS from the floor. Installation must be performed on both sides of the Z profile during the process of securing the system so that it is held up.



St G

## Drilling screw

| Type | Dimen-sion mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **BS BKS KP** | 4,2x16 | 100 | 0.180 | **6049250** |



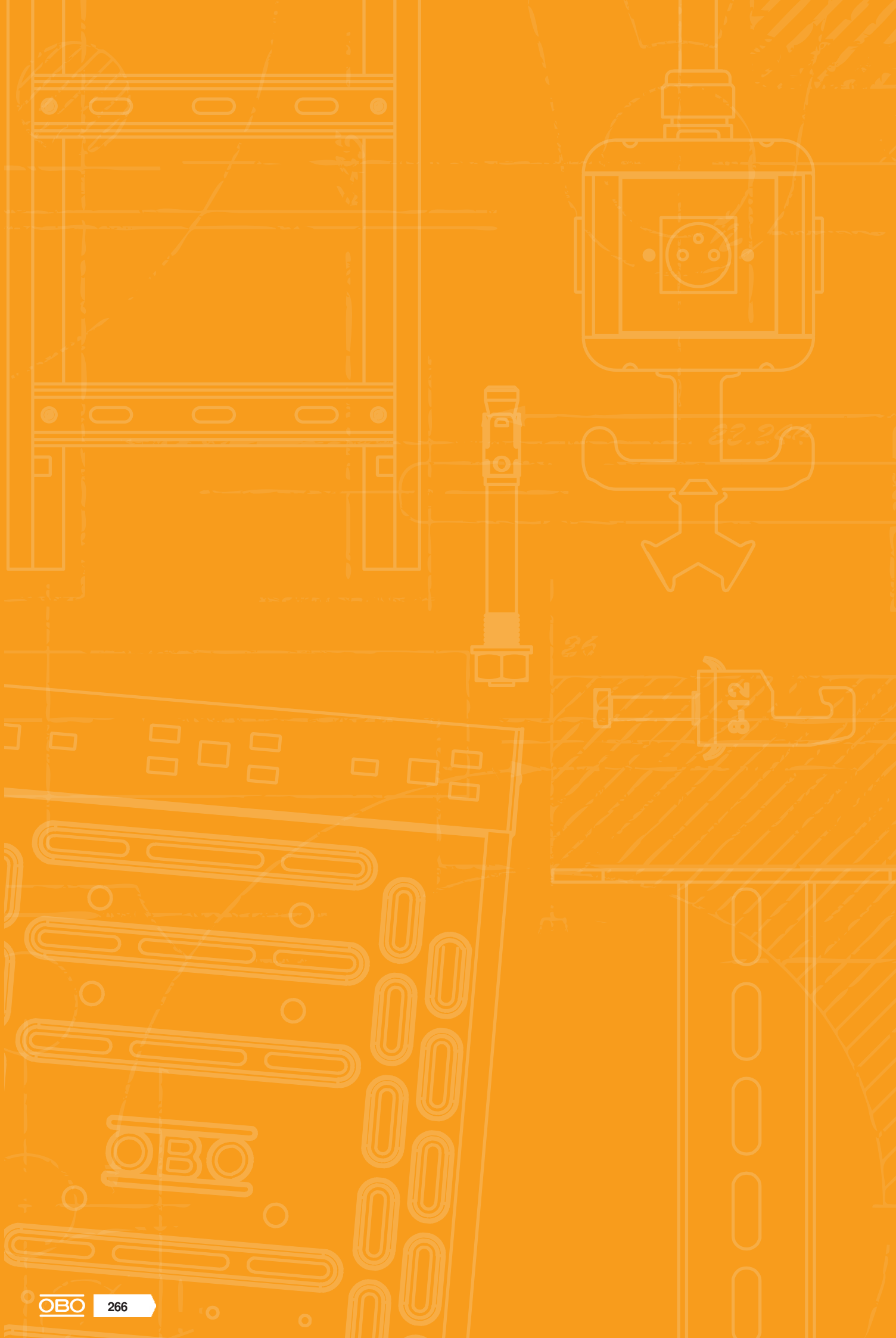



Drilling screw to fasten components to the stand-offs of the walkable cable tray system. Corresponds to DIN 7504.



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Always indicate the item number when ordering.



# Wide span systems




Wide span trays 268



Wide span ladders 286



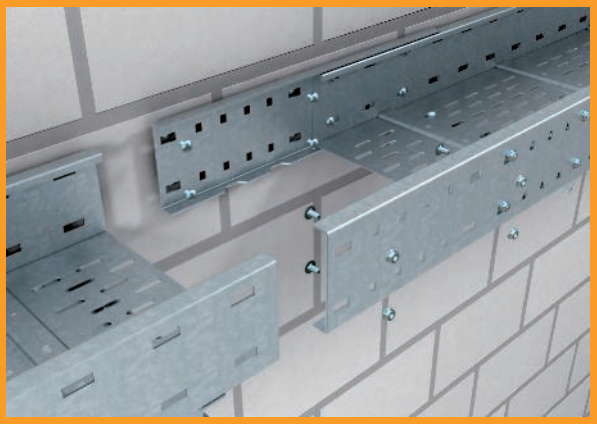

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# Wide span cable tray systems

When you need to bridge wide spans and support high cable loads, the OBO wide span systems are the perfect solution. The product range comprises cable trays and cable ladders with widths of between 200 and 600 mm and side heights of 110 to 200 mm. Comprehensive system accessories, such as fittings and all the fastening materials for concrete and steel mounting, round off this product range perfectly.

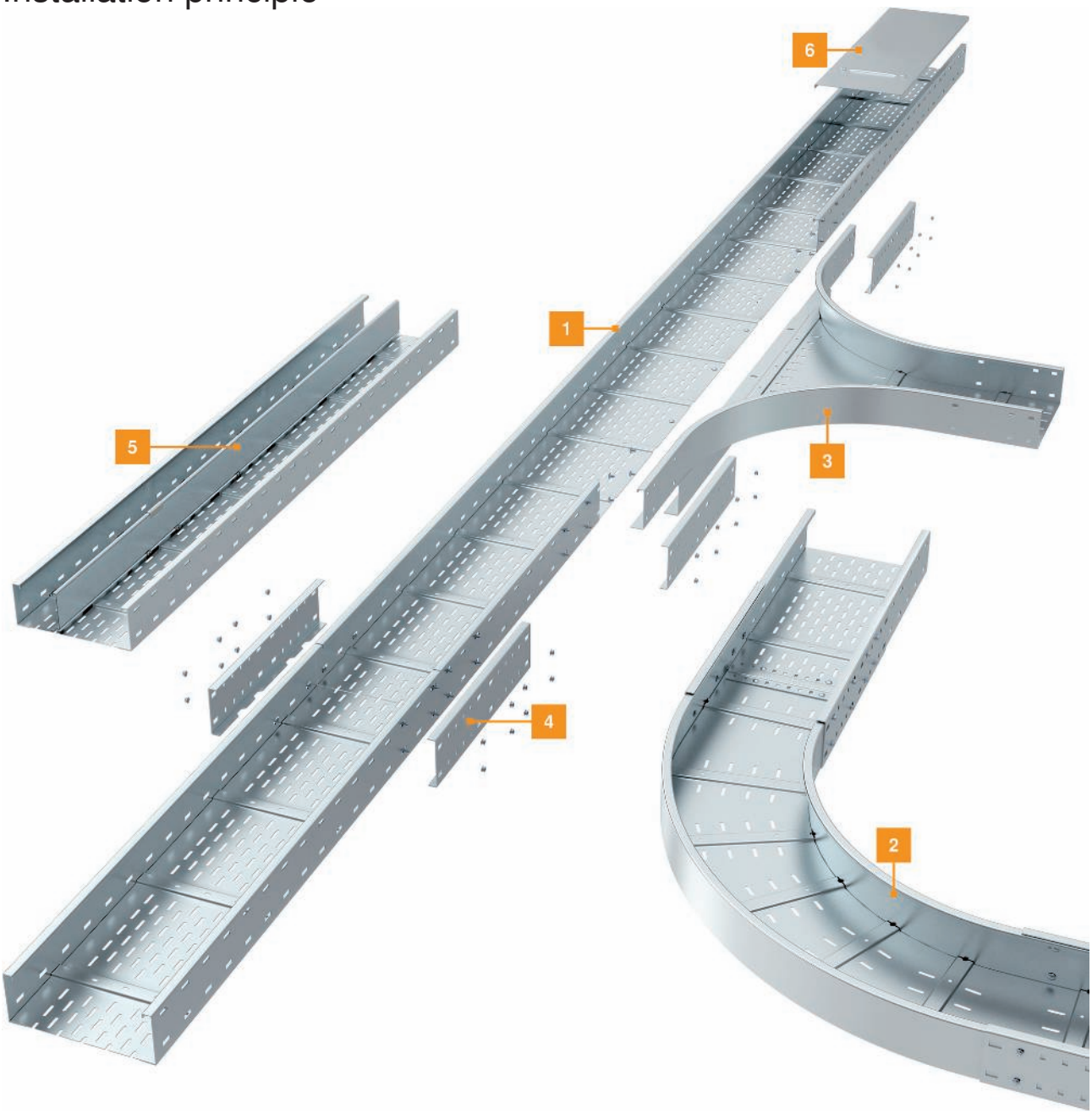






# Wide span cable tray systems

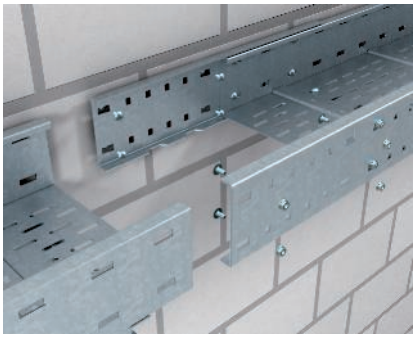
## Installation principle



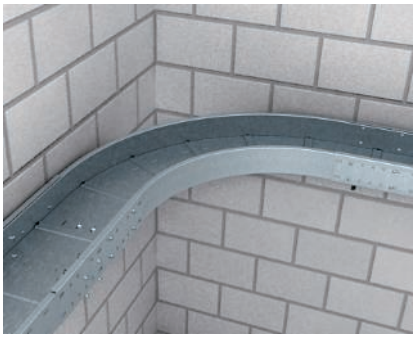

| | |
|---|---|
| 1 | Wide span cable tray |
| 2 | 90° bend |
| 3 | Add-on tee |
| 4 | Straight connector |
| 5 | Barrier strip |
| 6 | Cover with turn buckle |

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

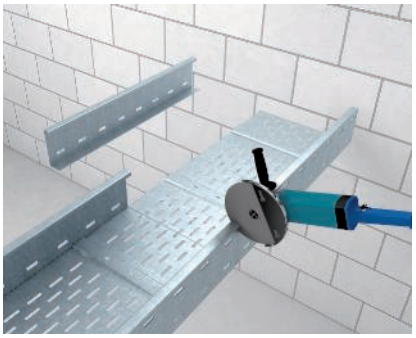
# Mounting aid



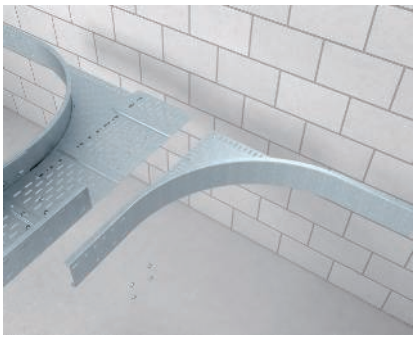
**Wide span straight connection**
Horizontal straight connection of wide span cable trays with straight connector set, type WRVL.



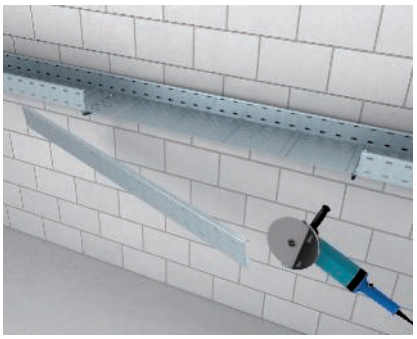
**Installation of 90° bend**
Bend in combination with wide span cable trays. The bend is connected to the wide span cable tray using external connectors and a joint plate.



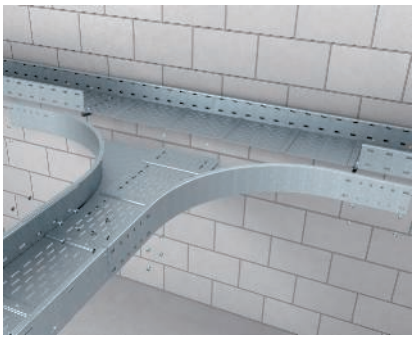
**Creation of a tee with add-on corner**
Removal of the side rails from the wide span tray.



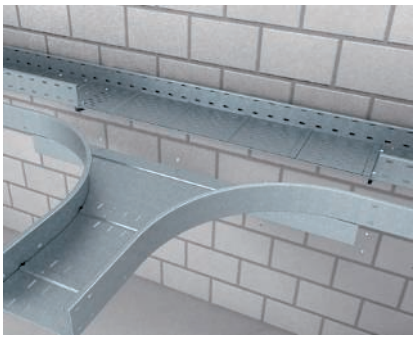
**Creation of a tee with add-on corner**
Installation of the second add-on corner, type WEAS 110.



**Creation of a tee with add-on corner**
Removal of the side rail from the ongoing wide span tray.



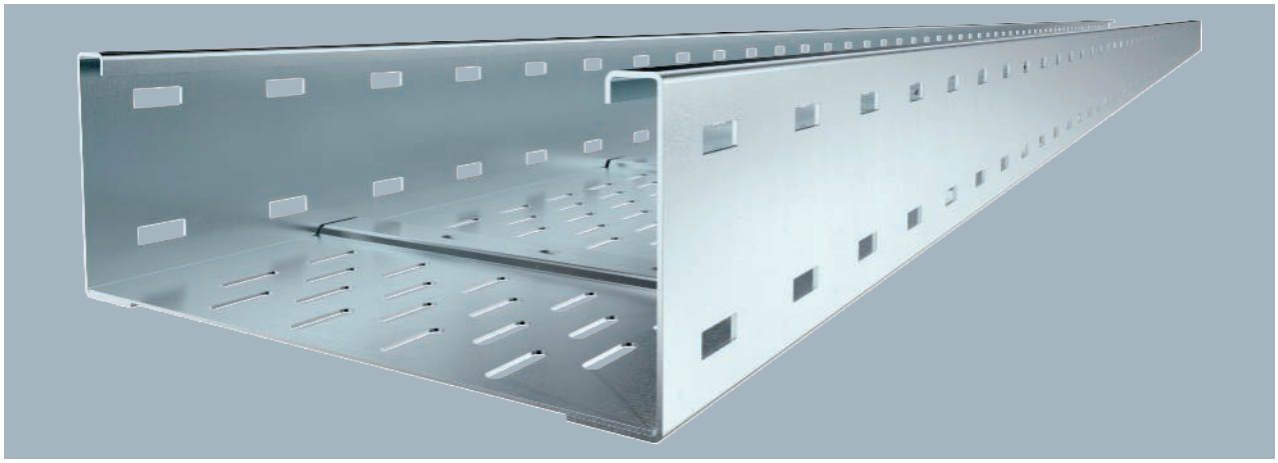
**Creation of a tee with add-on corner**
Installation of the finished branch to the ongoing wide span tray.



**Mounting of mounting/branch piece**
Add-on tee in combination with wide span cable tray. The side rail is removed for installation.

St FS

## Wide span cable tray WKSG 110

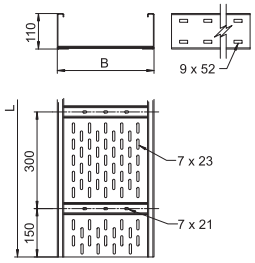


Wide span cable tray system, perforated, with a side height of 110 mm.

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

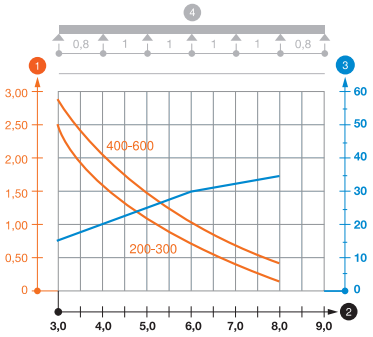
| Type | Width mm | Metal thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **WKSG 120 FS** | 200 | 2.00 | | 6 | 712.610 | **6098111** |
| **WKSG 130 FS** | 300 | 2.00 | | 6 | 817.250 | **6098115** |
| **WKSG 140 FS** | 400 | 2.00 | | 6 | 921.900 | **6098119** |
| **WKSG 150 FS** | 500 | 2.00 | | 6 | 1,023.340 | **6098123** |
| **WKSG 160 FS** | 600 | 2.00 | | 6 | 1,131.170 | **6098127** |

### Dimensions




| Type | Dim. L mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| WKSG 120 FS | 6000 | 200 | 202 |
| WKSG 130 FS | 6000 | 300 | 305 |
| WKSG 140 FS | 6000 | 400 | 408 |
| WKSG 150 FS | 6000 | 500 | 511 |
| WKSG 160 FS | 6000 | 600 | 614 |

### Load




| | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m | 8.0 m kN/m |
|---|---|---|---|---|---|---|
| **WKSG 120 FS** | 2.5 | 1.6 | 1.1 | 0.75 | 0.45 | 0.2 |
| **WKSG 130 FS** | 2.5 | 1.6 | 1.1 | 0.75 | 0.45 | 0.2 |
| **WKSG 140 FS** | 2.9 | 2 | 1.5 | 1 | 0.7 | 0.4 |
| **WKSG 150 FS** | 2.9 | 2 | 1.5 | 1 | 0.7 | 0.4 |
| **WKSG 160 FS** | 2.9 | 2 | 1.5 | 1 | 0.7 | 0.4 |

**Load diagram, wide span cable tray, type WKSG 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

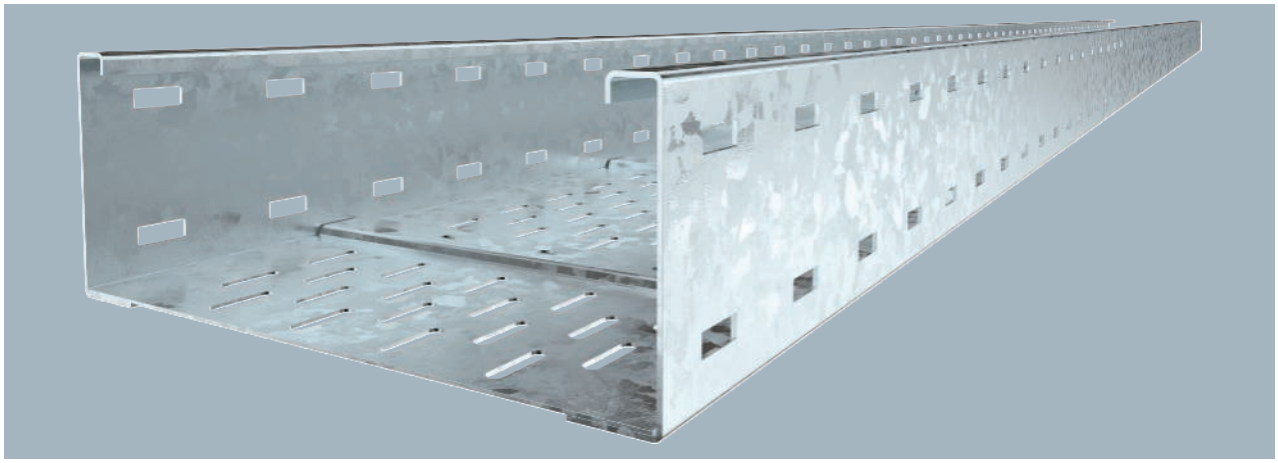


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# Wide span cable tray, side height 110

## Wide span cable tray WKSG 110

St FT



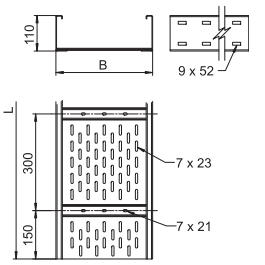
| Type | Width mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **WKSG 120 FT** | 200 | 2.00 | 6 | 751.570 | **6098141** |
| **WKSG 130 FT** | 300 | 2.00 | 6 | 863.150 | **6098145** |
| **WKSG 140 FT** | 400 | 2.00 | 6 | 974.740 | **6098149** |
| **WKSG 150 FT** | 500 | 2.00 | 6 | 1,086.320 | **6098153** |
| **WKSG 160 FT** | 600 | 2.00 | 6 | 1,197.890 | **6098157** |

Wide span cable tray system, perforated, with a side height of 110 mm.

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

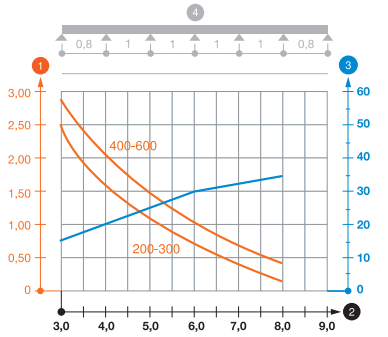
| Type | Dim. L mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| WKSG 120 FT | 6000 | 200 | 202 |
| WKSG 130 FT | 6000 | 300 | 305 |
| WKSG 140 FT | 6000 | 400 | 408 |
| WKSG 150 FT | 6000 | 500 | 511 |
| WKSG 160 FT | 6000 | 600 | 614 |

**Dimensions**




| | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m | 8.0 m kN/m |
|---|---|---|---|---|---|---|
| **WKSG 120 FT** | 2.5 | 1.6 | 1.1 | 0.75 | 0.45 | 0.2 |
| **WKSG 130 FT** | 2.5 | 1.6 | 1.1 | 0.75 | 0.45 | 0.2 |
| **WKSG 140 FT** | 2.9 | 2 | 1.5 | 1 | 0.7 | 0.4 |
| **WKSG 150 FT** | 2.9 | 2 | 1.5 | 1 | 0.7 | 0.4 |
| **WKSG 160 FT** | 2.9 | 2 | 1.5 | 1 | 0.7 | 0.4 |

**Load**




**Load diagram, wide span cable tray, type WKSG 110**

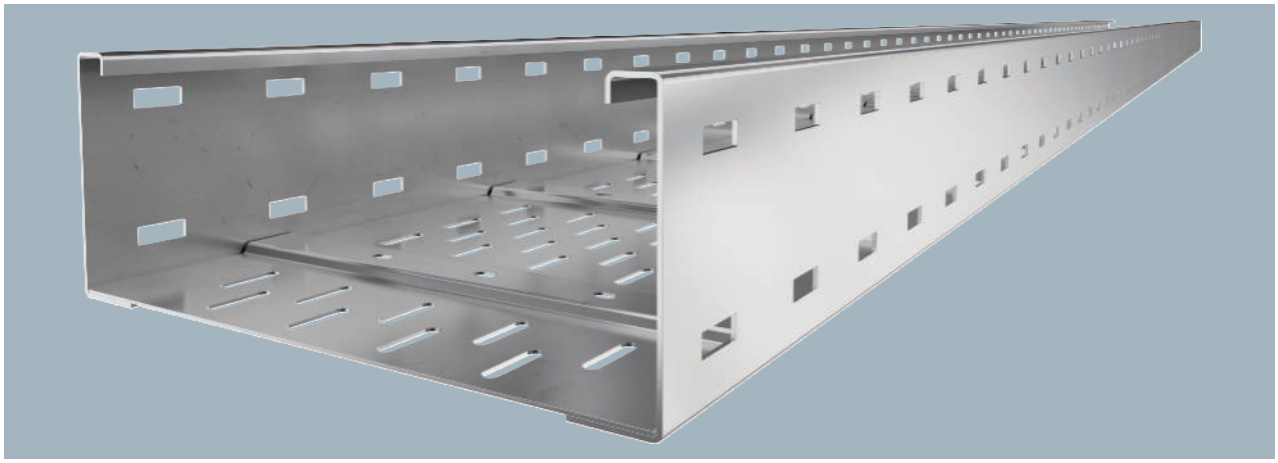
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

## Wide span cable tray WKSG 110

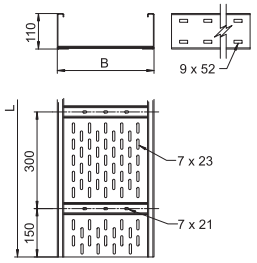


Wide span cable tray system, perforated, with a side height of 110 mm.

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

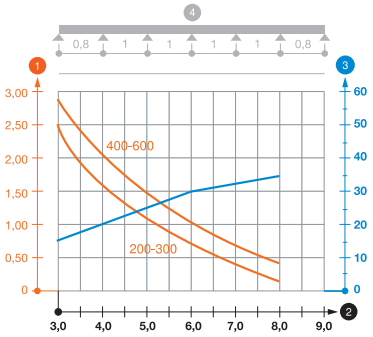
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **WKSG 120 A2** | 200 | 2.00 | 6 | 713.833 | **6098161** |
| **WKSG 130 A2** | 300 | 2.00 | 6 | 821.933 | **6098165** |
| **WKSG 140 A2** | 400 | 2.00 | 6 | 927.100 | **6098169** |
| **WKSG 150 A2** | 500 | 2.00 | 6 | 1,041.600 | **6098173** |
| **WKSG 160 A2** | 600 | 2.00 | 6 | 1,143.283 | **6098177** |

### Dimensions




| Type | Dim. L mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| WKSG 120 A2 | 6000 | 200 | 202 |
| WKSG 130 A2 | 6000 | 300 | 305 |
| WKSG 140 A2 | 6000 | 400 | 408 |
| WKSG 150 A2 | 6000 | 500 | 511 |
| WKSG 160 A2 | 6000 | 600 | 614 |

### Load




| | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m | 8.0 m kN/m |
|---|---|---|---|---|---|---|
| **WKSG 120 A2** | 2.5 | 1.6 | 1.1 | 0.75 | 0.45 | 0.2 |
| **WKSG 130 A2** | 2.5 | 1.6 | 1.1 | 0.75 | 0.45 | 0.2 |
| **WKSG 140 A2** | 2.9 | 2 | 1.5 | 1 | 0.7 | 0.4 |
| **WKSG 150 A2** | 2.9 | 2 | 1.5 | 1 | 0.7 | 0.4 |
| **WKSG 160 A2** | 2.9 | 2 | 1.5 | 1 | 0.7 | 0.4 |

**Load diagram, wide span cable tray, type WKSG 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

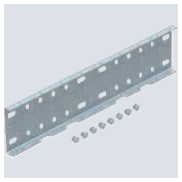


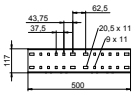
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# Wide span cable tray, side height 110

## Straight connector 110

St FS FT





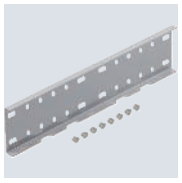

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRVL 110 FS** | 110 | 2 | 152.400 | **6091164** |
| **WRVL 110 FT** | 110 | 2 | 157.800 | **6091180** |

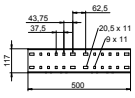
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.

## Straight connector 110

A2 A4 2B





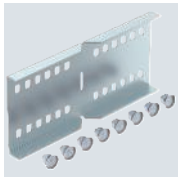

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRVL 110 A2** | 110 | 2 | 154.200 | **6091229** |
| **WRVL 110 A4** | 110 | 2 | 154.400 | **6091234** |

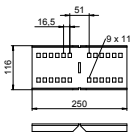
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.

## Angle connector 110

St FS





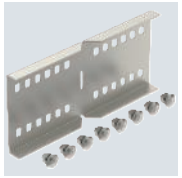

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWVK 110 FS** | 110 | 2 | 83.800 | **6091377** |

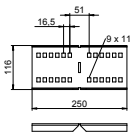
Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.

## Angle connector 110

A2 A4 2B






| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWVK 110 A2** | 110 | 2 | 82.000 | **6091393** |
| **WRWVK 110 A4** | 110 | 2 | 82.000 | **6091397** |

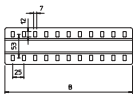
Including appropriate bolts, washers and nuts.

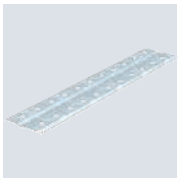
Angle connector for wide span cable trays and ladders with a side height of 110 mm.

St FS DD

## Joint plate

| Type | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| SSLB 100 FS | 100 | 20 | 7.700 | 7070205 |
| SSLB 150 FS | 150 | 20 | 14.000 | 7070209 |
| SSLB 200 FS | 200 | 20 | 18.500 | 7070213 |
| SSLB 300 FS | 300 | 20 | 29.200 | 7070217 |
| SSLB 400 FS | 400 | 20 | 38.200 | 7070221 |
| SSLB 500 FS | 500 | 20 | 49.000 | 7070225 |
| SSLB 550 FS | 550 | 20 | 53.500 | 7070229 |
| SSLB 600 FS | 600 | 20 | 58.000 | 7070233 |
| SSLB 100 DD | 100 | 20 | 7.700 | 7070306 |
| SSLB 150 DD | 150 | 20 | 14.000 | 7070310 |
| SSLB 200 DD | 200 | 20 | 18.500 | 7070314 |
| SSLB 300 DD | 300 | 20 | 29.200 | 7070318 |
| SSLB 400 DD | 400 | 20 | 38.200 | 7070322 |
| SSLB 500 DD | 500 | 20 | 49.000 | 7070326 |
| SSLB 550 DD | 550 | 20 | 53.500 | 7070330 |
| SSLB 600 DD | 600 | 20 | 58.000 | 7070334 |



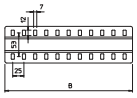


Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

A2 A4 2B

## Joint plate

| Type | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| SSLB 100 A2 | 100 | 20 | 7.700 | 7070353 |
| SSLB 200 A2 | 200 | 20 | 18.500 | 7070361 |
| SSLB 300 A2 | 300 | 20 | 29.200 | 7070365 |
| SSLB 400 A2 | 400 | 20 | 38.200 | 7070369 |
| SSLB 500 A2 | 500 | 20 | 49.000 | 7070373 |
| SSLB 600 A2 | 600 | 20 | 58.000 | 7070381 |
| SSLB 100 A4 | 100 | 20 | 7.700 | 7070390 |
| SSLB 200 A4 | 200 | 20 | 18.500 | 7070392 |
| SSLB 300 A4 | 300 | 20 | 29.200 | 7070394 |
| SSLB 400 A4 | 400 | 20 | 38.200 | 7070396 |
| SSLB 500 A4 | 500 | 20 | 49.000 | 7070398 |
| SSLB 600 A4 | 600 | 20 | 58.000 | 7070400 |



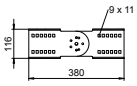


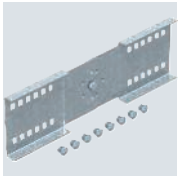
Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

St FS FT

## Adjustable connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| WRGV 110 FS | 110 | 2 | 119.000 | 6091318 |
| WRGV 110 FT | 110 | 2 | 119.000 | 6091334 |



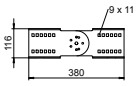



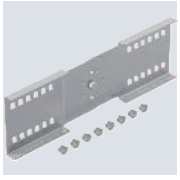
Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

A2 A4 2B

## Adjustable connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| WRGV 110 A2 | 110 | 2 | 120.000 | 6091338 |
| WRGV 110 A4 | 110 | 2 | 120.000 | 6091343 |



Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

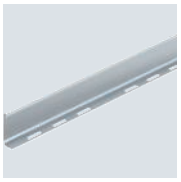


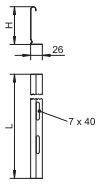
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# Wide span cable tray, side height 110

## Separating retainer 85

St FS DD





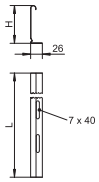

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 85 FS** | 85 | 0.75 | 3000 | 3 | 70.233 | **6062114** |
| **TSG 85 DD** | 85 | 0.75 | 3000 | 3 | 70.300 | **6062331** |

Separating retainer for separation of cables of different voltages or functions.

## Barrier strip 85

A2 2B





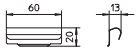

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 85 A2** | 85 | 0.75 | 3000 | 3 | 74.958 | **6062173** |

Barrier strip for separation of cables of different voltages or functions.

## Separating retainer connector

VA 2B



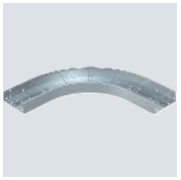


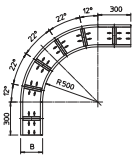

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **TSGV A2** | 10 | 0.899 | **6067970** |

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

## 90° bend 110

St FS FT





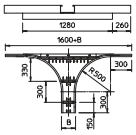

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WRB 90 120 FS** | 110 | 200 | 1 | 1,145.500 | **6098304** |
| **WRB 90 130 FS** | 110 | 300 | 1 | 1,428.000 | **6098308** |
| **WRB 90 140 FS** | 110 | 400 | 1 | 1,652.400 | **6098312** |
| **WRB 90 150 FS** | 110 | 500 | 1 | 1,935.000 | **6098316** |
| **WRB 90 160 FS** | 110 | 600 | 1 | 2,234.000 | **6098320** |
| **WRB 90 120 FT** | 110 | 200 | 1 | 1,208.200 | **6098344** |
| **WRB 90 130 FT** | 110 | 300 | 1 | 1,505.000 | **6098348** |
| **WRB 90 140 FT** | 110 | 400 | 1 | 1,747.400 | **6098352** |
| **WRB 90 150 FT** | 110 | 500 | 1 | 2,043.000 | **6098356** |
| **WRB 90 160 FT** | 110 | 600 | 1 | 2,360.000 | **6098360** |

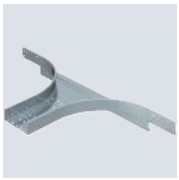
90° bend, horizontal, for all wide span cable trays of 110 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

St FS FT

## Add-on tee 110

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WRAA 120 FS** | 110 | 200 | 1 | 1,475.000 | **6098405** |
| **WRAA 130 FS** | 110 | 300 | 1 | 1,605.000 | **6098409** |
| **WRAA 140 FS** | 110 | 400 | 1 | 1,735.000 | **6098413** |
| **WRAA 150 FS** | 110 | 500 | 1 | 1,865.000 | **6098417** |
| **WRAA 160 FS** | 110 | 600 | 1 | 1,995.000 | **6098421** |
| **WRAA 120 FT** | 110 | 200 | 1 | 1,545.000 | **6098445** |
| **WRAA 130 FT** | 110 | 300 | 1 | 1,680.000 | **6098449** |
| **WRAA 140 FT** | 110 | 400 | 1 | 1,820.000 | **6098453** |
| **WRAA 150 FT** | 110 | 500 | 1 | 1,955.000 | **6098457** |
| **WRAA 160 FT** | 110 | 600 | 1 | 2,080.000 | **6098461** |



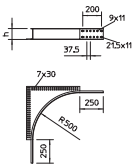



Add-on tee for horizontal use. For all wide span cable trays of 110 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

St FS FT

## Corner extension piece 110

| Type | Dim. h mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WEAS 110 FS** | 110 | 1 | 485.500 | **6098475** |
| **WEAS 110 FT** | 110 | 1 | 586.200 | **6098479** |



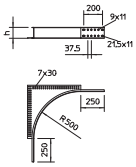



Corner extension piece for wide span cable trays and ladders with a side height of 110 mm.

A2 2B

## Corner extension piece 110

| Type | Dim. h mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WEAS 110 A2** | 110 | 1 | 485.500 | **6098483** |






Corner extension piece for wide span cable trays and ladders with a side height of 110 mm.

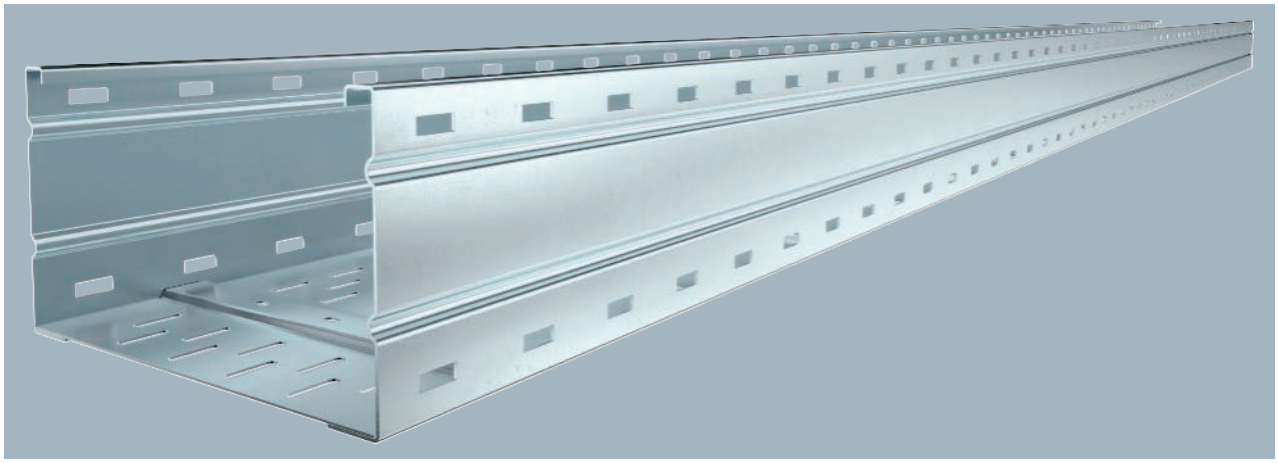


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# Wide span cable tray, side height 160

## Wide span cable tray WKSG 160

St FS



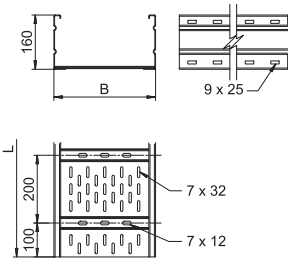
| Type | Width mm | Metal thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **WKSG 162 FS** | 200 | 2.00 | | 6 | 895.067 | **6098501** |
| **WKSG 163 FS** | 300 | 2.00 | | 6 | 1,003.170 | **6098505** |
| **WKSG 164 FS** | 400 | 2.00 | | 6 | 1,108.340 | **6098509** |
| **WKSG 165 FS** | 500 | 2.00 | | 6 | 1,216.420 | **6098513** |
| **WKSG 166 FS** | 600 | 2.00 | | 6 | 1,324.500 | **6098517** |

Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

Wide span cable tray system, perforated, with a side height of 160 mm.

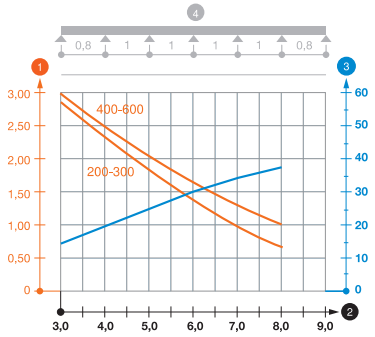
| Type | Dim. L mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| WKSG 162 FS | 6000 | 200 | 302 |
| WKSG 163 FS | 6000 | 300 | 455 |
| WKSG 164 FS | 6000 | 400 | 608 |
| WKSG 165 FS | 6000 | 500 | 761 |
| WKSG 166 FS | 6000 | 600 | 914 |

### Dimensions




| | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m | 8.0 m kN/m |
|---|---|---|---|---|---|---|
| **WKSG 162 FS** | 2.9 | 2.3 | 1.8 | 1.4 | 1 | 0.7 |
| **WKSG 163 FS** | 2.9 | 2.3 | 1.8 | 1.4 | 1 | 0.7 |
| **WKSG 164 FS** | 3 | 2.5 | 2 | 1.6 | 1.3 | 1 |
| **WKSG 165 FS** | 3 | 2.5 | 2 | 1.6 | 1.3 | 1 |
| **WKSG 166 FS** | 3 | 2.5 | 2 | 1.6 | 1.3 | 1 |

### Load




**Load diagram, wide span cable tray, type WKSG 160**

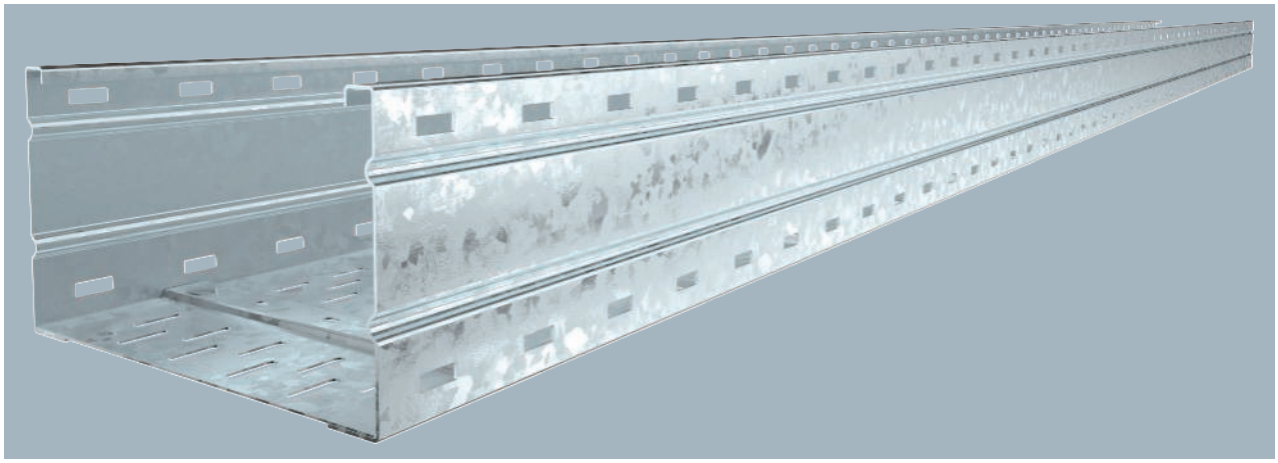
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

## Wide span cable tray WKSG 160

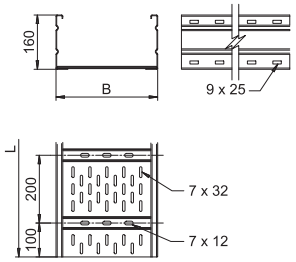


Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

Wide span cable tray system, perforated, with a side height of 160 mm.

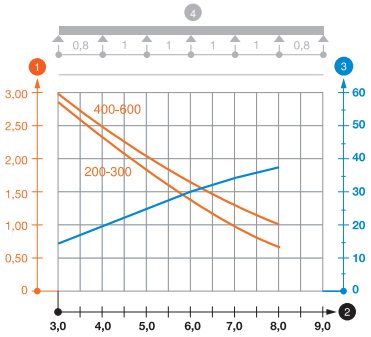
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **WKSG 162 FT** | 200 | 2.00 | 6 | 920.450 | **6098550** |
| **WKSG 163 FT** | 300 | 2.00 | 6 | 1,058.370 | **6098554** |
| **WKSG 164 FT** | 400 | 2.00 | 6 | 1,170.520 | **6098558** |
| **WKSG 165 FT** | 500 | 2.00 | 6 | 1,285.770 | **6098562** |
| **WKSG 166 FT** | 600 | 2.00 | 6 | 1,401.040 | **6098566** |

### Dimensions




| Type | Dim. L mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| WKSG 162 FT | 6000 | 200 | 302 |
| WKSG 163 FT | 6000 | 300 | 455 |
| WKSG 164 FT | 6000 | 400 | 608 |
| WKSG 165 FT | 6000 | 500 | 761 |
| WKSG 166 FT | 6000 | 600 | 914 |

### Load




| | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m | 8.0 m kN/m |
|---|---|---|---|---|
| **WKSG 162 FT** | 1.8 | 1.4 | 1 | 0.7 |
| **WKSG 163 FT** | 1.8 | 1.4 | 1 | 0.7 |
| **WKSG 164 FT** | 2 | 1.6 | 1.3 | 1 |
| **WKSG 165 FT** | 2 | 1.6 | 1.3 | 1 |
| **WKSG 166 FT** | 2 | 1.6 | 1.3 | 1 |

**Load diagram, wide span cable tray, type WKSG 160**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

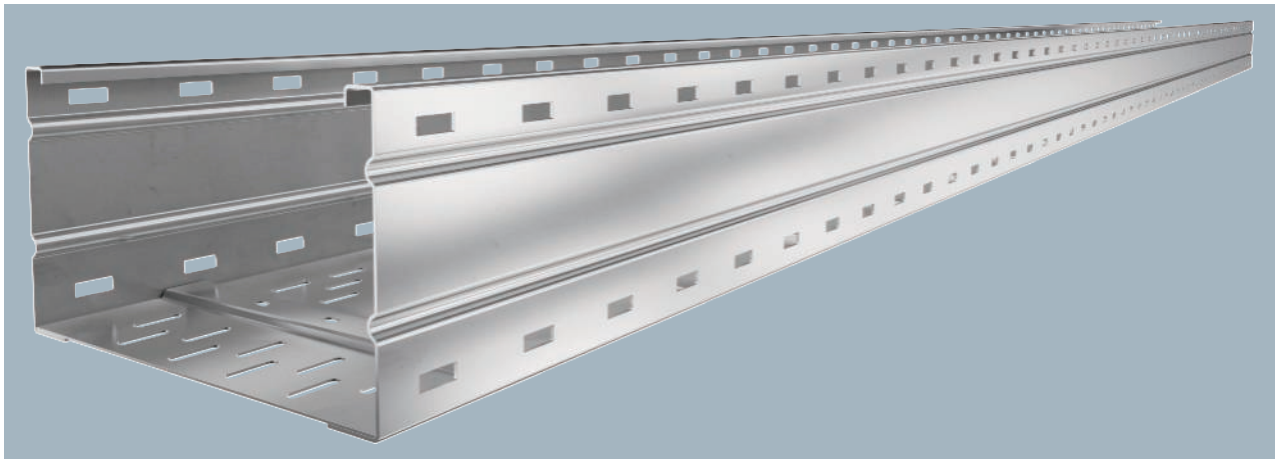


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# Wide span cable tray, side height 160

## Wide span cable tray WKSG 160

A2 2B



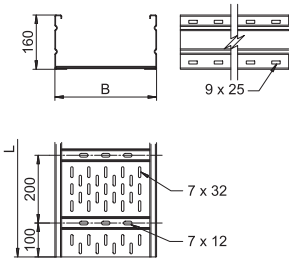
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **WKSG 162 A2** | 200 | 2.00 | 6 | 895.067 | **6098571** |
| **WKSG 163 A2** | 300 | 2.00 | 6 | 1,003.167 | **6098573** |
| **WKSG 164 A2** | 400 | 2.00 | 6 | 1,108.333 | **6098575** |
| **WKSG 165 A2** | 500 | 2.00 | 6 | 1,216.417 | **6098577** |
| **WKSG 166 A2** | 600 | 2.00 | 6 | 1,324.170 | **6098579** |

Straight connectors of type WRVL 160 should be ordered separately and in the appropriate quantity.

Wide span cable tray system, perforated, with a side height of 160 mm.

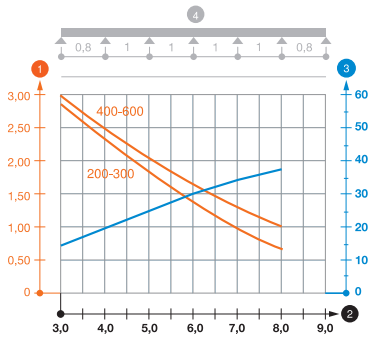
| Type | Dim. L mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| WKSG 162 A2 | 6000 | 200 | 302 |
| WKSG 163 A2 | 6000 | 300 | 455 |
| WKSG 164 A2 | 6000 | 400 | 608 |
| WKSG 165 A2 | 6000 | 500 | 761 |
| WKSG 166 A2 | 6000 | 600 | 914 |

### Dimensions




| | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m | 8.0 m kN/m |
|---|---|---|---|---|---|---|
| **WKSG 162 A2** | 2.9 | 2.3 | 1.8 | 1.4 | 1 | 0.7 |
| **WKSG 163 A2** | 2.9 | 2.3 | 1.8 | 1.4 | 1 | 0.7 |
| **WKSG 164 A2** | 3 | 2.5 | 2 | 1.6 | 1.3 | 1 |
| **WKSG 165 A2** | 3 | 2.5 | 2 | 1.6 | 1.3 | 1 |
| **WKSG 166 A2** | 3 | 2.5 | 2 | 1.6 | 1.3 | 1 |

### Load




**Load diagram, wide span cable tray, type WKSG 160**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

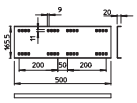
— Load curve with cable tray/ladder width in mm

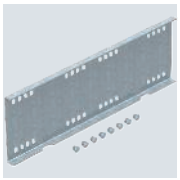
— Strut bend curve according to support width

St FS FT

## Straight connector 160

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRVL 160 FS** | 160 | 2 | 218.000 | **6227708** |
| **WRVL 160 FT** | 160 | 2 | 218.000 | **6227716** |



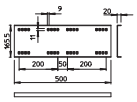



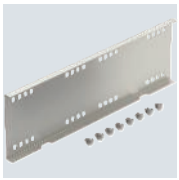
Straight connector for the connection of wide span cable trays and ladders of types WKSG and WKLG with a side height of 160 mm.
Including appropriate bolts, washers and nuts.

A2 A4 2B

## Straight connector 160

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRVL 160 A2** | 160 | 2 | 218.000 | **6227724** |
| **WRVL 160 A4** | 160 | 2 | 250.000 | **6227730** |



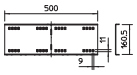



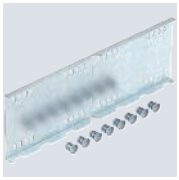
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 160 mm.
Including appropriate bolts, washers and nuts.

St FS

## Angle connector 160

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWVK 160 FS** | 160 | 2 | 199.800 | **6227832** |



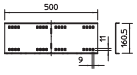



Including appropriate bolts, washers and nuts.
Angle connector for wide span cable trays and ladders with a side height of 160 mm.

A2 2B

## Angle connector 160

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWVK 160 A2** | 160 | 2 | 199.800 | **6227836** |



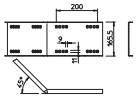



Including appropriate bolts, washers and nuts.
Angle connector for wide span cable trays and ladders with a side height of 160 mm.

St FS FT

## 45° angle connector, horizontal, internal 160

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWV 160 I FS** | 160 | 1 | 234.000 | **6227902** |
| **WRWV 160 I FT** | 160 | 1 | 234.000 | **6227910** |






Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.



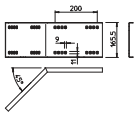
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# Wide span cable tray, side height 160

## 45° angle connector, external 160

St FS FT





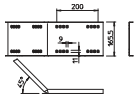
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWV 160 A FS** | 160 | 1 | 234.000 | **6227856** |
| **WRWV 160 A FT** | 160 | 1 | 234.000 | **6227864** |

Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

## 45° angle connector, internal 160

A2 2B



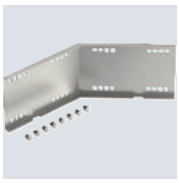


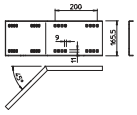
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWV 160 I A2** | 160 | 1 | 239.000 | **6227914** |

Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

## 45° angle connector, external 160

A2 2B



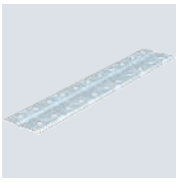


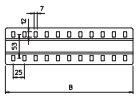
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWV 160 A A2** | 160 | 1 | 234.000 | **6227868** |

Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

## Joint plate

St FS DD





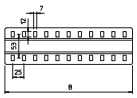
| Type | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **SSLB 100 FS** | 100 | 20 | 7.700 | **7070205** |
| **SSLB 150 FS** | 150 | 20 | 14.000 | **7070209** |
| **SSLB 200 FS** | 200 | 20 | 18.500 | **7070213** |
| **SSLB 300 FS** | 300 | 20 | 29.200 | **7070217** |
| **SSLB 400 FS** | 400 | 20 | 38.200 | **7070221** |
| **SSLB 500 FS** | 500 | 20 | 49.000 | **7070225** |
| **SSLB 550 FS** | 550 | 20 | 53.500 | **7070229** |
| **SSLB 600 FS** | 600 | 20 | 58.000 | **7070233** |
| **SSLB 100 DD** | 100 | 20 | 7.700 | **7070306** |
| **SSLB 150 DD** | 150 | 20 | 14.000 | **7070310** |
| **SSLB 200 DD** | 200 | 20 | 18.500 | **7070314** |
| **SSLB 300 DD** | 300 | 20 | 29.200 | **7070318** |
| **SSLB 400 DD** | 400 | 20 | 38.200 | **7070322** |
| **SSLB 500 DD** | 500 | 20 | 49.000 | **7070326** |
| **SSLB 550 DD** | 550 | 20 | 53.500 | **7070330** |
| **SSLB 600 DD** | 600 | 20 | 58.000 | **7070334** |

Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

A2 A4 2B

## Joint plate

| Type | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| SSLB 100 A2 | 100 | 20 | 7.700 | 7070353 |
| SSLB 200 A2 | 200 | 20 | 18.500 | 7070361 |
| SSLB 300 A2 | 300 | 20 | 29.200 | 7070365 |
| SSLB 400 A2 | 400 | 20 | 38.200 | 7070369 |
| SSLB 500 A2 | 500 | 20 | 49.000 | 7070373 |
| SSLB 600 A2 | 600 | 20 | 58.000 | 7070381 |
| SSLB 100 A4 | 100 | 20 | 7.700 | 7070390 |
| SSLB 200 A4 | 200 | 20 | 18.500 | 7070392 |
| SSLB 300 A4 | 300 | 20 | 29.200 | 7070394 |
| SSLB 400 A4 | 400 | 20 | 38.200 | 7070396 |
| SSLB 500 A4 | 500 | 20 | 49.000 | 7070398 |
| SSLB 600 A4 | 600 | 20 | 58.000 | 7070400 |



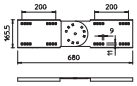


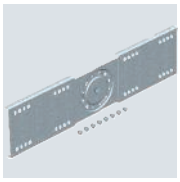
Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

St FS FT

## Adjustable connector 160

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| WRGV 160 FS | 160 | 2 | 306.100 | 6227953 |
| WRGV 160 FT | 160 | 2 | 316.700 | 6227961 |



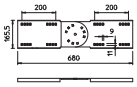


Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.
Including appropriate bolts, washers and nuts.

A2 2B

## Adjustable connector 160

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| WRGV 160 A2 | 160 | 2 | 300.200 | 6227965 |



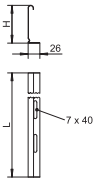


Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.
Including appropriate bolts, washers and nuts.

St FS DD

## Separating retainer 110

| Type | Dim. H mm | Metal thickness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 110 FS | 110 | 0.75 | 3000 | 3 | 85.000 | 6062122 |
| TSG 110 DD | 110 | 0.75 | 3000 | 3 | 85.000 | 6062335 |



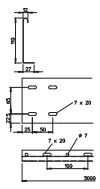



Separating retainer for separation of cables of different voltages or functions.

A2 2B

## Barrier strip 110

| Type | Dim. H mm | Metal thickness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 110 A2 | 110 | 0.75 | 3000 | 3 | 90.684 | 6062255 |





Barrier strip for separation of cables of different voltages or functions.

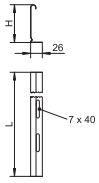
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# Wide span cable tray, side height 160

## Separating retainer 135

St FS DD





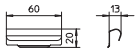

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 135 FS** | 135 | 0.75 | 3000 | 3 | 99.800 | **6062132** |
| **TSG 135 DD** | 135 | 0.75 | 3000 | 3 | 100.000 | **6062338** |

Separating retainer for separation of cables of different voltages or functions.

## Separating retainer connector

VA 2B



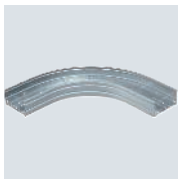


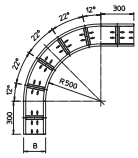

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **TSGV A2** | 10 | 0.899 | **6067970** |

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

## 90° bend 160

St FS FT



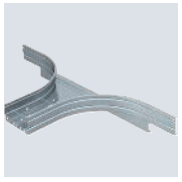


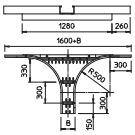

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WRB 90 162 FS** | 160 | 200 | 1 | 1,390.000 | **6098703** |
| **WRB 90 163 FS** | 160 | 300 | 1 | 1,664.000 | **6098707** |
| **WRB 90 164 FS** | 160 | 400 | 1 | 1,920.000 | **6098711** |
| **WRB 90 165 FS** | 160 | 500 | 1 | 2,214.000 | **6098715** |
| **WRB 90 166 FS** | 160 | 600 | 1 | 2,526.000 | **6098719** |
| **WRB 90 162 FT** | 160 | 200 | 1 | 1,460.000 | **6098730** |
| **WRB 90 163 FT** | 160 | 300 | 1 | 1,751.000 | **6098734** |
| **WRB 90 164 FT** | 160 | 400 | 1 | 2,023.000 | **6098738** |
| **WRB 90 165 FT** | 160 | 500 | 1 | 2,335.000 | **6098742** |
| **WRB 90 166 FT** | 160 | 600 | 1 | 2,667.000 | **6098746** |

90° bend, horizontal, for all wide span cable trays of 160 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

## Add-on tee 160

St FS FT






| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WRAA 162 FS** | 160 | 200 | 1 | 1,783.000 | **6098800** |
| **WRAA 163 FS** | 160 | 300 | 1 | 1,938.000 | **6098804** |
| **WRAA 164 FS** | 160 | 400 | 1 | 2,075.000 | **6098808** |
| **WRAA 165 FS** | 160 | 500 | 1 | 2,240.000 | **6098812** |
| **WRAA 166 FS** | 160 | 600 | 1 | 2,350.000 | **6098816** |
| **WRAA 162 FT** | 160 | 200 | 1 | 1,865.000 | **6098827** |
| **WRAA 163 FT** | 160 | 300 | 1 | 2,026.000 | **6098831** |
| **WRAA 164 FT** | 160 | 400 | 1 | 2,170.000 | **6098835** |
| **WRAA 165 FT** | 160 | 500 | 1 | 2,316.000 | **6098839** |
| **WRAA 166 FT** | 160 | 600 | 1 | 2,460.000 | **6098843** |

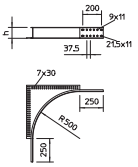
Add-on tee for horizontal use. For all wide span cable trays of 160 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

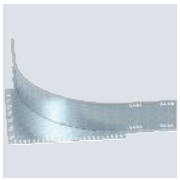
St FS FT

## Corner extension piece 160

| Type | Dim. h mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WEAS 160 FS** | 160 | | 1 | 632.000 | **6098860** |
| **WEAS 160 FT** | 160 | | 1 | 669.000 | **6098864** |

Corner extension piece for wide span cable trays and ladders with a side height of 160 mm.



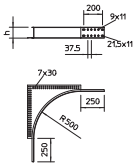



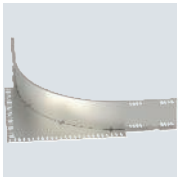
A2 2B

## Corner extension piece 160

| Type | Dim. h mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WEAS 160 A2** | 160 | | 1 | 702.000 | **6098868** |

Corner extension piece for wide span cable trays and ladders with a side height of 160 mm.



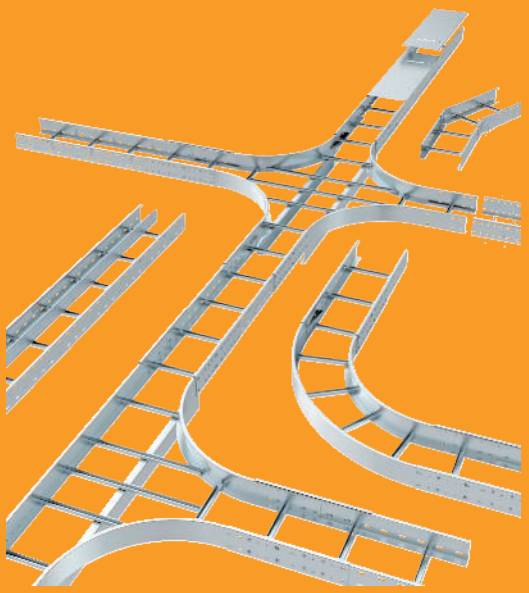


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# Wide span cable ladder systems

When you need to bridge wide spans and support high cable loads, the OBO wide span systems are the perfect solution. The product range comprises cable trays and cable ladders with widths of between 200 and 600 mm and side heights of 110 to 200 mm. Comprehensive system accessories, such as fittings and all the fastening materials for concrete and steel mounting, round off this product range perfectly.



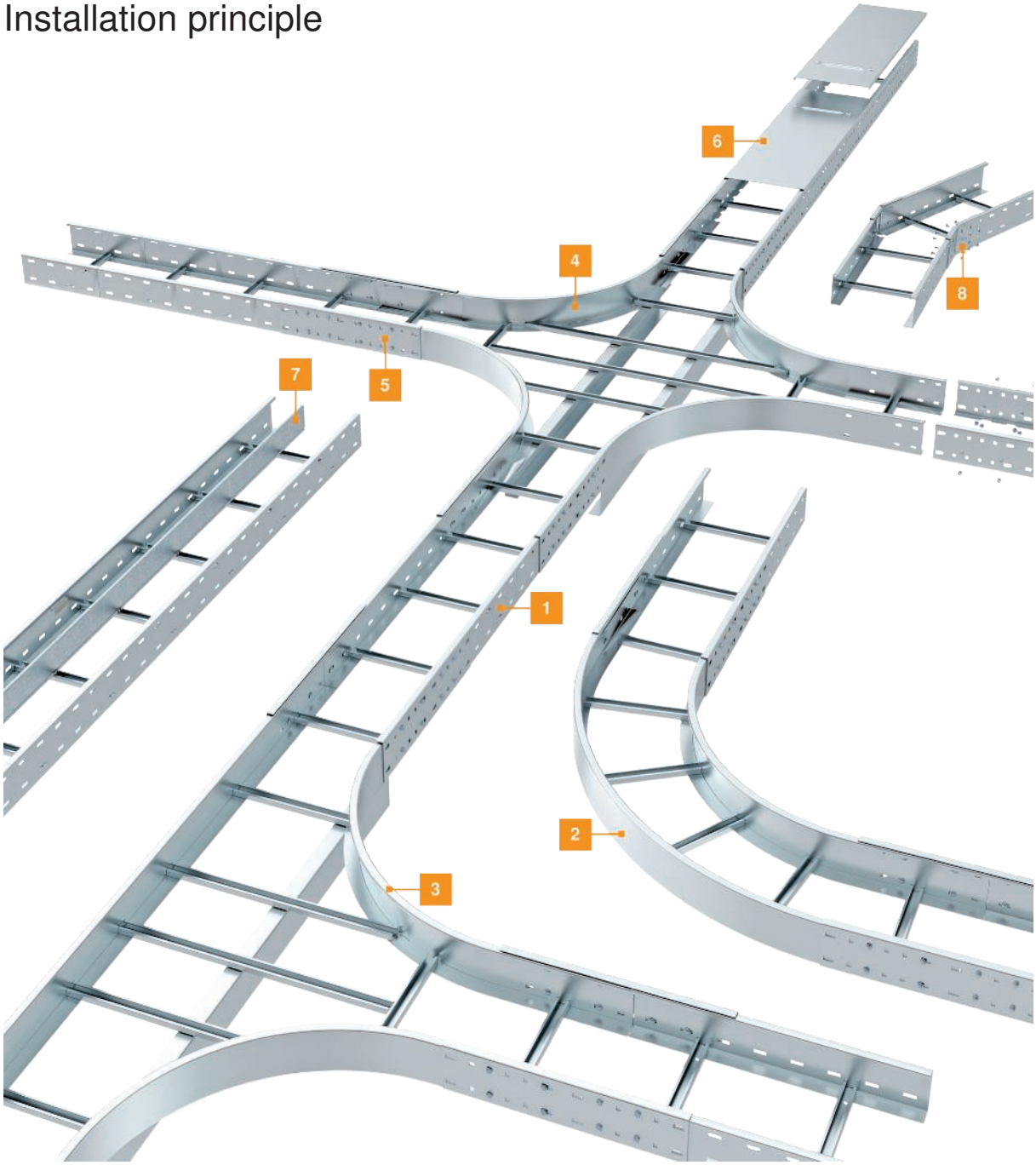






# Wide span cable ladder systems

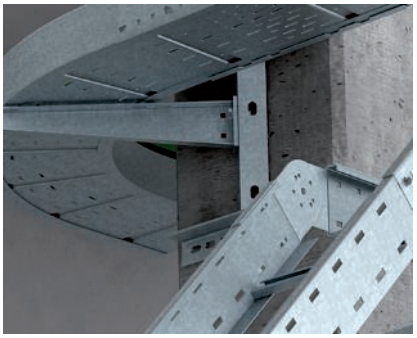
## Installation principle



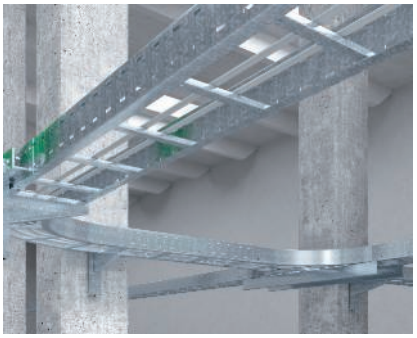

| | |
|---|---|
| 1 | Wide span cable ladders |
| 2 | 90° bend |
| 3 | T branch piece |
| 4 | Cross-over |
| 5 | Straight connector |
| 6 | Cover with turn buckle |
| 7 | Barrier strip |
| 8 | Adjustable connector |

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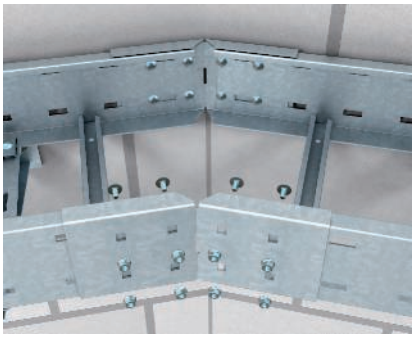
# Mounting aid



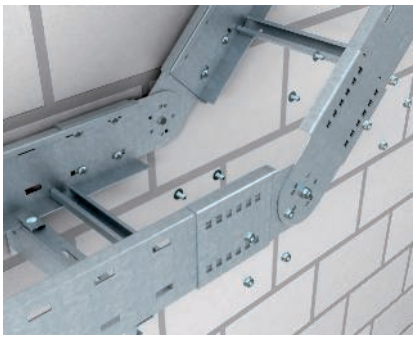
**Wide span fittings application**
Mounting examples for horizontal and vertical changes of direction for wide span systems.



**Girder clamping application**
Mounting of a wide span system clamped to steel girders.



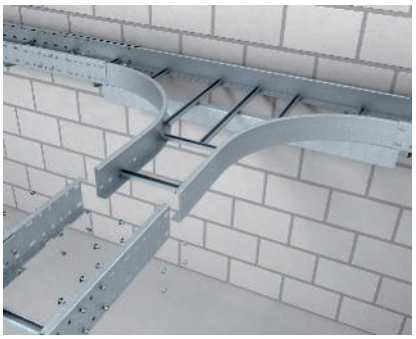
**Horizontal wide span angle connection**
Horizontal angle connection of wide span cable ladders with angle connectors, type WRWVK.



**Vertical wide span adjustable connection**
Vertical angle connection of wide span cable ladders with adjustable connectors, type WRGV.



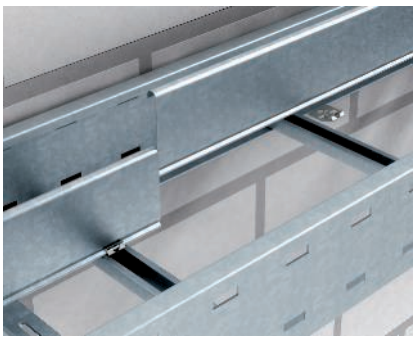
**Installation of 90° bend**
Bend in combination with wide span cable ladder. The bend is connected to the wide span cable ladder using external connectors.



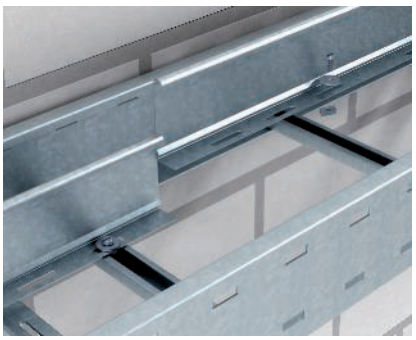
**Installation of tee**
Tee in conjunction with wide span cable ladder. The tee is connected to the wide span cable ladder using external connectors.



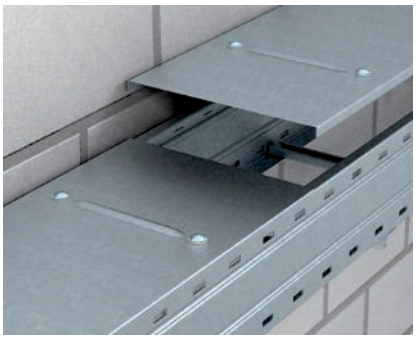
**Installation of cross-over**
Cross-over in combination with wide span cable ladder. The cross-over is connected to the wide span cable ladder using external connectors.



**Screwless barrier strip fastening**
Screwless fastening of a barrier strip in wide span cable trays and cable ladders with hold-down clamp, type KS KL.



**Screwed barrier strip fastening**
Barrier strip mounting in wide span cable ladders. Fasten using slide nuts and hexagonal bolts.



**Cover mounting**
Installation of covers with turn buckles.

St FS

## Wide span cable ladder WKLG 110

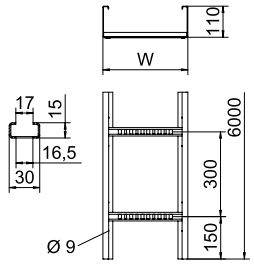


Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

Wide span cable ladder with perforated side rails of side height of 110 mm. Fastening of cables with clamp clip, type 2056.

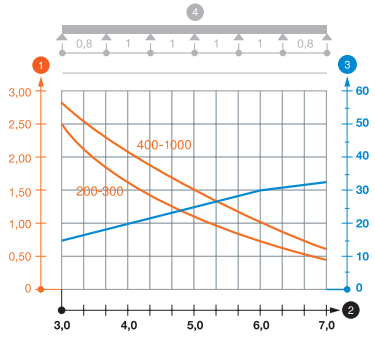
| Type | Width mm | Rail thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **WKLG 1120 FS** | 200 | 2 | 6 | 560.400 | **6311008** |
| **WKLG 1130 FS** | 300 | 2 | 6 | 583.000 | **6311012** |
| **WKLG 1140 FS** | 400 | 2 | 6 | 605.800 | **6311016** |
| **WKLG 1150 FS** | 500 | 2 | 6 | 628.833 | **6311020** |
| **WKLG 1160 FS** | 600 | 2 | 6 | 652.000 | **6311024** |

### Dimensions




| Type | Dim. L mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| WKLG 1120 FS | 6000 | 200 | 186 |
| WKLG 1130 FS | 6000 | 300 | 281 |
| WKLG 1140 FS | 6000 | 400 | 376 |
| WKLG 1150 FS | 6000 | 500 | 471 |
| WKLG 1160 FS | 6000 | 600 | 566 |

### Load




| | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m |
|---|---|---|---|---|
| **WKLG 1120 FS** | 1.6 | 1.1 | 0.8 | 0.4 |
| **WKLG 1130 FS** | 1.6 | 1.1 | 0.8 | 0.4 |
| **WKLG 1140 FS** | 2.1 | 1.5 | 1 | 0.7 |
| **WKLG 1150 FS** | 2.1 | 1.5 | 1 | 0.7 |
| **WKLG 1160 FS** | 2.1 | 1.5 | 1 | 0.7 |

**Load diagram, wide span cable ladder, type WKLG 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

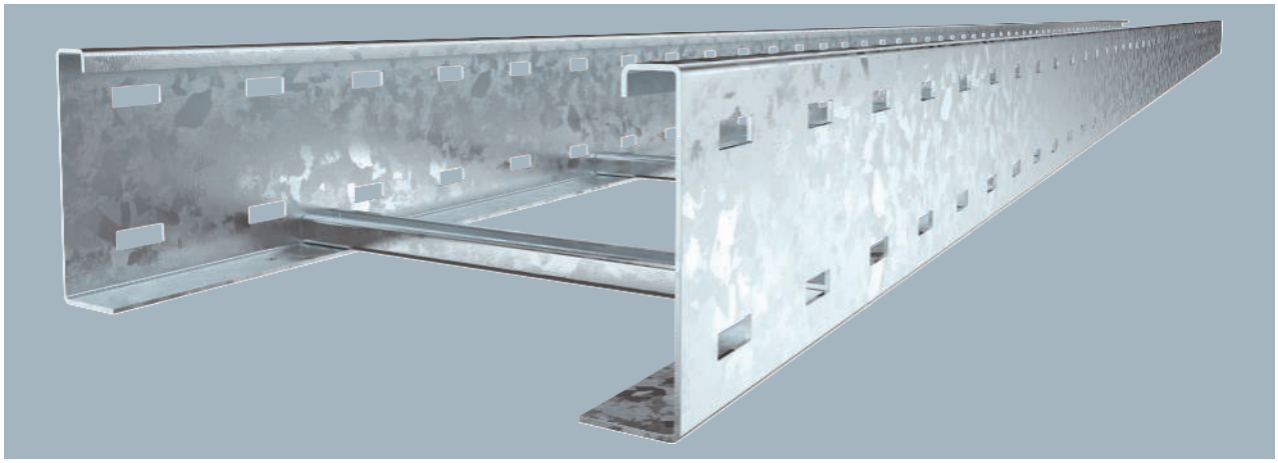


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# WKLG wide span cable ladder system, side height 110

## Wide span cable ladder WKLG 110

St FT



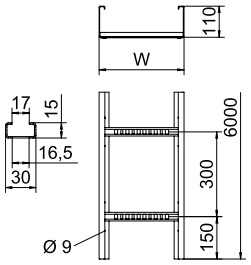
| Type | Width mm | Rail thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **WKLG 1120 FT** | 200 | 2 | | 6 | 589.000 | **6311059** |
| **WKLG 1130 FT** | 300 | 2 | | 6 | 612.800 | **6311063** |
| **WKLG 1140 FT** | 400 | 2 | | 6 | 637.166 | **6311067** |
| **WKLG 1150 FT** | 500 | 2 | | 6 | 662.066 | **6311071** |
| **WKLG 1160 FT** | 600 | 2 | | 6 | 686.600 | **6311075** |

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

Wide span cable ladder with perforated side rails of side height of 110 mm. Fastening of cables with clamp clip, type 2056.

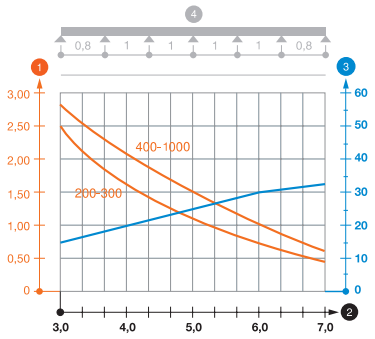
| Type | Dim. L mm | Dim. B mm | Usable cross-section $cm^2$ |
|---|---|---|---|
| WKLG 1120 FT | 6000 | 200 | 186 |
| WKLG 1130 FT | 6000 | 300 | 281 |
| WKLG 1140 FT | 6000 | 400 | 376 |
| WKLG 1150 FT | 6000 | 500 | 471 |
| WKLG 1160 FT | 6000 | 600 | 566 |

**Dimensions**




| | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m |
|---|---|---|---|---|
| **WKLG 1120 FT** | 1.6 | 1.1 | 0.8 | 0.4 |
| **WKLG 1130 FT** | 1.6 | 1.1 | 0.8 | 0.4 |
| **WKLG 1140 FT** | 2.1 | 1.5 | 1 | 0.7 |
| **WKLG 1150 FT** | 2.1 | 1.5 | 1 | 0.7 |
| **WKLG 1160 FT** | 2.1 | 1.5 | 1 | 0.7 |

**Load**




**Load diagram, wide span cable ladder, type WKLG 110**

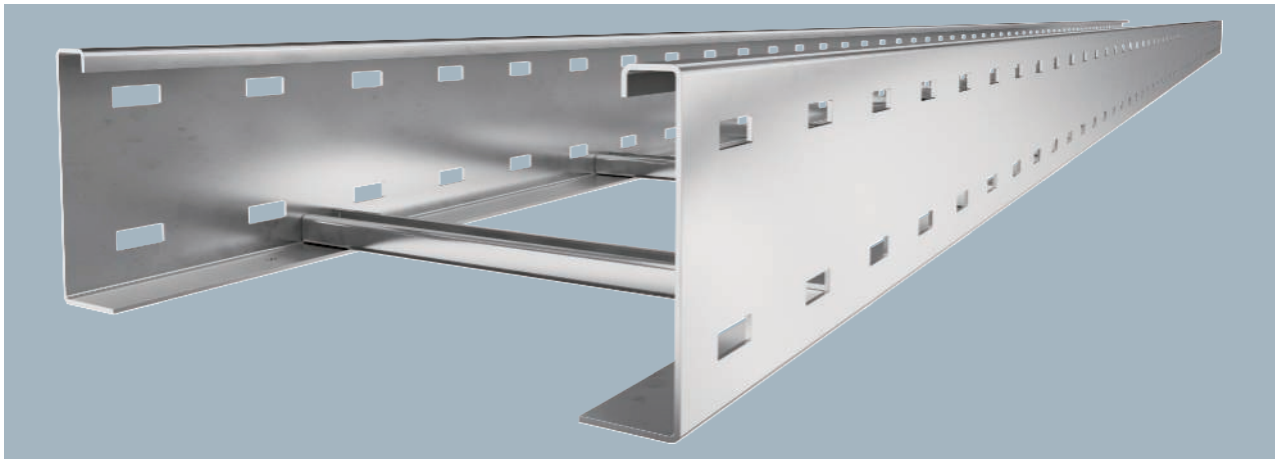
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

## Wide span cable ladder WKLG 110

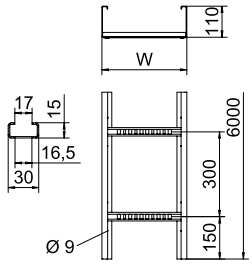


Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

Wide span cable ladder with perforated side rails of side height of 110 mm. Fastening of cables with clamp clip, type 2056.

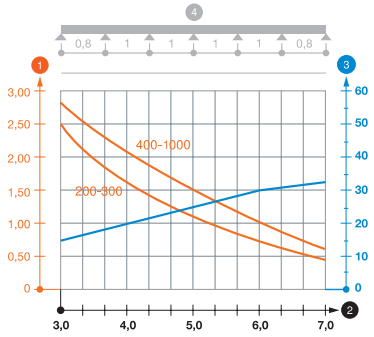
| Type | Width mm | Rail thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **WKLG 1120 A2** | 200 | 2 | 6 | 560.400 | **6311202** |
| **WKLG 1130 A2** | 300 | 2 | 6 | 582.800 | **6311206** |
| **WKLG 1140 A2** | 400 | 2 | 6 | 605.800 | **6311210** |
| **WKLG 1150 A2** | 500 | 2 | 6 | 628.866 | **6311214** |
| **WKLG 1160 A2** | 600 | 2 | 6 | 652.000 | **6311218** |

### Dimensions




| Type | Dim. L mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| WKLG 1120 A2 | 6000 | 200 | 186 |
| WKLG 1130 A2 | 6000 | 300 | 281 |
| WKLG 1140 A2 | 6000 | 400 | 376 |
| WKLG 1150 A2 | 6000 | 500 | 471 |
| WKLG 1160 A2 | 6000 | 600 | 566 |

### Load




| | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m |
|---|---|---|---|---|
| **WKLG 1120 A2** | 1.6 | 1.1 | 0.8 | 0.4 |
| **WKLG 1130 A2** | 1.6 | 1.1 | 0.8 | 0.4 |
| **WKLG 1140 A2** | 2.1 | 1.5 | 1 | 0.7 |
| **WKLG 1150 A2** | 2.1 | 1.5 | 1 | 0.7 |
| **WKLG 1160 A2** | 2.1 | 1.5 | 1 | 0.7 |

**Load diagram, wide span cable ladder, type WKLG 110.**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

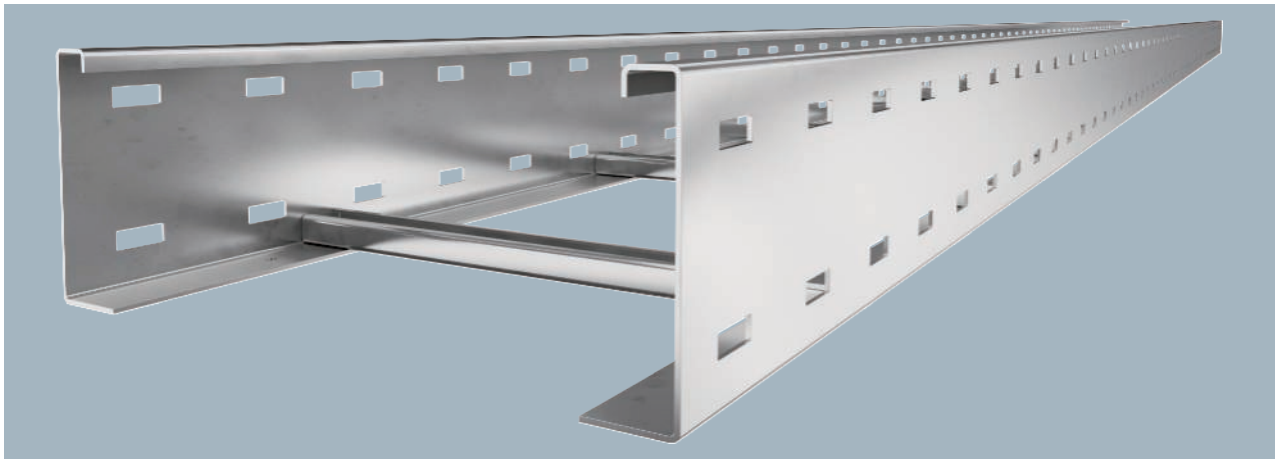


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# WKLG wide span cable ladder system, side height 110

## Wide span cable ladder WKLG 110

A4 2B



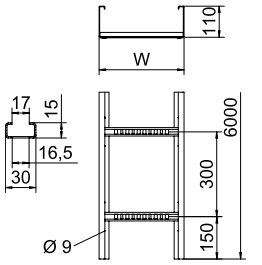
| Type | Width mm | Rail thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **WKLG 1120 A4** | 200 | 2 | | 6 | 560.400 | **6311225** |
| **WKLG 1130 A4** | 300 | 2 | | 6 | 582.800 | **6311227** |
| **WKLG 1140 A4** | 400 | 2 | | 6 | 605.800 | **6311229** |
| **WKLG 1150 A4** | 500 | 2 | | 6 | 628.866 | **6311231** |
| **WKLG 1160 A4** | 600 | 2 | | 6 | 652.000 | **6311233** |

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

Wide span cable ladder with perforated side rails of side height of 110 mm. Fastening of cables with clamp clip, type 2056.

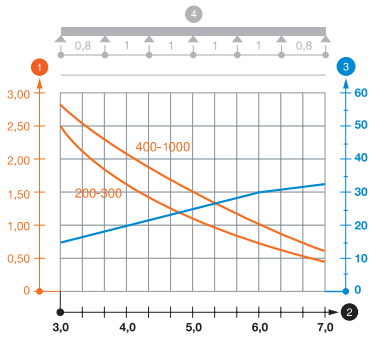
| Type | Dim. L mm | Dim. B mm | Usable cross-section $cm^2$ |
|---|---|---|---|
| WKLG 1120 A4 | 6000 | 200 | 186 |
| WKLG 1130 A4 | 6000 | 300 | 281 |
| WKLG 1140 A4 | 6000 | 400 | 376 |
| WKLG 1150 A4 | 6000 | 500 | 471 |
| WKLG 1160 A4 | 6000 | 600 | 566 |

**Dimensions**




| | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m |
|---|---|---|---|---|
| **WKLG 1120 A4** | 1.6 | 1.1 | 0.8 | 0.4 |
| **WKLG 1130 A4** | 1.6 | 1.1 | 0.8 | 0.4 |
| **WKLG 1140 A4** | 1.6 | 1.1 | 0.8 | 0.4 |
| **WKLG 1150 A4** | 1.6 | 1.1 | 0.8 | 0.4 |
| **WKLG 1160 A4** | 1.6 | 1.1 | 0.8 | 0.4 |

**Load**




**Load diagram, wide span cable ladder, type WKLG 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

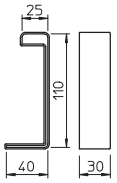
— Strut bend curve according to support width

PVC

## End cap 110

| Type | Colour | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|---|
| SKHW 110 OR | Pastel orange | 20 | 4.400 | 6310398 |

End cap to cover the ends of wide span cable ladders.



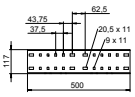


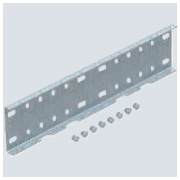

St FS FT

## Straight connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| WRVL 110 FS | 110 | 2 | 152.400 | 6091164 |
| WRVL 110 FT | 110 | 2 | 157.800 | 6091180 |

Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.



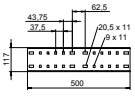



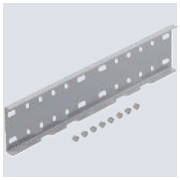
A2 A4 2B

## Straight connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| WRVL 110 A2 | 110 | 2 | 154.200 | 6091229 |
| WRVL 110 A4 | 110 | 2 | 154.400 | 6091234 |

Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.



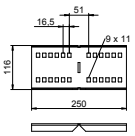



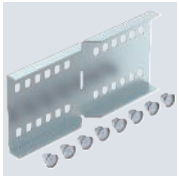
St FS

## Angle connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| WRWVK 110 FS | 110 | 2 | 83.800 | 6091377 |

Including appropriate bolts, washers and nuts.
Angle connector for wide span cable trays and ladders with a side height of 110 mm.



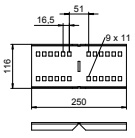



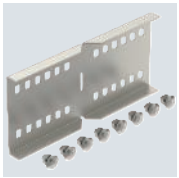
A2 A4 2B

## Angle connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| WRWVK 110 A2 | 110 | 2 | 82.000 | 6091393 |
| WRWVK 110 A4 | 110 | 2 | 82.000 | 6091397 |

Including appropriate bolts, washers and nuts.
Angle connector for wide span cable trays and ladders with a side height of 110 mm.



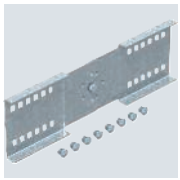


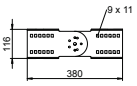
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# WKLG wide span cable ladder system, side height 110

## Adjustable connector 110

St FS FT



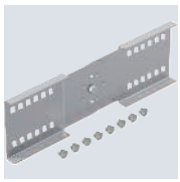


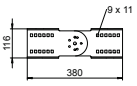

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRGV 110 FS** | 110 | 2 | 119.000 | **6091318** |
| **WRGV 110 FT** | 110 | 2 | 119.000 | **6091334** |

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

## Adjustable connector 110

A2 A4 2B





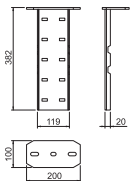

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRGV 110 A2** | 110 | 2 | 120.000 | **6091338** |
| **WRGV 110 A4** | 110 | 2 | 120.000 | **6091343** |

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

## Base plate for wide span systems

St FT



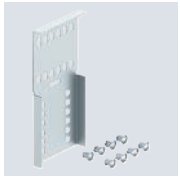


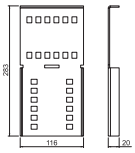

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WFP 110 FT** | 110 | 1 | 266.200 | **6232500** |

Including appropriate bolts, washers and nuts.
Base plate for accepting wide span systems, for example, for vertical routing of wide span cable trays.

## Angle connector, vertical 110

St FS





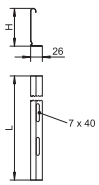

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWVV 110 FS** | 110 | 2 | 63.200 | **6091379** |

Including appropriate bolts, washers and nuts.
Angle connector for connecting vertical and horizontal wide span systems.

## Separating retainer 85

St FS DD






| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 85 FS** | 85 | 0.75 | 3000 | 3 | 70.233 | **6062114** |
| **TSG 85 DD** | 85 | 0.75 | 3000 | 3 | 70.300 | **6062331** |

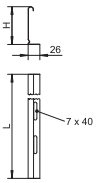
Separating retainer for separation of cables of different voltages or functions.

A2 2B

## Barrier strip 85

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 85 A2** | 85 | 0.75 | 3000 | 3 | 74.958 | **6062173** |

Barrier strip for separation of cables of different voltages or functions.



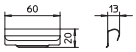



VA 2B

## Separating retainer connector

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **TSGV A2** | 10 | 0.899 | **6067970** |

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



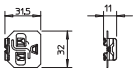



VA 2B

## Hold-down clamp for separating retainer fastening

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **KS KL A2** | 30 | 0.512 | **6062284** |

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.



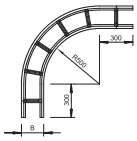



St FS FT

## 90° bend 110

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WLB 90 112 FS** | 200 | 2 | 1 | 881.800 | **6312330** |
| **WLB 90 113 FS** | 300 | 2 | 1 | 971.000 | **6312349** |
| **WLB 90 114 FS** | 400 | 2 | 1 | 1,052.100 | **6312357** |
| **WLB 90 115 FS** | 500 | 2 | 1 | 1,151.300 | **6312365** |
| **WLB 90 116 FS** | 600 | 2 | 1 | 1,330.000 | **6312373** |
| **WLB 90 112 FT** | 200 | 2 | 1 | 926.800 | **6312438** |
| **WLB 90 113 FT** | 300 | 2 | 1 | 1,016.000 | **6312446** |
| **WLB 90 114 FT** | 400 | 2 | 1 | 1,107.300 | **6312454** |
| **WLB 90 115 FT** | 500 | 2 | 1 | 1,217.800 | **6312462** |
| **WLB 90 116 FT** | 600 | 2 | 1 | 1,370.000 | **6312470** |

For further stabilisation, additional supports should be planned for the area of the fittings.
90° bend, horizontal, for all wide span cable ladders of 110 mm side height.







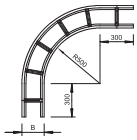

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# WKLG wide span cable ladder system, side height 110

## 90° bend 110

A4 2B





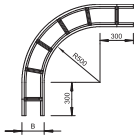

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WLB 90 112 A4** | 200 | 2 | 1 | 881.800 | **6312550** |
| **WLB 90 113 A4** | 300 | 2 | 1 | 1,030.000 | **6312552** |
| **WLB 90 114 A4** | 400 | 2 | 1 | 1,052.100 | **6312554** |
| **WLB 90 115 A4** | 500 | 2 | 1 | 1,151.300 | **6312556** |
| **WLB 90 116 A4** | 600 | 2 | 1 | 1,330.000 | **6312558** |

For further stabilisation, additional supports should be planned for the area of the fittings.
90° bend, horizontal, for all wide span cable ladders of 110 mm side height.

## 90° bend 110

A2 2B



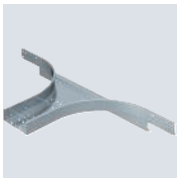


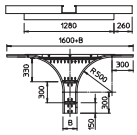

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WLB 90 112 A2** | 200 | 2 | 1 | 881.800 | **6312539** |
| **WLB 90 113 A2** | 300 | 2 | 1 | 1,030.000 | **6312541** |
| **WLB 90 114 A2** | 400 | 2 | 1 | 1,052.100 | **6312543** |
| **WLB 90 116 A2** | 600 | 2 | 1 | 1,330.000 | **6312547** |
| **WLB 90 115 A2** | 500 | 2 | 1 | 1,230.000 | **6312545** |

For further stabilisation, additional supports should be planned for the area of the fittings.
90° bend, horizontal, for all wide span cable ladders of 110 mm side height.

## Add-on tee 110

St FS FT





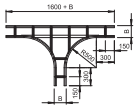

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WRAA 120 FS** | 110 | 200 | 1 | 1,475.000 | **6098405** |
| **WRAA 130 FS** | 110 | 300 | 1 | 1,605.000 | **6098409** |
| **WRAA 140 FS** | 110 | 400 | 1 | 1,735.000 | **6098413** |
| **WRAA 150 FS** | 110 | 500 | 1 | 1,865.000 | **6098417** |
| **WRAA 160 FS** | 110 | 600 | 1 | 1,995.000 | **6098421** |
| **WRAA 120 FT** | 110 | 200 | 1 | 1,545.000 | **6098445** |
| **WRAA 130 FT** | 110 | 300 | 1 | 1,680.000 | **6098449** |
| **WRAA 140 FT** | 110 | 400 | 1 | 1,820.000 | **6098453** |
| **WRAA 150 FT** | 110 | 500 | 1 | 1,955.000 | **6098457** |
| **WRAA 160 FT** | 110 | 600 | 1 | 2,080.000 | **6098461** |

Add-on tee for horizontal use. For all wide span cable trays of 110 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

## T branch piece 110

St FS FT





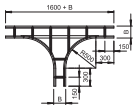

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WLT 1120 FS** | 200 | 2 | 1 | 1,760.000 | **6312632** |
| **WLT 1130 FS** | 300 | 2 | 1 | 1,927.000 | **6312640** |
| **WLT 1140 FS** | 400 | 2 | 1 | 2,050.000 | **6312659** |
| **WLT 1150 FS** | 500 | 2 | 1 | 2,172.000 | **6312667** |
| **WLT 1160 FS** | 600 | 2 | 1 | 2,340.000 | **6312675** |
| **WLT 1120 FT** | 200 | 2 | 1 | 1,842.000 | **6312713** |
| **WLT 1130 FT** | 300 | 2 | 1 | 2,017.000 | **6312721** |
| **WLT 1140 FT** | 400 | 2 | 1 | 2,147.000 | **6312748** |
| **WLT 1150 FT** | 500 | 2 | 1 | 2,275.000 | **6312756** |
| **WLT 1160 FT** | 600 | 2 | 1 | 2,404.000 | **6312764** |

For further stabilisation, additional supports should be planned for the area of the fittings.
Horizontal T branch piece, for all wide span cable ladders of 110 mm side height.

A4 2B

## T branch piece 110

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WLT 1120 A4** | 200 | 2 | 1 | 1,750.000 | **6312815** |
| **WLT 1130 A4** | 300 | 2 | 1 | 1,870.000 | **6312817** |
| **WLT 1140 A4** | 400 | 2 | 1 | 1,990.000 | **6312819** |
| **WLT 1150 A4** | 500 | 2 | 1 | 2,147.000 | **6312821** |
| **WLT 1160 A4** | 600 | 2 | 1 | 2,340.000 | **6312823** |



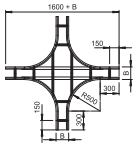


For further stabilisation, additional supports should be planned for the area of the fittings.
Horizontal T branch piece, for all wide span cable ladders of 110 mm side height.

St FT

## Cross-over 110

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WLK 1120 FT** | 200 | 2 | 1 | 2,623.200 | **6312934** |
| **WLK 1130 FT** | 300 | 2 | 1 | 2,850.600 | **6312942** |
| **WLK 1140 FT** | 400 | 2 | 1 | 3,001.300 | **6312950** |
| **WLK 1150 FT** | 500 | 2 | 1 | 3,154.600 | **6312969** |
| **WLK 1160 FT** | 600 | 2 | 1 | 3,291.400 | **6312977** |





For further stabilisation, additional supports should be planned for the area of the fittings.
Horizontal cross-over for all wide span cable ladders of 110 mm side height.

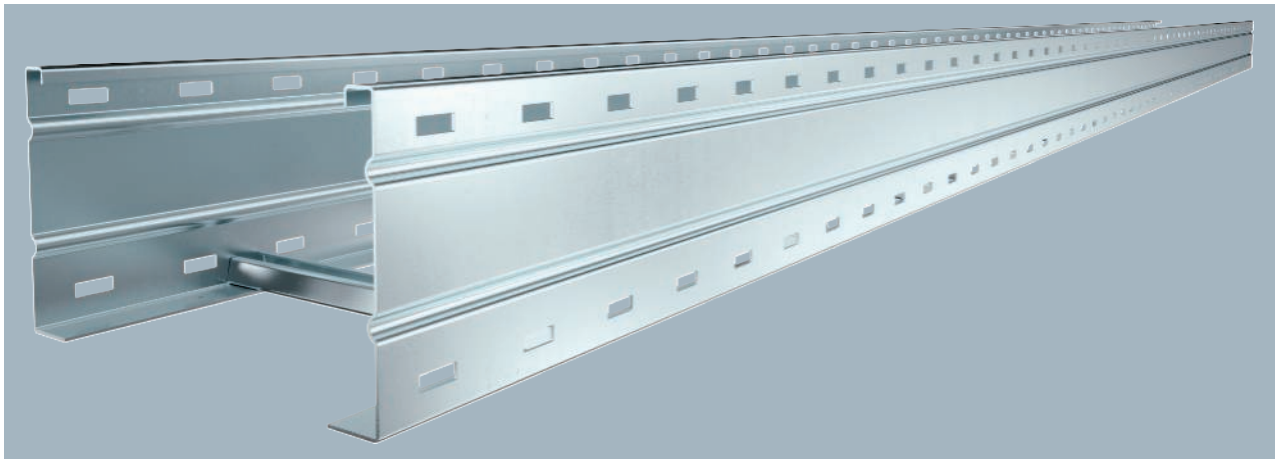


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# WKLG wide span cable ladder system, side height 160

## Wide span cable ladder WKLG 160

St FS



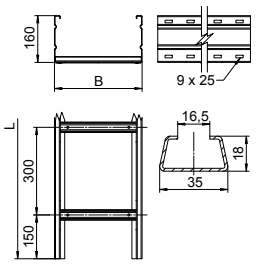
| Type | Width mm | Rail thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **WKLG 1620 FS** | 200 | 2 | | 6 | 737.334 | **6227023** |
| **WKLG 1630 FS** | 300 | 2 | | 6 | 767.334 | **6227031** |
| **WKLG 1640 FS** | 400 | 2 | | 6 | 797.834 | **6227058** |
| **WKLG 1650 FS** | 500 | 2 | | 6 | 828.500 | **6227066** |
| **WKLG 1660 FS** | 600 | 2 | | 6 | 859.334 | **6227074** |

Wide span cable ladder with perforated side rail of side height of 160 mm. Fastening of cables with clamp clip, type 2056.

Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

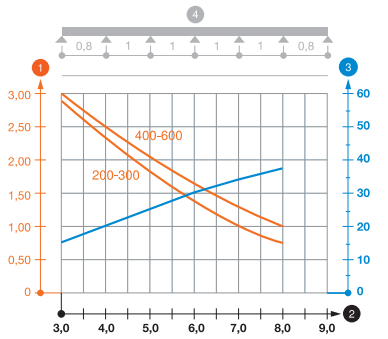
| Type | Dim. L mm | Dim. B mm | Usable cross-section $cm^2$ |
|---|---|---|---|
| WKLG 1620 FS | 6000 | 200 | 282 |
| WKLG 1630 FS | 6000 | 300 | 427 |
| WKLG 1640 FS | 6000 | 400 | 572 |
| WKLG 1650 FS | 6000 | 500 | 717 |
| WKLG 1660 FS | 6000 | 600 | 857 |

### Dimensions




| | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m | 8.0 m kN/m |
|---|---|---|---|---|
| **WKLG 1620 FS** | 1.8 | 1.4 | 1 | 0.7 |
| **WKLG 1630 FS** | 1.8 | 1.4 | 1 | 0.7 |
| **WKLG 1640 FS** | 2 | 1.6 | 1.3 | 1 |
| **WKLG 1650 FS** | 2 | 1.6 | 1.3 | 1 |
| **WKLG 1660 FS** | 2 | 1.6 | 1.3 | 1 |

### Load




**Load diagram, wide span cable ladder, type WKLG 160**

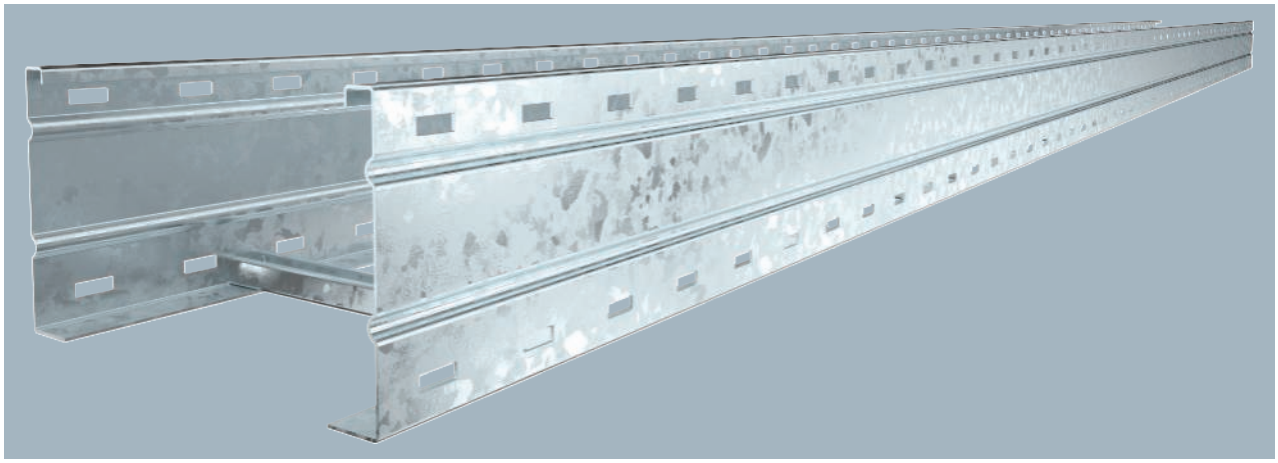
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

## Wide span cable ladder WKLG 160

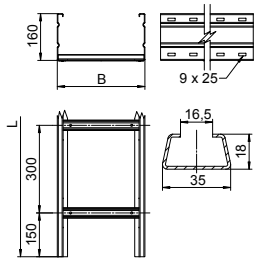


Wide span cable ladder with perforated side rail of side height of 160 mm. Fastening of cables with clamp clip, type 2056.

Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

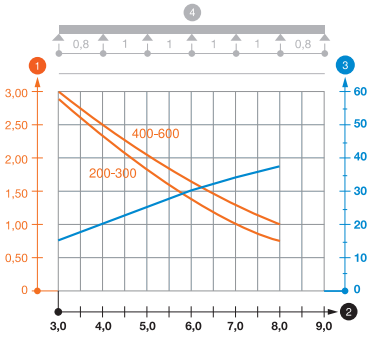
| Type | Width mm | Rail thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **WKLG 1620 FT** | 200 | 2 | 6 | 770.667 | **6227120** |
| **WKLG 1630 FT** | 300 | 2 | 6 | 802.500 | **6227139** |
| **WKLG 1640 FT** | 400 | 2 | 6 | 835.000 | **6227147** |
| **WKLG 1650 FT** | 500 | 2 | 6 | 867.334 | **6227155** |
| **WKLG 1660 FT** | 600 | 2 | 6 | 900.000 | **6227163** |

### Dimensions




| Type | Dim. L mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| WKLG 1620 FT | 6000 | 200 | 282 |
| WKLG 1630 FT | 6000 | 300 | 427 |
| WKLG 1640 FT | 6000 | 400 | 572 |
| WKLG 1650 FT | 6000 | 500 | 717 |
| WKLG 1660 FT | 6000 | 600 | 857 |

### Load




| | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m | 8.0 m kN/m |
|---|---|---|---|---|
| **WKLG 1620 FT** | 1.8 | 1.4 | 1 | 0.7 |
| **WKLG 1630 FT** | 1.8 | 1.4 | 1 | 0.7 |
| **WKLG 1640 FT** | 2 | 1.6 | 1.3 | 1 |
| **WKLG 1650 FT** | 2 | 1.6 | 1.3 | 1 |
| **WKLG 1660 FT** | 2 | 1.6 | 1.3 | 1 |

**Load diagram, wide span cable ladder, type WKLG 160**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

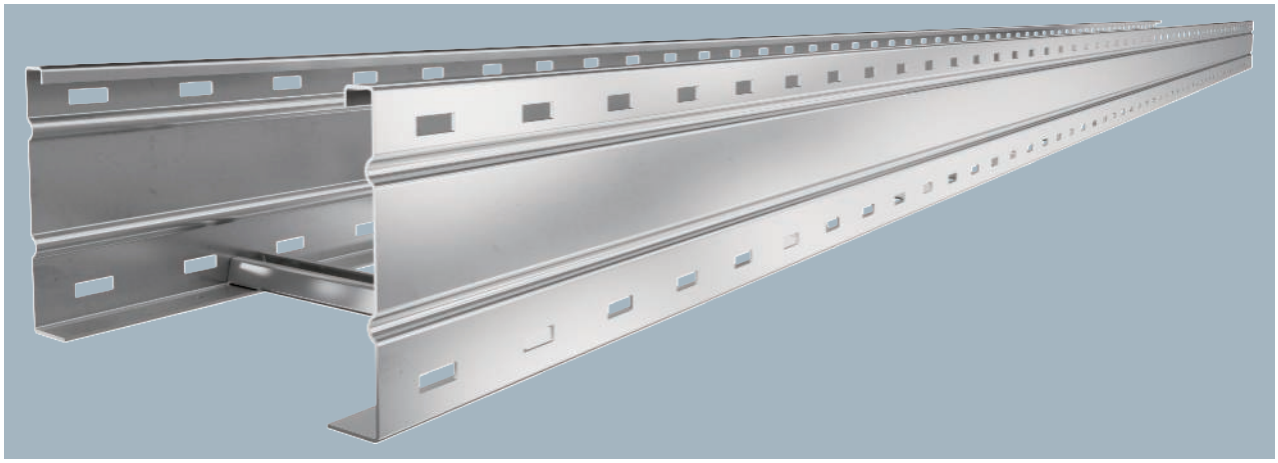


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# WKLG wide span cable ladder system, side height 160

A4 2B

## Wide span cable ladder WKLG 160



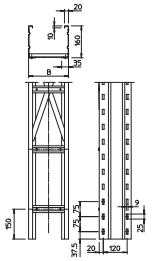
| Type | Width mm | Rail thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **WKLG 1620 A4** | 200 | 2 | | 6 | 737.334 | **6227170** |
| **WKLG 1630 A4** | 300 | 2 | | 6 | 767.334 | **6227172** |
| **WKLG 1640 A4** | 400 | 2 | | 6 | 797.834 | **6227174** |
| **WKLG 1650 A4** | 500 | 2 | | 6 | 828.500 | **6227176** |
| **WKLG 1660 A4** | 600 | 2 | | 6 | 859.334 | **6227178** |

Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

Wide span cable ladder with perforated side rail of side height of 160 mm. Fastening of cables with clamp clip, type 2056.

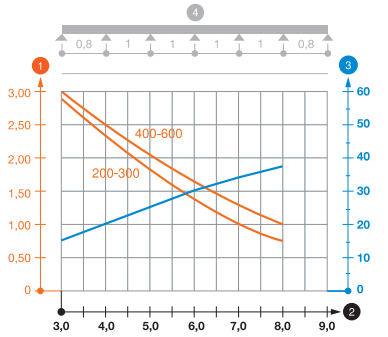
| Type | Dim. L mm | Dim. B mm | Usable cross-section $cm^2$ |
|---|---|---|---|
| WKLG 1620 A4 | 6000 | 200 | 282 |
| WKLG 1630 A4 | 6000 | 300 | 427 |
| WKLG 1640 A4 | 6000 | 400 | 572 |
| WKLG 1650 A4 | 6000 | 500 | 717 |
| WKLG 1660 A4 | 6000 | 600 | 857 |

**Dimensions**



| | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m | 8.0 m kN/m |
|---|---|---|---|---|
| **WKLG 1620 A4** | 1.8 | 1.4 | 1 | 0.7 |
| **WKLG 1630 A4** | 1.8 | 1.4 | 1 | 0.7 |
| **WKLG 1640 A4** | 2 | 1.6 | 1.3 | 1 |
| **WKLG 1650 A4** | 2 | 1.6 | 1.3 | 1 |
| **WKLG 1660 A4** | 2 | 1.6 | 1.3 | 1 |

**Load**




**Load diagram, wide span cable ladder, type WKLG 160**

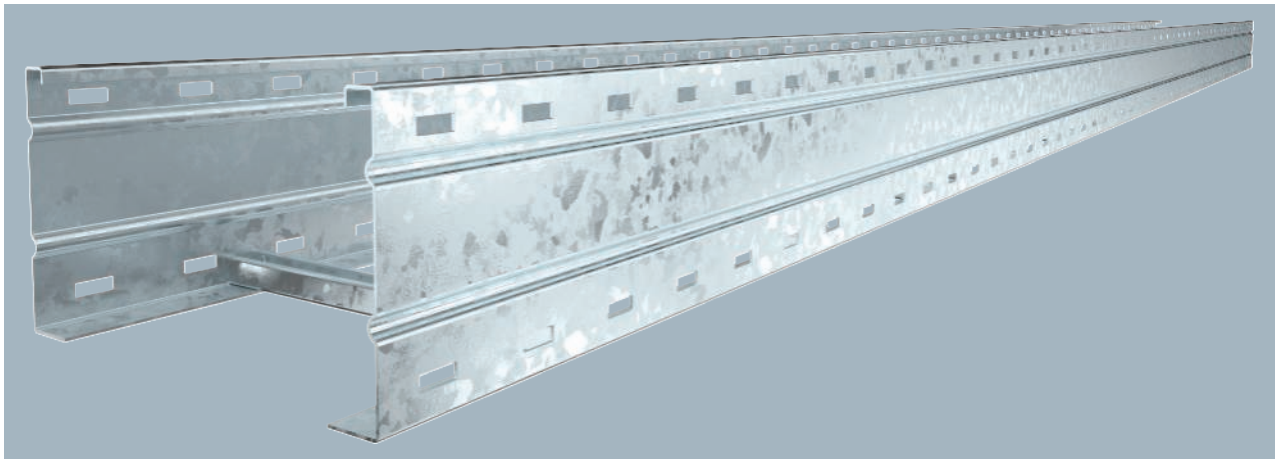
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT SO

## Wide span cable ladder WKLG 160 FT SOMY

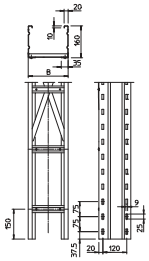


WKLG 160 = Wide span cable ladder with perforated side rails of side height of 160 mm. Fastening of cables with clamp clip, type 2056.

Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

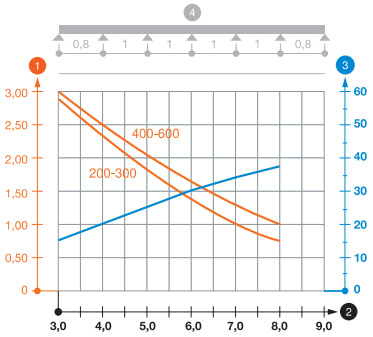
| Type | Width mm | Rail thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **WKLG 1620 FT SO** | 200 | 2 | 6 | 777.000 | **7189040** |
| **WKLG 1630 FT SO** | 300 | 2 | 6 | 809.334 | **7189042** |
| **WKLG 1640 FT SO** | 400 | 2 | 6 | 843.500 | **7189044** |
| **WKLG 1650 FT SO** | 500 | 2 | 6 | 876.334 | **7189046** |
| **WKLG 1660 FT SO** | 600 | 2 | 6 | 908.834 | **7189048** |

### Dimensions



| Type | Dim. L mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| WKLG 1620 FT SO | 6000 | 200 | 282 |
| WKLG 1630 FT SO | 6000 | 300 | 427 |
| WKLG 1640 FT SO | 6000 | 400 | 572 |
| WKLG 1650 FT SO | 6000 | 500 | 717 |
| WKLG 1660 FT SO | 6000 | 600 | 857 |

### Load




| | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m | 8.0 m kN/m |
|---|---|---|---|---|
| **WKLG 1620 FT SO** | 1.8 | 1.4 | 1 | 0.7 |
| **WKLG 1630 FT SO** | 1.8 | 1.4 | 1 | 0.7 |
| **WKLG 1640 FT SO** | 2 | 1.6 | 1.3 | 1 |
| **WKLG 1650 FT SO** | 2 | 1.6 | 1.3 | 1 |
| **WKLG 1660 FT SO** | 2 | 1.6 | 1.3 | 1 |

**Load diagram, wide span cable ladder, type WKLG 160**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

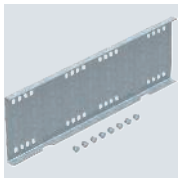


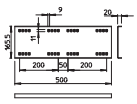
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# WKLG wide span cable ladder system, side height 160

## Straight connector 160

St FS FT






| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRVL 160 FS** | 160 | 2 | 218.000 | **6227708** |
| **WRVL 160 FT** | 160 | 2 | 218.000 | **6227716** |

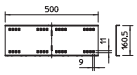
Straight connector for the connection of wide span cable trays and ladders of types WKSG and WKLG with a side height of 160 mm.

Including appropriate bolts, washers and nuts.

## Angle connector 160

St FS





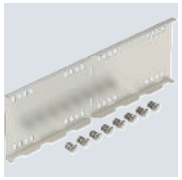

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWVK 160 FS** | 160 | 2 | 199.800 | **6227832** |

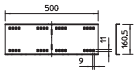
Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 160 mm.

## Angle connector 160

A2 2B






| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWVK 160 A2** | 160 | 2 | 199.800 | **6227836** |

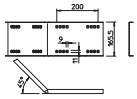
Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 160 mm.

## 45° angle connector, horizontal, internal 160

St FS FT






| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWV 160 I FS** | 160 | 1 | 234.000 | **6227902** |
| **WRWV 160 I FT** | 160 | 1 | 234.000 | **6227910** |

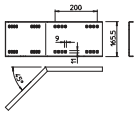
Including appropriate bolts, washers and nuts.

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

## 45° angle connector, external 160

St FS FT






| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWV 160 A FS** | 160 | 1 | 234.000 | **6227856** |
| **WRWV 160 A FT** | 160 | 1 | 234.000 | **6227864** |

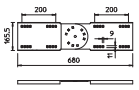
Including appropriate bolts, washers and nuts.

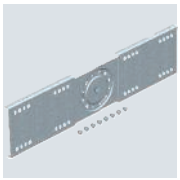
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

St FS FT

## Adjustable connector 160

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| WRGV 160 FS | 160 | 2 | 306.100 | 6227953 |
| WRGV 160 FT | 160 | 2 | 316.700 | 6227961 |



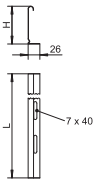



Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.
Including appropriate bolts, washers and nuts.

St FS DD

## Separating retainer 110

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 110 FS | 110 | 0.75 | 3000 | 3 | 85.000 | 6062122 |
| TSG 110 DD | 110 | 0.75 | 3000 | 3 | 85.000 | 6062335 |



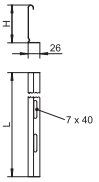



Separating retainer for separation of cables of different voltages or functions.

St FS DD

## Separating retainer 135

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 135 FS | 135 | 0.75 | 3000 | 3 | 99.800 | 6062132 |
| TSG 135 DD | 135 | 0.75 | 3000 | 3 | 100.000 | 6062338 |



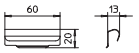


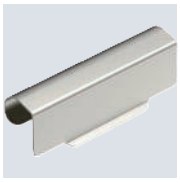

Separating retainer for separation of cables of different voltages or functions.

VA 2B

## Separating retainer connector

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| TSGV A2 | 10 | 0.899 | 6067970 |



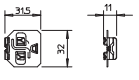



Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

VA 2B

## Hold-down clamp for separating retainer fastening

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KS KL A2 | 30 | 0.512 | 6062284 |






Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

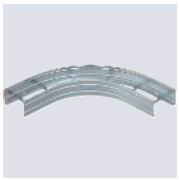


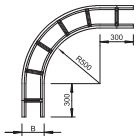
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# WKLG wide span cable ladder system, side height 160

## 90° bend 160

St FS FT





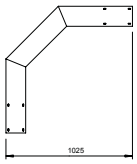

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WLB 90 162 FS** | 200 | 2 | 1 | 1,145.000 | **6229336** |
| **WLB 90 163 FS** | 300 | 2 | 1 | 1,250.000 | **6229344** |
| **WLB 90 164 FS** | 400 | 2 | 1 | 1,355.000 | **6229352** |
| **WLB 90 165 FS** | 500 | 2 | 1 | 1,504.000 | **6229360** |
| **WLB 90 166 FS** | 600 | 2 | 1 | 1,618.000 | **6229379** |
| **WLB 90 162 FT** | 200 | 2 | 1 | 1,200.000 | **6229425** |
| **WLB 90 163 FT** | 300 | 2 | 1 | 1,310.000 | **6229433** |
| **WLB 90 164 FT** | 400 | 2 | 1 | 1,420.000 | **6229441** |
| **WLB 90 165 FT** | 500 | 2 | 1 | 1,576.000 | **6229468** |
| **WLB 90 166 FT** | 600 | 2 | 1 | 1,996.000 | **6229476** |

For further stabilisation, additional supports should be planned for the area of the fittings.
90° bend, horizontal, for all wide span cable ladders of 160 mm side height.

## 90° vertical bend, falling 160

St FT



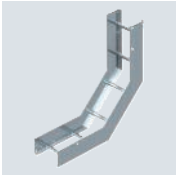


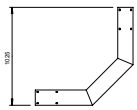

| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WLBF 90 162 FT** | 200 | 2 | 1 | 1,275.000 | **6230725** |
| **WLBF 90 163 FT** | 300 | 2 | 1 | 1,335.000 | **6230733** |
| **WLBF 90 164 FT** | 400 | 2 | 1 | 1,385.000 | **6230741** |
| **WLBF 90 165 FT** | 500 | 2 | 1 | 1,445.000 | **6230768** |
| **WLBF 90 166 FT** | 600 | 2 | 1 | 1,495.000 | **6230776** |

For further stabilisation, additional supports should be planned for the area of the fittings.
90° vertical bend, for all wide span cable ladders of 160 mm side height.

## 90° vertical bend, rising 160

St FT



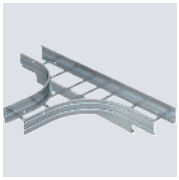


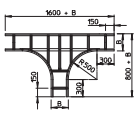

| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WLBS 90 162 FT** | 200 | 2 | 1 | 1,275.000 | **6230423** |
| **WLBS 90 163 FT** | 300 | 2 | 1 | 1,335.000 | **6230431** |
| **WLBS 90 164 FT** | 400 | 2 | 1 | 1,385.000 | **6230458** |
| **WLBS 90 165 FT** | 500 | 2 | 1 | 1,445.000 | **6230466** |
| **WLBS 90 166 FT** | 600 | 2 | 1 | 1,495.000 | **6230474** |

For further stabilisation, additional supports should be planned for the area of the fittings.
90° vertical bend, for all wide span cable ladders of 160 mm side height.

## T branch piece 160

St FT



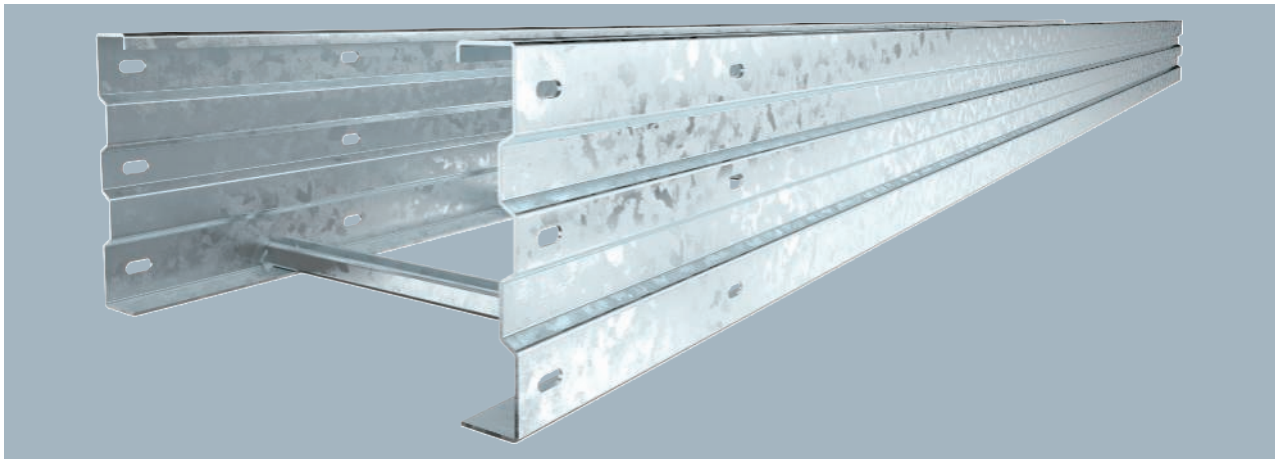



| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WLT 1620 FT** | 200 | 2 | 1 | 2,345.000 | **6229727** |
| **WLT 1630 FT** | 300 | 2 | 1 | 2,565.000 | **6229735** |
| **WLT 1640 FT** | 400 | 2 | 1 | 2,725.000 | **6229743** |
| **WLT 1650 FT** | 500 | 2 | 1 | 2,885.000 | **6229751** |
| **WLT 1660 FT** | 600 | 2 | 1 | 3,040.000 | **6229778** |

For further stabilisation, additional supports should be planned for the area of the fittings.
Horizontal T branch piece, for all wide span cable ladders of 160 mm side height.

St FT

## WKL 200 wide span cable ladder

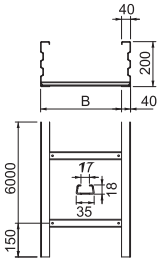


Straight connectors of type WRVL 200 should be ordered separately and in the appropriate quantity.

WKL 200 = Wide span cable ladder with 200 mm side height.

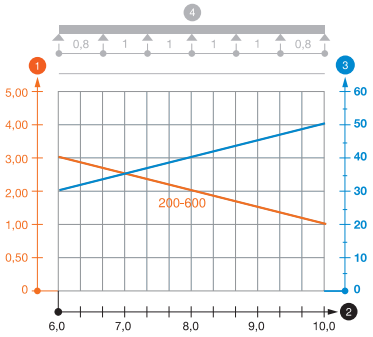
| Type | Width mm | Rail thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **WKL 2020 FT** | 200 | 2.5 | 6 | 1,320.000 | **6232102** |
| **WKL 2030 FT** | 300 | 2.5 | 6 | 1,358.334 | **6232104** |
| **WKL 2040 FT** | 400 | 2.5 | 6 | 1,398.340 | **6232106** |
| **WKL 2050 FT** | 500 | 2.5 | 6 | 1,440.000 | **6232108** |
| **WKL 2060 FT** | 600 | 2.5 | 6 | 1,480.000 | **6232110** |

### Dimensions




| Type | Dim. L mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| WKL 2020 FT | 6000 | 200 | 344 |
| WKL 2030 FT | 6000 | 300 | 524 |
| WKL 2040 FT | 6000 | 400 | 704 |
| WKL 2050 FT | 6000 | 500 | 884 |
| WKL 2060 FT | 6000 | 600 | 1064 |

### Load




| | 6.0 m kN/m | 7.0 m kN/m | 8.0 m kN/m | 9.0 m kN/m | 10.0 m kN/m |
|---|---|---|---|---|---|
| **WKL 2020 FT** | 3 | 2.5 | 2 | 1.4 | 1 |
| **WKL 2030 FT** | 3 | 2.5 | 2 | 1.4 | 1 |
| **WKL 2040 FT** | 3 | 2.5 | 2 | 1.4 | 1 |
| **WKL 2050 FT** | 3 | 2.5 | 2 | 1.4 | 1 |
| **WKL 2060 FT** | 3 | 2.5 | 2 | 1.4 | 1 |

**Load diagram, wide span cable ladder, type WKL 200**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

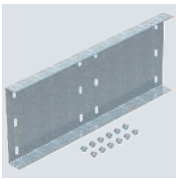


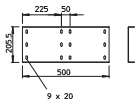
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# WKLG wide span cable ladder system, side height 200

## Straight connector 200

St FT



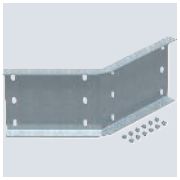


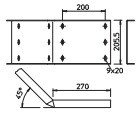

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRV 200 FT** | 200 | 4 | 320.000 | **6232507** |

Straight connector for connections of wide span cable ladders and fittings with a side height of 200 mm.
Including appropriate bolts, washers and nuts.

## 45° angle connector, internal 200

St FT



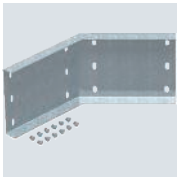


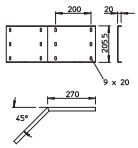

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWV 200 I FT** | 200 | 4 | 322.000 | **6232612** |

Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable ladders of 200 mm side height.

## 45° angle connector, external 200

St FT



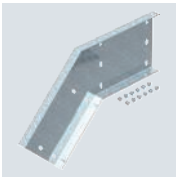


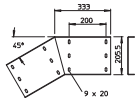

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWV 200 A FT** | 200 | 4 | 320.000 | **6232604** |

Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable ladders of 200 mm side height.

## 45° angle connector, vertical 200

St FT





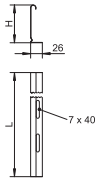

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRWV 200 V FT** | 200 | 4 | 343.100 | **6232663** |

Including appropriate bolts, washers and nuts.
45° angle connector, vertical, for wide span cable ladders of 200 mm side height.

## Separating retainer 110

St FS DD






| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 110 FS** | 110 | 0.75 | 3000 | 3 | 85.000 | **6062122** |
| **TSG 110 DD** | 110 | 0.75 | 3000 | 3 | 85.000 | **6062335** |

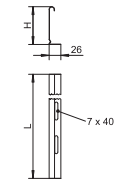
Separating retainer for separation of cables of different voltages or functions.

St FS DD

## Separating retainer 135

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 135 FS | 135 | 0.75 | 3000 | 3 | 99.800 | 6062132 |
| TSG 135 DD | 135 | 0.75 | 3000 | 3 | 100.000 | 6062338 |

Separating retainer for separation of cables of different voltages or functions.



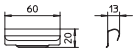



VA 2B

## Separating retainer connector

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| TSGV A2 | 10 | 0.899 | 6067970 |

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



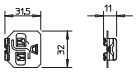



VA 2B

## Hold-down clamp for separating retainer fastening

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KS KL A2 | 30 | 0.512 | 6062284 |

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.



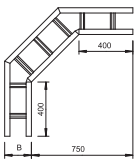


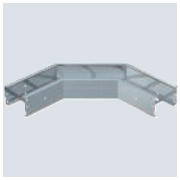

St FT

## 90° bend 200

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| WLB 90 2020 FT | 200 | 2.5 | 1 | 1,881.000 | 6233422 |
| WLB 90 2030 FT | 300 | 2.5 | 1 | 2,060.000 | 6233430 |
| WLB 90 2040 FT | 400 | 2.5 | 1 | 2,241.000 | 6233449 |
| WLB 90 2050 FT | 500 | 2.5 | 1 | 2,421.000 | 6233457 |
| WLB 90 2060 FT | 600 | 2.5 | 1 | 2,600.000 | 6233465 |

For further stabilisation, additional supports should be planned for the area of the fittings.
90° bend, horizontal, for all wide span cable ladders of 200 mm side height.



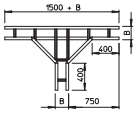



St FT

## T branch piece 200

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| WLT 2020 FT | 200 | 2.5 | 1 | 3,372.000 | 6233627 |
| WLT 2030 FT | 300 | 2.5 | 1 | 3,580.000 | 6233635 |
| WLT 2040 FT | 400 | 2.5 | 1 | 3,787.000 | 6233643 |
| WLT 2050 FT | 500 | 2.5 | 1 | 4,089.000 | 6233651 |
| WLT 2060 FT | 600 | 2.5 | 1 | 4,308.000 | 6233678 |

For further stabilisation, additional supports should be planned for the area of the fittings.
T piece, horizontal, for all wide span cable ladders of 200 mm side height.







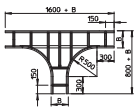

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# WKLG wide span cable ladder system, side height 200

## T branch piece 160

A4 2B






| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WLT 1620 A4** | 200 | 2 | 1 | 2,249.000 | **6229820** |
| **WLT 1630 A4** | 300 | 2 | 1 | 2,452.000 | **6229822** |
| **WLT 1640 A4** | 400 | 2 | 1 | 2,604.000 | **6229824** |
| **WLT 1650 A4** | 500 | 2 | 1 | 2,756.000 | **6229826** |
| **WLT 1660 A4** | 600 | 2 | 1 | 2,907.000 | **6229828** |

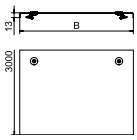
For further stabilisation, additional supports should be planned for the area of the fittings.
Horizontal T branch piece, for all wide span cable ladders of 160 mm side height.

# System accessories

## Cover with turn buckle

St FS DD





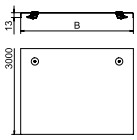

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **WDRL 1116 20 FS** | 200 | 1.00 | 3000 | 3 | 181.340 | **6227422** |
| **WDRL 1116 30 FS** | 300 | 1.00 | 3000 | 3 | 259.670 | **6227430** |
| **WDRL 1116 40 FS** | 400 | 1.00 | 3000 | 3 | 516.670 | **6227449** |
| **WDRL 1116 50 FS** | 500 | 1.50 | 3000 | 3 | 623.000 | **6227457** |
| **WDRL 1116 60 FS** | 600 | 1.50 | 3000 | 3 | 741.000 | **6227465** |
| **WDRL 1116 20 DD** | 200 | 1.00 | 3000 | 3 | 185.000 | **6227600** |
| **WDRL 1116 30 DD** | 300 | 1.00 | 3000 | 3 | 263.340 | **6227604** |
| **WDRL 1116 40 DD** | 400 | 1.00 | 3000 | 3 | 505.000 | **6227608** |
| **WDRL 1116 50 DD** | 500 | 1.50 | 3000 | 3 | 626.670 | **6227612** |
| **WDRL 1116 60 DD** | 600 | 1.50 | 3000 | 3 | 744.333 | **6227616** |

Cover with turn buckles for wide span cable trays and wide span cable ladders with side heights of 110 and 160 mm.
Take appropriate constructive protection measures if there are high wind speeds.
Transverse bead from 500 mm width.

## Cover with turn buckle

A2 2B





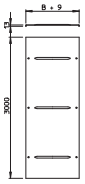

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **WDRL 1116 20 A2** | 200 | 1.50 | 3000 | 3 | 186.670 | **6227360** |
| **WDRL 1116 30 A2** | 300 | 1.50 | 3000 | 3 | 265.340 | **6227362** |
| **WDRL 1116 40 A2** | 400 | 1.50 | 3000 | 3 | 513.000 | **6227364** |
| **WDRL 1116 50 A2** | 500 | 1.50 | 3000 | 3 | 629.670 | **6227366** |
| **WDRL 1116 60 A2** | 600 | 1.50 | 3000 | 3 | 747.670 | **6227368** |

Cover for wide span trays and ladders with the side height 110 and 160 mm.
Take appropriate constructive protection measures if there are high wind speeds.
Transverse bead from 500 mm width.

A4 2B

## Cover with turn buckle

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **WDRL 1116 20 A4** | 200 | 1.50 | 3000 | 3 | 186.670 | **6227361** |
| **WDRL 1116 30 A4** | 300 | 1.50 | 3000 | 3 | 265.334 | **6227363** |
| **WDRL 1116 40 A4** | 400 | 1.50 | 3000 | 3 | 513.000 | **6227365** |
| **WDRL 1116 50 A4** | 500 | 1.50 | 3000 | 3 | 629.670 | **6227367** |
| **WDRL 1116 60 A4** | 600 | 1.50 | 3000 | 3 | 747.667 | **6227369** |



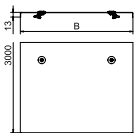



Cover for wide span trays and ladders with the side height 110 and 160 mm.
Cross beading from 500 mm width.
If a turn buckle is installed at a later time, the following dimensions of the drill hole arrangement should be maintained.

St DD

## Cover incl. turn buckles

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **WKLD 2020 DD** | 200 | 1.50 | 3000 | 3 | 188.000 | **6232402** |
| **WKLD 2030 DD** | 300 | 1.50 | 3000 | 3 | 266.670 | **6232404** |
| **WKLD 2040 DD** | 400 | 1.50 | 3000 | 3 | 427.670 | **6232406** |
| **WKLD 2050 DD** | 500 | 1.50 | 3000 | 3 | 527.340 | **6232408** |
| **WKLD 2060 DD** | 600 | 1.50 | 3000 | 3 | 673.340 | **6232410** |



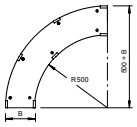


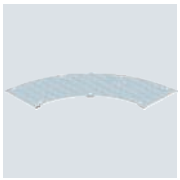

Cover for wide span ladders with the side height of 200 mm.
Take appropriate constructive protection measures if there are high wind speeds.
Transverse bead from 500 mm width.

St FS DD

## Cover for 90° bend WDBRL

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WDBRL 90 20 FS** | 200 | 1.00 | 1 | 164.900 | **6231462** |
| **WDBRL 90 30 FS** | 300 | 1.00 | 1 | 263.000 | **6231470** |
| **WDBRL 90 40 FS** | 400 | 1.00 | 1 | 449.000 | **6231489** |
| **WDBRL 90 50 FS** | 500 | 1.00 | 1 | 595.000 | **6231497** |
| **WDBRL 90 60 FS** | 600 | 1.00 | 1 | 758.000 | **6231500** |
| **WDBRL 90 20 DD** | 200 | 1.00 | 1 | 165.100 | **6231527** |
| **WDBRL 90 30 DD** | 300 | 1.00 | 1 | 270.000 | **6231535** |
| **WDBRL 90 40 DD** | 400 | 1.00 | 1 | 548.000 | **6231543** |
| **WDBRL 90 50 DD** | 500 | 1.00 | 1 | 724.000 | **6231551** |
| **WDBRL 90 60 DD** | 600 | 1.00 | 1 | 945.000 | **6231578** |



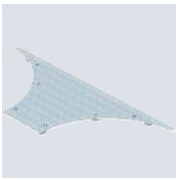
As the connector is mounted from the outside, the fitting cover is 300 mm shorter than the corresponding fitting. This must be considered when installing the track elements.
Cover for wide span 90° bend with pre-mounted turn buckles.

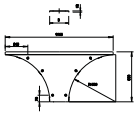


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## Cover for add-on tee WAAD

St FS DD





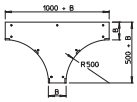
| Type | Width mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WAAD 200 FS** | 200 | 1.50 | 1 | 206.100 | **6231900** |
| **WAAD 300 FS** | 300 | 1.50 | 1 | 247.300 | **6231904** |
| **WAAD 400 FS** | 400 | 1.50 | 1 | 427.100 | **6231908** |
| **WAAD 500 FS** | 500 | 1.50 | 1 | 489.600 | **6231912** |
| **WAAD 600 FS** | 600 | 1.50 | 1 | 552.100 | **6231916** |
| **WAAD 200 DD** | 200 | 1.50 | 1 | 206.100 | **6231922** |
| **WAAD 300 DD** | 300 | 1.50 | 1 | 247.300 | **6231926** |
| **WAAD 400 DD** | 400 | 1.50 | 1 | 427.100 | **6231930** |
| **WAAD 500 DD** | 500 | 1.50 | 1 | 489.600 | **6231934** |
| **WAAD 600 DD** | 600 | 1.50 | 1 | 552.100 | **6231938** |

Cover for wide span add-on tee with pre-mounted turn buckles.

## Cover for WDTRL T branch piece

St DD





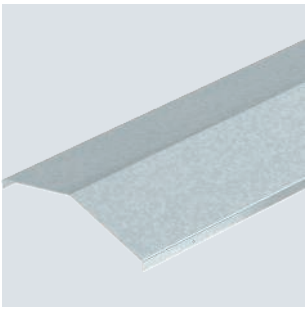

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WDTRL 200 DD** | 200 | 1.00 | 1 | 400.000 | **6231667** |
| **WDTRL 300 DD** | 300 | 1.00 | 1 | 550.000 | **6231675** |
| **WDTRL 400 DD** | 400 | 1.00 | 1 | 1,085.000 | **6231683** |
| **WDTRL 500 DD** | 500 | 1.25 | 1 | 1,419.200 | **6231691** |
| **WDTRL 600 DD** | 600 | 1.25 | 1 | 1,729.500 | **6231705** |

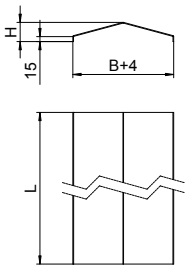
As the connector is mounted from the outside, the fitting cover is 300 mm shorter than the corresponding fitting. This must be considered when installing the track elements.

Cover for wide span T branch piece with pre-mounted turn buckles.

## Roof-form cover

St FT






| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **WDRLU DF1116 2FT** | 200 | 2.00 | 3000 | 3 | 380.000 | **6227261** |
| **WDRLU DF1116 3FT** | 300 | 2.00 | 3000 | 3 | 544.340 | **6227263** |
| **WDRLU DF1116 4FT** | 400 | 2.00 | 3000 | 3 | 707.000 | **6227265** |
| **WDRLU DF1116 5FT** | 500 | 2.00 | 3000 | 3 | 869.340 | **6227267** |
| **WDRLU DF1116 6FT** | 600 | 2.00 | 3000 | 3 | 1,032.000 | **6227269** |

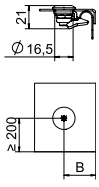
The screws are not included in the scope of delivery.

Roof-shaped cover for installing on cable trays, cable ladders and wide span systems. Self-tapping drilling screws are used for fastening.

## Turn buckle for screwing

A2 2B






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **DRL H S A2** | 20 | 3.260 | **6065016** |

Turn buckle for additional mounting or mounting at a later date.

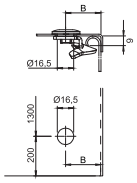
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm

Single-sided turn buckle. Use for cover widths of 100–600 mm.

St FT

## Turn buckle for riveting

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| DRL H FT | 20 | 2.187 | 6065012 |






Turn buckle for additional installation or installation at a later date.

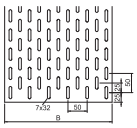
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm

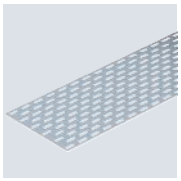
Single-sided turn buckle. Use for cover widths of 100–600 mm.

St FS FT

## ELB-L insertion plate

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| ELB-L 20 FS | 200 | 1.00 | 3000 | 3 | 88.500 | 6103235 |
| ELB-L 30 FS | 300 | 1.00 | 3000 | 3 | 137.400 | 6103251 |
| ELB-L 40 FS | 400 | 1.00 | 3000 | 3 | 186.300 | 6103286 |
| ELB-L 50 FS | 500 | 1.00 | 3000 | 3 | 235.200 | 6103316 |
| ELB-L 60 FS | 600 | 1.00 | 3000 | 3 | 285.070 | 6103332 |
| ELB-L 20 FT | 200 | 1.00 | 3000 | 3 | 100.240 | 6103421 |
| ELB-L 30 FT | 300 | 1.00 | 3000 | 3 | 155.640 | 6103448 |
| ELB-L 40 FT | 400 | 1.00 | 3000 | 3 | 211.040 | 6103456 |
| ELB-L 50 FT | 500 | 1.00 | 3000 | 3 | 269.740 | 6103464 |
| ELB-L 60 FT | 600 | 1.00 | 3000 | 3 | 322.870 | 6103480 |



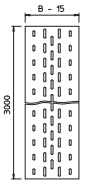



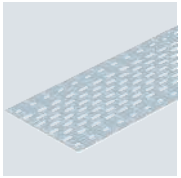
Insert plate for use in cable ladders.
For fastening in wide span cable ladders, use truss-head bolts with combination nut of type FR SB 6x30.

St DD

## ELB-L insertion plate

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| ELB-L 20 DD | 200 | 1.00 | 3000 | 3 | 88.500 | 6103352 |
| ELB-L 30 DD | 300 | 1.00 | 3000 | 3 | 137.400 | 6103356 |
| ELB-L 40 DD | 400 | 1.00 | 3000 | 3 | 186.300 | 6103360 |
| ELB-L 50 DD | 500 | 1.00 | 3000 | 3 | 235.200 | 6103364 |
| ELB-L 60 DD | 600 | 1.00 | 3000 | 3 | 285.180 | 6103368 |



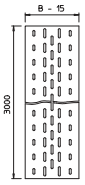



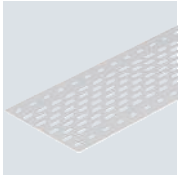
Insert plate for use in cable ladders.
For the fastening in wide span cable ladders use truss-head bolts with the combination nut of type FR SB 6x30.

A2 2B

## ELB-L insertion plate

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| ELB-L20 A2 | 200 | 1.00 | 3000 | 3 | 94.400 | 6103614 |
| ELB-L30 A2 | 300 | 1.00 | 3000 | 3 | 146.567 | 6103618 |
| ELB-L40 A2 | 400 | 1.00 | 3000 | 3 | 198.700 | 6103622 |
| ELB-L50 A2 | 500 | 1.00 | 3000 | 3 | 250.867 | 6103626 |
| ELB-L60 A2 | 600 | 1.00 | 3000 | 3 | 303.033 | 6103630 |



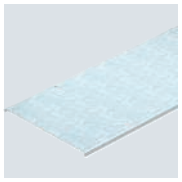
Insert plate for use in cable ladders.
For the fastening in wide span cable ladders use truss-head bolts with the combination nut of type FR SB 6x30.

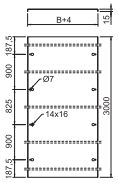


Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Cover for stand-off mounting

St FT






| Type | Width mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DRL FAM 230 FT** | 230 | 1.50 | 3000 | 3 | 319.240 | **6051222** |
| **DRL FAM 330 FT** | 330 | 1.50 | 3000 | 3 | 444.800 | **6051224** |
| **DRL FAM 430 FT** | 430 | 1.50 | 3000 | 3 | 570.370 | **6051226** |
| **DRL FAM 530 FT** | 530 | 1.50 | 3000 | 3 | 695.900 | **6051228** |
| **DRL FAM 630 FT** | 630 | 1.50 | 3000 | 3 | 821.470 | **6051230** |

Spacers must ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.

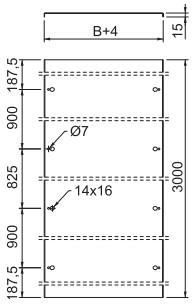
Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.

When using covers outdoors, additional measures against the influence of wind must be taken.

## Cover for stand-off mounting

A2 A4 2B






| Type | Width mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DRL FAM 230 A2** | 230 | 1.50 | 3000 | 3 | 299.370 | **6051192** |
| **DRL FAM 330 A2** | 330 | 1.50 | 3000 | 3 | 417.140 | **6051194** |
| **DRL FAM 430 A2** | 430 | 1.50 | 3000 | 3 | 534.870 | **6051196** |
| **DRL FAM 530 A2** | 530 | 1.50 | 3000 | 3 | 652.640 | **6051198** |
| **DRL FAM 630 A2** | 630 | 1.50 | 3000 | 3 | 770.370 | **6051200** |
| **DRL FAM 230 A4** | 230 | 1.50 | 3000 | 3 | 299.370 | **6051210** |
| **DRL FAM 330 A4** | 330 | 1.50 | 3000 | 3 | 417.140 | **6051212** |
| **DRL FAM 430 A4** | 430 | 1.50 | 3000 | 3 | 534.870 | **6051214** |
| **DRL FAM 530 A4** | 530 | 1.50 | 3000 | 3 | 652.640 | **6051216** |
| **DRL FAM 630 A4** | 630 | 1.50 | 3000 | 3 | 770.370 | **6051218** |

Spacers must be ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.

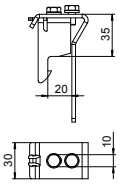
Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.

When using covers outdoors, additional measures against the influence of wind must be taken.

## Spacer for cover

A2 2B





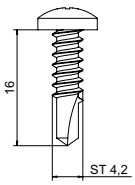

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **AH 35 WS A2** | 35 | 8 | 14.500 | **6065477** |

Spacer for stand-off mounting of covers on wide span cable trays and wide span cable ladders. Space height 35 mm, stainless steel 1.4301.

## Drilling screw

St G





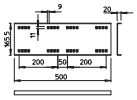

| Type | Dimen-sion mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **BS BKS KP** | 4,2x16 | 100 | 0.180 | **6049250** |

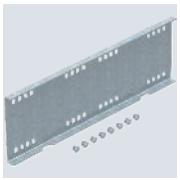
Drilling screw to fasten components to the stand-offs of the walkable cable tray system. Corresponds to DIN 7504.

St FT SO

## 160 FT SOMY straight connector

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRVL 160 FT SO** | 160 | 2 | 221.000 | **6227732** |



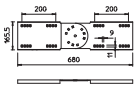
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 160 mm.

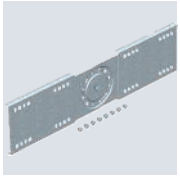
Including appropriate bolts, washers and nuts.

St FT SO

## Articulated connector 160 FT SOMY

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WRGV 160 FT SO** | 160 | 2 | 316.700 | **7189220** |



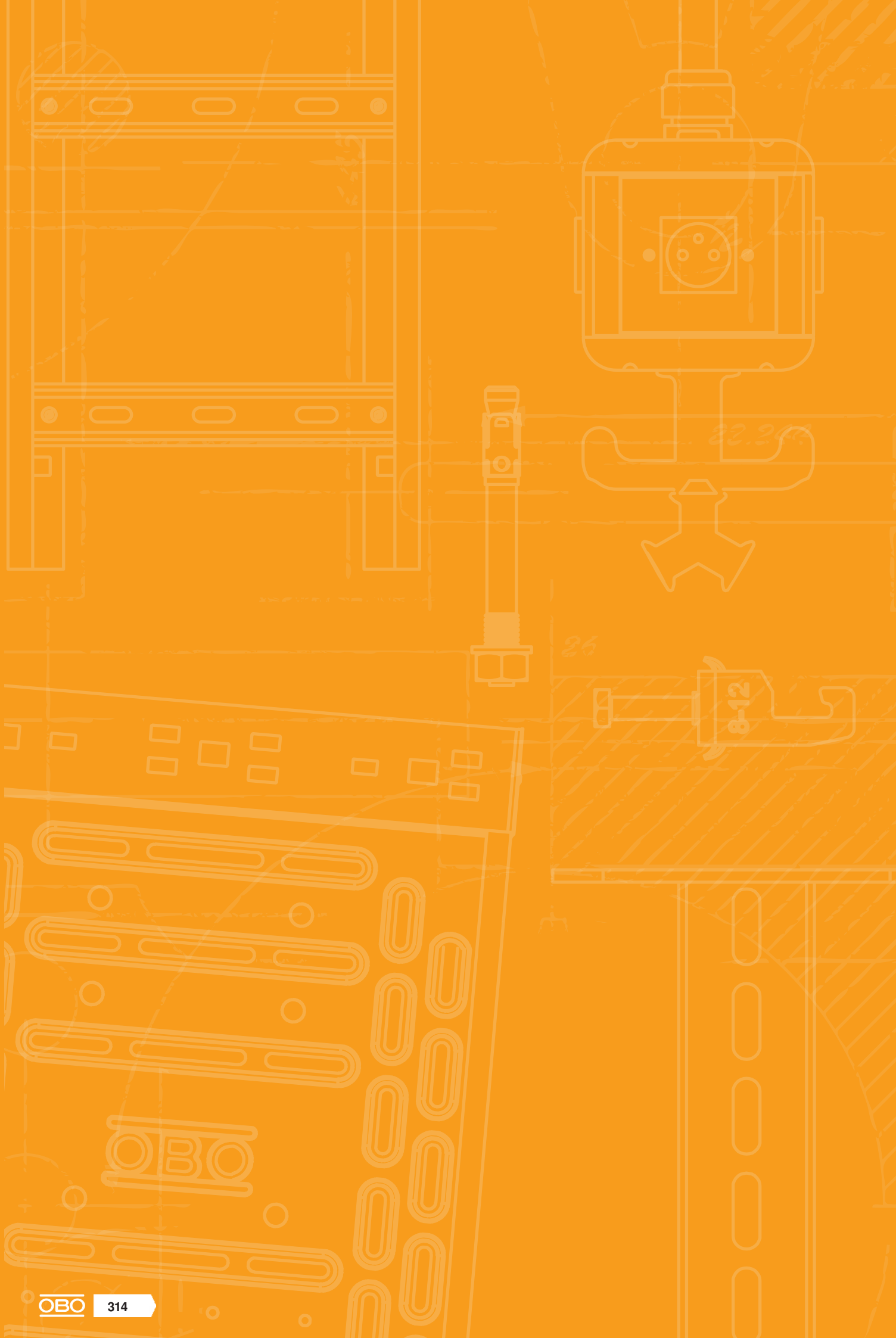



Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.

Including appropriate bolts, washers and nuts.



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

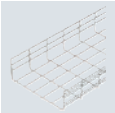

OBO

# Mesh cable trays

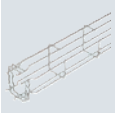


Side height 35 mm 314


Side height 55 mm 328


Side height 105 mm 340


C mesh cable tray 350


G mesh cable tray 356


System accessories, mesh cable tray systems 374

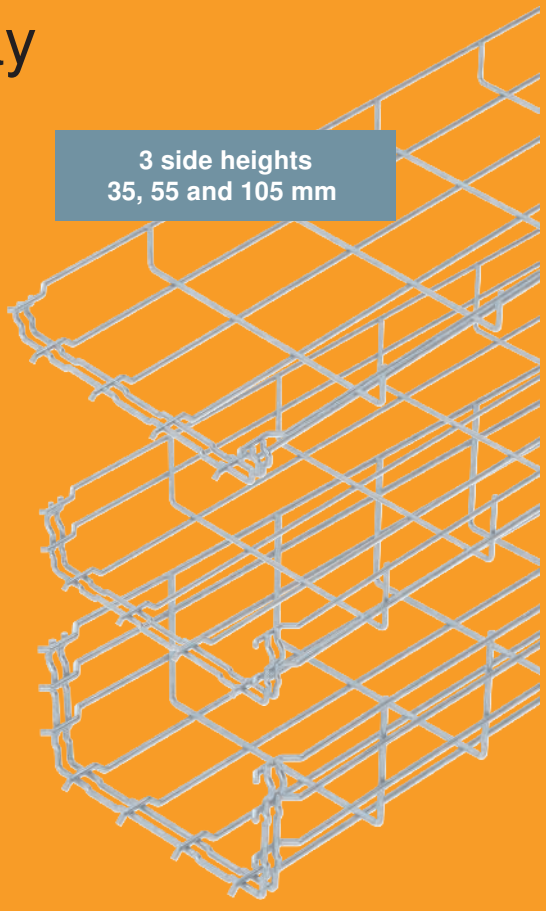



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04



# GR-Magic® mesh cable tray

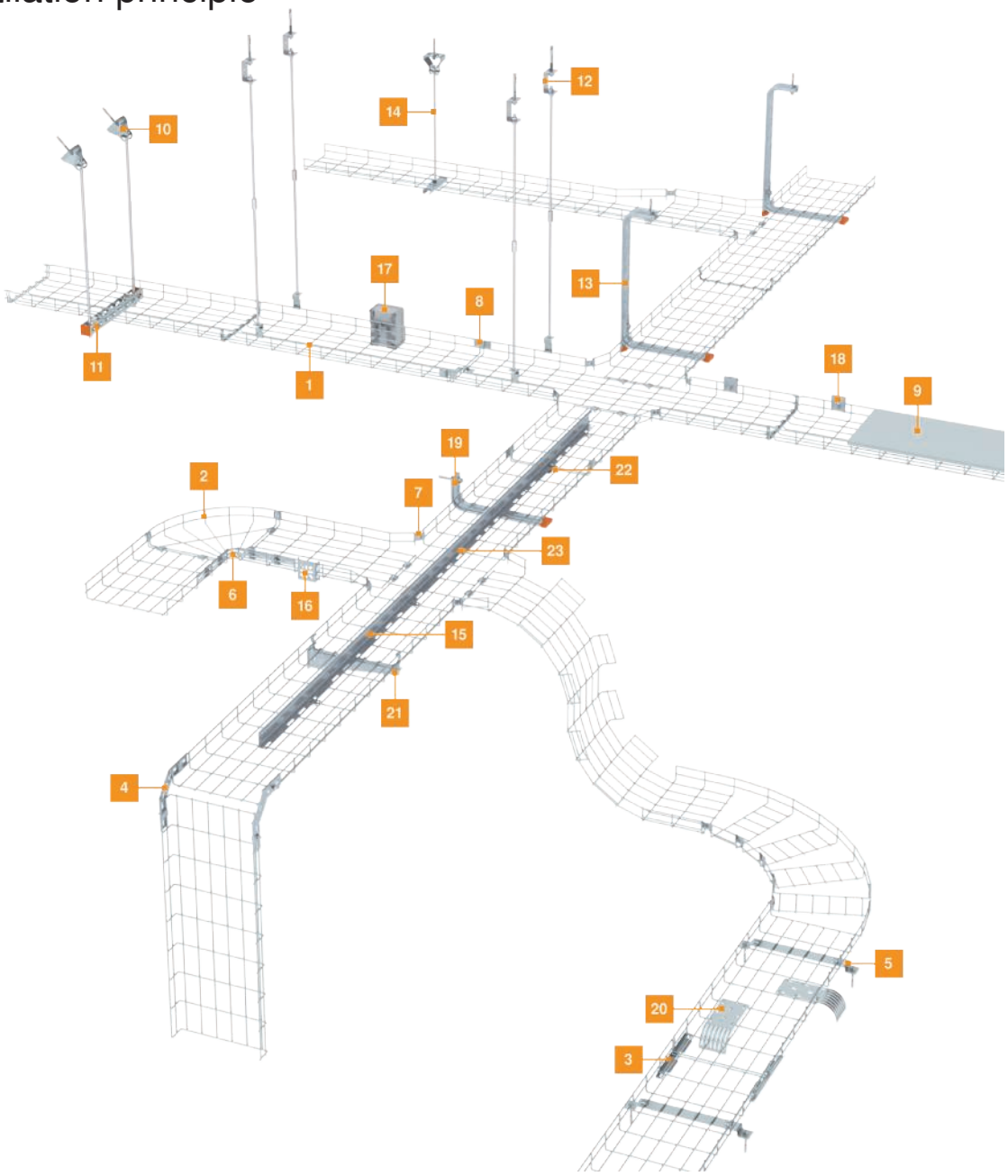
The GR-Magic® mesh cable tray system with shaped connector for screwless quick mounting guarantees the shortest possible mounting times, even for complex installation operations.




- Fast and secure connection through plug connection
- Locking system accessory, such as the barrier strips
- Maintenance of electrical function, tested
- Equipotential bonding without additional components
- VDE and UL approved mesh cable tray system

# GR-Magic® mesh cable tray

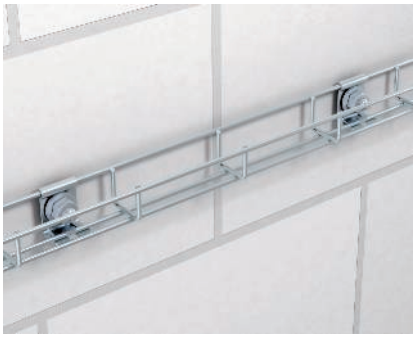
## Installation principle



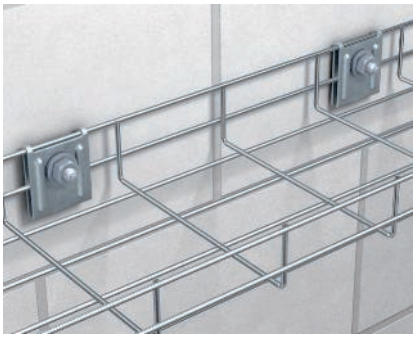

| | | | |
|---|---|---|---|
| 1 | GR-Magic mesh cable tray | 13 | TP suspended support |
| 2 | 90° mesh cable tray bend | 14 | Centre suspension, GMS |
| 3 | Mesh cable tray connector, long | 15 | Barrier strip |
| 4 | 90° mounting bracket | 16 | Mounting plate |
| 5 | Stand-off bracket | 17 | Fastening element for junction box |
| 6 | Slotted steel strap, bent | 18 | Wall and ceiling bracket |
| 7 | Corner connector | 19 | Wall and support bracket TPSAG |
| 8 | Joint connector | 20 | Cable exit plate |
| 9 | Cover, unperforated | 21 | AWG 15 wall and support bracket |
| 10 | Ceiling clamp, variable | 22 | Hold-down clamp for barrier strip fastening |
| 11 | Mounting rail, MS 41 | 23 | Barrier strip connector |
| 12 | Ceiling bracket | | |

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Mounting aid



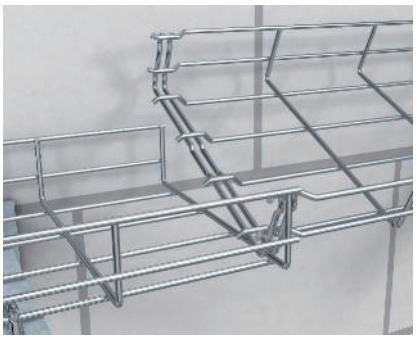
**Wall mounting GRM 35 50**
Wall mounting for direct wall fastening of mesh cable trays GRM 35 50.



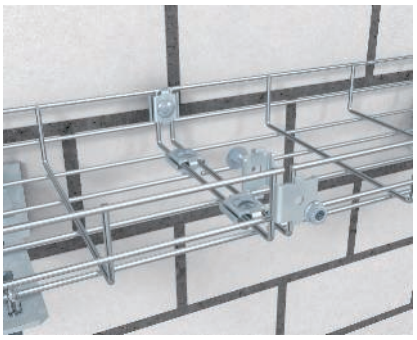
**Wall mounting of mesh cable trays**
Wall mounting of mesh cable trays with wall bracket, type K 12 1818. Maximum mesh cable tray width 200 mm.



**Wall and floor fastener WB GR**
Fastening component for direct mounting of mesh cable trays to the wall and floor. Can be screwed or riveted on. Suitable for wire thickness of 3.9 mm.



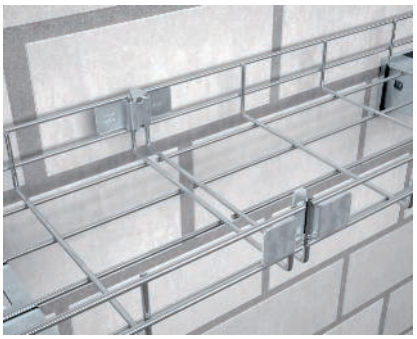
**Straight connection of Magic® mesh cable tray**
Creation of a screwless straight connection of the mesh cable tray, type GR-Magic®, by interconnecting two stock lengths.



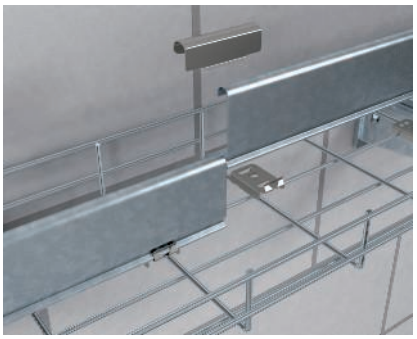
**Screwed straight connection of mesh cable trays**
Creation of a screwed straight connection of mesh cable trays with joint connectors, type GSV 34.



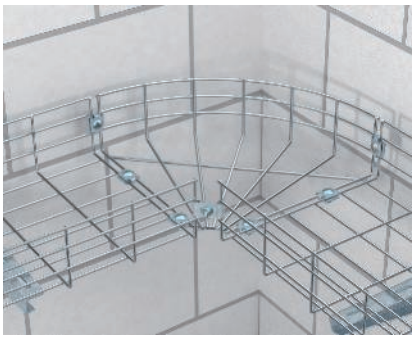
**Screwless straight connection with quick connectors**
Creation of a screwless straight connection of mesh cable trays using a quick connector, type GRV.



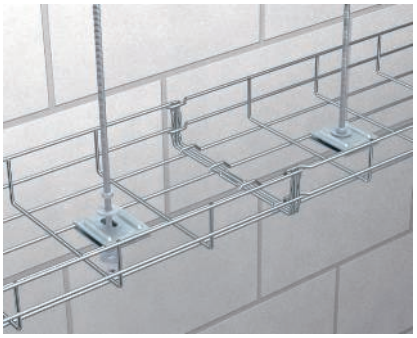
**Screwless straight connection of mesh cable trays**
Creation of a screwless straight connection of mesh cable trays with joint connectors, type GRS.



**Screwless barrier strip fastening**
Screwless fastening of a barrier strip in mesh cable trays with hold-down clamp, type KS GR. The screwless straight connection of the barrier strip is made using the barrier strip connector TSGV.



**Installation of a mesh cable tray bend**
Mounting of a mesh cable tray bend, type GRB 90.



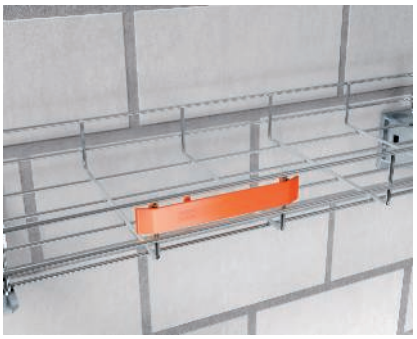
**Centre suspension**
Suspension of a mesh cable tray using a threaded rod, type 2078, and a wall and floor fastener, type K12 1818. Use with widths of up to 200 mm.



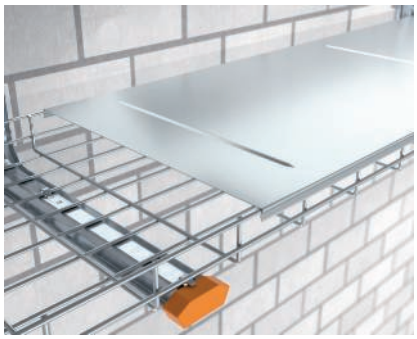
**Side holder**
Installation of the conduit take off bracket, type SH KAB, for accepting cable glands.



**Mounting plate**
Screwless quick fastening of the mounting plate, type MP UNI.



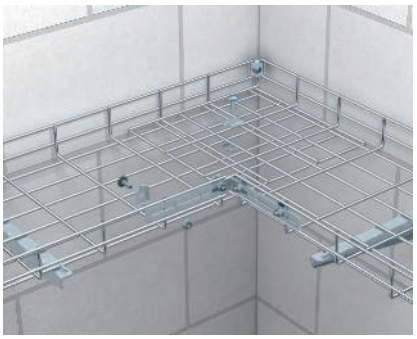
**Identification plate**
Mounting of the identification plate, type KS-GR, in the side rail of the mesh cable tray.



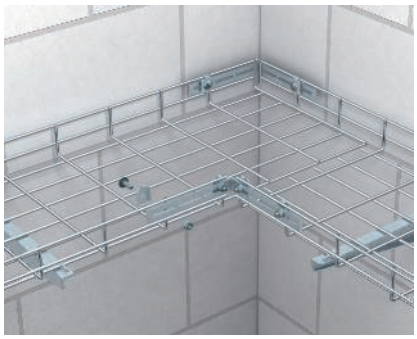
**Cover mounting**
Cover with snap-on function for easy locking to the mesh cable tray.



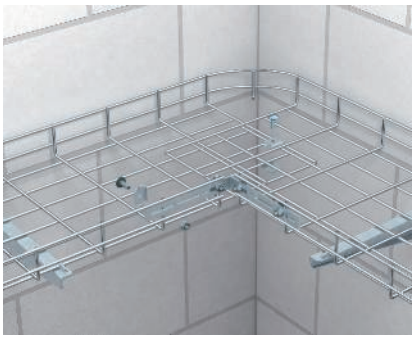
**Installation of mesh angle**
Fastening of the mesh angle, type GW 40/80, to steel girders using beam clamps, type KL 20 or KL 30.



**Creation of a mesh cable tray bend – angular, overlapping**
After the mesh cable trays have been cut to size, they can, together with joint connectors, type GSV 34, and a bent slotted steel strap, be installed overlapping to form an angular mesh cable tray bend.



**Creation of a mesh cable tray bend – angular**
After the mesh cable trays have been cut to size, they can, together with joint connectors, type GSV 34, and a bent slotted steel strap, be installed as a non-overlapping, angular mesh cable tray bend.



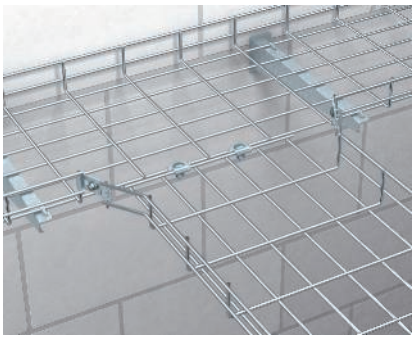
**Creation of a mesh cable tray bend – round, overlapping**
After the mesh cable trays have been cut to size, they can, together with joint connectors, type GSV 34, and a bent slotted steel strap, be installed overlapping to form a round mesh cable tray bend.



**Creation of a mesh cable tray bend - round**
Cutting out every second grid allows the creation of mesh cable tray bends with a larger radius. Fixing takes place using corner connectors, type GEV 36.



**Rising and falling bends**
Rising and falling vertical bends can be created by cutting into every second grid of the mesh cable tray edge and bending the mesh cable tray accordingly.

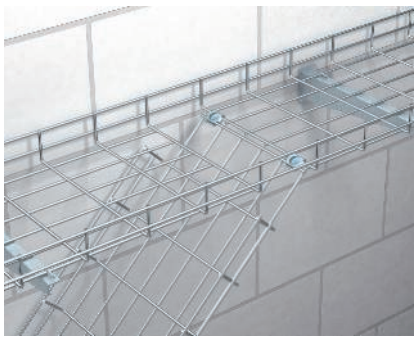


**Creation of a mesh cable tray tee**
After cutting the side rails and bending the straps, the corner connector, type GEV 36, and the joint connector, type GSV 34, can be used to create tees.

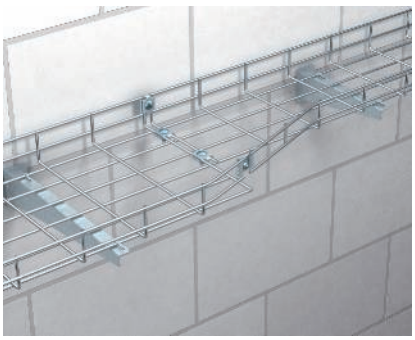
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**Creation of a mesh cable tray cross-over**
After cutting the side rails and bending the straps, the corner connector, type GEV 36, and the joint connector, type GSV 34, can be used to create cross-overs.



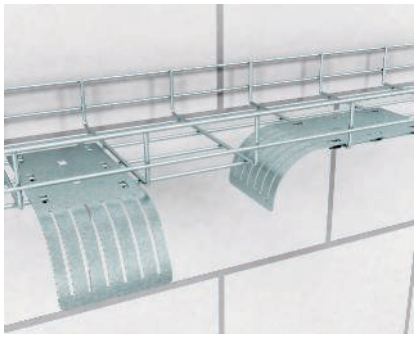
**Creation of a vertical exit**
After cutting the mesh cable tray base, the vertically branching, cut mesh cable tray can be fixed using the joint connector, type GSV 34.



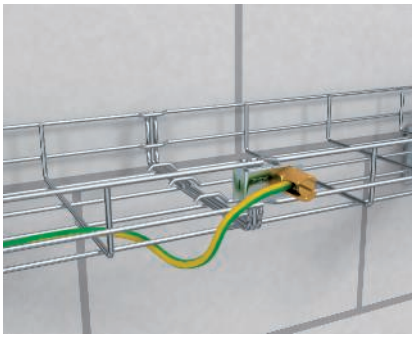
**Creation of a reduction**
Reductions are possible by single-sided cutting of the different mesh cable tray widths, bending the flaps in the required direction and using the corner connectors, type GEV 36, and the joint connector, type GSV 34.



**Mesh cable tray with cable exit plate**
Cable exit plate for screwless mounting in mesh cable trays. The cable exit plate allows maintenance of pre-specified bend radii.



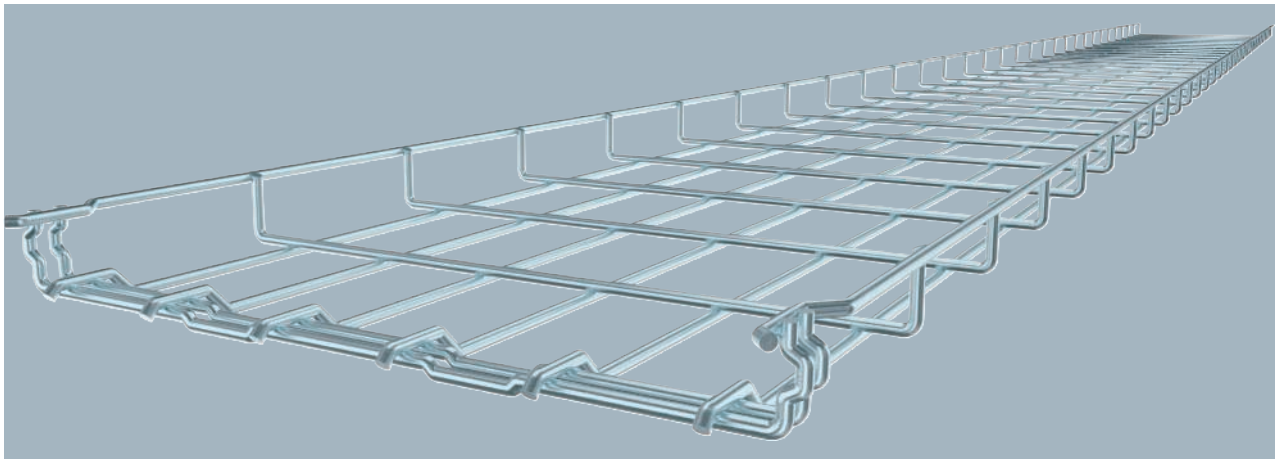
**Mesh cable tray with cable exit plate**
The cable exit plate can be installed in lengthwise and transverse directions.



**Earthing terminal/earth connection**
Earthing terminal for fastening the equipotential bonding wire to the cable support system.

St G

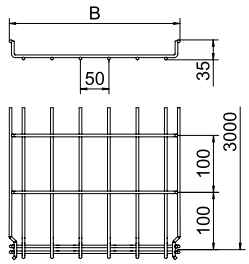
## Mesh cable tray GR-Magic® 35



Mesh cable tray with shaped connector of side height 35 mm.

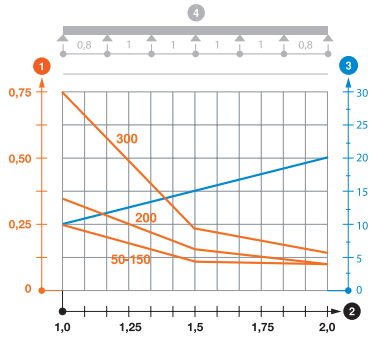
| Type | Width mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **GRM 35 50 G** | 50 | 3.9 | 3 | 45.000 | **6000060** |
| **GRM 35 100 G** | 100 | 3.9 | 3 | 50.333 | **6000062** |
| **GRM 35 150 G** | 150 | 3.9 | 3 | 63.333 | **6000063** |
| **GRM 35 200 G** | 200 | 3.9 | 3 | 76.667 | **6000064** |
| **GRM 35 300 G** | 300 | 4.8 | 3 | 159.000 | **6000066** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| GRM 35 50 G | 3000 | 52 | 17.5 |
| GRM 35 100 G | 3000 | 100 | 35 |
| GRM 35 150 G | 3000 | 150 | 52.5 |
| GRM 35 200 G | 3000 | 200 | 70 |
| GRM 35 300 G | 3000 | 300 | 105 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m |
|---|---|---|---|
| **GRM 35 50 G** | 0.25 | 0.11 | 0.1 |
| **GRM 35 100 G** | 0.25 | 0.11 | 0.1 |
| **GRM 35 150 G** | 0.25 | 0.11 | 0.1 |
| **GRM 35 200 G** | 0.3 | 0.14 | 0.1 |
| **GRM 35 300 G** | 0.75 | 0.22 | 0.15 |

**Load diagram, GR-Magic mesh cable tray, type GRM 35**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

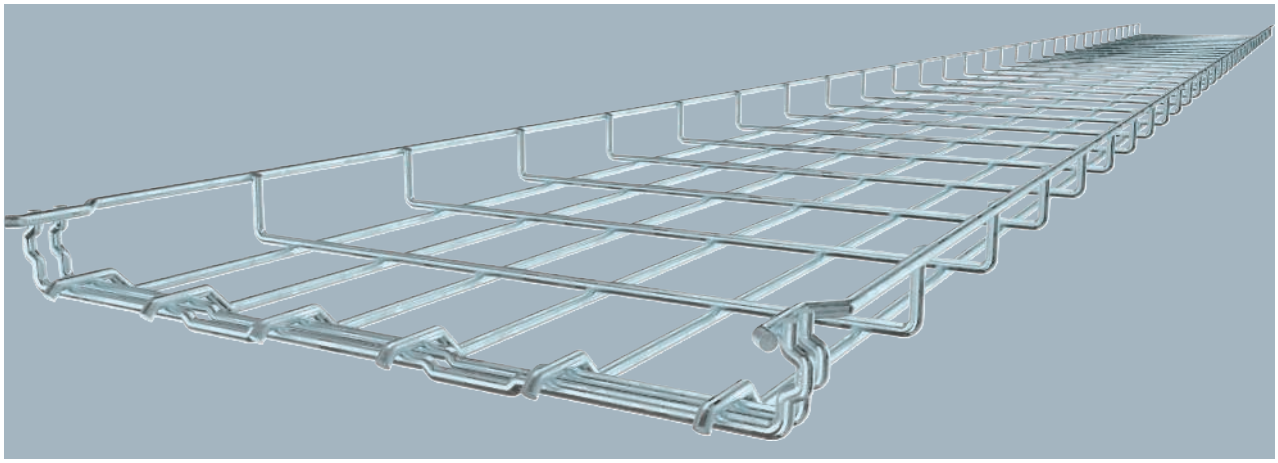


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# Mesh cable tray side height 35

## Mesh cable tray GR-Magic® 35

St FT



| Type | Width mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **GRM 35 50 FT** | 50 | 3.9 | 3 | 46.000 | **6000069** |
| **GRM 35 100 FT** | 100 | 3.9 | 3 | 50.333 | **6000071** |
| **GRM 35 150 FT** | 150 | 3.9 | 3 | 64.333 | **6000072** |
| **GRM 35 200 FT** | 200 | 3.9 | 3 | 78.333 | **6000073** |
| **GRM 35 300 FT** | 300 | 4.8 | 3 | 165.333 | **6000075** |

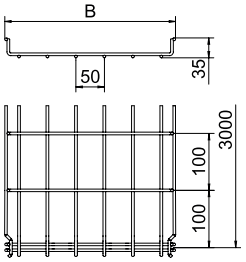
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 35/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 35 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

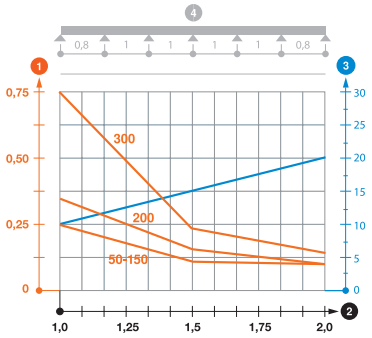
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| GRM 35 50 FT | 3000 | 52 | 17.5 |
| GRM 35 100 FT | 3000 | 100 | 35 |
| GRM 35 150 FT | 3000 | 150 | 52.5 |
| GRM 35 200 FT | 3000 | 200 | 70 |
| GRM 35 300 FT | 3000 | 300 | 105 |

### Dimensions




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m |
|---|---|---|---|
| **GRM 35 50 FT** | 0.25 | 0.11 | 0.1 |
| **GRM 35 100 FT** | 0.25 | 0.11 | 0.1 |
| **GRM 35 150 FT** | 0.25 | 0.11 | 0.1 |
| **GRM 35 200 FT** | 0.3 | 0.14 | 0.3 |
| **GRM 35 300 FT** | 0.75 | 0.22 | 0.15 |

### Load




**Load diagram, GR-Magic mesh cable tray, type GRM 35**

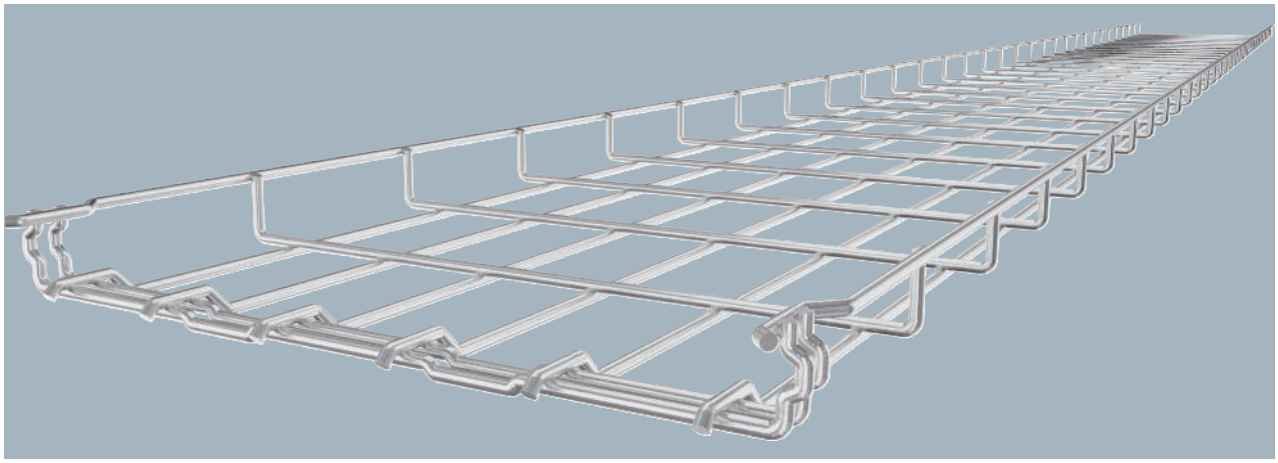
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

## Mesh cable tray GR-Magic®



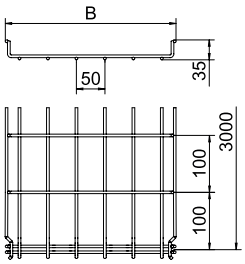
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 35/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 35 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

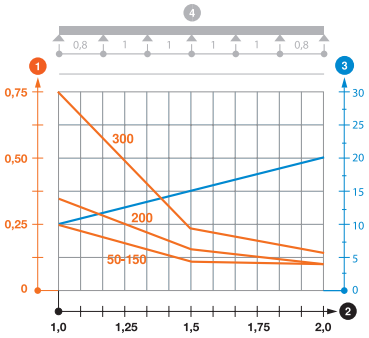
| Type | Width mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **GRM 35 50 A2** | 50 | 3.9 | 3 | 45.000 | **6000054** |
| **GRM 35 100 A2** | 100 | 3.9 | 3 | 49.000 | **6000055** |
| **GRM 35 150 A2** | 150 | 3.9 | 3 | 63.333 | **6000056** |
| **GRM 35 200 A2** | 200 | 3.9 | 3 | 76.000 | **6000057** |
| **GRM 35 300 A2** | 300 | 4.8 | 3 | 159.000 | **6000059** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| GRM 35 50 A2 | 3000 | 52 | 17.5 |
| GRM 35 100 A2 | 3000 | 100 | 35 |
| GRM 35 150 A2 | 3000 | 150 | 52.5 |
| GRM 35 200 A2 | 3000 | 200 | 70 |
| GRM 35 300 A2 | 3000 | 300 | 105 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m |
|---|---|---|---|
| **GRM 35 50 A2** | 0.25 | 0.11 | 0.1 |
| **GRM 35 100 A2** | 0.25 | 0.11 | 0.1 |
| **GRM 35 150 A2** | 0.25 | 0.11 | 0.1 |
| **GRM 35 200 A2** | 0.3 | 0.14 | 0.1 |
| **GRM 35 300 A2** | 0.75 | 0.22 | 0.15 |

**Load diagram, GR-Magic mesh cable tray, type GRM 35**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

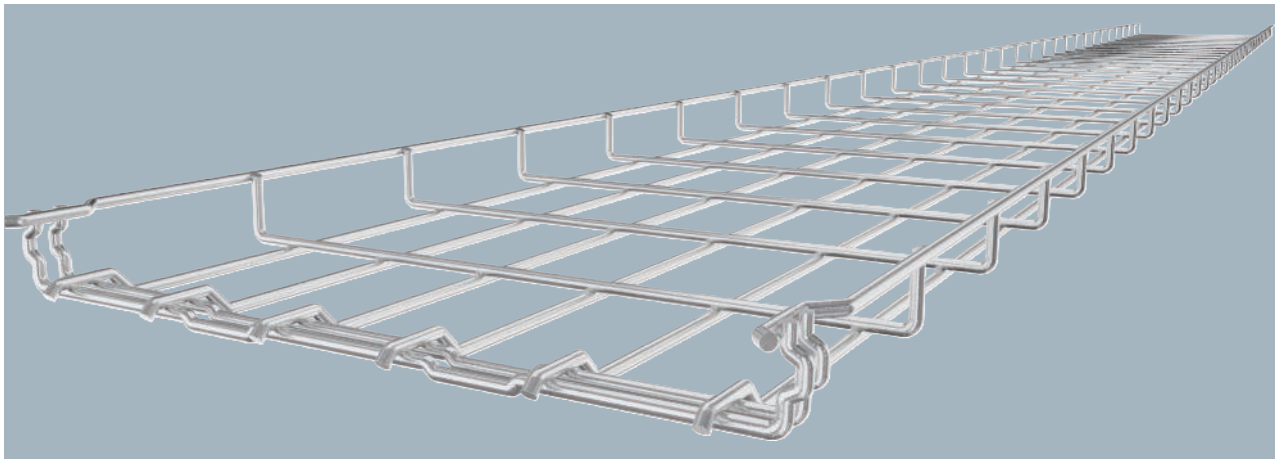
— Strut bend curve according to support width



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VA 2B

## Mesh cable tray GR-Magic® 35



| Type | Width mm | Wire Ø mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **GRM 35 50 A4** | 50 | 3.9 | | 3 | 45.000 | **6000086** |
| **GRM 35 100 A4** | 100 | 3.9 | | 3 | 49.000 | **6000087** |
| **GRM 35 150 A4** | 150 | 3.9 | | 3 | 63.333 | **6000089** |
| **GRM 35 200 A4** | 200 | 3.9 | | 3 | 76.000 | **6000090** |
| **GRM 35 300 A4** | 300 | 4.8 | | 3 | 159.000 | **6000091** |

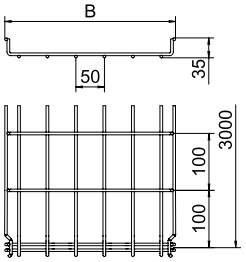
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 35/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 35 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

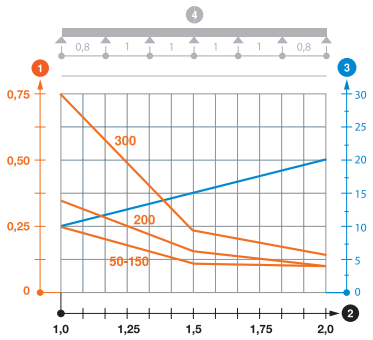
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| GRM 35 50 A4 | 3000 | 52 | 17.5 |
| GRM 35 100 A4 | 3000 | 100 | 35 |
| GRM 35 150 A4 | 3000 | 150 | 52.5 |
| GRM 35 200 A4 | 3000 | 200 | 70 |
| GRM 35 300 A4 | 3000 | 300 | 105 |

### Dimensions




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m |
|---|---|---|---|
| **GRM 35 50 A4** | 0.25 | 0.11 | 0.1 |
| **GRM 35 100 A4** | 0.25 | 0.11 | 0.1 |
| **GRM 35 150 A4** | 0.25 | 0.11 | 0.1 |
| **GRM 35 200 A4** | 0.3 | 0.14 | 0.1 |
| **GRM 35 300 A4** | 0.75 | 0.22 | 0.15 |

### Load




**Load diagram, GR-Magic mesh cable tray, type GRM 35**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

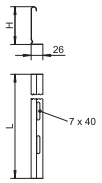
— Strut bend curve according to support width

St FS DD

## Separating retainer 30

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 30 FS | 30 | 0.75 | 3000 | 3 | 38.000 | 6062050 |
| TSG 30 DD | 30 | 0.75 | 3000 | 3 | 38.000 | 6062314 |

Separating retainer for separation of cables of different voltages or functions.



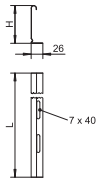



A2 2B

## Barrier strip 30

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 30 A2 | 30 | 0.75 | 3000 | 3 | 40.434 | 6062052 |

Barrier strip for separation of cables of different voltages or functions.



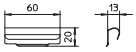



VA 2B

## Separating retainer connector

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| TSGV A2 | 10 | 0.899 | 6067970 |

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



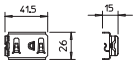



VA 2B

## Hold-down clamp for separating retainer fastening in GRM

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KS GR A2 | 30 | 0.830 | 6062282 |

Hold-down clamp for fastening separating retainer in mesh cable trays.



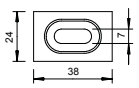


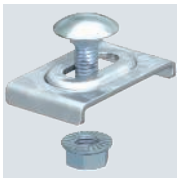

St G

## GKT 38 hold-down clamp

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GKT 38 G | 20 | 2.123 | 6017037 |

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



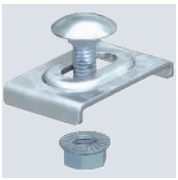


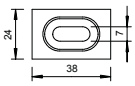
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# Mesh cable tray side height 35

## GKT 38 hold-down clamp

St FT





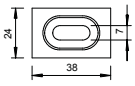

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GKT 38 FT | 20 | 2.123 | 6017061 |

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

## GKT 38 hold-down clamp

A2 VA 2B





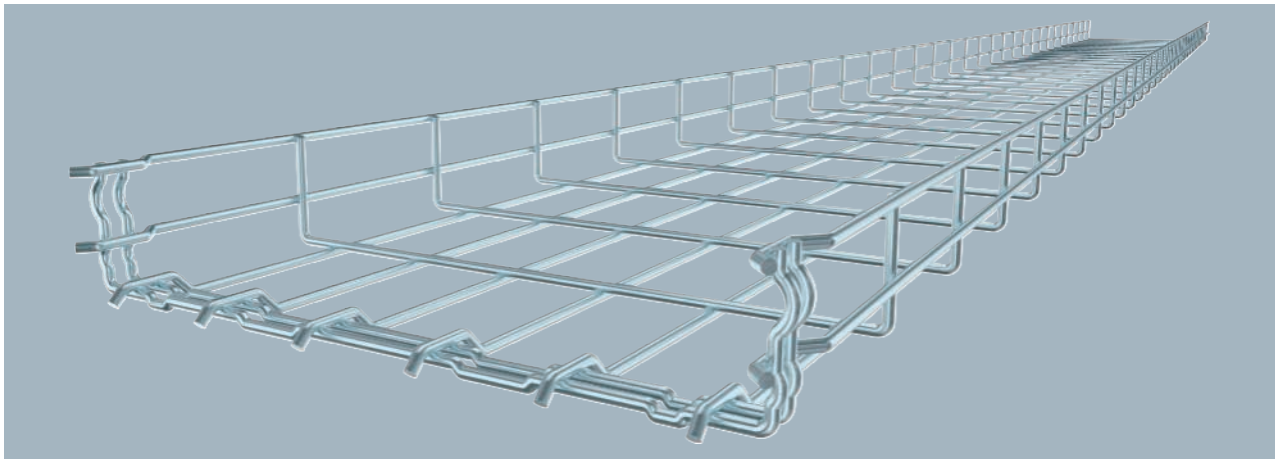

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GKT 38 A2 | 20 | 2.107 | 6017045 |
| GKT 38 A4 | 10 | 2.200 | 6017092 |

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

# Mesh cable tray side height 55

## GR-Magic® 55 mesh cable tray

St G



| Type | Width mm | Wire Ø mm | BS | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **GRM 55 50 G** | 50 | 3.9 | | 3 | 67.000 | **6001441** |
| **GRM 55 100 G** | 100 | 3.9 | | 3 | 72.000 | **6001442** |
| **GRM 55 150 G** | 150 | 3.9 | | 3 | 85.667 | **6001444** |
| **GRM 55 200 G** | 200 | 3.9 | | 3 | 100.667 | **6001446** |
| **GRM 55 200 4.8 G** | 200 | 4.8 | | 3 | 150.000 | **6001447** |
| **GRM 55 300 G** | 300 | 4.8 | | 3 | 192.333 | **6001448** |
| **GRM 55 400 G** | 400 | 4.8 | | 3 | 234.667 | **6001450** |
| **GRM 55 450 G** | 450 | 4.8 | | 3 | 241.333 | **6001451** |
| **GRM 55 500 G** | 500 | 4.8 | | 3 | 276.667 | **6001452** |
| **GRM 55 600 G** | 600 | 4.8 | | 3 | 320.000 | **6001454** |

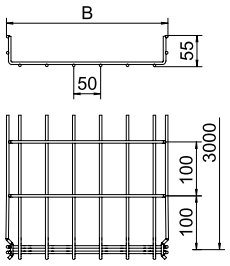
Mesh cable tray with shaped connector of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB. You can find detailed information regarding the UL classification in the respective certification.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm). Tested for the maintenance of electrical function according to DIN 4102 Part 12 (type: GRM 55 200 4.8 G, GRM 55 300 G, GRM 55 400 G, mounting work and parameters according to valid test certificate). Tested for installation above suspended fire protection ceilings (type: GRM 55 100 G, GRM 55 200 G, GRM 55 300 G, GRM 55 400 G, fire load 30 minutes, mounting work and parameters according to fire protection reports).

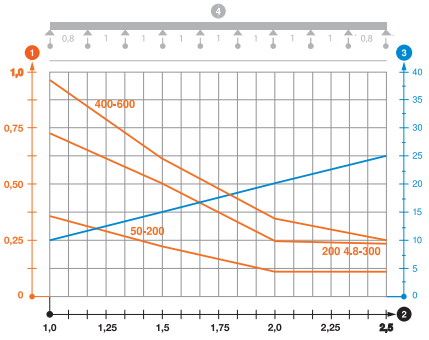
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| GRM 55 50 G | 3000 | 52 | 16 |
| GRM 55 100 G | 3000 | 100 | 40 |
| GRM 55 150 G | 3000 | 150 | 63 |
| GRM 55 200 G | 3000 | 200 | 87 |
| GRM 55 200 4.8 G | 3000 | 200 | 87 |
| GRM 55 300 G | 3000 | 300 | 129 |
| GRM 55 400 G | 3000 | 400 | 175 |
| GRM 55 450 G | 3000 | 450 | 195 |
| GRM 55 500 G | 3000 | 500 | 220 |
| GRM 55 600 G | 3000 | 600 | 265 |

### Dimensions




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|---|
| **GRM 55 50 G** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 100 G** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 150 G** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 200 G** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 200 4.8 G** | 0.7 | 0.5 | 0.25 | 0.2 |
| **GRM 55 300 G** | 0.7 | 0.5 | 0.25 | 0.2 |
| **GRM 55 400 G** | 0.9 | 0.6 | 0.3 | 0.25 |
| **GRM 55 450 G** | 0.9 | 0.6 | 0.3 | 0.25 |
| **GRM 55 500 G** | 0.9 | 0.6 | 0.3 | 0.25 |
| **GRM 55 600 G** | 0.9 | 0.6 | 0.3 | 0.25 |

### Load




**Load diagram, GR-Magic mesh cable tray, type GRM 55**

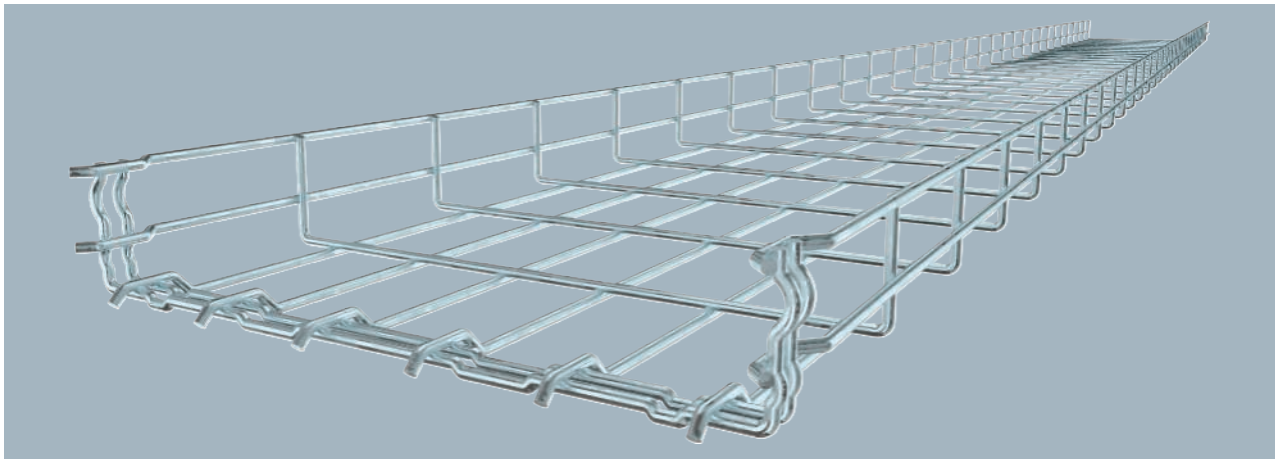
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

## Mesh cable tray GR-Magic® 55



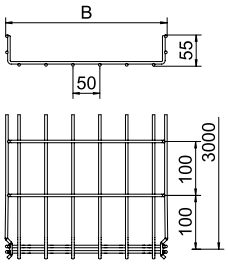
Mesh cable tray with shaped connector of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB. You can find detailed information regarding the UL classification in the respective certification.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

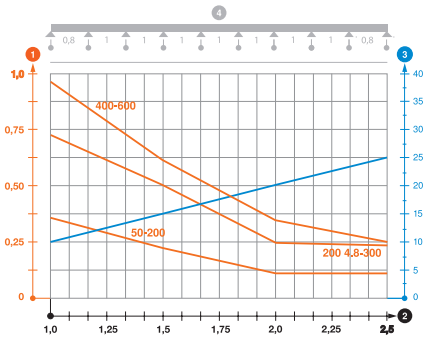
| Type | Width mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **GRM 55 50 FT** | 50 | 3.9 | 3 | 72.333 | **6001415** |
| **GRM 55 100 FT** | 100 | 3.9 | 3 | 74.667 | **6001416** |
| **GRM 55 150 FT** | 150 | 3.9 | 3 | 90.000 | **6001418** |
| **GRM 55 200 FT** | 200 | 3.9 | 3 | 102.000 | **6001420** |
| **GRM 55 200 4.8FT** | 200 | 4.8 | 3 | 156.667 | **6001421** |
| **GRM 55 300 FT** | 300 | 4.8 | 3 | 200.667 | **6001424** |
| **GRM 55 400 FT** | 400 | 4.8 | 3 | 245.000 | **6001428** |
| **GRM 55 500 FT** | 500 | 4.8 | 3 | 288.333 | **6001432** |
| **GRM 55 600 FT** | 600 | 4.8 | 3 | 331.333 | **6001436** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| GRM 55 50 FT | 3000 | 52 | 16 |
| GRM 55 100 FT | 3000 | 100 | 40 |
| GRM 55 150 FT | 3000 | 150 | 63 |
| GRM 55 200 FT | 3000 | 200 | 87 |
| GRM 55 200 4.8FT | 3000 | 200 | 87 |
| GRM 55 300 FT | 3000 | 300 | 129 |
| GRM 55 400 FT | 3000 | 400 | 175 |
| GRM 55 500 FT | 3000 | 500 | 220 |
| GRM 55 600 FT | 3000 | 600 | 265 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|---|
| **GRM 55 50 FT** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 100 FT** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 150 FT** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 200 FT** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 200 4.8FT** | 0.7 | 0.5 | 0.25 | 0.2 |
| **GRM 55 300 FT** | 0.7 | 0.5 | 0.25 | 0.2 |
| **GRM 55 400 FT** | 0.9 | 0.6 | 0.3 | 0.25 |
| **GRM 55 500 FT** | 0.9 | 0.6 | 0.3 | 0.25 |
| **GRM 55 600 FT** | 0.9 | 0.6 | 0.3 | 0.25 |

**Load diagram, GR-Magic mesh cable tray, type GRM 55**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

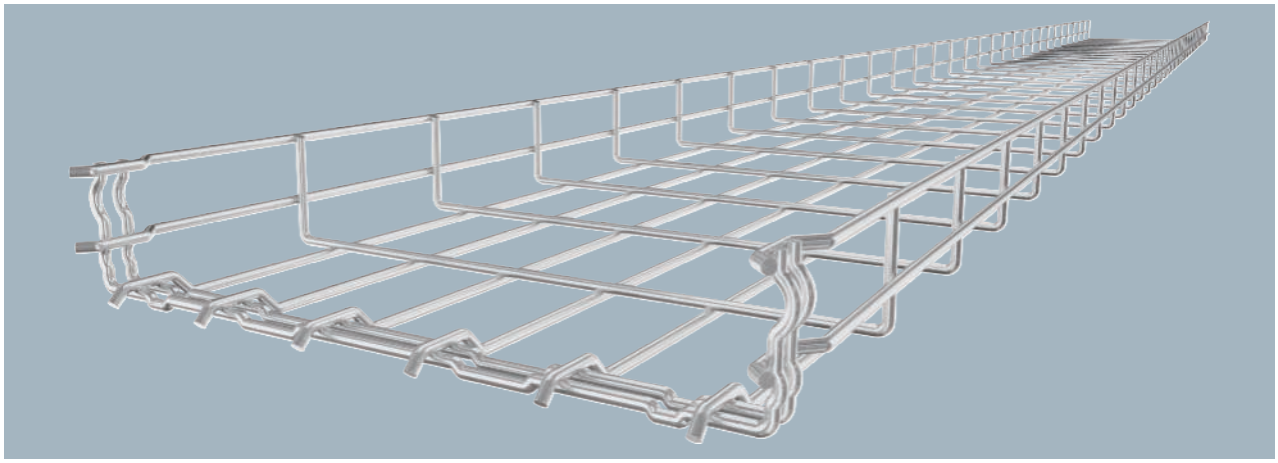
— Strut bend curve according to support width



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## Mesh cable tray GR-Magic® 55

A2 2B



| Type | Width mm | Wire Ø mm | BS | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **GRM 55 50 A2** | 50 | 3.9 | | 3 | 67.000 | **6001070** |
| **GRM 55 100 A2** | 100 | 3.9 | | 3 | 72.000 | **6001072** |
| **GRM 55 150 A2** | 150 | 3.9 | | 3 | 85.667 | **6001074** |
| **GRM 55 200 A2** | 200 | 3.9 | | 3 | 99.000 | **6001076** |
| **GRM 55 300 A2** | 300 | 4.8 | | 3 | 192.333 | **6001078** |
| **GRM 55 400 A2** | 400 | 4.8 | | 3 | 234.667 | **6001080** |
| **GRM 55 500 A2** | 500 | 4.8 | | 3 | 276.667 | **6001082** |
| **GRM 55 600 A2** | 600 | 4.8 | | 3 | 320.000 | **6001085** |

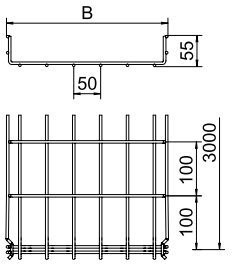
Mesh cable tray with shaped connector of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

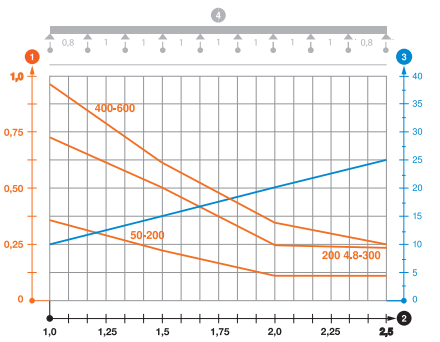
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| GRM 55 50 A2 | 3000 | 52 | 16 |
| GRM 55 100 A2 | 3000 | 100 | 40 |
| GRM 55 150 A2 | 3000 | 150 | 63 |
| GRM 55 200 A2 | 3000 | 200 | 87 |
| GRM 55 300 A2 | 3000 | 300 | 129 |
| GRM 55 400 A2 | 3000 | 400 | 175 |
| GRM 55 500 A2 | 3000 | 500 | 220 |
| GRM 55 600 A2 | 3000 | 600 | 265 |

**Dimensions**




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|---|
| **GRM 55 50 A2** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 100 A2** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 150 A2** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 200 A2** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 300 A2** | 0.7 | 0.5 | 0.25 | 0.2 |
| **GRM 55 400 A2** | 0.9 | 0.6 | 0.3 | 0.25 |
| **GRM 55 500 A2** | 0.9 | 0.6 | 0.3 | 0.25 |
| **GRM 55 600 A2** | 0.9 | 0.6 | 0.3 | 0.25 |

**Load**




**Load diagram, mesh cable tray GRM 55 VA**

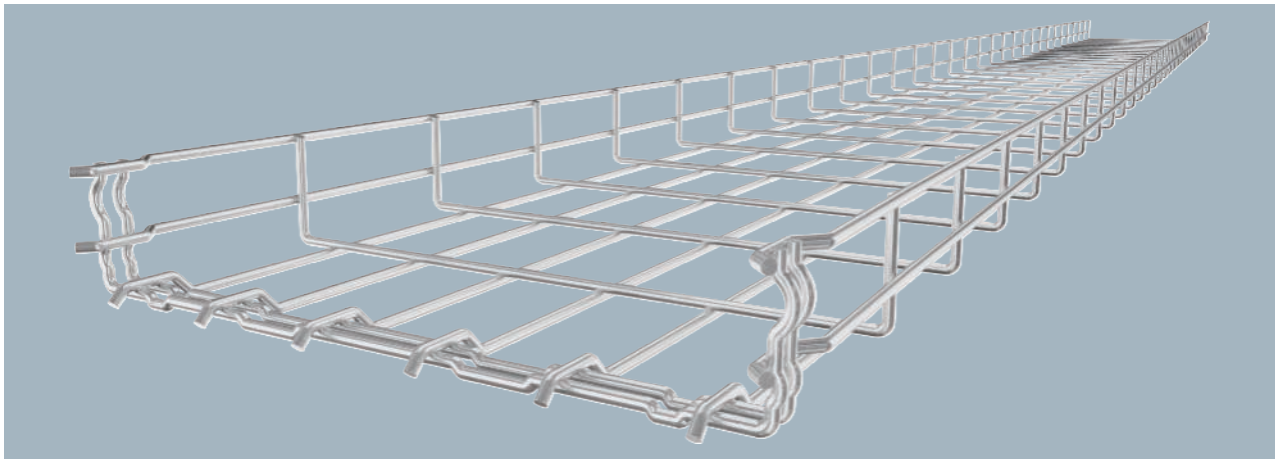
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

VA 2B

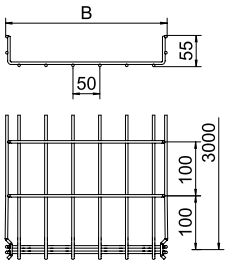
## Mesh cable tray GR-Magic® 55



Mesh cable tray with shaped connector of side height 55 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

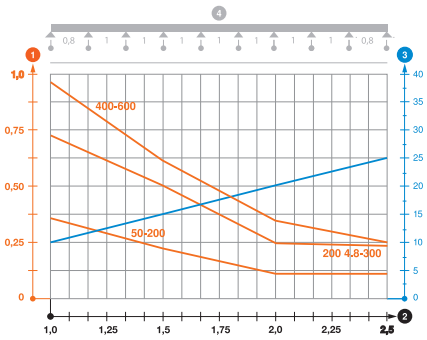
| Type | Width mm | Wire Ø mm | BS | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **GRM 55 50 A4** | 50 | 3.9 | | 3 | 67.000 | **6001087** |
| **GRM 55 100 A4** | 100 | 3.9 | | 3 | 72.000 | **6001088** |
| **GRM 55 150 A4** | 150 | 3.9 | | 3 | 85.667 | **6001090** |
| **GRM 55 200 A4** | 200 | 3.9 | | 3 | 99.000 | **6001091** |
| **GRM 55 300 A4** | 300 | 4.8 | | 3 | 192.333 | **6001093** |
| **GRM 55 400 A4** | 400 | 4.8 | | 3 | 234.667 | **6001095** |
| **GRM 55 500 A4** | 500 | 4.8 | | 3 | 276.667 | **6001097** |
| **GRM 55 600 A4** | 600 | 4.8 | | 3 | 320.000 | **6001099** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| GRM 55 50 A4 | 3000 | 52 | 16 |
| GRM 55 100 A4 | 3000 | 100 | 40 |
| GRM 55 150 A4 | 3000 | 150 | 63 |
| GRM 55 200 A4 | 3000 | 200 | 87 |
| GRM 55 300 A4 | 3000 | 300 | 129 |
| GRM 55 400 A4 | 3000 | 400 | 175 |
| GRM 55 500 A4 | 3000 | 500 | 220 |
| GRM 55 600 A4 | 3000 | 600 | 265 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|---|---|---|---|---|
| **GRM 55 50 A4** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 100 A4** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 150 A4** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 200 A4** | 0.35 | 0.2 | 0.1 | 0.1 |
| **GRM 55 300 A4** | 0.7 | 0.5 | 0.25 | 0.2 |
| **GRM 55 400 A4** | 0.9 | 0.6 | 0.3 | 0.25 |
| **GRM 55 500 A4** | 0.9 | 0.6 | 0.3 | 0.25 |
| **GRM 55 600 A4** | 0.9 | 0.6 | 0.3 | 0.25 |

**Load diagram, mesh cable tray GRM 55 VA**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

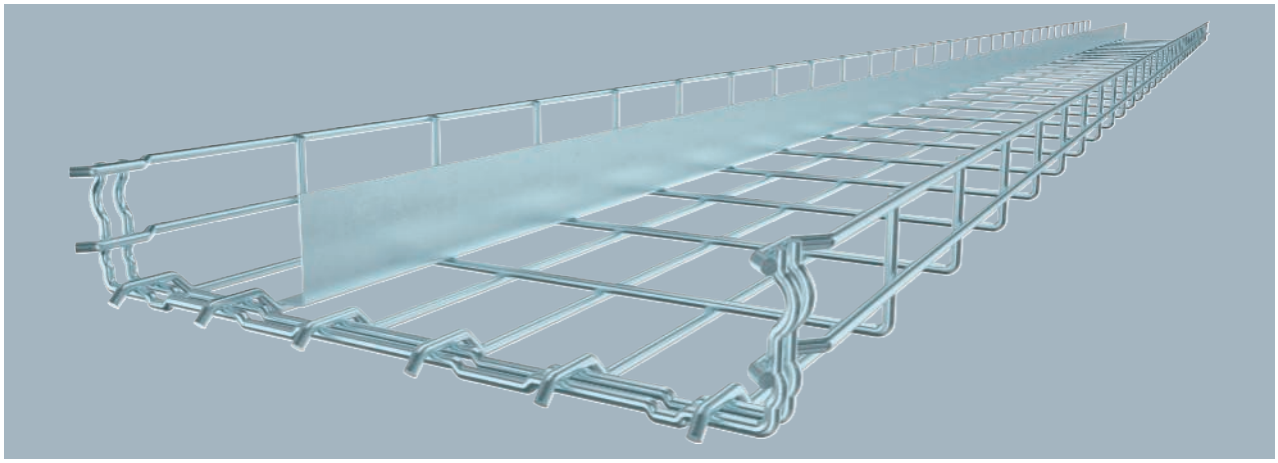


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# Mesh cable tray side height 55

## Mesh cable tray GR-Magic® 55 with barrier strip

St G



| Type | Width mm | Wire Ø mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **GRM-T 55 100 G** | 100 | 3.9 | | 3 | 117.433 | **6006453** |
| **GRM-T 55 200 G** | 200 | 3.9 | | 3 | 143.333 | **6006455** |
| **GRM-T 55 300 G** | 300 | 4.8 | | 3 | 237.067 | **6006456** |
| **GRM-T 55 400 G** | 400 | 4.8 | | 3 | 280.800 | **6006457** |
| **GRM-T 55 500 G** | 500 | 4.8 | | 3 | 320.000 | **6006458** |

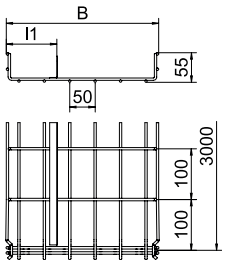
Mesh cable tray with shaped connector and welded barrier strips of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

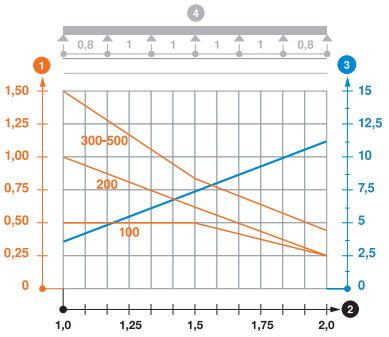
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| GRM-T 55 100 G | 3000 | 100 | 40 |
| GRM-T 55 200 G | 3000 | 200 | 87 |
| GRM-T 55 300 G | 3000 | 300 | 129 |
| GRM-T 55 400 G | 3000 | 400 | 175 |
| GRM-T 55 500 G | 3000 | 500 | 220 |

### Dimensions




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m |
|---|---|---|---|
| **GRM-T 55 100 G** | 0.5 | 0.5 | 0.25 |
| **GRM-T 55 200 G** | 1 | 0.6 | 0.25 |
| **GRM-T 55 300 G** | 1.5 | 0.8 | 0.4 |
| **GRM-T 55 400 G** | 1.5 | 0.8 | 0.4 |
| **GRM-T 55 500 G** | 1.5 | 0.8 | 0.4 |

### Load




**Load diagram, GR-Magic mesh cable tray, type GRM-1T 55**

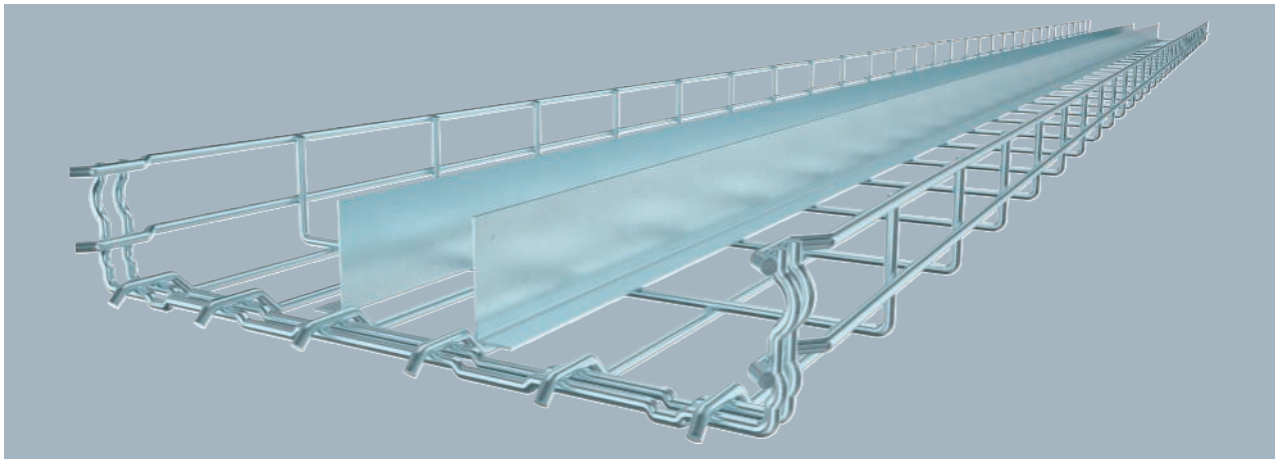
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St G

## Mesh cable tray GR-Magic® 55 with 2 barrier strip



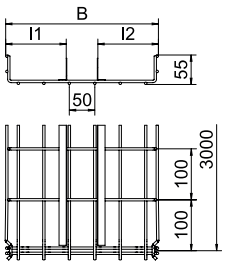
Mesh cable tray with shaped connector and two welded barrier strips of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

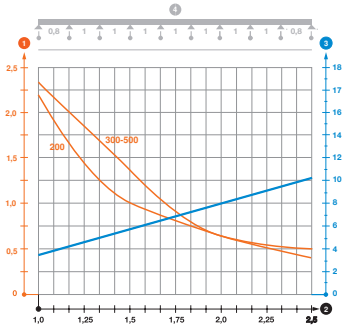
| Type | Width mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **GRM-2T 55 200 G** | 200 | 3.9 | 3 | 189.700 | **6006395** |
| **GRM-2T 55 300 G** | 300 | 4.8 | 3 | 289.867 | **6006396** |
| **GRM-2T 55 400 G** | 400 | 4.8 | 3 | 327.933 | **6006397** |
| **GRM-2T 55 500 G** | 500 | 4.8 | 3 | 370.633 | **6006468** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| GRM-2T 55 200 G | 3000 | 200 | 87 |
| GRM-2T 55 300 G | 3000 | 300 | 129 |
| GRM-2T 55 400 G | 3000 | 400 | 175 |
| GRM-2T 55 500 G | 3000 | 500 | 220 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m |
|---|---|---|---|
| **GRM-2T 55 200 G** | 2 | 1 | 0.4 |
| **GRM-2T 55 300 G** | 2.3 | 1.4 | 0.6 |
| **GRM-2T 55 400 G** | 2.3 | 1.4 | 0.6 |
| **GRM-2T 55 500 G** | 1.5 | 0.8 | 0.55 |

**Load diagram, GR-Magic mesh cable tray, type GRM-2T 55**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



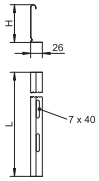
Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Mesh cable tray side height 55

## Separating retainer 45

St FS DD





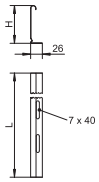

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 45 FS** | 45 | 0.75 | 3000 | 3 | 46.700 | **6062033** |
| **TSG 45 DD** | 45 | 0.75 | 3000 | 3 | 46.812 | **6062321** |

Separating retainer for separation of cables of different voltages or functions.

## Separating retainer 45

A2 A4 2B





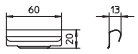

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 45 A2** | 45 | 0.75 | 3000 | 3 | 49.850 | **6062025** |
| **TSG 45 A4** | 45 | 0.75 | 3000 | 3 | 49.850 | **6062028** |

Separating retainer for separation of cables of different voltages or functions.

## Separating retainer connector

VA 2B





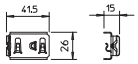

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **TSGV A2** | 10 | 0.899 | **6067970** |

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

## Hold-down clamp for separating retainer fastening in GRM

VA 2B



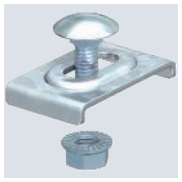


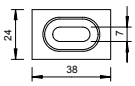

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **KS GR A2** | 30 | 0.830 | **6062282** |

Hold-down clamp for fastening separating retainer in mesh cable trays.

## GKT 38 hold-down clamp

St G






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **GKT 38 G** | 20 | 2.123 | **6017037** |

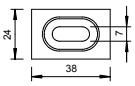
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

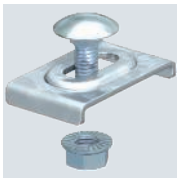
St FT

## GKT 38 hold-down clamp

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GKT 38 FT | 20 | 2.123 | 6017061 |

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



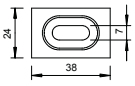



A2 VA 2B

## GKT 38 hold-down clamp

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GKT 38 A2 | 20 | 2.107 | 6017045 |
| GKT 38 A4 | 10 | 2.200 | 6017092 |

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



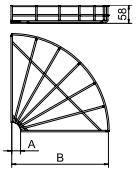


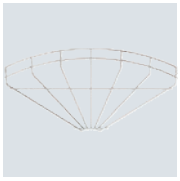

St G

## 90° mesh cable tray bend, 55

| Type | Width mm | Wire Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| GRB 90 510 G | 100 | 3.9 | 1 | 6.997 | 6001920 |
| GRB 90 515 G | 150 | 3.9 | 1 | 14.400 | 6001998 |
| GRB 90 520 G | 200 | 3.9 | 1 | 18.800 | 6001939 |
| GRB 90 530 G | 300 | 4.8 | 1 | 50.500 | 6001947 |
| GRB 90 540 G | 400 | 4.8 | 1 | 66.100 | 6001955 |
| GRB 90 550 G | 500 | 4.8 | 1 | 95.500 | 6001963 |
| GRB 90 560 G | 600 | 4.8 | 1 | 114.100 | 6001971 |

90° bend, horizontal, for all mesh cable trays of 55 mm side height.



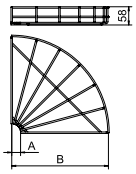



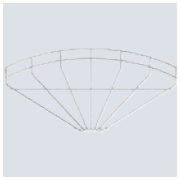
St FT

## 90° mesh cable tray bend, 55

| Type | Width mm | Wire Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| GRB 90 510 FT | 100 | 3.9 | 1 | 7.400 | 6002218 |
| GRB 90 520 FT | 200 | 3.9 | 1 | 19.800 | 6002226 |
| GRB 90 530 FT | 300 | 4.8 | 1 | 52.600 | 6002234 |
| GRB 90 540 FT | 400 | 4.8 | 1 | 68.900 | 6002242 |
| GRB 90 550 FT | 500 | 4.8 | 1 | 99.600 | 6002250 |
| GRB 90 560 FT | 600 | 4.8 | 1 | 118.900 | 6002269 |
| GRB 90 515 FT | 150 | 3.9 | 1 | 15.100 | 6002222 |

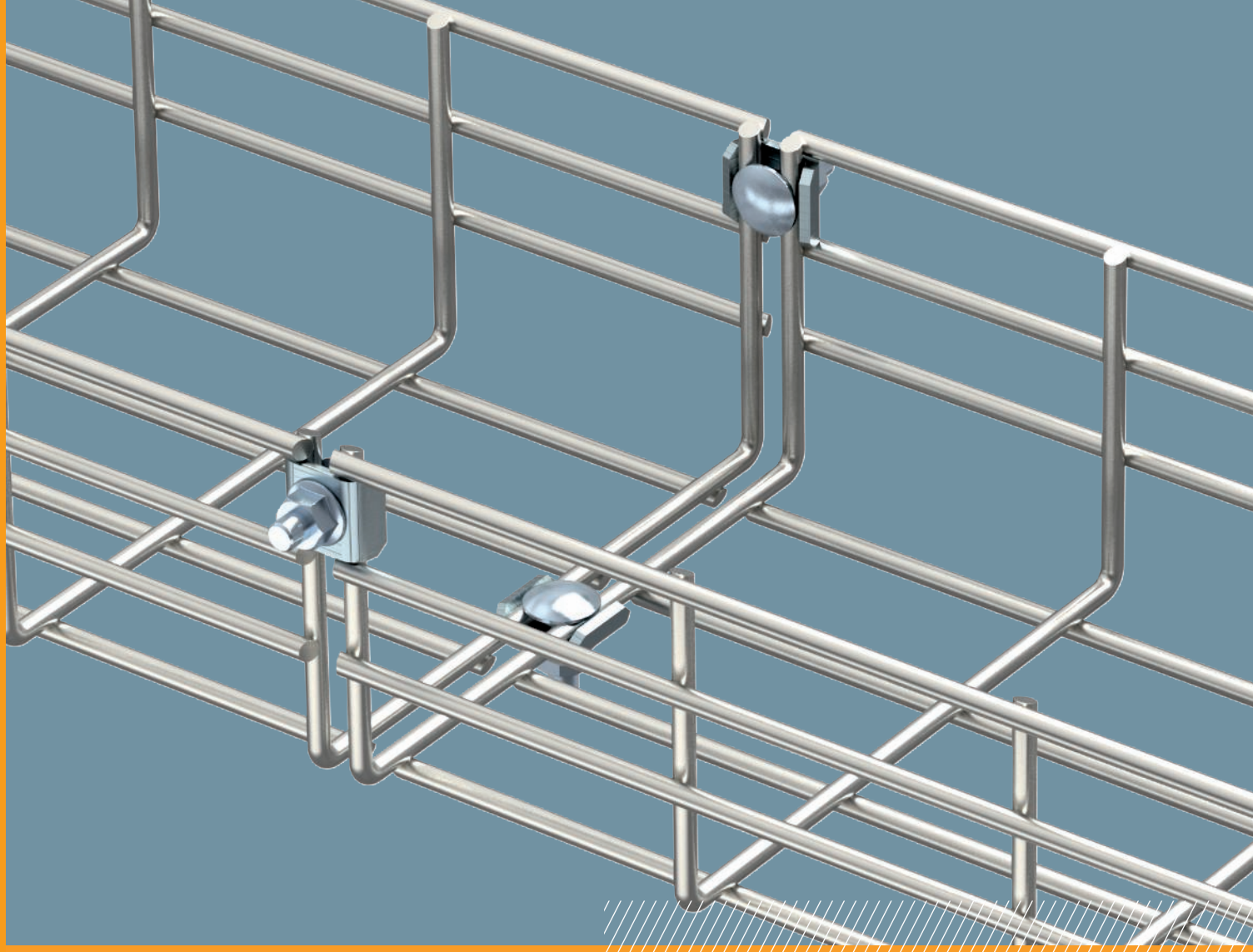
90° bend, horizontal, for all mesh cable trays of 55 mm side height.





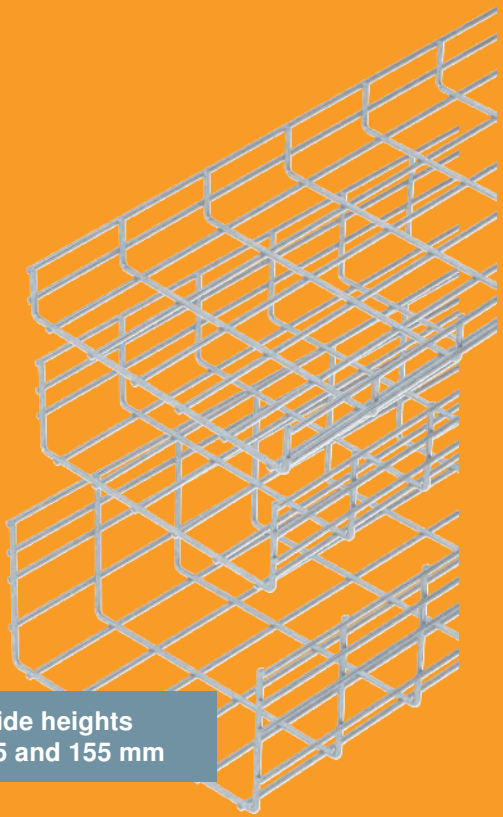
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# Heavy-duty SGR mesh cable tray made of 6 mm wire

Today, due to the wide range of applications, the requirements for mesh cable trays differ a great deal. Besides simple mounting, a high load capacity, dirt-repelling qualities, good ventilation behaviour and high-quality surface refinement are particularly in demand.

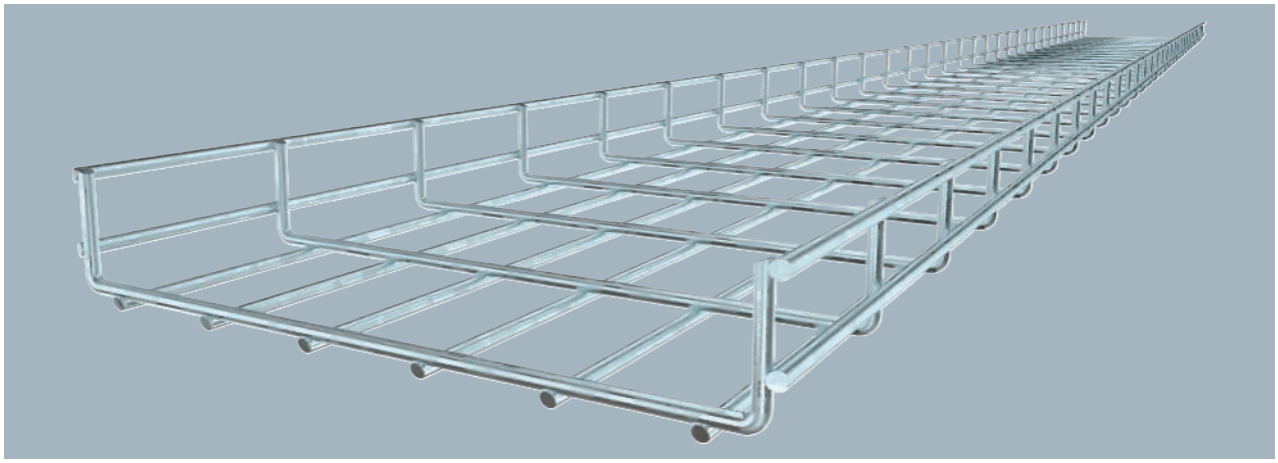
The new heavy-duty mesh cable tray of type SGR, made of 6 mm-thick wire in a U profile, combines many advantages all at the same time. The strong wire design means that the SGR, with its low intrinsic weight, can withstand load capacities of up to 110% more than the comparable mesh cable trays of competitors and can thus also be used for larger support spacings of up to 4.0 m.



**3 side heights**
**55, 105 and 155 mm**

St FT

## Heavy-duty cable tray SGR 55



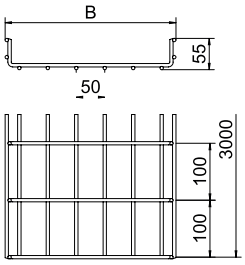
Mesh cable tray made of spot-welded steel wire of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

The grid width is 50 x 100 mm.

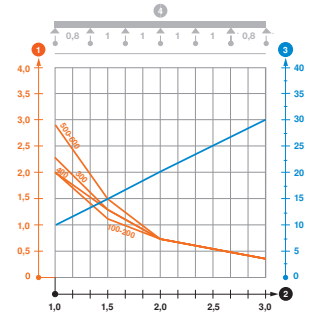
| Type | Width mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SGR 55 100 FT** | 100 | 6 | 3 | 171.667 | **6000122** |
| **SGR 55 150 FT** | 150 | 6 | 3 | 205.333 | **6000190** |
| **SGR 55 200 FT** | 200 | 6 | 3 | 238.667 | **6000209** |
| **SGR 55 300 FT** | 300 | 6 | 3 | 305.667 | **6000331** |
| **SGR 55 400 FT** | 400 | 6 | 3 | 372.667 | **6000451** |
| **SGR 55 500 FT** | 500 | 6 | 3 | 439.667 | **6000515** |
| **SGR 55 600 FT** | 600 | 6 | 3 | 507.000 | **6000775** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SGR 55 100 FT | 3000 | 100 | 40 |
| SGR 55 150 FT | 3000 | 150 | 63 |
| SGR 55 200 FT | 3000 | 200 | 87 |
| SGR 55 300 FT | 3000 | 300 | 129 |
| SGR 55 400 FT | 3000 | 400 | 175 |
| SGR 55 500 FT | 3000 | 500 | 220 |
| SGR 55 600 FT | 3000 | 600 | 265 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SGR 55 100 FT** | 2 | 1.15 | 0.75 | 0.4 |
| **SGR 55 150 FT** | 2 | 1.15 | 0.75 | 0.4 |
| **SGR 55 200 FT** | 2 | 1.15 | 0.75 | 0.4 |
| **SGR 55 300 FT** | 2 | 1.3 | 0.75 | 0.4 |
| **SGR 55 400 FT** | 2.3 | 1.3 | 0.75 | 0.4 |
| **SGR 55 500 FT** | 2.9 | 1.5 | 0.75 | 0.4 |
| **SGR 55 600 FT** | 2.9 | 1.5 | 0.75 | 0.4 |

**Load diagram, mesh cable tray, type SGR 55**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

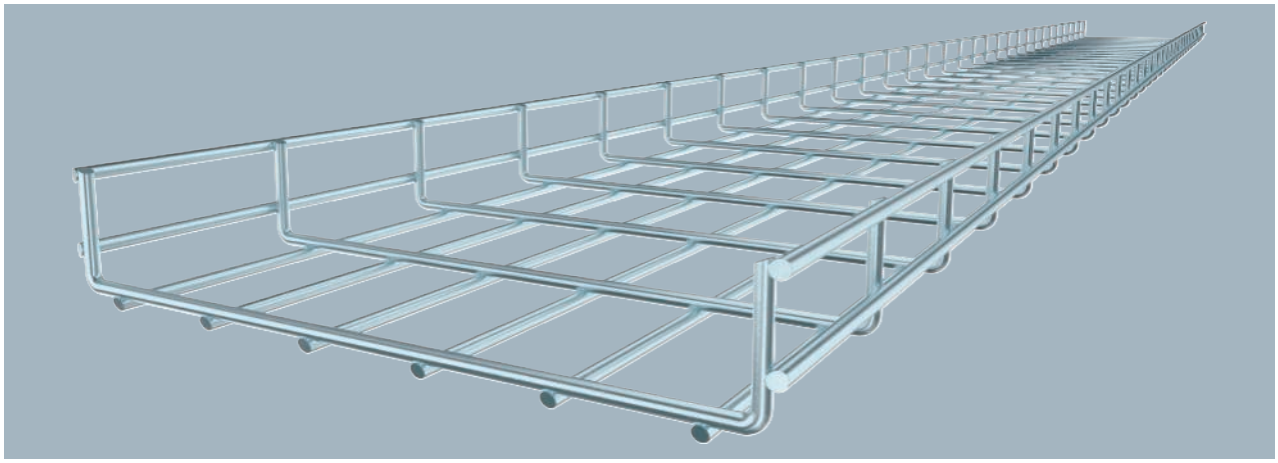
— Strut bend curve according to support width



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## Heavy-duty cable tray SGR 55

St G



| Type | Width mm | Wire Ø mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SGR 55 100 G** | 100 | 6 | | 3 | 166.333 | **6005470** |
| **SGR 55 150 G** | 150 | 6 | | 3 | 199.000 | **6005472** |
| **SGR 55 200 G** | 200 | 6 | | 3 | 230.067 | **6005474** |
| **SGR 55 300 G** | 300 | 6 | | 3 | 293.233 | **6005476** |
| **SGR 55 400 G** | 400 | 6 | | 3 | 357.033 | **6005478** |
| **SGR 55 500 G** | 500 | 6 | | 3 | 426.333 | **6005480** |
| **SGR 55 600 G** | 600 | 6 | | 3 | 491.667 | **6005482** |

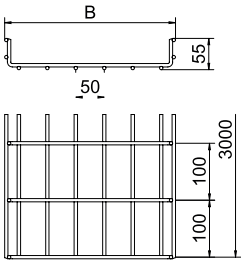
Mesh cable tray made of spot-welded steel wire of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

The grid dimension is 50 x 100 mm.
Stainless steel version on request.

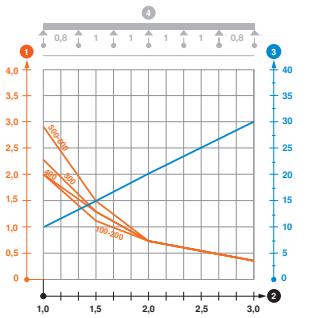
| Type | Length mm | Dim. B mm | Usable cross-section $cm^2$ |
|---|---|---|---|
| SGR 55 100 G | 3000 | 100 | 40 |
| SGR 55 150 G | 3000 | 150 | 63 |
| SGR 55 200 G | 3000 | 200 | 87 |
| SGR 55 300 G | 3000 | 300 | 129 |
| SGR 55 400 G | 3000 | 400 | 175 |
| SGR 55 500 G | 3000 | 500 | 220 |
| SGR 55 600 G | 3000 | 600 | 265 |

### Dimensions




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SGR 55 100 G** | 2 | 1.15 | 0.75 | 0.4 |
| **SGR 55 150 G** | 2 | 1.15 | 0.75 | 0.4 |
| **SGR 55 200 G** | 2 | 1.15 | 0.75 | 0.4 |
| **SGR 55 300 G** | 2 | 1.3 | 0.75 | 0.4 |
| **SGR 55 400 G** | 2.3 | 1.3 | 0.75 | 0.4 |
| **SGR 55 500 G** | 2.9 | 1.5 | 0.75 | 0.4 |
| **SGR 55 600 G** | 2.9 | 1.5 | 0.75 | 0.4 |

### Load




**Load diagram, mesh cable tray, type SGR 55**

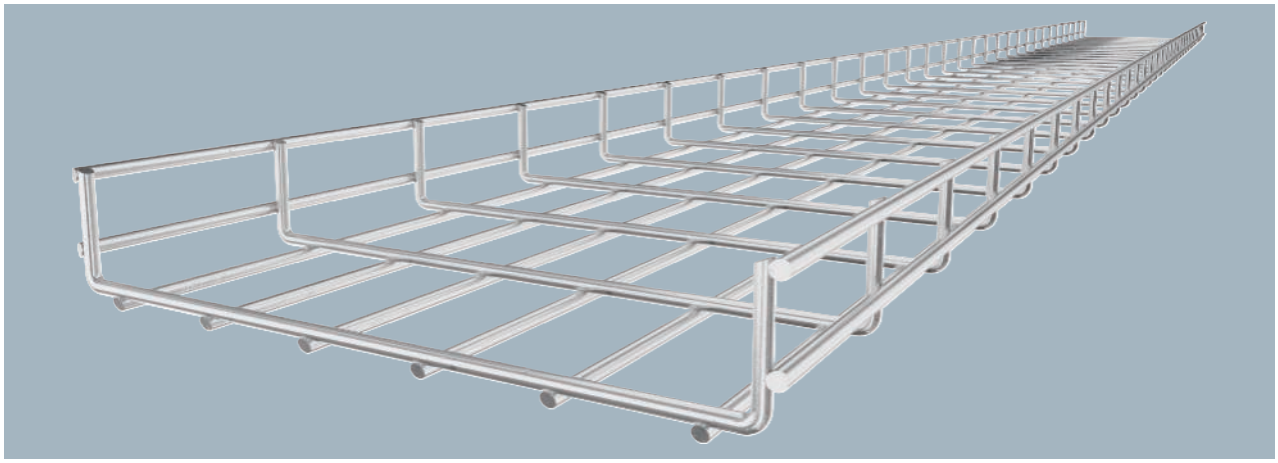
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

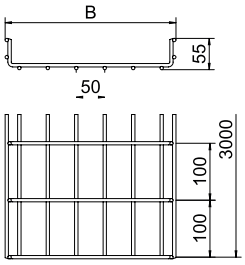
## Heavy-duty cable tray SGR 55



Mesh cable tray made of spot-welded steel wire of side height 55 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
The grid width is 50 x 100 mm.

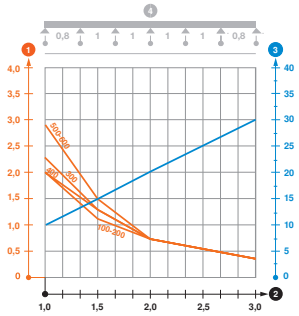
| Type | Width mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SGR 55 100 A2** | 100 | 6 | 3 | 166.000 | **6000909** |
| **SGR 55 150 A2** | 150 | 6 | 3 | 198.000 | **6000913** |
| **SGR 55 200 A2** | 200 | 6 | 3 | 231.333 | **6000917** |
| **SGR 55 300 A2** | 300 | 6 | 3 | 296.333 | **6000925** |
| **SGR 55 400 A2** | 400 | 6 | 3 | 361.333 | **6000933** |
| **SGR 55 500 A2** | 500 | 6 | 3 | 426.333 | **6000941** |
| **SGR 55 600 A2** | 600 | 6 | 3 | 491.667 | **6000958** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SGR 55 100 A2 | 3000 | 100 | 40 |
| SGR 55 150 A2 | 3000 | 150 | 63 |
| SGR 55 200 A2 | 3000 | 200 | 87 |
| SGR 55 300 A2 | 3000 | 300 | 129 |
| SGR 55 400 A2 | 3000 | 400 | 175 |
| SGR 55 500 A2 | 3000 | 500 | 220 |
| SGR 55 600 A2 | 3000 | 600 | 265 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SGR 55 100 A2** | 2 | 1.15 | 0.75 | 0.4 |
| **SGR 55 150 A2** | 2 | 1.15 | 0.75 | 0.4 |
| **SGR 55 200 A2** | 2 | 1.15 | 0.75 | 0.4 |
| **SGR 55 300 A2** | 2 | 1.3 | 0.75 | 0.4 |
| **SGR 55 400 A2** | 2.3 | 1.3 | 0.75 | 0.4 |
| **SGR 55 500 A2** | 2.9 | 1.5 | 0.75 | 0.4 |
| **SGR 55 600 A2** | 2.9 | 1.5 | 0.75 | 0.4 |

**Load diagram, mesh cable tray, type SGR 55**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

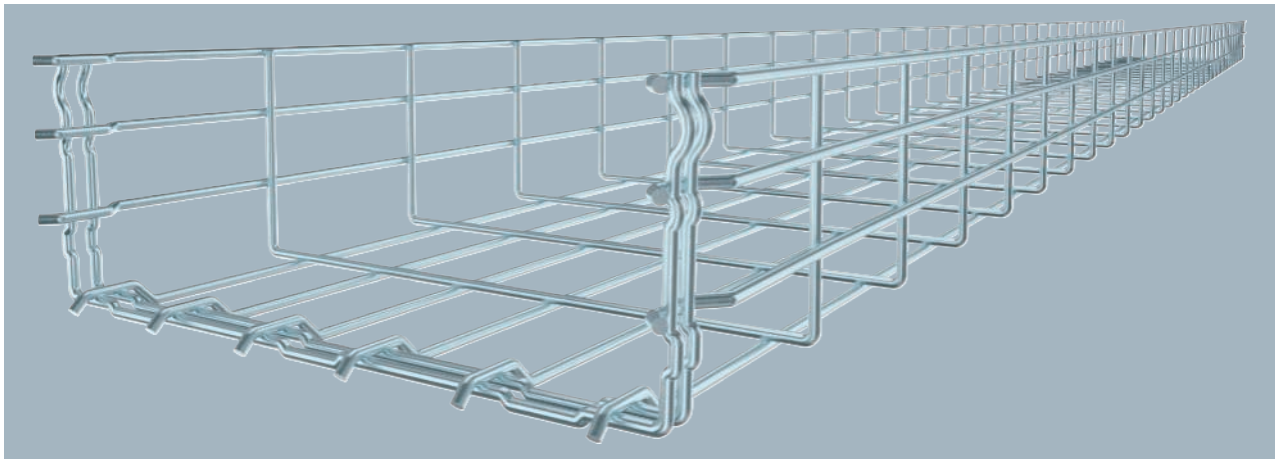


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# Mesh cable tray side height 105

## Mesh cable tray GR-Magic® 105

St G

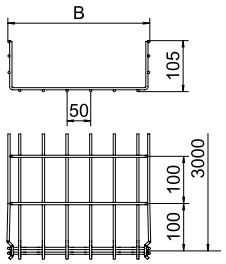


| Type | Width mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **GRM 105 100 G** | 100 | 3.9 | 3 | 99.333 | **6002402** |
| **GRM 105 150 G** | 150 | 3.9 | 3 | 111.667 | **6002404** |
| **GRM 105 200 G** | 200 | 4.8 | 3 | 192.333 | **6002406** |
| **GRM 105 300 G** | 300 | 4.8 | 3 | 234.667 | **6002408** |
| **GRM 105 400 G** | 400 | 4.8 | 3 | 278.000 | **6002410** |
| **GRM 105 450 G** | 450 | 4.8 | 3 | 283.333 | **6002413** |
| **GRM 105 500 G** | 500 | 4.8 | 3 | 319.000 | **6002415** |
| **GRM 105 600 G** | 600 | 4.8 | 3 | 363.333 | **6002417** |

Mesh cable tray with shaped connector of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

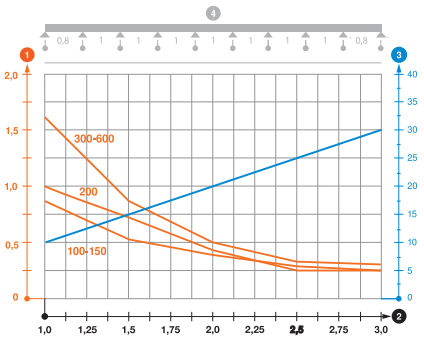
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| GRM 105 100 G | 3000 | 100 | 82 |
| GRM 105 150 G | 3000 | 150 | 130 |
| GRM 105 200 G | 3000 | 200 | 175 |
| GRM 105 300 G | 3000 | 300 | 268 |
| GRM 105 400 G | 3000 | 400 | 363 |
| GRM 105 450 G | 3000 | 450 | 411 |
| GRM 105 500 G | 3000 | 500 | 459 |
| GRM 105 600 G | 3000 | 600 | 554 |

### Dimensions




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **GRM 105 100 G** | 0.8 | 0.55 | 0.37 | 0.25 |
| **GRM 105 150 G** | 0.8 | 0.55 | 0.37 | 0.25 |
| **GRM 105 200 G** | 1 | 0.7 | 0.4 | 0.25 |
| **GRM 105 300 G** | 1.6 | 0.8 | 0.5 | 0.3 |
| **GRM 105 400 G** | 1.6 | 0.8 | 0.5 | 0.3 |
| **GRM 105 450 G** | 1.6 | 0.8 | 0.5 | 0.3 |
| **GRM 105 500 G** | 1.6 | 0.8 | 0.5 | 0.3 |
| **GRM 105 600 G** | 1.6 | 0.8 | 0.5 | 0.3 |

### Load




**Load diagram, mesh cable tray, type GRM 105**

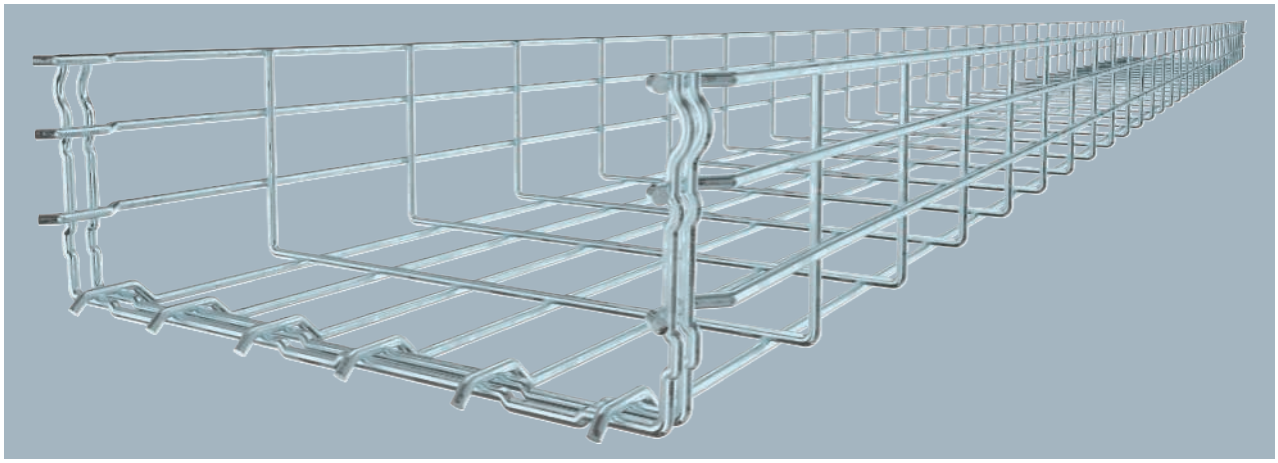
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

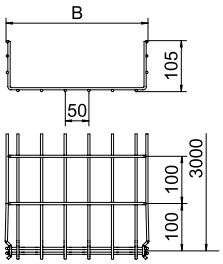
## Mesh cable tray GR-Magic® 105



Mesh cable tray with shaped connector of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

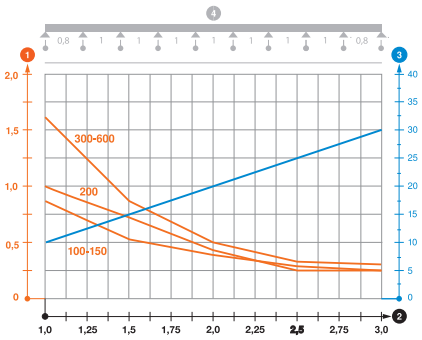
| Type | Width mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **GRM 105 100 FT** | 100 | 3.9 | 3 | 105.333 | **6002431** |
| **GRM 105 150 FT** | 150 | 3.9 | 3 | 119.000 | **6002433** |
| **GRM 105 200 FT** | 200 | 4.8 | 3 | 202.333 | **6002435** |
| **GRM 105 300 FT** | 300 | 4.8 | 3 | 244.000 | **6002437** |
| **GRM 105 400 FT** | 400 | 4.8 | 3 | 288.333 | **6002439** |
| **GRM 105 450 FT** | 450 | 4.8 | 3 | 293.333 | **6002441** |
| **GRM 105 500 FT** | 500 | 4.8 | 3 | 335.000 | **6002443** |
| **GRM 105 600 FT** | 600 | 4.8 | 3 | 375.000 | **6002445** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| GRM 105 100 FT | 3000 | 100 | 82 |
| GRM 105 150 FT | 3000 | 150 | 130 |
| GRM 105 200 FT | 3000 | 200 | 175 |
| GRM 105 300 FT | 3000 | 300 | 268 |
| GRM 105 400 FT | 3000 | 400 | 363 |
| GRM 105 450 FT | 3000 | 450 | 411 |
| GRM 105 500 FT | 3000 | 500 | 459 |
| GRM 105 600 FT | 3000 | 600 | 554 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **GRM 105 100 FT** | 0.8 | 0.55 | 0.37 | 0.25 |
| **GRM 105 150 FT** | 0.8 | 0.55 | 0.37 | 0.25 |
| **GRM 105 200 FT** | 1 | 0.7 | 0.4 | 0.25 |
| **GRM 105 300 FT** | 1.6 | 0.8 | 0.5 | 0.3 |
| **GRM 105 400 FT** | 1.6 | 0.8 | 0.5 | 0.3 |
| **GRM 105 450 FT** | 1.6 | 0.8 | 0.5 | 0.3 |
| **GRM 105 500 FT** | 1.6 | 0.8 | 0.5 | 0.3 |
| **GRM 105 600 FT** | 1.6 | 0.8 | 0.5 | 0.3 |

**Load diagram, mesh cable tray, type GRM 105**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

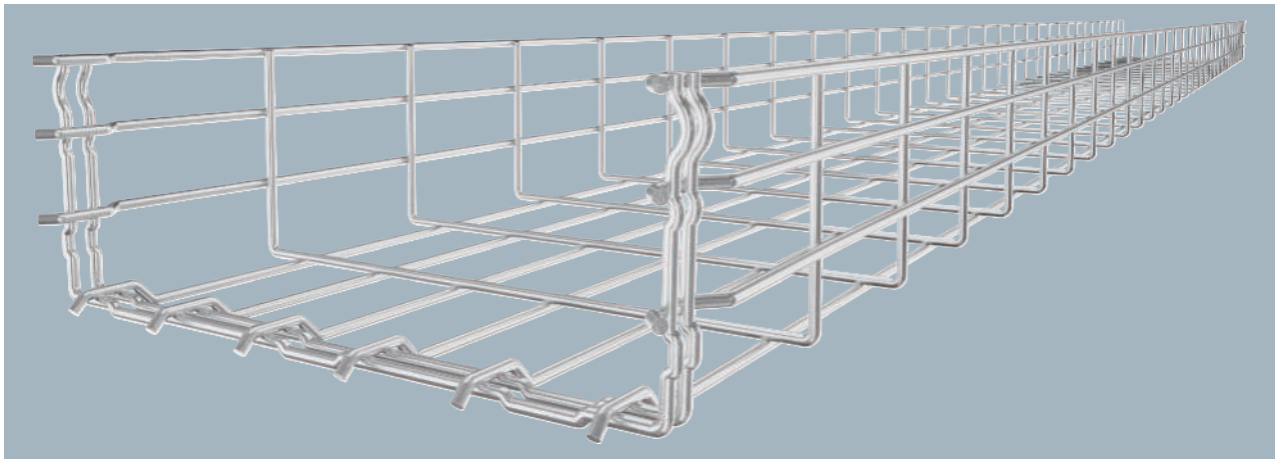
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width



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## Mesh cable tray GR-Magic® 105

A2 2B

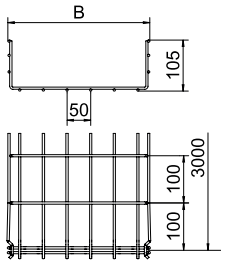


| Type | Width mm | Wire Ø mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **GRM 105 100 A2** | 100 | 3.9 | | 3 | 99.333 | **6002451** |
| **GRM 105 150 A2** | 150 | 3.9 | | 3 | 111.667 | **6002455** |
| **GRM 105 200 A2** | 200 | 4.8 | | 3 | 200.667 | **6002457** |
| **GRM 105 300 A2** | 300 | 4.8 | | 3 | 234.667 | **6002460** |
| **GRM 105 400 A2** | 400 | 4.8 | | 3 | 277.000 | **6002463** |
| **GRM 105 500 A2** | 500 | 4.8 | | 3 | 319.000 | **6002466** |
| **GRM 105 600 A2** | 600 | 4.8 | | 3 | 363.333 | **6002469** |

Mesh cable tray with shaped connector of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

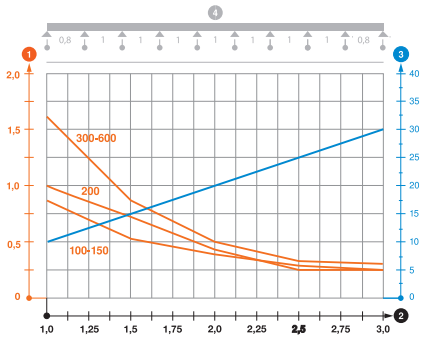
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| GRM 105 100 A2 | 3000 | 100 | 82 |
| GRM 105 150 A2 | 3000 | 150 | 130 |
| GRM 105 200 A2 | 3000 | 200 | 175 |
| GRM 105 300 A2 | 3000 | 300 | 268 |
| GRM 105 400 A2 | 3000 | 400 | 363 |
| GRM 105 500 A2 | 3000 | 500 | 459 |
| GRM 105 600 A2 | 3000 | 600 | 554 |

**Dimensions**




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **GRM 105 100 A2** | 0.8 | 0.55 | 0.37 | 0.25 |
| **GRM 105 150 A2** | 0.8 | 0.55 | 0.37 | 0.25 |
| **GRM 105 200 A2** | 0.8 | 0.55 | 0.37 | 0.25 |
| **GRM 105 300 A2** | 1.1 | 0.75 | 0.53 | 0.3 |
| **GRM 105 400 A2** | 1.1 | 0.75 | 0.53 | 0.3 |
| **GRM 105 500 A2** | 1.25 | 0.85 | 0.6 | 0.3 |
| **GRM 105 600 A2** | 1.25 | 0.85 | 0.6 | 0.3 |

**Load**



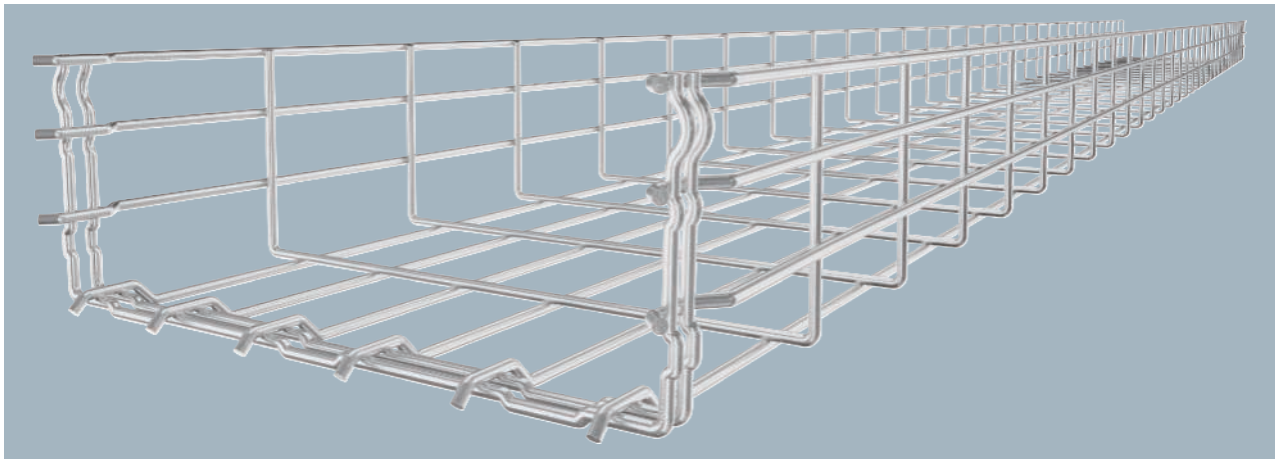

**Load diagram, mesh cable tray, type GRM 105**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

VA 2B

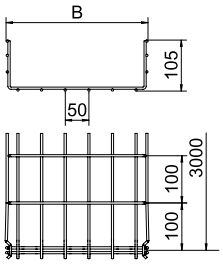
## Mesh cable tray GR-Magic® 105



Mesh cable tray with shaped connector of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

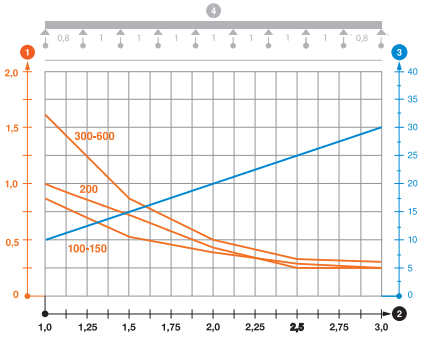
| Type | Width mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **GRM 105 100 A4** | 100 | 3.9 | 3 | 99.333 | **6002475** |
| **GRM 105 150 A4** | 150 | 3.9 | 3 | 111.667 | **6002476** |
| **GRM 105 200 A4** | 200 | 4.8 | 3 | 192.333 | **6002477** |
| **GRM 105 300 A4** | 300 | 4.8 | 3 | 235.000 | **6002479** |
| **GRM 105 400 A4** | 400 | 4.8 | 3 | 277.000 | **6002481** |
| **GRM 105 500 A4** | 500 | 4.8 | 3 | 319.000 | **6002483** |
| **GRM 105 600 A4** | 600 | 4.8 | 3 | 363.333 | **6002485** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| GRM 105 100 A4 | 3000 | 100 | 82 |
| GRM 105 150 A4 | 3000 | 150 | 130 |
| GRM 105 200 A4 | 3000 | 200 | 175 |
| GRM 105 300 A4 | 3000 | 300 | 268 |
| GRM 105 400 A4 | 3000 | 400 | 363 |
| GRM 105 500 A4 | 3000 | 500 | 459 |
| GRM 105 600 A4 | 3000 | 600 | 554 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **GRM 105 100 A4** | 0.8 | 0.55 | 0.37 | 0.25 |
| **GRM 105 150 A4** | 0.8 | 0.55 | 0.37 | 0.25 |
| **GRM 105 200 A4** | 0.8 | 0.55 | 0.37 | 0.25 |
| **GRM 105 300 A4** | 1.1 | 0.75 | 0.53 | 0.3 |
| **GRM 105 400 A4** | 1.1 | 0.75 | 0.53 | 0.3 |
| **GRM 105 500 A4** | 1.25 | 0.85 | 0.6 | 0.3 |
| **GRM 105 600 A4** | 1.25 | 0.85 | 0.6 | 0.3 |

**Load diagram, mesh cable tray, type GRM 105**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

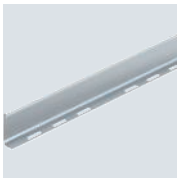


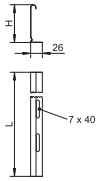
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# Mesh cable tray side height 105

## Separating retainer 85

St FS DD





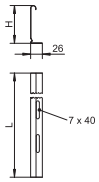

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 85 FS** | 85 | 0.75 | 3000 | 3 | 70.233 | **6062114** |
| **TSG 85 DD** | 85 | 0.75 | 3000 | 3 | 70.300 | **6062331** |

Separating retainer for separation of cables of different voltages or functions.

## Barrier strip 85

A2 2B





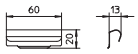

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 85 A2** | 85 | 0.75 | 3000 | 3 | 74.958 | **6062173** |

Barrier strip for separation of cables of different voltages or functions.

## Separating retainer connector

VA 2B





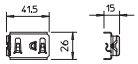

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **TSGV A2** | 10 | 0.899 | **6067970** |

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

## Hold-down clamp for separating retainer fastening in GRM

VA 2B



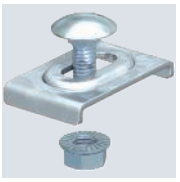


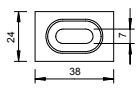

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **KS GR A2** | 30 | 0.830 | **6062282** |

Hold-down clamp for fastening separating retainer in mesh cable trays.

## GKT 38 hold-down clamp

St G






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **GKT 38 G** | 20 | 2.123 | **6017037** |

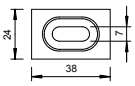
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

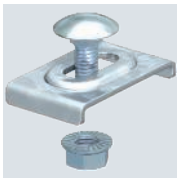
St FT

## GKT 38 hold-down clamp

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **GKT 38 FT** | 20 | 2.123 | **6017061** |

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



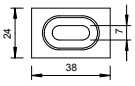



A2 VA 2B

## GKT 38 hold-down clamp

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **GKT 38 A2** | 20 | 2.107 | **6017045** |
| **GKT 38 A4** | 10 | 2.200 | **6017092** |

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



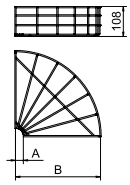


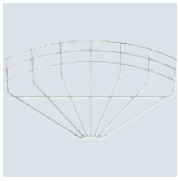

St G

## 90° mesh cable tray bend, 105

| Type | Width mm | Dim. A mm | Dim. B mm | Dim. H mm | Wire Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **GRB 90 110 G** | 100 | 28 | 106 | 108 | 3.9 | 1 | 9.780 | **6002370** |
| **GRB 90 115 G** | 150 | 28 | 156 | 108 | 3.9 | 1 | 18.800 | **6002372** |
| **GRB 90 120 G** | 200 | 28 | 206 | 108 | 4.8 | 1 | 36.300 | **6002374** |
| **GRB 90 130 G** | 300 | 28 | 306 | 108 | 4.8 | 1 | 61.500 | **6002376** |
| **GRB 90 140 G** | 400 | 28 | 406 | 108 | 4.8 | 1 | 79.200 | **6002378** |
| **GRB 90 145 G** | 450 | 33 | 456 | 108 | 4.8 | 1 | 101.800 | **6002380** |
| **GRB 90 150 G** | 500 | 33 | 506 | 108 | 4.8 | 1 | 112.000 | **6002382** |
| **GRB 90 160 G** | 600 | 33 | 606 | 108 | 4.8 | 1 | 132.700 | **6002384** |

90° bend, horizontal, for all mesh cable trays of 105 mm side height.



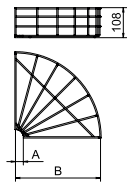



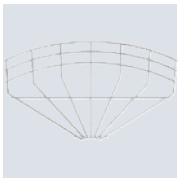
St FT

## 90° mesh cable tray bend, 105

| Type | Width mm | Dim. A mm | Dim. B mm | Dim. H mm | Wire Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **GRB 90 110 FT** | 100 | 28 | 106 | 108 | 3.9 | 1 | 10.300 | **6002307** |
| **GRB 90 115 FT** | 150 | 28 | 156 | 108 | 3.9 | 1 | 19.300 | **6002311** |
| **GRB 90 120 FT** | 200 | 28 | 206 | 108 | 4.8 | 1 | 37.900 | **6002315** |
| **GRB 90 130 FT** | 300 | 28 | 306 | 108 | 4.8 | 1 | 64.100 | **6002323** |
| **GRB 90 140 FT** | 400 | 28 | 406 | 108 | 4.8 | 1 | 82.600 | **6002331** |
| **GRB 90 150 FT** | 500 | 33 | 506 | 108 | 4.8 | 1 | 116.800 | **6002358** |
| **GRB 90 160 FT** | 600 | 33 | 606 | 108 | 4.8 | 1 | 138.400 | **6002366** |

90° bend, horizontal, for all mesh cable trays of 105 mm side height.



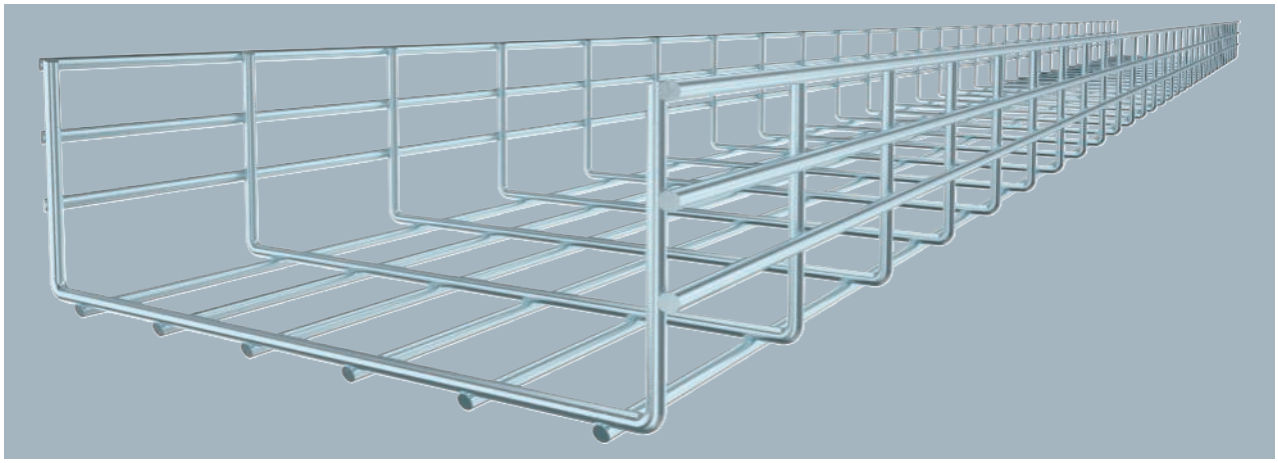


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# SGR mesh cable tray system, side height 105

## Heavy-duty cable tray SGR 105

St G



| Type | Width mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SGR 105 150 G** | 150 | 6 | 3 | 264.000 | **6002608** |
| **SGR 105 200 G** | 200 | 6 | 3 | 296.333 | **6002612** |
| **SGR 105 300 G** | 300 | 6 | 3 | 361.333 | **6002614** |
| **SGR 105 400 G** | 400 | 6 | 3 | 426.333 | **6002616** |
| **SGR 105 500 G** | 500 | 6 | 3 | 491.667 | **6002620** |
| **SGR 105 600 G** | 600 | 6 | 3 | 557.333 | **6002622** |

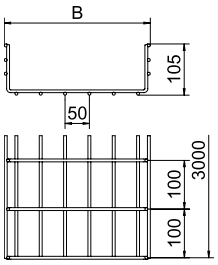
Mesh cable tray made of spot-welded steel wire of side height 105 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

The grid dimension is 50 x 100 mm.

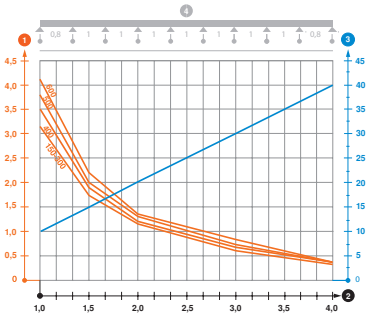
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SGR 105 150 G | 3000 | 150 | 130 |
| SGR 105 200 G | 3000 | 200 | 175 |
| SGR 105 300 G | 3000 | 300 | 268 |
| SGR 105 400 G | 3000 | 400 | 363 |
| SGR 105 500 G | 3000 | 500 | 459 |
| SGR 105 600 G | 3000 | 600 | 554 |

**Dimensions**




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|---|
| **SGR 105 150 G** | 3.1 | 1.75 | 1.15 | 0.6 | 0.4 |
| **SGR 105 200 G** | 3.1 | 1.75 | 1.15 | 0.6 | 0.4 |
| **SGR 105 300 G** | 3.1 | 1.75 | 1.15 | 0.6 | 0.4 |
| **SGR 105 400 G** | 3.5 | 1.9 | 1.2 | 0.7 | 0.45 |
| **SGR 105 500 G** | 3.8 | 2 | 1.3 | 0.75 | 0.45 |
| **SGR 105 600 G** | 4.1 | 2.2 | 1.35 | 0.8 | 0.45 |

**Load**



**Load diagram, mesh cable tray, type SGR 105**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

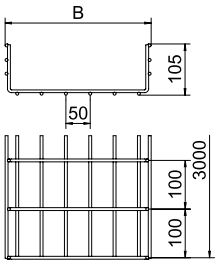
## Heavy-duty cable tray SGR 105



Mesh cable tray made of spot-welded steel wire of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
The grid width is 50 x 100 mm.

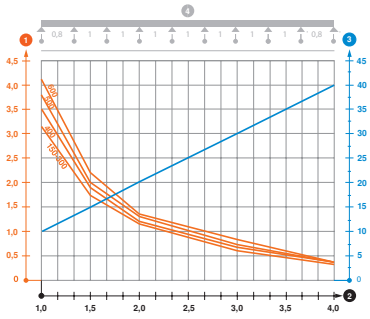
| Type | Width mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SGR 105 150 FT** | 150 | 6 | 3 | 272.333 | **6003175** |
| **SGR 105 200 FT** | 200 | 6 | 3 | 305.667 | **6003214** |
| **SGR 105 300 FT** | 300 | 6 | 3 | 372.667 | **6003309** |
| **SGR 105 400 FT** | 400 | 6 | 3 | 439.667 | **6003402** |
| **SGR 105 500 FT** | 500 | 6 | 3 | 507.000 | **6003515** |
| **SGR 105 600 FT** | 600 | 6 | 3 | 574.667 | **6003616** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SGR 105 150 FT | 3000 | 150 | 130 |
| SGR 105 200 FT | 3000 | 200 | 175 |
| SGR 105 300 FT | 3000 | 300 | 268 |
| SGR 105 400 FT | 3000 | 400 | 363 |
| SGR 105 500 FT | 3000 | 500 | 459 |
| SGR 105 600 FT | 3000 | 600 | 554 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|---|
| **SGR 105 150 FT** | 3.1 | 1.75 | 1.15 | 0.6 | 0.4 |
| **SGR 105 200 FT** | 3.1 | 1.75 | 1.15 | 0.6 | 0.4 |
| **SGR 105 300 FT** | 3.1 | 1.75 | 1.15 | 0.6 | 0.4 |
| **SGR 105 400 FT** | 3.5 | 1.9 | 1.2 | 0.7 | 0.45 |
| **SGR 105 500 FT** | 3.8 | 2 | 1.3 | 0.75 | 0.45 |
| **SGR 105 600 FT** | 4.1 | 2.2 | 1.35 | 0.8 | 0.45 |

**Load diagram, mesh cable tray, type SGR 105**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

A2 2B

## Heavy-duty cable tray SGR 105



| Type | Width mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SGR 105 150 A2** | 150 | 6 | 3 | 264.000 | **6003623** |
| **SGR 105 200 A2** | 200 | 6 | 3 | 296.333 | **6003625** |
| **SGR 105 300 A2** | 300 | 6 | 3 | 361.333 | **6003627** |
| **SGR 105 400 A2** | 400 | 6 | 3 | 426.333 | **6003629** |
| **SGR 105 500 A2** | 500 | 6 | 3 | 491.667 | **6003631** |
| **SGR 105 600 A2** | 600 | 6 | 3 | 557.333 | **6003633** |

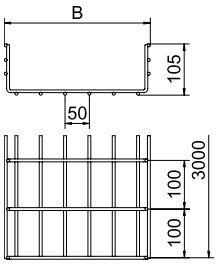
Mesh cable tray made of spot-welded steel wire of side height 105 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

The grid width is 50 x 100 mm.

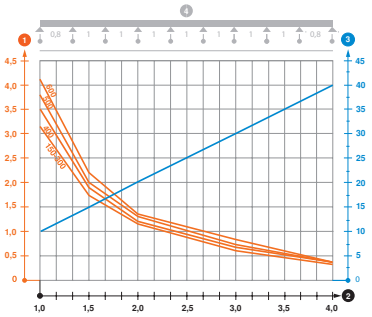
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SGR 105 150 A2 | 3000 | 150 | 130 |
| SGR 105 200 A2 | 3000 | 200 | 175 |
| SGR 105 300 A2 | 3000 | 300 | 268 |
| SGR 105 400 A2 | 3000 | 400 | 363 |
| SGR 105 500 A2 | 3000 | 500 | 459 |
| SGR 105 600 A2 | 3000 | 600 | 554 |

**Dimensions**




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|---|
| **SGR 105 150 A2** | 3.1 | 1.75 | 1.15 | 0.6 | 0.4 |
| **SGR 105 200 A2** | 3.1 | 1.75 | 1.15 | 0.6 | 0.4 |
| **SGR 105 300 A2** | 3.1 | 1.75 | 1.15 | 0.6 | 0.4 |
| **SGR 105 400 A2** | 3.5 | 1.9 | 1.2 | 0.7 | 0.45 |
| **SGR 105 500 A2** | 3.8 | 2 | 1.3 | 0.75 | 0.45 |
| **SGR 105 600 A2** | 4.1 | 2.2 | 1.35 | 0.8 | 0.45 |

**Load**




**Load diagram, mesh cable tray, type SGR 105**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

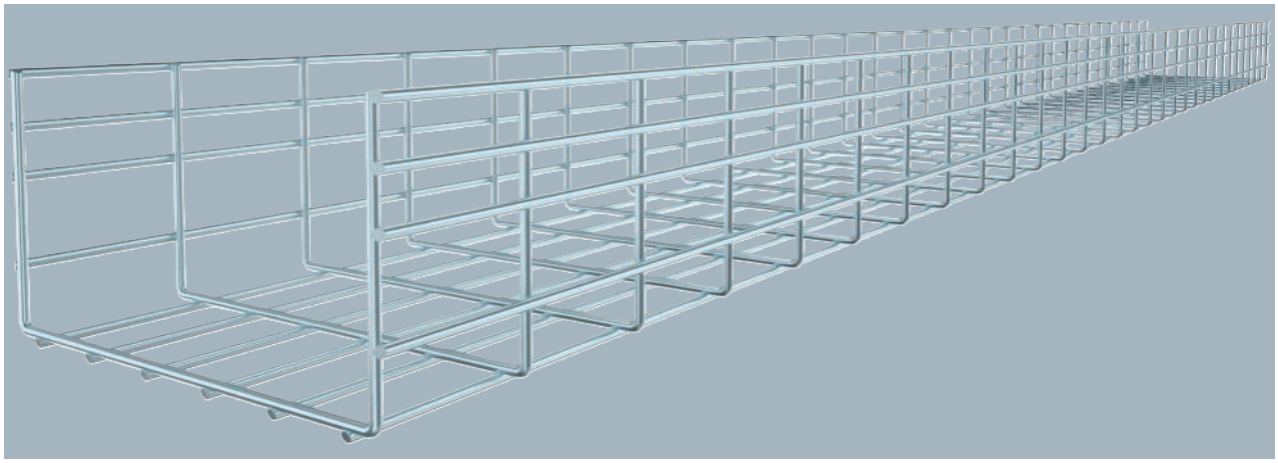
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

# SGR mesh cable tray system, side height 155

## Heavy-duty cable tray SGR 155

St G



| Type | Width mm | Wire Ø mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SGR 155 300 G** | 300 | 6 | | 3 | 426.333 | **6003681** |
| **SGR 155 450 G** | 450 | 6 | | 3 | 524.667 | **6003684** |
| **SGR 155 500 G** | 500 | 6 | | 3 | 557.333 | **6003685** |
| **SGR 155 600 G** | 600 | 6 | | 3 | 622.333 | **6003687** |

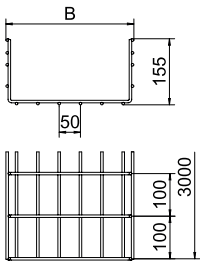
Mesh cable tray made of spot-welded steel wire of side height 155 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

The grid width is 50 x 100 mm.

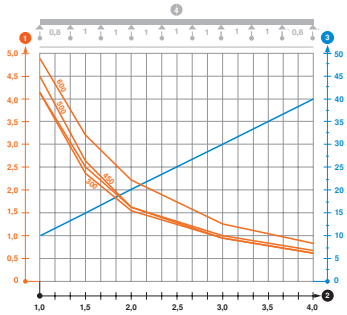
| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SGR 155 300 G | 3000 | 300 | 438 |
| SGR 155 450 G | 3000 | 450 | 663 |
| SGR 155 500 G | 3000 | 500 | 738 |
| SGR 155 600 G | 3000 | 600 | 888 |

**Dimensions**




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|---|
| **SGR 155 300 G** | 4.1 | 2.4 | 1.55 | 0.95 | 0.6 |
| **SGR 155 450 G** | 4.1 | 2.5 | 1.6 | 0.95 | 0.6 |
| **SGR 155 500 G** | 4.5 | 2.6 | 1.6 | 1 | 0.65 |
| **SGR 155 600 G** | 4.9 | 3.2 | 2.2 | 1.25 | 0.8 |

**Load**



**Load diagram, mesh cable tray, type SGR 155**

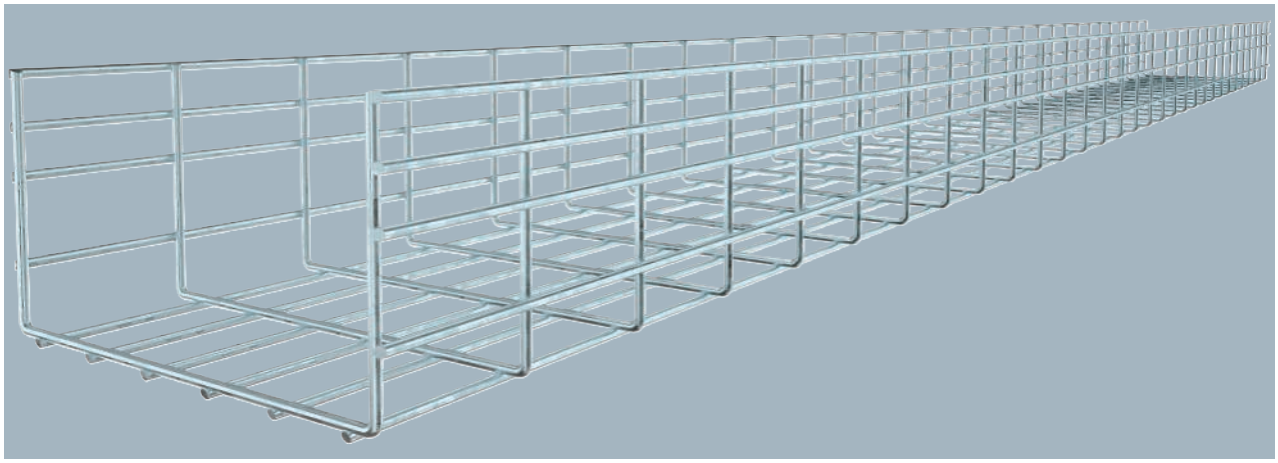
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

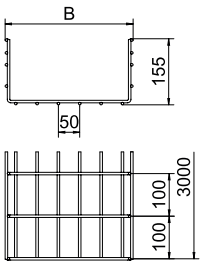
## Heavy-duty cable tray SGR 155



Mesh cable tray made of spot-welded steel wire of side height 155 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
The grid width is 50 x 100 mm.

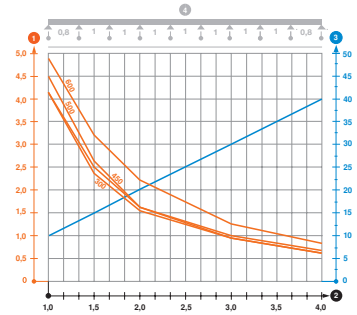
| Type | Width mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SGR 155 300 FT** | 300 | 6 | 3 | 439.667 | **6003692** |
| **SGR 155 450 FT** | 450 | 6 | 3 | 541.000 | **6003695** |
| **SGR 155 500 FT** | 500 | 6 | 3 | 574.667 | **6003696** |
| **SGR 155 600 FT** | 600 | 6 | 3 | 641.667 | **6003698** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|
| SGR 155 300 FT | 3000 | 300 | 438 |
| SGR 155 450 FT | 3000 | 450 | 663 |
| SGR 155 500 FT | 3000 | 500 | 738 |
| SGR 155 600 FT | 3000 | 600 | 888 |

### Load



| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|---|
| **SGR 155 300 FT** | 4.1 | 2.4 | 1.55 | 0.95 | 0.6 |
| **SGR 155 450 FT** | 4.1 | 2.5 | 1.6 | 0.95 | 0.6 |
| **SGR 155 500 FT** | 4.5 | 2.6 | 1.6 | 1 | 0.65 |
| **SGR 155 600 FT** | 4.9 | 3.2 | 2.2 | 1.25 | 0.8 |

**Load diagram, mesh cable tray, type SGR 155**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width



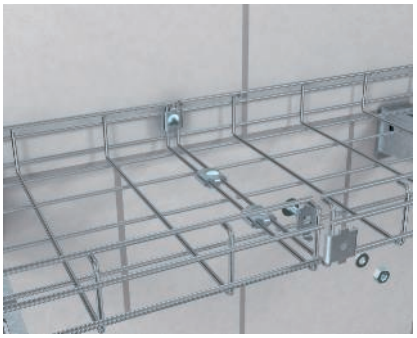
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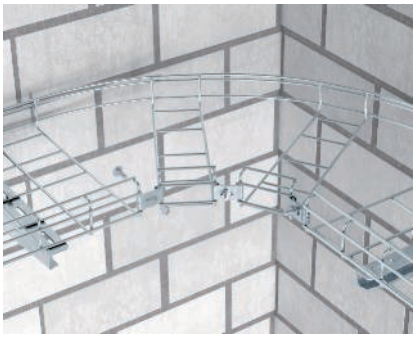
# C mesh cable tray

The C mesh cable tray system from OBO Bettermann fulfils the highest requirements for load capacities and versatility. The C shape allows support widths of up to three metres. This system, with its 50 mm side height, together with the optimised accessories such as hold-down clamps, Quick connectors, barrier strips, suspension profiles, mounting brackets, etc. is an ideal addition to the overall mesh cable tray system. It is used both in industry and in all other areas of professional electrical installations.

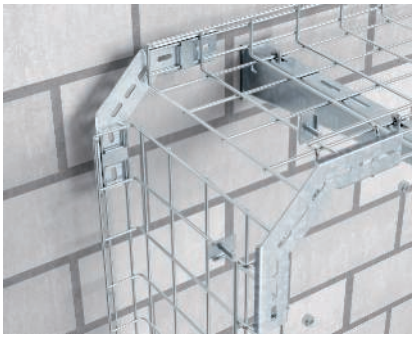
# Mounting aid



**Straight connection of C mesh cable tray**
Creation of a straight connection on C mesh cable trays with the joint connector, type GSV 34.



**Horizontal bends**
Implementation of a horizontal bend for C mesh cable trays with corner connector, type GEV 36.



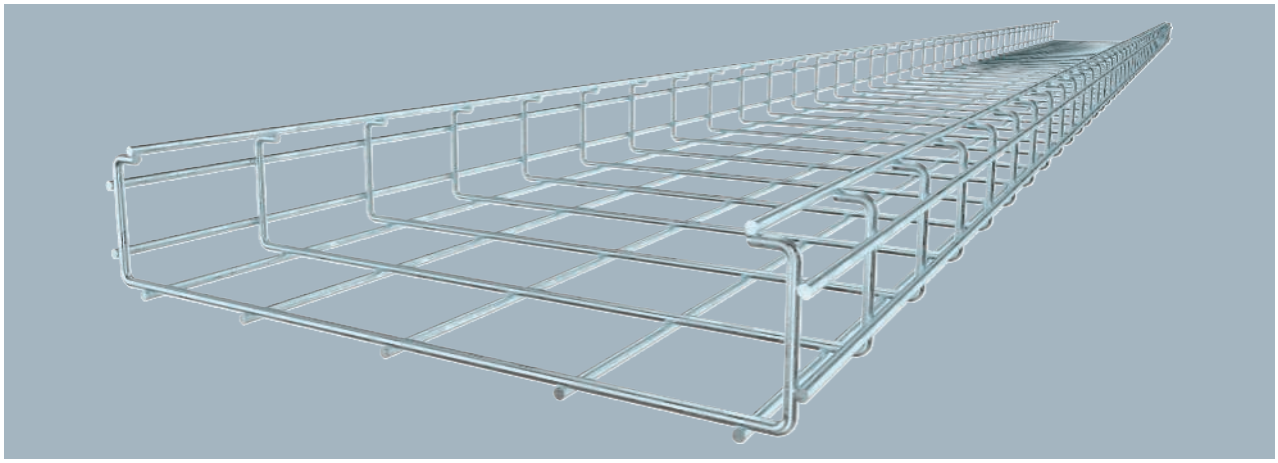
**Vertical bend application**
Vertical bend mounting with 90° installation profile.



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## C mesh cable tray CGR 50

St FT



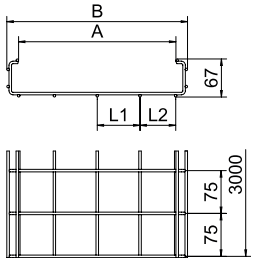
| Type | Side height mm | Wire Ø mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **CGR 50 50 FT** | 50 | 4.5 | | 3 | 128.667 | **6017428** |
| **CGR 50 100 FT** | 50 | 4.5 | | 3 | 139.100 | **6017436** |
| **CGR 50 200 FT** | 50 | 4.5 | | 3 | 177.134 | **6017444** |
| **CGR 50 300 FT** | 50 | 4.5 | | 3 | 204.334 | **6017452** |
| **CGR 50 400 FT** | 50 | 4.5 | | 3 | 232.334 | **6017460** |

C-shaped mesh cable tray made of spot-welded steel wire of side height 50 mm.

Magnetic shield insulation 15 dB.

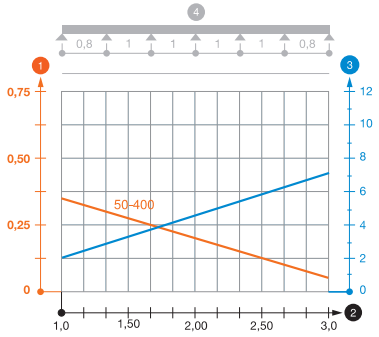
| Type | Length mm | Dim. A mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|---|
| CGR 50 50 FT | 3000 | 26 | 67 | 13 |
| CGR 50 100 FT | 3000 | 76 | 117 | 34 |
| CGR 50 200 FT | 3000 | 176 | 217 | 75 |
| CGR 50 300 FT | 3000 | 276 | 317 | 116 |
| CGR 50 400 FT | 3000 | 376 | 417 | 157 |

**Dimensions**




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m |
|---|---|---|---|
| **CGR 50 50 FT** | 0.95 | 0.6 | 0.35 |
| **CGR 50 100 FT** | 0.95 | 0.6 | 0.35 |
| **CGR 50 200 FT** | 1.1 | 0.7 | 0.4 |
| **CGR 50 300 FT** | 1.1 | 0.7 | 0.4 |
| **CGR 50 400 FT** | 1.1 | 0.7 | 0.4 |

**Load**




**Load diagram, C mesh cable tray, type CGR 50**

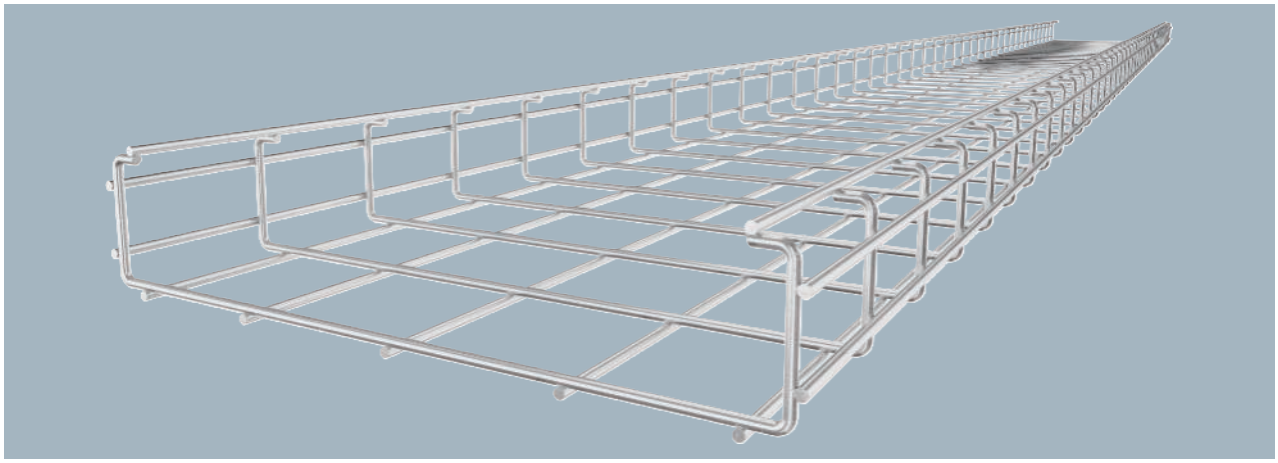
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

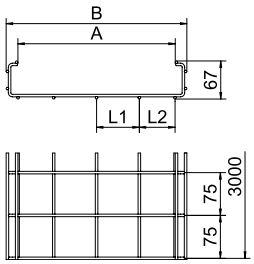
## C mesh cable tray CGR 50



C-shaped mesh cable tray made of spot-welded steel wire of side height 50 mm.
Magnetic shield insulation 15 dB.

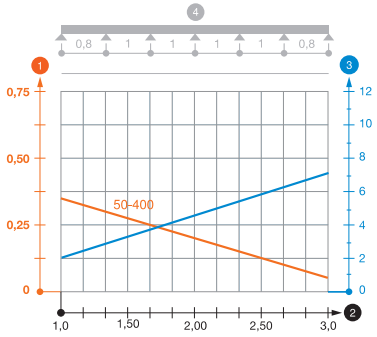
| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **CGR 50 50 A2** | 50 | 4.5 | 3 | 124.667 | **6016200** |
| **CGR 50 100 A2** | 50 | 4.5 | 3 | 133.000 | **6016235** |
| **CGR 50 200 A2** | 50 | 4.5 | 3 | 173.200 | **6016251** |
| **CGR 50 300 A2** | 50 | 4.5 | 3 | 195.333 | **6016253** |
| **CGR 50 400 A2** | 50 | 4.5 | 3 | 222.334 | **6016255** |

### Dimensions




| Type | Length mm | Dim. A mm | Dim. B mm | Usable cross-section cm² |
|---|---|---|---|---|
| CGR 50 50 A2 | 3000 | 26 | 67 | 13 |
| CGR 50 100 A2 | 3000 | 76 | 117 | 33 |
| CGR 50 200 A2 | 3000 | 176 | 217 | 74 |
| CGR 50 300 A2 | 3000 | 276 | 317 | 116 |
| CGR 50 400 A2 | 3000 | 376 | 417 | 157 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m |
|---|---|---|---|
| **CGR 50 50 A2** | 0.95 | 0.6 | 0.35 |
| **CGR 50 100 A2** | 0.95 | 0.6 | 0.35 |
| **CGR 50 200 A2** | 1.1 | 0.7 | 0.4 |
| **CGR 50 300 A2** | 1.1 | 0.7 | 0.4 |
| **CGR 50 400 A2** | 1.1 | 0.7 | 0.4 |

**Load diagram, C mesh cable tray CGR 50 VA**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width



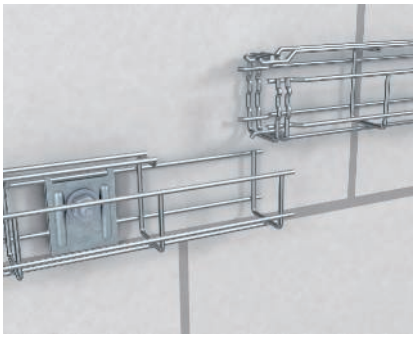
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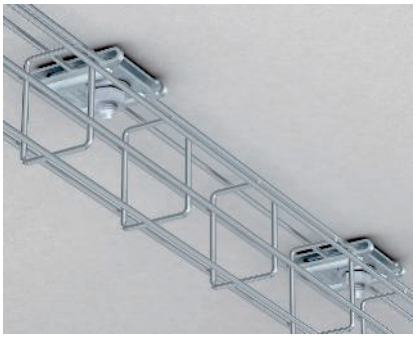

# Magic G mesh cable tray

The Magic G mesh cable tray is the ideal extension of the Magic solutions for the OBO Bettermann mesh cable tray systems. The quick Magic connection means that a screwless and easy-to-mount variant is now offered for the G mesh cable tray system as well. Even in false ceiling mounting, it is an ideal alternative through direct wall or ceiling mounting. The Magic G mesh cable tray is available in four sizes and three surfaces, thus offering ideal solutions for all kinds of tasks.

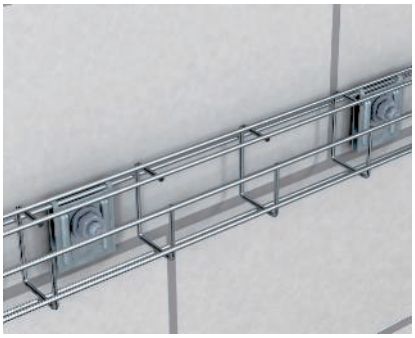
# Mounting aid



**Straight connection of Magic G mesh cable tray**
Creation of a screwless straight connection of the G mesh cable tray, type G GRM, by interconnecting two stock lengths.



**Direct ceiling mounting**
Direct ceiling mounting of the Magic G mesh cable tray using the hold-down clamp, type K 12 1818.



**Wall mounting of G mesh cable trays**
Wall mounting of G mesh cable trays with wall bracket, type K 12 1818.

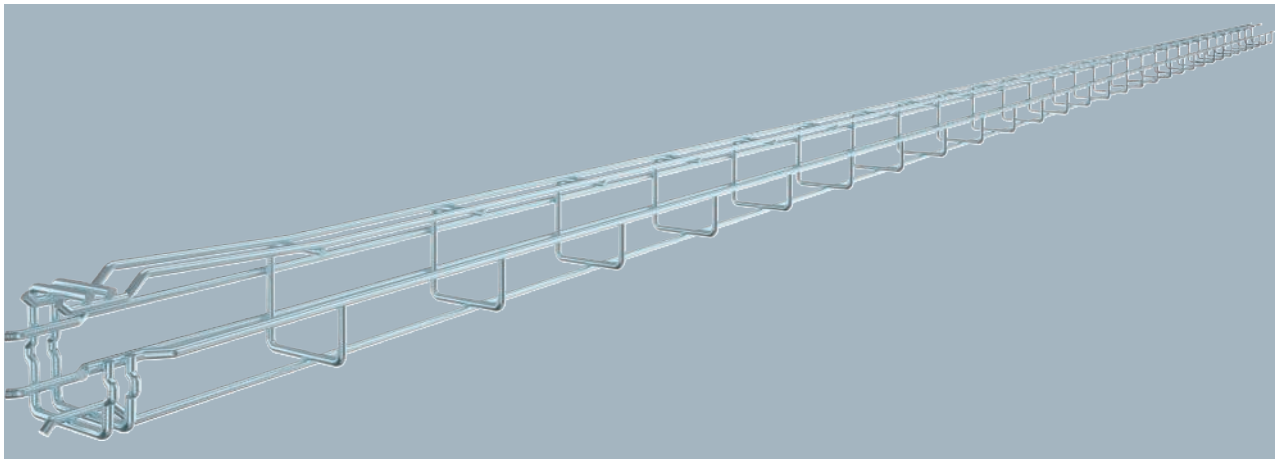


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# G mesh cable trays, side height 50

## G mesh cable tray Magic® 50

St G



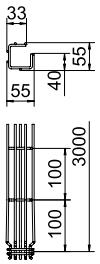
| Type | Side height mm | Wire Ø mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **G-GRM 50 50 G** | 50 | 3.9 | | 3 | 67.067 | **6005535** |

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 50 50 G | 3000 | 55 | 55 | 33 | 38 |

**Dimensions**

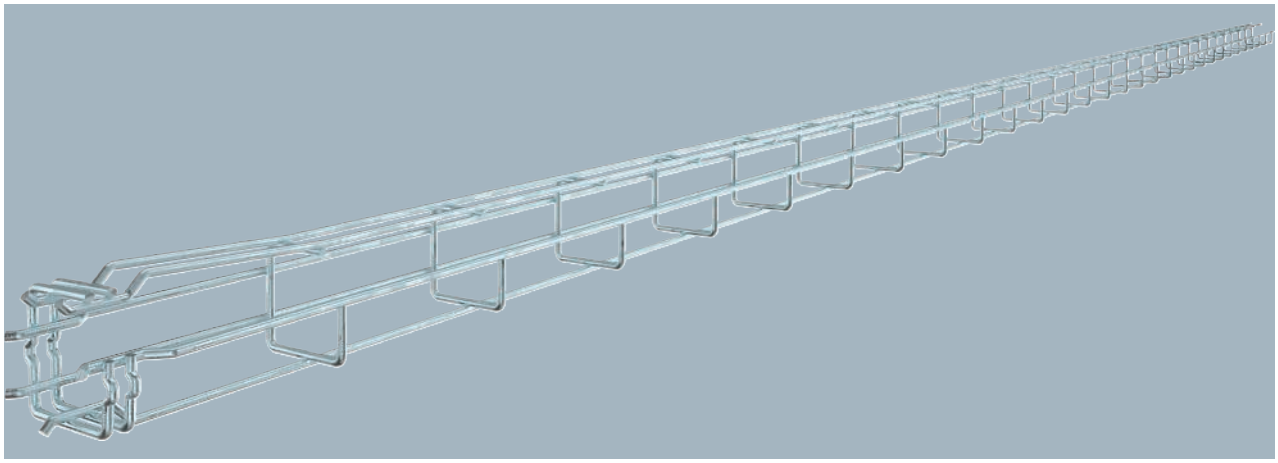



**Load**

| G-GRM 50/50 | | | | |
|---|---|---|---|---|
| | Support spacing [m] | | | |
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Wall fastening K12 1818 | 0.2 | 0.15 | 0.1 | 0.05 |
| Ceiling fastening K12 1818 | 0.25 | 0.2 | 0.10 | 0.05 |

St FT

## G mesh cable tray Magic® 50

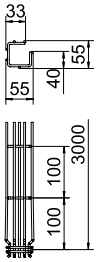


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **G-GRM 50 50 FT** | 50 | 3.9 | 3 | 68.567 | **6005520** |

### Dimensions




| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 50 50 FT | 3000 | 55 | 55 | 33 | 38 |

### Load

| G-GRM 50/50 | | | | |
|---|---|---|---|---|
| | Support spacing [m] | | | |
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Wall fastening K12 1818 | 0.2 | 0.15 | 0.1 | 0.05 |
| Ceiling fastening K12 1818 | 0.25 | 0.2 | 0.10 | 0.05 |

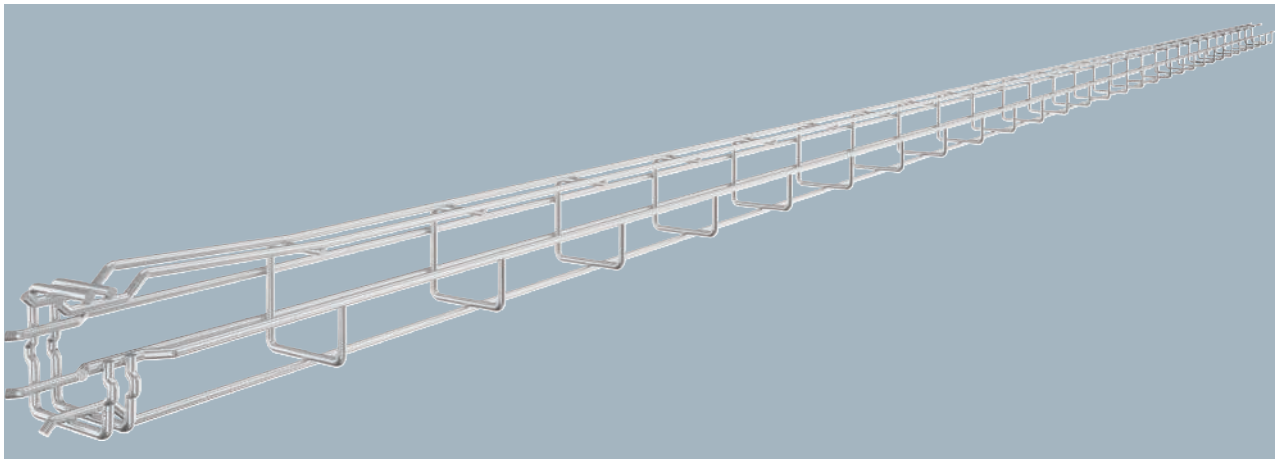


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# G mesh cable trays, side height 50

## G mesh cable tray Magic® 50

A2 2B



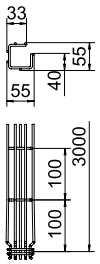
| Type | Side height mm | Wire Ø mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **G-GRM 50 50 A2** | 50 | 3.9 | | 3 | 66.567 | **6005550** |

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 50 50 A2 | 3000 | 55 | 55 | 33 | 38 |

**Dimensions**



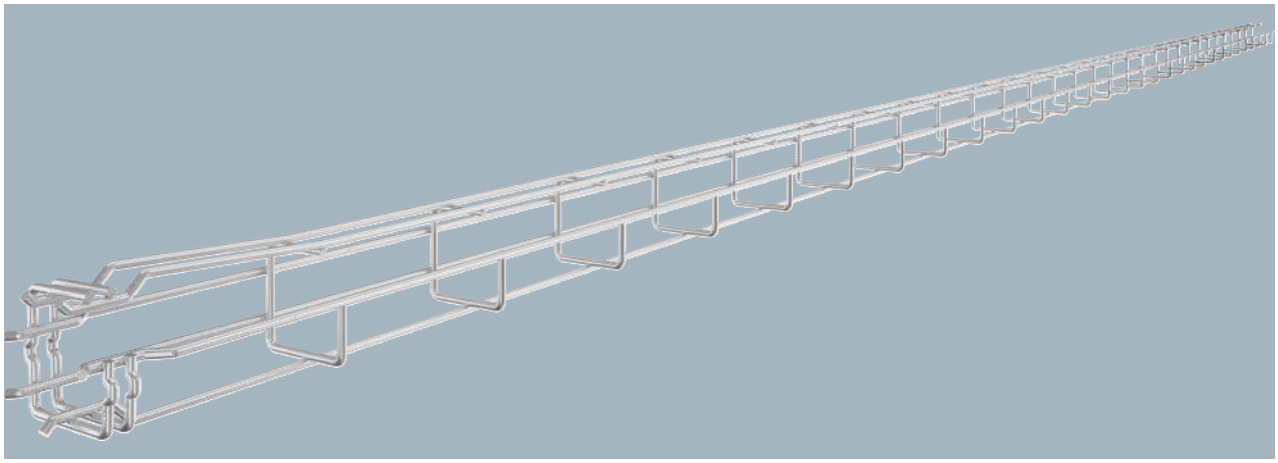

**Load**

**G-GRM 50/50**

| | Support spacing [m] | | | |
|---|---|---|---|---|
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Wall fastening K12 1818 | 0.2 | 0.15 | 0.1 | 0.05 |
| Ceiling fastening K12 1818 | 0.25 | 0.2 | 0.10 | 0.05 |

VA 2B

## G mesh cable tray Magic® 50

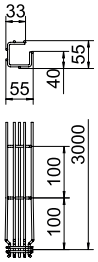


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **G-GRM 50 50 A4** | 50 | 3.9 | 3 | 66.333 | **6005565** |

### Dimensions




| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 50 50 A4 | 3000 | 55 | 55 | 33 | 38 |

### Load

**G-GRM 50/50**

| | Support spacing [m] | | | |
|---|---|---|---|---|
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Wall fastening K12 1818 | 0.2 | 0.15 | 0.1 | 0.05 |
| Ceiling fastening K12 1818 | 0.25 | 0.2 | 0.10 | 0.05 |

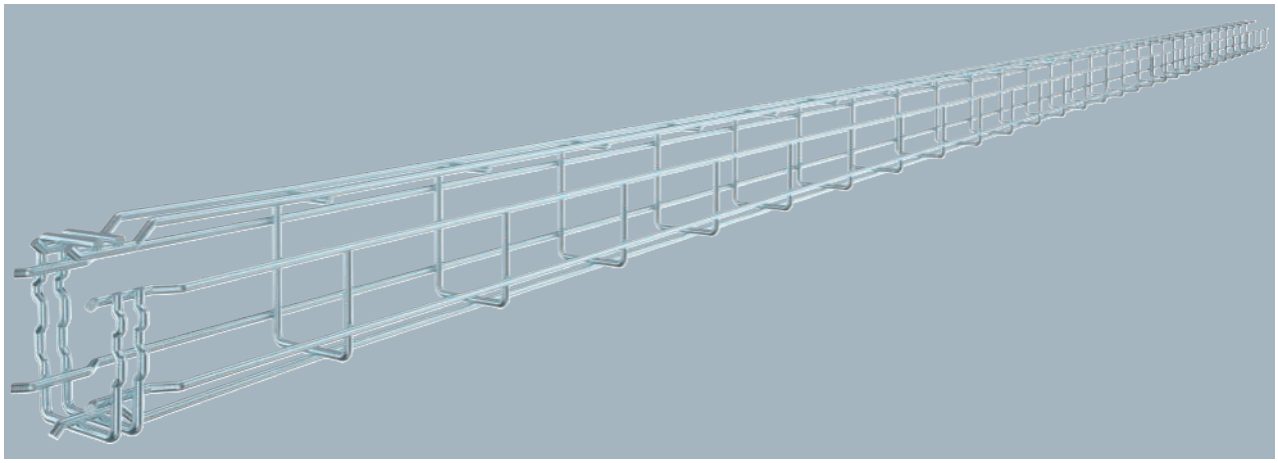


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# G mesh cable trays, side height 75

## G mesh cable tray Magic® 75

St G



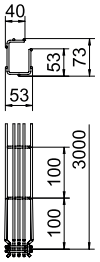
| Type | Side height mm | Wire Ø mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **G-GRM 75 50 G** | 75 | 3.9 | | 3 | 79.867 | **6005538** |

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 75 50 G | 3000 | 53 | 73 | 38 | 53 |

**Dimensions**

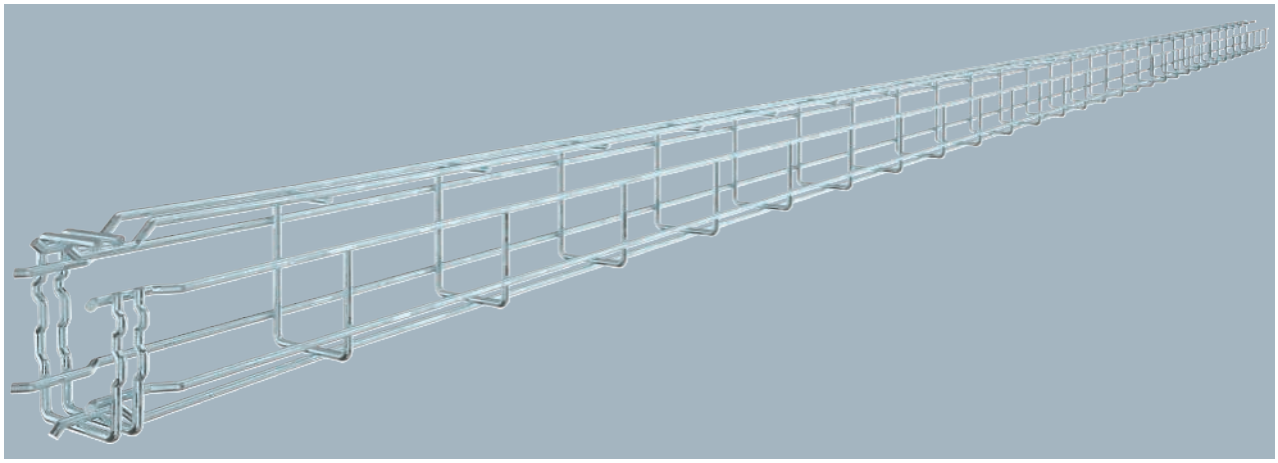



**Load**

| G-GRM 75/50 | | | | |
|---|---|---|---|---|
| | Support spacing [m] | | | |
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Wall fastening K12 1818 | 0.3 | 0.2 | 0.15 | 0.1 |
| Ceiling fastening K12 1818 | 0.35 | 0.2 | 0.15 | 0.1 |

St FT

## G mesh cable tray Magic® 75

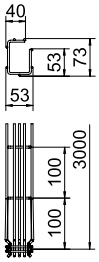


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **G-GRM 75 50 FT** | 75 | 3.9 | 3 | 83.700 | **6005523** |

### Dimensions




| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 75 50 FT | 3000 | 53 | 73 | 38 | 53 |

### Load

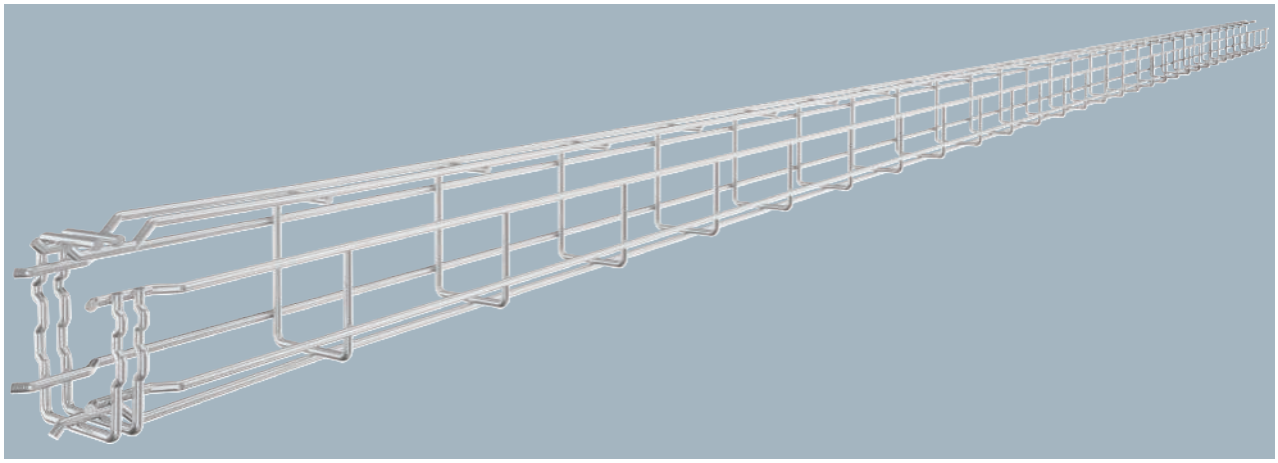
| G-GRM 75/50 | | | | |
|---|---|---|---|---|
| | Support spacing [m] | | | |
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Wall fastening K12 1818 | 0.3 | 0.2 | 0.15 | 0.1 |
| Ceiling fastening K12 1818 | 0.35 | 0.2 | 0.15 | 0.1 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## G mesh cable tray Magic® 75

A2 2B



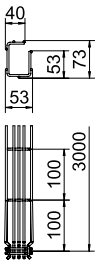
| Type | Side height mm | Wire Ø mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **G-GRM 75 50 A2** | 75 | 3.9 | | 3 | 79.467 | **6005553** |

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 75 50 A2 | 3000 | 53 | 73 | 38 | 53 |

**Dimensions**

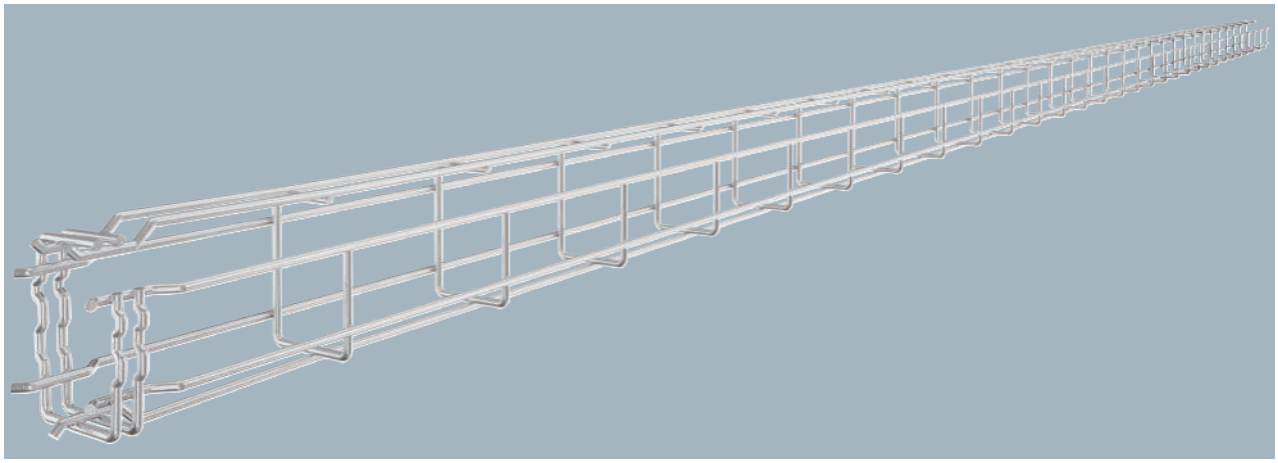



**Load**

| G-GRM 75/50 | | | | |
|---|---|---|---|---|
| | Support spacing [m] | | | |
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Bracket MWAG 12-11 | - | - | - | - |
| Wall fastening K12 1818 | 0.3 | 0.2 | 0.15 | 0.1 |
| Ceiling fastening K12 1818 | 0.35 | 0.2 | 0.15 | 0.1 |

VA 2B

## G mesh cable tray Magic® 75

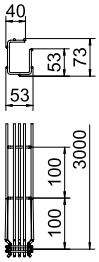


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **G-GRM 75 50 A4** | 75 | 3.9 | 3 | 79.467 | **6005568** |

### Dimensions




| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 75 50 A4 | 3000 | 53 | 73 | 38 | 53 |

### Load

**G-GRM 75/50**

| | Support spacing [m] | | | |
|---|---|---|---|---|
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Bracket MWAG 12-11 | - | - | - | - |
| Wall fastening K12 1818 | 0.3 | 0.2 | 0.15 | 0.1 |
| Ceiling fastening K12 1818 | 0.35 | 0.2 | 0.15 | 0.1 |

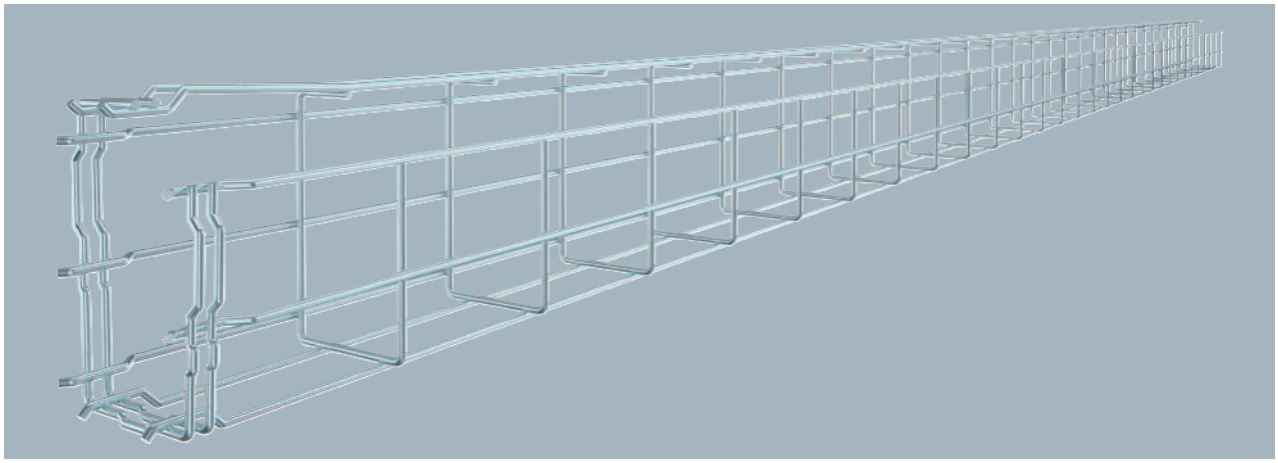


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# G mesh cable trays, side height 125

## G mesh cable tray Magic® 125

St G



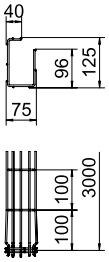
| Type | Side height mm | Wire Ø mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **G-GRM 125 75 G** | 125 | 3.9 | | 3 | 108.000 | **6005541** |

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 125 75 G | 3000 | 75 | 125 | 38 | 96 |

**Dimensions**





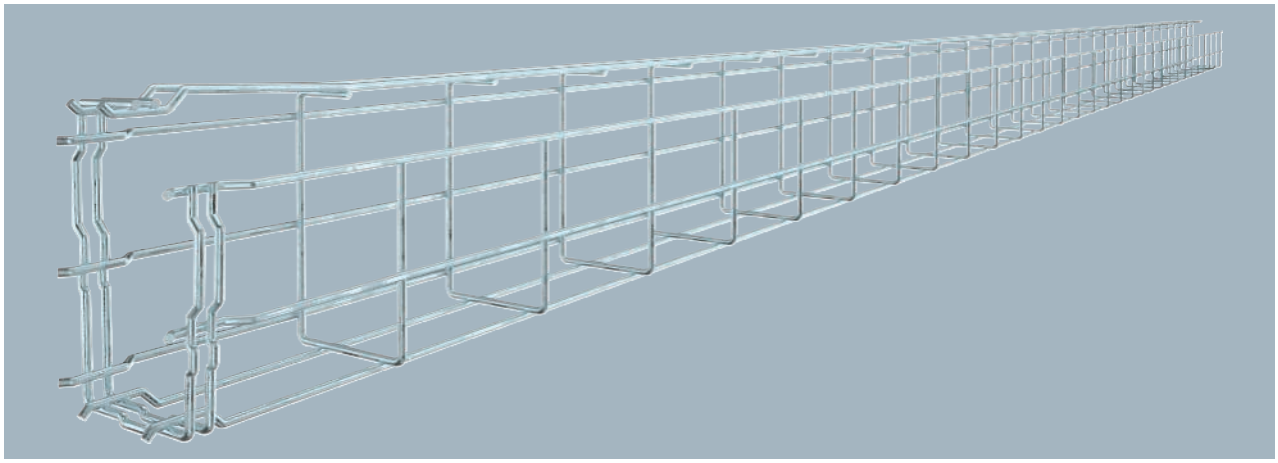


**Load**

| G-GRM 125/75 | | | | |
|---|---|---|---|---|
| | Support spacing [m] | | | |
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Bracket MWAG 12-11 | 0.6 | 0.35 | 0.3 | 0.2 |
| Wall fastening K12 1818 | 0.25 | 0.25 | 0.2 | 0.15 |
| Ceiling fastening K12 1818 | 0.3 | 0.25 | 0.2 | 0.15 |

St FT

## G mesh cable tray Magic® 125

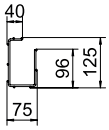


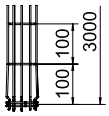
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **G-GRM 125 75 FT** | 125 | 3.9 | 3 | 113.667 | **6005526** |

### Dimensions




| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 125 75 FT | 3000 | 75 | 125 | 38 | 96 |

### Load

**G-GRM 125/75**

| | Support spacing [m] | | | |
|---|---|---|---|---|
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Bracket MWAG 12-11 | 0.6 | 0.35 | 0.3 | 0.2 |
| Wall fastening K12 1818 | 0.25 | 0.25 | 0.2 | 0.15 |
| Ceiling fastening K12 1818 | 0.3 | 0.25 | 0.2 | 0.15 |

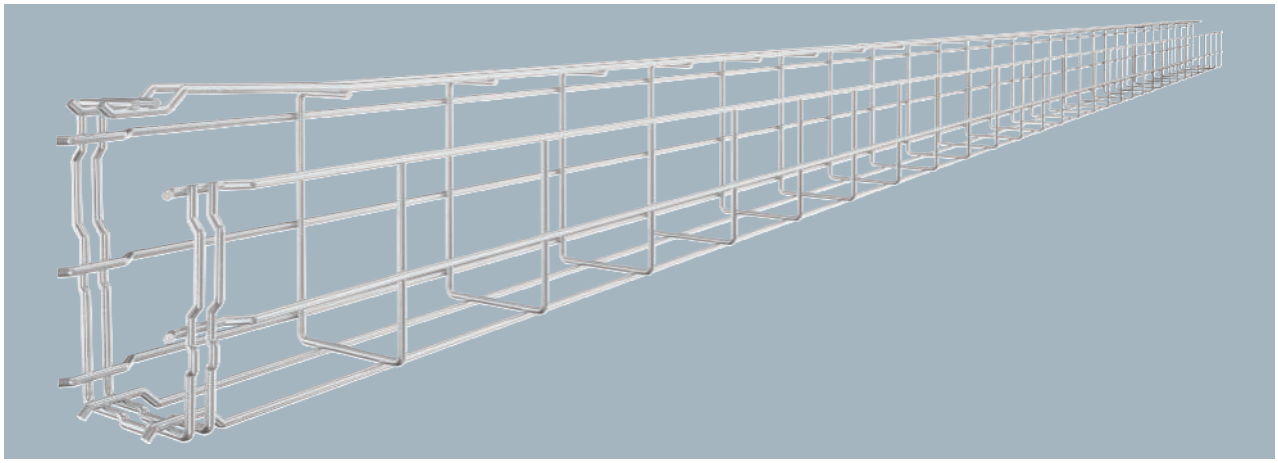


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# G mesh cable trays, side height 125

## G mesh cable tray Magic® 125

A2 2B



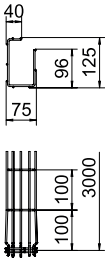
| Type | Side height mm | Wire Ø mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **G-GRM 125 75 A2** | 125 | 3.9 | | 3 | 108.000 | **6005556** |

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 125 75 A2 | 3000 | 75 | 125 | 38 | 96 |

**Dimensions**







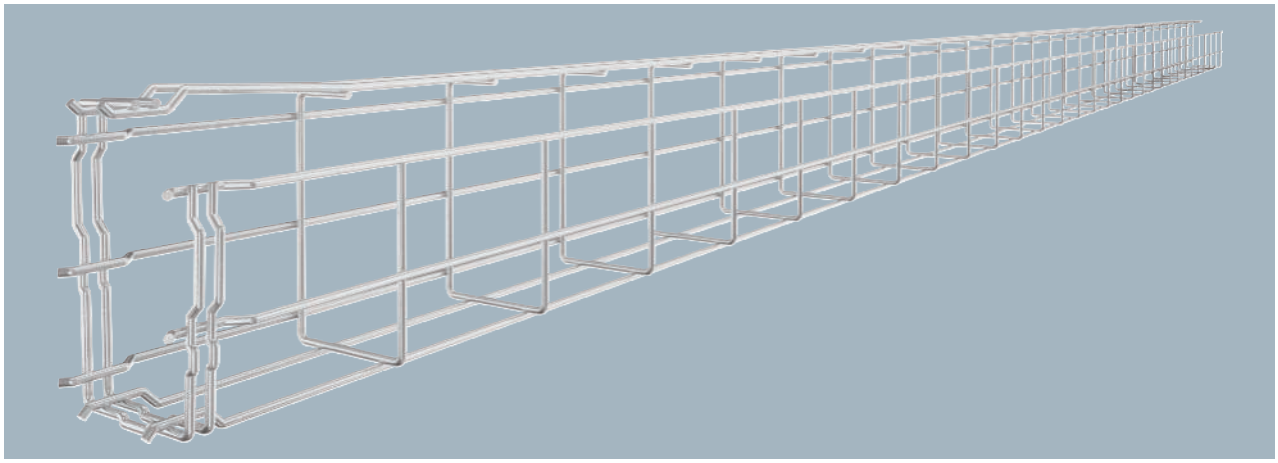
**Load**

**G-GRM 125/75**

| | Support spacing [m] | | | |
|---|---|---|---|---|
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Bracket MWAG 12-11 | 0.6 | 0.35 | 0.3 | 0.2 |
| Wall fastening K12 1818 | 0.25 | 0.25 | 0.2 | 0.15 |
| Ceiling fastening K12 1818 | 0.3 | 0.25 | 0.2 | 0.15 |

VA 2B

## G mesh cable tray Magic® 125

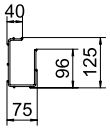


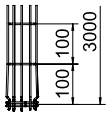
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **G-GRM 125 75 A4** | 125 | 3.9 | 3 | 108.000 | **6005571** |

### Dimensions




| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 125 75 A4 | 3000 | 75 | 125 | 38 | 96 |

### Load

| G-GRM 125/75 | | | | |
|---|---|---|---|---|
| | Support spacing [m] | | | |
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Bracket MWAG 12-11 | 0.6 | 0.35 | 0.3 | 0.2 |
| Wall fastening K12 1818 | 0.25 | 0.25 | 0.2 | 0.15 |
| Ceiling fastening K12 1818 | 0.3 | 0.25 | 0.2 | 0.15 |

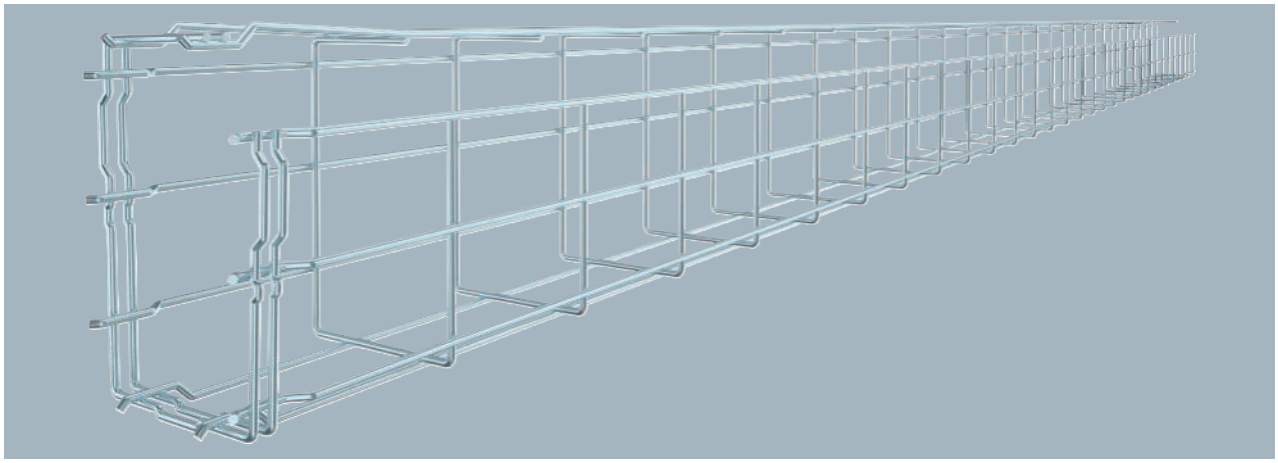


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# G mesh cable trays, side height 150

## G mesh cable tray Magic® 150

St G



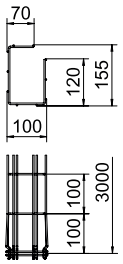
| Type | Side height mm | Wire Ø mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **G-GRM 150 100 G** | 150 | 3.9 | | 3 | 127.333 | **6005544** |

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 150 100 G | 3000 | 100 | 155 | 68 | 120 |

**Dimensions**

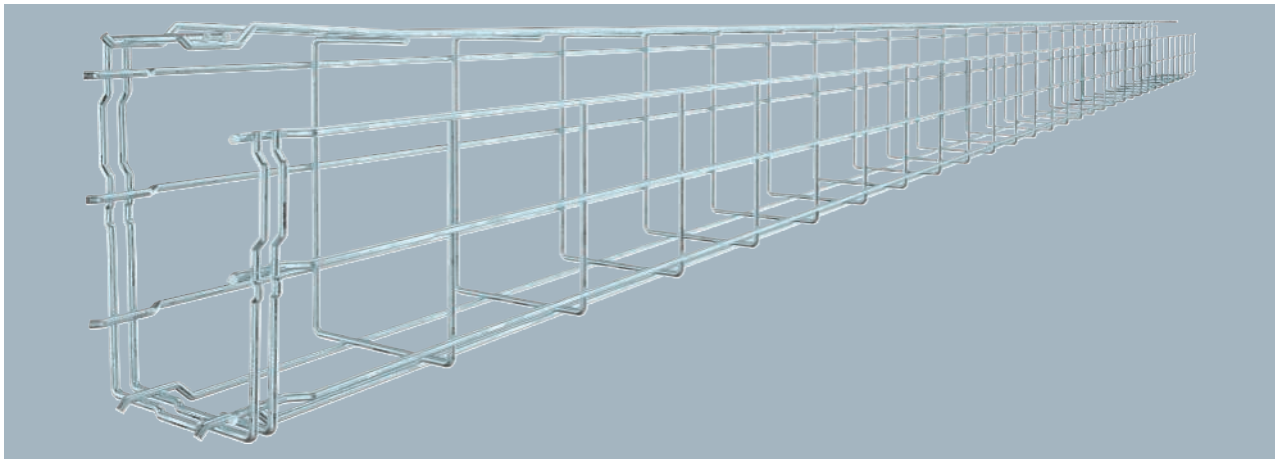



**Load**

| G-GRM 150/100 | | | | |
|---|---|---|---|---|
| | Support spacing [m] | | | |
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Bracket MWAG 12-11 | 0.6 | 0.5 | 0.35 | 0.3 |
| Wall fastening K12 1818 | 0.25 | 0.2 | 0.15 | 0.1 |
| Ceiling fastening K12 1818 | 0.25 | 0.25 | 0.15 | 0.1 |

St FT

## G mesh cable tray Magic® 150

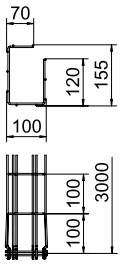


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **G-GRM 150 100 FT** | 150 | 3.9 | 3 | 134.033 | **6005529** |

### Dimensions




| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 150 100 FT | 3000 | 100 | 155 | 68 | 120 |

### Load

**G-GRM 150/100**

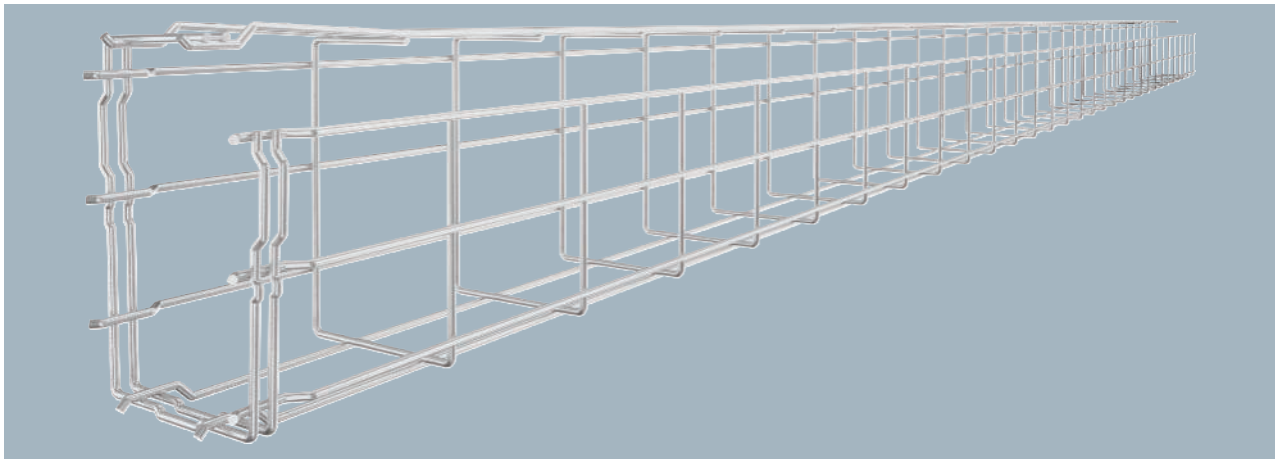
| | Support spacing [m] | | | |
|---|---|---|---|---|
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Bracket MWAG 12-11 | 0.6 | 0.5 | 0.35 | 0.3 |
| Wall fastening K12 1818 | 0.25 | 0.2 | 0.15 | 0.1 |
| Ceiling fastening K12 1818 | 0.25 | 0.25 | 0.15 | 0.1 |



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## G mesh cable tray Magic® 150

A2 2B



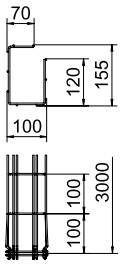
| Type | Side height mm | Wire Ø mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **G-GRM 150 100 A2** | 150 | 3.9 | | 3 | 127.067 | **6005559** |

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 150 100 A2 | 3000 | 100 | 155 | 68 | 120 |

**Dimensions**

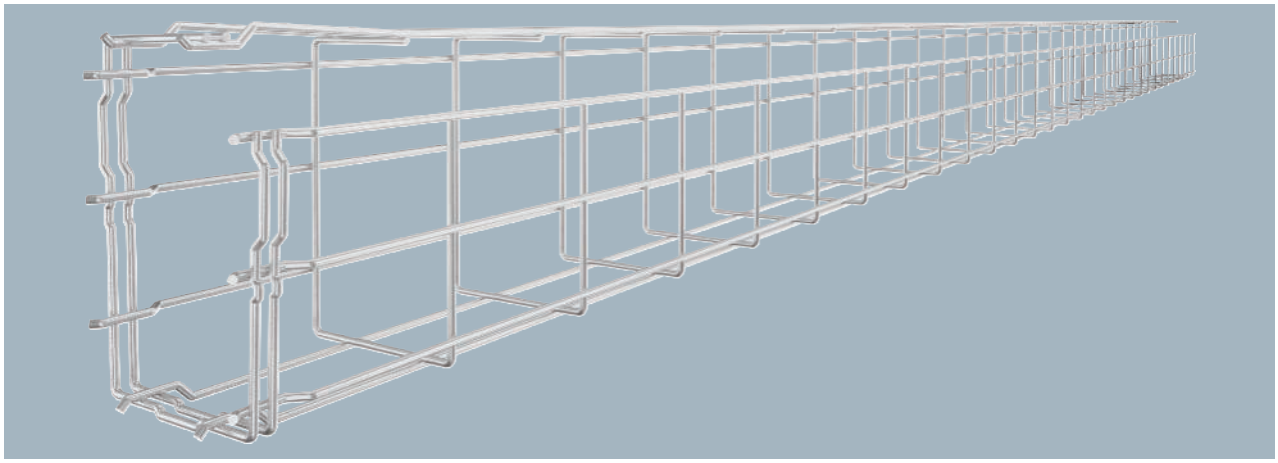



**Load**

| G-GRM 150/100 | | | | |
|---|---|---|---|---|
| | Support spacing [m] | | | |
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Bracket MWAG 12-11 | 0.6 | 0.5 | 0.35 | 0.3 |
| Wall fastening K12 1818 | 0.25 | 0.2 | 0.15 | 0.1 |
| Ceiling fastening K12 1818 | 0.25 | 0.25 | 0.15 | 0.1 |

VA 2B

## G mesh cable tray Magic® 150

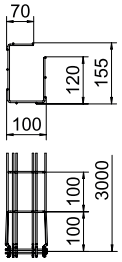


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **G-GRM 150 100 A4** | 150 | 3.9 | 3 | 127.260 | **6005574** |

### Dimensions




| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---|---|---|---|---|---|
| G-GRM 150 100 A4 | 3000 | 100 | 155 | 68 | 120 |

### Load

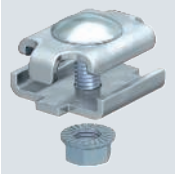
| G-GRM 150/100 | | | | |
|---|---|---|---|---|
| | Support spacing [m] | | | |
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Bracket MWAG 12-11 | 0.6 | 0.5 | 0.35 | 0.3 |
| Wall fastening K12 1818 | 0.25 | 0.2 | 0.15 | 0.1 |
| Ceiling fastening K12 1818 | 0.25 | 0.25 | 0.15 | 0.1 |

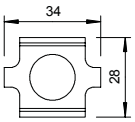


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## Joint connector GSV 34

St G






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GSV 34 G | 20 | 3.155 | 6016596 |

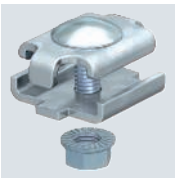
Screwed version of joint connector for mesh cable trays.

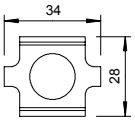
Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
200–300 mm = 3 units
400–450 mm = 4 units
500–600 mm = 5 units

Including FRS M6 x 20 bolt with flange nut.

## Joint connector GSV 34

St FT






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GSV 34 FT | 20 | 3.150 | 6016634 |

Screwed version of joint connector for mesh cable trays.

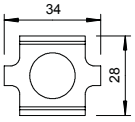
Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
200–300 mm = 3 units
400–450 mm = 4 units
500–600 mm = 5 units

Including FRS M6 x 20 bolt with flange nut.

## Joint connector GSV 34

A2 VA 2B






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GSV 34 A2 | 20 | 2.572 | 6016642 |
| GSV 34 A4 | 20 | 3.000 | 6016648 |

Screwed version of joint connector for mesh cable trays.

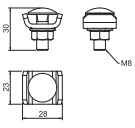
Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
200–300 mm = 3 units
400–450 mm = 4 units
500–600 mm = 5 units

Including screw of type FRS M6 x 20.

## GUV 6 joint connector

St FT






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GUV 6 FT | 20 | 4.226 | 6016573 |

Joint connector for mesh cable tray, type SGR.

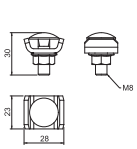
Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
200–300 mm = 3 units
400–450 mm = 4 units
500–600 mm = 5 units

Including FRS M8 x 25 bolt with flange nut.

A2 2B

## GUV 6 joint connector

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GUV 6 A2 | | 20 | 4.154 | 6016574 |





Joint connector for mesh cable tray, type SGR.

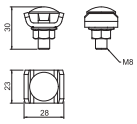
Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
200–300 mm = 3 units
400–450 mm = 4 units
500–600 mm = 5 units

Including FRS M8 x 20 bolt with flange nut.

St G

## GUV 6 joint connector

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GUV 6 G | | 20 | 3.945 | 6016572 |





Including FRS M8 x 25 bolt with flange nut.

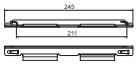
Joint connector for mesh cable tray, type SGR.

Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
200–300 mm = 3 units
400–450 mm = 4 units
500–600 mm = 5 units

St FS DD

## GRV 245 mesh cable tray connector, long

| Type | Width mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| GRV 245 FS | 30 | | 20 | 13.500 | 6016680 |
| GRV 245 DD | 30 | | 20 | 13.500 | 6016684 |





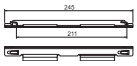
Long mesh cable tray connectors for screwless straight connection of mesh cable trays.

Two straight connectors, type GRV 245, are used for each connection point.
Can be used from a mesh cable tray width of 100 mm.
The FS variant is used to connect electrogalvanised mesh cable trays, the DD variant to connect hot/hot-dip galvanised mesh cable trays and the VA variant to connect stainless steel mesh cable trays.

VA 2B

## GRV 245 mesh cable tray connector, long

| Type | Width mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| GRV 245 A4 | 30 | | 20 | 13.500 | 6016688 |





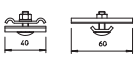
Long mesh cable tray connectors for screwless straight connection of mesh cable trays.

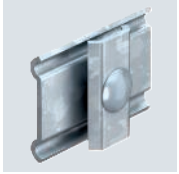
Two straight connectors, type GRV 245, are used for each connection point.
Can be used from a mesh cable tray width of 100 mm.
The FS variant is used to connect electrogalvanised mesh cable trays, the DD variant to connect hot/hot-dip galvanised mesh cable trays and the VA variant to connect stainless steel mesh cable trays.

St FT

## K 11/262 side connector

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| K 11 262 FT | | 25 | 7.500 | 6015107 |





Screwed version of joint connector for mesh cable trays.

Including screw of type FRS M6 x 20.

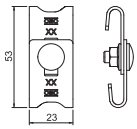


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## GEV 36 corner connector

St G





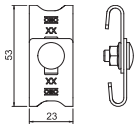

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GEV 36 G | 20 | 3.040 | 6016715 |

Including FRS M6 x 12 bolt with flange nut.
Corner connector for the creation of mesh cable tray bend elements.

## GEV 36 corner connector

St FT





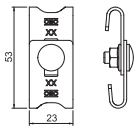

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GEV 36 FT | 20 | 3.160 | 6016723 |

Including FRS M6 x 12 bolt with flange nut.
Corner connector for the creation of mesh cable tray bend elements.

## GEV 36 corner connector

A2 VA 2B



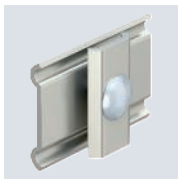



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GEV 36 A2 | 20 | 3.040 | 6016731 |
| GEV 36 A4 | 10 | 3.040 | 6016764 |

Including FRS M6 x 12 bolt with flange nut.
Corner connector for the creation of mesh cable tray bend elements.

## Side connector K 11/262

A2 2B



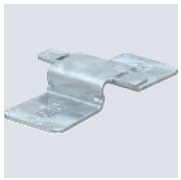


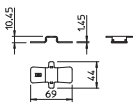

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| K 11 262 A2 | 25 | 7.500 | 6016367 |

Screwed version of joint connector for mesh cable trays.
Including screw of type FRS M6 x 20.

## GRS quick connector

St DD






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GRS 3.9 DD | 50 | 2.500 | 6016545 |
| GRS 4.8 DD | 50 | 2.500 | 6016561 |

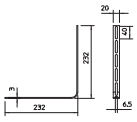
Quick connector for screwless straight connection of mesh cable trays without special tools, for mesh cable trays up to a width of 150 mm.
Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
When selecting the connector, please take the appropriate wire thickness of the mesh cable tray into account.

St FT

## Slotted steel strap, bent

| Type | Dimension mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| OSG 20X3 FT | 20x3 | 25 | 15.800 | 6017371 |

Bent slotted steel strap for creation of bends and tees.



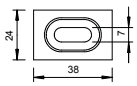


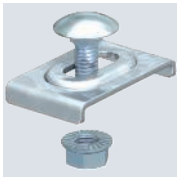

St G

## GKT 38 hold-down clamp

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GKT 38 G | 20 | 2.123 | 6017037 |

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



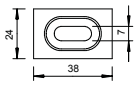



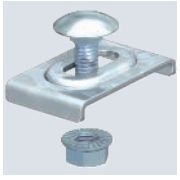
St FT

## GKT 38 hold-down clamp

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GKT 38 FT | 20 | 2.123 | 6017061 |

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



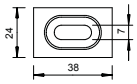



A2 VA 2B

## GKT 38 hold-down clamp

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GKT 38 A2 | 20 | 2.107 | 6017045 |
| GKT 38 A4 | 10 | 2.200 | 6017092 |

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



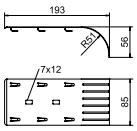


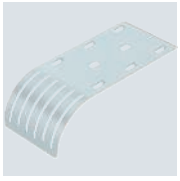

St FS FT

## Drop-out plate

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KAB GR FS | 10 | 14.100 | 6220139 |
| KAB GR FT | 10 | 14.100 | 6220142 |

The exit plate allows compliance with specific bend radii, thus preventing possible cable breaks. Can be mounted in a lengthwise direction and at the side, can be arranged for greater widths.



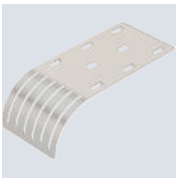



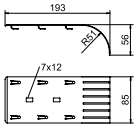


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## Drop-out plate

A2 2B





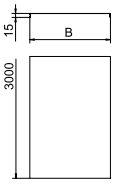

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KAB GR A2 | 10 | 14.100 | 6220145 |

The exit plate allows compliance with specific bend radii, thus preventing possible cable breaks. Can be mounted in a lengthwise direction and at the side, can be arranged for greater widths.

## Cover for mesh cable tray, latchable

St FS





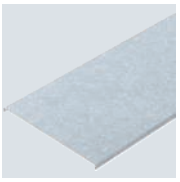

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| DGRR 50 FS | 50 | 0.75 | 3000 | 3 | 46.333 | 6001840 |
| DGRR 100 FS | 98 | 0.75 | 3000 | 3 | 73.333 | 6001842 |
| DGRR 150 FS | 148 | 0.75 | 3000 | 3 | 102.667 | 6001844 |
| DGRR 200 FS | 198 | 0.75 | 3000 | 3 | 132.333 | 6001846 |
| DGRR 300 FS | 298 | 0.75 | 3000 | 3 | 191.000 | 6001848 |
| DGRR 400 FS | 398 | 0.75 | 3000 | 3 | 250.000 | 6001850 |
| DGRR 500 FS | 498 | 0.75 | 3000 | 3 | 309.000 | 6001852 |
| DGRR 600 FS | 598 | 0.75 | 3000 | 3 | 370.000 | 6001854 |

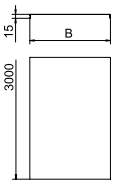
With transverse bead from 400 mm width.

Latchable cover for mesh cable trays. Protects cables from damage, contamination and moisture from above. Suitable for interior areas without particular requirements.

## Cover for mesh cable tray, latchable

St FT






| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| DGRR 50 FT | 50 | 0.75 | 3000 | 3 | 52.333 | 6001820 |
| DGRR 100 FT | 98 | 0.75 | 3000 | 3 | 83.000 | 6001822 |
| DGRR 150 FT | 148 | 0.75 | 3000 | 3 | 116.333 | 6001824 |
| DGRR 200 FT | 198 | 0.75 | 3000 | 3 | 149.667 | 6001826 |
| DGRR 300 FT | 298 | 0.75 | 3000 | 3 | 216.333 | 6001828 |
| DGRR 400 FT | 398 | 0.75 | 3000 | 3 | 282.667 | 6001830 |
| DGRR 500 FT | 498 | 0.75 | 3000 | 3 | 349.667 | 6001832 |
| DGRR 600 FT | 598 | 0.75 | 3000 | 3 | 418.000 | 6001834 |

With transverse bead from 400 mm width.

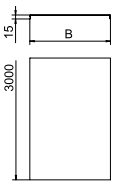
Latchable cover for mesh cable trays. Protects cables from damage, contamination and moisture from above. Suitable for industrial areas such as mechanical engineering.

When using covers outdoors, additional measures against the influence of wind may need to be taken.

## Cover for mesh cable tray, latchable

A2 2B






| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| DGRR 50 A2 | 50 | 0.80 | 3000 | 3 | 47.333 | 6001860 |
| DGRR 100 A2 | 97 | 0.80 | 3000 | 3 | 78.333 | 6001862 |
| DGRR 150 A2 | 148 | 0.80 | 3000 | 3 | 109.667 | 6001864 |
| DGRR 200 A2 | 198 | 0.80 | 3000 | 3 | 141.000 | 6001866 |
| DGRR 300 A2 | 298 | 0.80 | 3000 | 3 | 203.667 | 6001868 |
| DGRR 400 A2 | 398 | 0.80 | 3000 | 3 | 266.333 | 6001870 |
| DGRR 500 A2 | 498 | 0.80 | 3000 | 3 | 329.333 | 6001872 |
| DGRR 600 A2 | 598 | 0.80 | 3000 | 3 | 393.333 | 6001874 |

With transverse bead from 400 mm width.

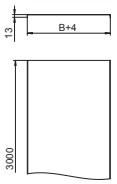
Latchable cover for mesh cable trays. Protects cables from damage, contamination and moisture from above. Suitable for the foodstuffs or chemicals industries.

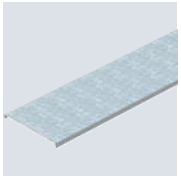
When using covers outdoors, additional measures against the influence of wind may need to be taken.

St FS DD

## Unperforated cover

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DRLU 050 FS** | 50 | 1.00 | 3000 | 3 | 59.767 | **6052056** |
| **DRLU 100 FS** | 100 | 1.00 | 3000 | 3 | 99.000 | **6052103** |
| **DRLU 150 FS** | 150 | 1.00 | 3000 | 3 | 138.267 | **6052153** |
| **DRLU 200 FS** | 200 | 1.00 | 3000 | 3 | 177.500 | **6052210** |
| **DRLU 300 FS** | 300 | 1.00 | 3000 | 3 | 256.000 | **6052307** |
| **DRLU 400 FS** | 400 | 1.00 | 3000 | 3 | 334.500 | **6052405** |
| **DRLU 500 FS** | 500 | 1.50 | 3000 | 3 | 619.234 | **6052512** |
| **DRLU 550 FS** | 550 | 1.50 | 3000 | 3 | 678.100 | **6052571** |
| **DRLU 600 FS** | 600 | 1.50 | 3000 | 3 | 737.000 | **6052609** |
| **DRLU 050 DD** | 50 | 1.00 | 3000 | 3 | 59.770 | **6052640** |
| **DRLU 100 DD** | 100 | 1.00 | 3000 | 3 | 99.000 | **6052643** |
| **DRLU 150 DD** | 150 | 1.00 | 3000 | 3 | 138.267 | **6052647** |
| **DRLU 200 DD** | 200 | 1.00 | 3000 | 3 | 177.500 | **6052650** |
| **DRLU 300 DD** | 300 | 1.00 | 3000 | 3 | 256.000 | **6052656** |
| **DRLU 400 DD** | 400 | 1.00 | 3000 | 3 | 334.500 | **6052662** |
| **DRLU 500 DD** | 500 | 1.50 | 3000 | 3 | 619.234 | **6052668** |
| **DRLU 550 DD** | 550 | 1.50 | 3000 | 3 | 678.100 | **6052671** |
| **DRLU 600 DD** | 600 | 1.50 | 3000 | 3 | 737.000 | **6052674** |



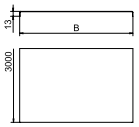



Cover for cable trays and mesh cable trays.
When using covers outdoors, additional measures against the influence of wind must be taken.
Transverse bead from 500 mm width.

A2 A4 2B

## Unperforated cover

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DRLU 050 A2** | 50 | 1.00 | 3000 | 3 | 59.767 | **6052821** |
| **DRLU 100 A2** | 100 | 1.00 | 3000 | 3 | 99.000 | **6052824** |
| **DRLU 200 A2** | 200 | 1.00 | 3000 | 3 | 177.500 | **6052831** |
| **DRLU 300 A2** | 300 | 1.00 | 3000 | 3 | 256.000 | **6052834** |
| **DRLU 400 A2** | 400 | 1.00 | 3000 | 3 | 334.500 | **6052837** |
| **DRLU 500 A2** | 500 | 1.50 | 3000 | 3 | 619.167 | **6052841** |
| **DRLU 600 A2** | 600 | 1.50 | 3000 | 3 | 736.900 | **6052844** |
| **DRLU 100 A4** | 100 | 1.00 | 3000 | 3 | 99.000 | **6052991** |
| **DRLU 200 A4** | 200 | 1.00 | 3000 | 3 | 177.500 | **6052993** |
| **DRLU 300 A4** | 300 | 1.00 | 3000 | 3 | 256.000 | **6052994** |
| **DRLU 400 A4** | 400 | 1.00 | 3000 | 3 | 334.500 | **6052995** |
| **DRLU 500 A4** | 500 | 1.25 | 3000 | 3 | 619.167 | **6052996** |
| **DRLU 600 A4** | 600 | 1.25 | 3000 | 3 | 736.900 | **6052998** |



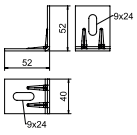



Cover for cable trays and mesh cable trays.
When using covers outdoors, additional measures against the influence of wind must be taken.
Transverse bead from 500 mm width.

St FS FT

## Ceiling bracket K6

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **K 6 101 FS** | 40 | 7.000 | **6343090** |
| **K 6 101 FT** | 40 | 7.000 | **6343104** |






Ceiling bracket for universal fixing to ceiling and wall, or on suspension profile, type AP 45.



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# System accessories

## Securing hook for G-GRM

VA 2B



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| G-GRM-SH 4401 | 50 | 0.740 | 6005650 |

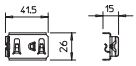
For protection against bending in case of fire; usable in the types G-GRM 125 75 and G-GRM 150 100.

# Hold-down clamps

## Hold-down clamp for separating retainer fastening in GRM

VA 2B





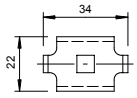

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KS GR A2 | 30 | 0.830 | 6062282 |

Hold-down clamp for fastening separating retainer in mesh cable trays.

## GKS 34 hold-down clamp

St G





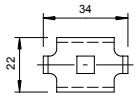

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GKS 34 G | 20 | 2.188 | 6016855 |

Including FRS M6 x 20 bolt with flange nut.
Clamp for fixing mesh cable trays to wall or support brackets.

## GKS 34 hold-down clamp

St FT





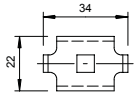

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GKS 34 FT | 20 | 2.021 | 6016820 |
| GKS 34 FT SP | 25 | 2.000 | 6016858 |

Including FRS M6 x 20 bolt with flange nut.
Hold-down clamp for fixing mesh cable trays to wall or support brackets.

## GKS 34 hold-down clamp

A2 VA 2B






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GKS 34 A2 | 20 | 2.000 | 6016839 |
| GKS 34 A4 | 10 | 1.976 | 6016859 |

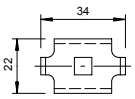
Including FRS M6 x 20 bolt with nut and washer.
Hold-down clamp for fixing mesh cable trays to wall or support brackets.

St FS

## Hold-down clamp

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GKS 34 FS SP | | 25 | 2.000 | 6016857 |

Including FRS M6 x 20 bolt with nut-and-washer assembly.
Clamp for fixing mesh cable trays to wall or support brackets.



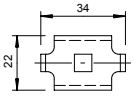



St

## Clamping piece FTK, light grey

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GKS 34 FTK LGR | Light grey | 100 | 2.200 | 6479367 |

The surface of the clamping piece is hot-dip galvanised and is also plastic-coated in the RAL shade 7032. Including FRS M6 x 20 bolt with flange nut.
Hold-down clamp for fixing mesh cable trays to wall or support brackets.



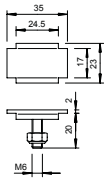


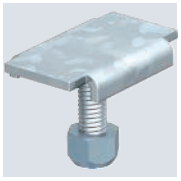

St FT

## KS 23/35 hold-down clamp

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| KS 23 35 FT | | 100 | 2.015 | 6015174 |

Including M6 locknut.
Clamp for mounting bracket, type MW 45 and MW 90.



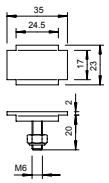



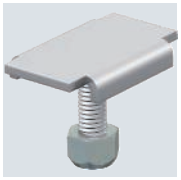
A2 2B

## KS 23/35 hold-down clamp

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| KS 23 35 A2 | | 20 | 2.015 | 6016529 |

Including M6 locknut.
Clamp for mounting bracket, type MW 45 and MW 90.



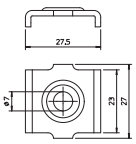



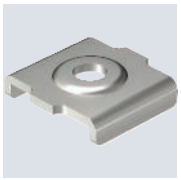
St G

## GKB 34 hold-down clamp

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GKB 34 G | | 20 | 1.105 | 6016674 |

Clamp for fastening mesh cable trays of width 50 mm to the floor.



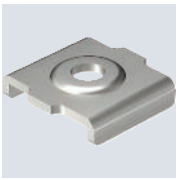


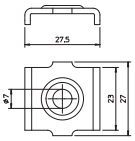
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# Hold-down clamps

## GKB 34 hold-down clamp

A2 2B



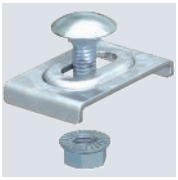


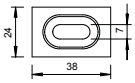

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GKB 34 A2 | 20 | 1.105 | 6016676 |

Clamp for fastening mesh cable trays of width 50 mm to the floor.

## GKT 38 hold-down clamp

St G



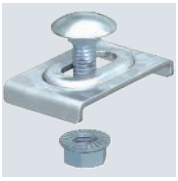


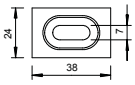

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GKT 38 G | 20 | 2.123 | 6017037 |

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

## GKT 38 hold-down clamp

St FT





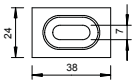

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GKT 38 FT | 20 | 2.123 | 6017061 |

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

## GKT 38 hold-down clamp

A2 VA 2B



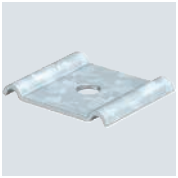


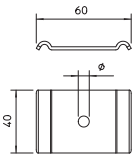

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GKT 38 A2 | 20 | 2.107 | 6017045 |
| GKT 38 A4 | 10 | 2.200 | 6017092 |

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

## GKS 50 hold-down clamp

St FS FT






| Type | Hole Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GKS 50 07 FS | 7 | 50 | 3.522 | 6015263 |
| GKS 50 07 FS SP | 7 | 25 | 4.000 | 6015290 |
| GKS 50 11 FS | 11 | 50 | 4.000 | 6015276 |
| GKS 50 07 FT | 7 | 50 | 3.590 | 6015271 |
| GKS 50 11 FT | 11 | 50 | 3.500 | 6015278 |

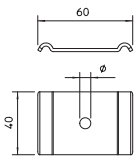
Use on mesh cable trays with 50 x 100 mm grid only.
Hold-down clamp for fastening mesh cable trays on the ground or on stand-off brackets of type DBL.

VA 2B

## Hold-down clamp GKS 50

| Type | Hole Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **GKS 50 11 A4** | 11 | 20 | 4.000 | **6015280** |

Use on mesh cable trays with 50 x 100 mm grid only.
Clamp for fastening mesh cable trays.



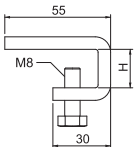


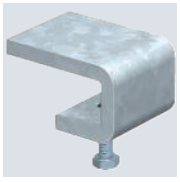

St FT

## Beam clamp

| Type | Height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **KL 20 FT** | 20 | 10 | 19.000 | **6003850** |
| **KL 30 FT** | 30 | 10 | 22.500 | **6003869** |

When selecting the beam clamp, please take the flange thickness of the steel girder into account.
Beam clamp for fastening the mesh bracket, type GW 40 80 to steel girders.



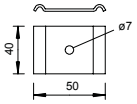



VA 2B

## Hold-down clamp

| Type | Hole Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **GKS 50 11 OP A4** | 11 | 50 | 4.000 | **6015315** |
| **GKS 50 07 A4** | 7 | 50 | 4.000 | **6015310** |

Use on mesh cable trays with 50 x 100 mm grid only.
Hold-down clamp for fastening mesh cable trays. Including lens head screw.



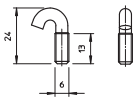



A2 A4 2B

## HS M6 hook screw

| Type | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **HS M6x13 A2** | M6 | 100 | 0.573 | **1154990** |
| **HS M8x60 A4** | M8 | 25 | 2.330 | **1154975** |

Hook screw for fastening cable tracks on the bracket.



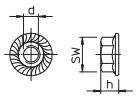


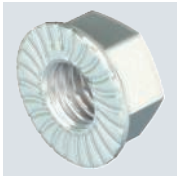

VA

## Combination nut

| Type | Dim. d mm | Dim. h mm | SW mm | Resist-ance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **KM M8 A4** | 8 | 8 | 13 | A4-70 | 100 | 0.800 | **6408920** |
| **KM M10 A4** | 10 | 10 | 17 | A4-70 | 100 | 1.320 | **6408930** |
| **KM M12 A4** | 12 | 12 | 19 | A4-70 | 100 | 2.260 | **6408940** |
| **KM M6 A4** | 6 | 6 | 10 | A4-70 | 100 | 0.315 | **6408970** |

Combination nut with washer based on EN 1661.



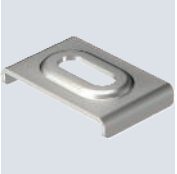


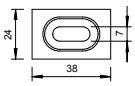
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# Hold-down clamps

## Hold-down clamp GKB 38

A2 2B



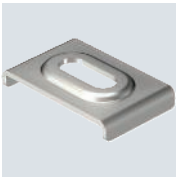


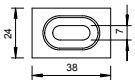

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GKB 38 A2 | | 20 | 1.061 | 6017018 |

Hold-down clamp for floor fastening of mesh cable trays.

## GKB 38 hold-down clamp

St G






| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GKB 38 G | | 20 | 1.074 | 6017020 |

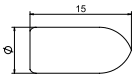
Hold-down clamp for floor fastening of mesh cable trays.

# End caps

## Protective caps

PVC





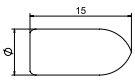

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GR KS 3.9 OR | Pure orange | 500 | 0.045 | 6003750 |
| GR KS 4.8 OR | Pure orange | 500 | 0.030 | 6003754 |

Protective cap to cover cut wire ends of mesh cable trays.

## End cap

PVC






| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| SGR KS OR | Pure orange | 500 | 0.036 | 6003758 |

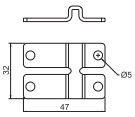
End cap to cover cut wire ends of mesh cable trays.

# Wall and central fastener

## Wall clamp and central hanger

St FT






| Type | Version | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| WB GR FT | For wire thickness 6.0 mm | 20 | 2.540 | 6017160 |

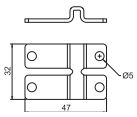
Fastening component for direct mounting of mesh cable trays to the wall and floor. Can be screwed or riveted on.

A4 2B

## Wall clamp and central hanger

| Type | Version | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WB GR A4** | For wire thickness 6.0 mm | 20 | 2.423 | **6017164** |

Fastening component for direct mounting of mesh cable trays to the wall and floor. Can be screwed or riveted on.



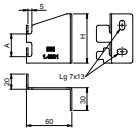


A2 2B

## WBH CGR50 wall holder, horizontal

| Type | Dim. A mm | Dim. H mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WBH CGR50 A2** | 30 | 65 | 25 | 8.600 | **6016411** |

Wall holder for horizontal wall fastening of the C mesh cable tray. Screwless mesh cable tray fastening on the wall holder.



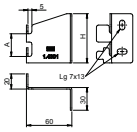


A2 2B

## WBV CGR50 wall holder, vertical

| Type | Dim. A mm | Dim. H mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WBV CGR50 A2** | 75 | 110 | 25 | 16.000 | **6016415** |

Wall holder for vertical wall fastening of the C mesh cable tray. Screwless mesh cable tray fastening on the wall holder.



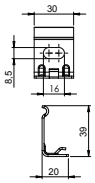


St FT

## Wall holder for GRM 35x50 mesh cable tray

| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WH GRM35 FT** | 35 | 50 | 10 | 1.950 | **6016443** |

Wall holder for wall fastening of mesh cable trays, type GRM 35 50.



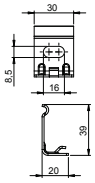


VA 2B

## Wall holder for GRM 35x50 mesh cable tray

| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WH GRM35 A4** | 35 | 50 | 10 | 1.950 | **6016445** |

Wall holder for fastening of mesh cable trays GRM 35 50.





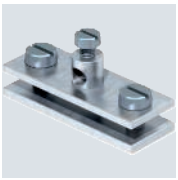


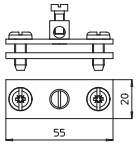
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# Equipotential bonding and earthing

## Earthing terminal for cables and flat conductors

St G





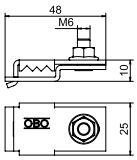

| Type | Shipping box Piece | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| 939 | 150 | | 25 | 5.932 | 5043107 |

- For cables to 16 mm² and flat conductors
- Fit: cable to 16 mm² x max. FL 30
- With riveted brass connection terminal and one cylinder bolt, M5 x 12, with two cylinder bolts, M6 x 16

## Grounding clamp

St FS






| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| VEK-GRM 3.9 FS | | 25 | 3.850 | 6016694 |
| VEK-GRM 4.8 FS | | 25 | 3.800 | 6016696 |

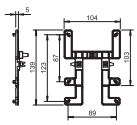
The connection and earthing terminal is used to reduce electrical resistance and therefore improves the electric conductivity in GRM mesh cable systems in the area of the joint. This allows fulfilment of the high demands in terms of the transition resistance according to, for example, NEMA and CSA. Furthermore, the connection and earthing terminal is compulsory when used as a protective conductor in a mesh cable tray system (national regulations have to be followed when creating such a system).

# Mounting elements, junction box

## Fastening element for mesh cable tray

PC





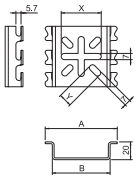
| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| BE TS GR | | 10 | 2.300 | 2007833 |

The fastening element BE TS GR can be used to attach OBO junction boxes, type T60 and T100, to mesh cable trays quickly and in a few actions.
This keeps the junction box securely in position. However, it can be quickly dismantled as necessary.

## Mounting plate for mesh cable tray

St FT





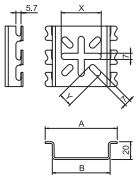

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| MPG 65 FT | | 30 | 9.100 | 6006486 |
| MPG 90 FT | | 30 | 16.800 | 6006487 |

Mounting plate for screwless wall fastening of mesh cable trays.

## Mounting plate for mesh cable tray

VA 2B






| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| MPG 65 A4 | | 30 | 8.800 | 6006488 |
| MPG 90 A4 | | 30 | 16.100 | 6006489 |

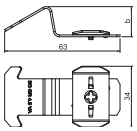
Accessories can be fastened to the mounting plate. In addition, the plate can be used for wall brackets.
Mounting plate for screwless wall fastening of mesh cable trays.

VA 2B

## Hold-down clip

| Type | Dim. b mm | Version | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| BC SGR A2 | 19 | For wire Ø 6.0 mm | 20 | 1.900 | 6016668 |

Hold-down clip for the screwless mounting of mesh cable trays onto MS profile rails with a slot width of 22 mm.





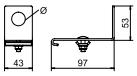
# Side holder

St FS

## Side holder for cable gland

| Type | Hole Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| SH KAB 20 FS | 20 | 10 | 15.000 | 6015425 |
| SH KAB 25 FS | 25 | 10 | 14.700 | 6015433 |

Side holder with punched hole for accepting cable glands.





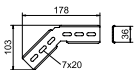
# Mounting bracket

St FT

## 45° mounting bracket MW 45 SL10

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| MW 45 SL10 FT | 20 | 21.000 | 6017320 |

Each with two clamps of type KS 23 35.
45° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.



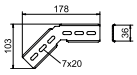


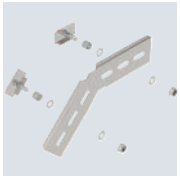
A2 2B

## 45° mounting angle MW 45 SL10

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| MW 45 SL10 A2 | 20 | 20.000 | 6017339 |

Each with two clamps of type KS 23 35.
45° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.



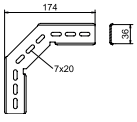


St FT

## MW 90 SL 90° mounting bracket

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| MW 90 SL17 FT | 20 | 24.890 | 6017347 |
| MW 90 SL23 FT | 20 | 35.400 | 6017355 |

Each with two clamps of type KS 23/35.
90° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.







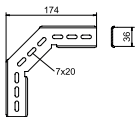
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# Mounting bracket

## MW 90 SL 90° mounting bracket

A2 2B






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| MW 90 SL17 A2 | 20 | 27.000 | 6016278 |
| MW 90 SL23 A2 | 20 | 34.700 | 6016308 |

Each with two clamps of type KS 23/35.
90° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.

# Tool

## Bolt cutter

St

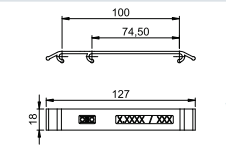


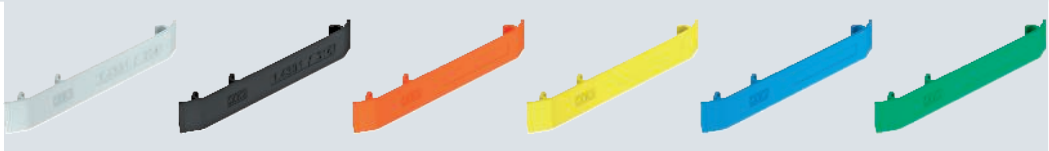
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| GR BS | 1 | 85.000 | 6017698 |

Bolt cutter for cutting mesh cable trays.

# Labelling

## Identification clip



| Type | KS GR LGR | KS GR VKG | KS GR OR | KS GR ZGB | KS GR LBL | KS GR SGN |
|---|---|---|---|---|---|---|
| Colour | Light grey | Traffic grey B | Pastel orange | Zinc yellow | Light blue | Signal green |
| Weight kg/100 pc. | 0.769 | 0.920 | 0.763 | 0.742 | 0.763 | 0.763 |
| Pack Piece | 10 | 10 | 10 | 10 | 10 | 10 |
| Item no. | 6017710 | 6017711 | 6017712 | 6017713 | 6017714 | 6017715 |

PA Polyamide

The identification clip is fastened to the mesh cable tray without screws simply by attaching it.

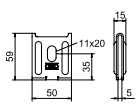
Identification clip for screwless fastening on mesh cable trays.

# Holders and fastenings

## Wall clamp/central hanger

St FS






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| K 12 1818 FS | 25 | 7.800 | 6437109 |

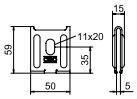
As wall fastening up to max. mesh cable tray width 200 mm.
As centre suspension up to max. mesh cable tray width 200 mm.
As a pendulum suspension from a width of 300 mm.
Wall clamp and central hanger for mesh cable trays.

A2 2B

## Wall clamp/central hanger

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| K12 1818 A2 | 25 | 7.700 | 6016421 |

As wall fastening up to max. mesh cable tray width 200 mm.
As centre suspension up to max. mesh cable tray width 200 mm.
As a pendulum suspension from a width of 300 mm.
Wall clamp and central hanger for mesh cable trays.



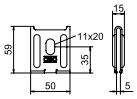



A4 2B

## Wall clamp/central hanger

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| K12 1818 A4 | 25 | 8.940 | 6016425 |

As wall fastening up to max. mesh cable tray width 200 mm.
As centre suspension up to max. mesh cable tray width 200 mm.
As a pendulum suspension from a width of 300 mm.
Wall clamp and central hanger for mesh cable trays.



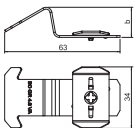



VA 2B

## Hold down clip

| Type | Dim. b mm | Version | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| BC GR 4.8 A2 | 17 | For wire thicknesses 3.9 and 4.8 mm | 20 | 1.760 | 6016665 |

Hold-down clip for the screwless mounting of mesh cable trays onto MS profile rails with a slot width of 22 mm.



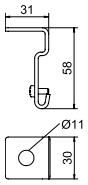



St FS FT

## Side holder

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| SH M10 FS | 50 | 5.800 | 6015336 |
| SH M10 FT | 50 | 5.650 | 6015338 |

Side holder for suspension of mesh cable trays.



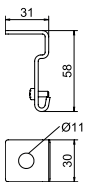


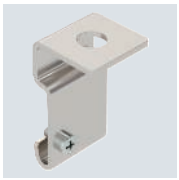

VA 2B

## Side holder

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| SH M10 A4 | 20 | 5.500 | 6015340 |

Side holder for suspension of mesh cable trays.





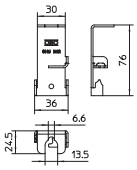
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# Holders and fastenings

## Side holder, universal

St FS DD





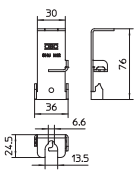

| Type | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **SHU M12 FS** | 0.5 | 50 | 5.100 | **6015322** |
| **SHU M12 DD** | 0.5 | 50 | 5.100 | **6015324** |

Side holder to fasten cable trays, mesh cable trays and cable ladders to ceilings using a threaded rod.

## Side holder, universal

A4 2B



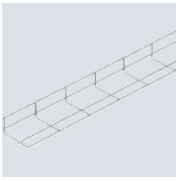


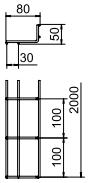

| Type | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **SHU M12 A4** | 0.5 | 50 | 5.100 | **6015328** |

Side holder to fasten cable trays, mesh cable trays and cable ladders to ceilings using a threaded rod.

## Mesh angle

St FT





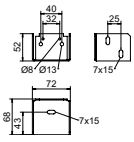

| Type | Length mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **GW 40 80 FT** | 2000 | 4.4 | 2 | 63.000 | **6003818** |

Mesh angle for routing cables in steel girders.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.

## WL wall bearing for luminaire support tray

St FS






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **WL 607.5 LTR FS** | 10 | 21.000 | **6050345** |

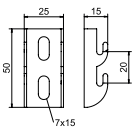
Wall bearing for mounting of luminaire support trays on the wall.

# Hook rails for G mesh cable tray

## Hook rail for G mesh cable tray

St FS






| Type | Length mm | Width mm | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **G-GRM-R50 FS** | 50 | 25 | 15 | 25 | 2.300 | **6005605** |

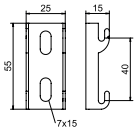
Hook rail for wall mounting of G mesh cable trays

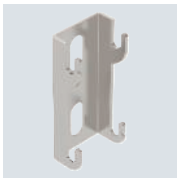
A2 2B

## Hook rail for G mesh cable tray

| Type | Length mm | Width mm | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| G-GRM-R50 A2 | 50 | 25 | 15 | 25 | 2.300 | 6005635 |

Hook rail for wall mounting of G mesh cable trays



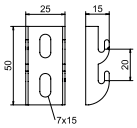



St FS

## Hook rail for G mesh cable tray

| Type | Length mm | Width mm | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| G-GRM-R75 FS | 55 | 25 | 15 | 25 | 2.400 | 6005607 |

Hook rail for wall mounting of G mesh cable trays



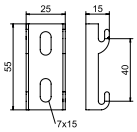


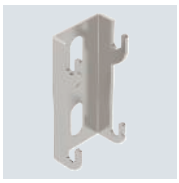

A2 2B

## Hook rail for G mesh cable tray

| Type | Length mm | Width mm | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| G-GRM-R75 A2 | 55 | 25 | 15 | 25 | 2.400 | 6005637 |

Hook rail for wall mounting of G mesh cable trays



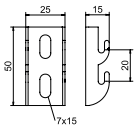



St FS

## Hook rail for G mesh cable tray

| Type | Length mm | Width mm | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| G-GRM-R125 FS | 105 | 25 | 15 | 25 | 4.600 | 6005612 |

Hook rail for wall mounting of G mesh cable trays



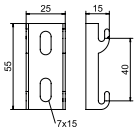


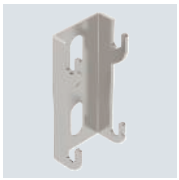

A2 2B

## Hook rail for G mesh cable tray

| Type | Length mm | Width mm | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| G-GRM-R125 A2 | 105 | 25 | 15 | 25 | 4.600 | 6005642 |

Hook rail for wall mounting of G mesh cable trays



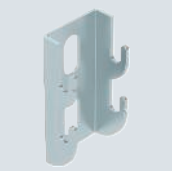


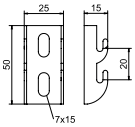
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# Hook rails for G mesh cable tray

## Hook rail for G mesh cable tray

St FS



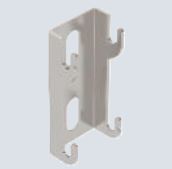


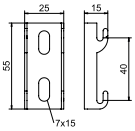

| Type | Length mm | Width mm | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **G-GRM-R150 FS** | 110 | 25 | 15 | 25 | 4.800 | **6005615** |

Hook rail for wall mounting of G mesh cable trays

## Hook rail for G mesh cable tray

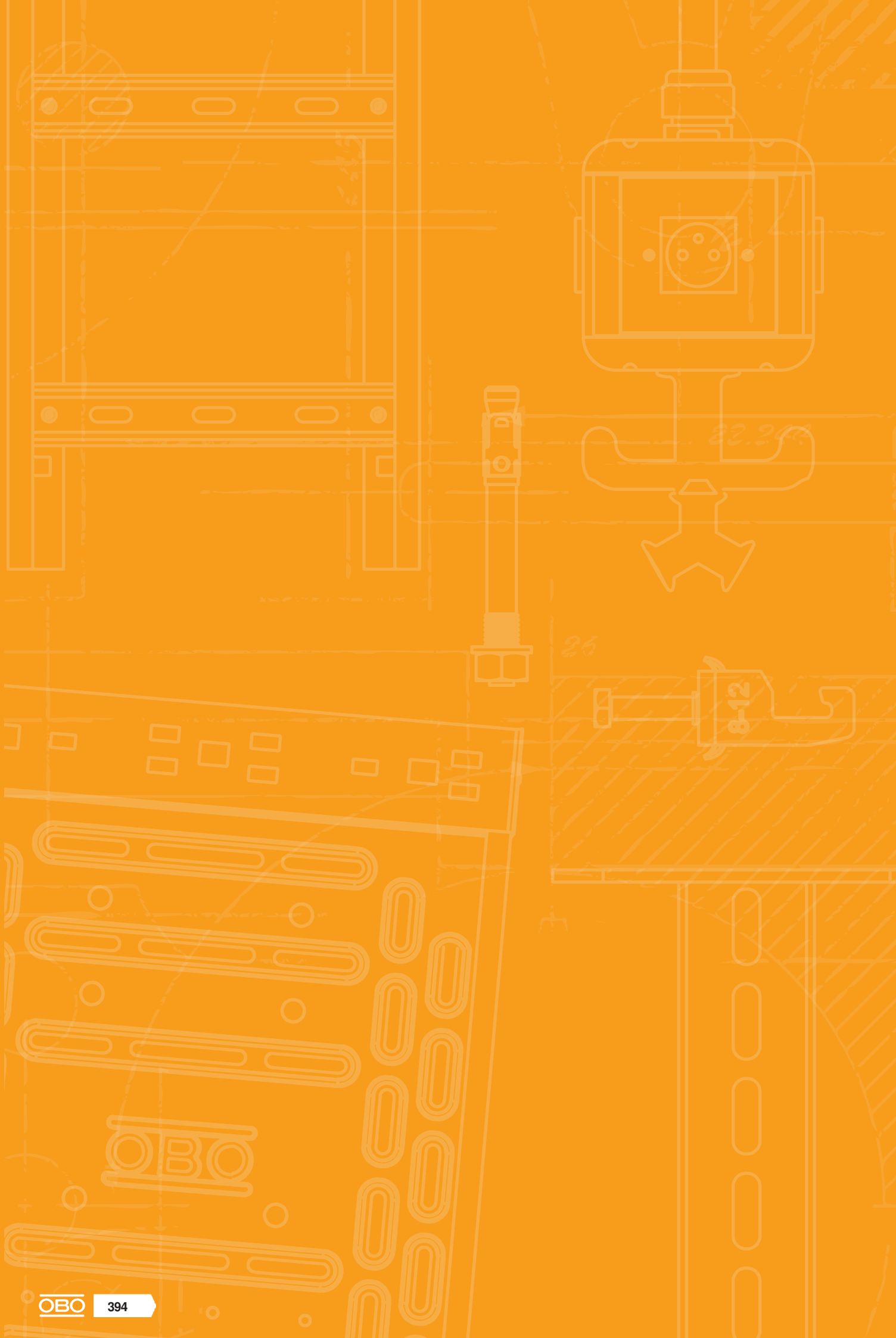
A2 2B






| Type | Length mm | Width mm | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **G-GRM-R150 A2** | 110 | 25 | 15 | 25 | 4.800 | **6005645** |

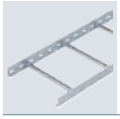
Hook rail for wall mounting of G mesh cable trays



# Cable ladder systems



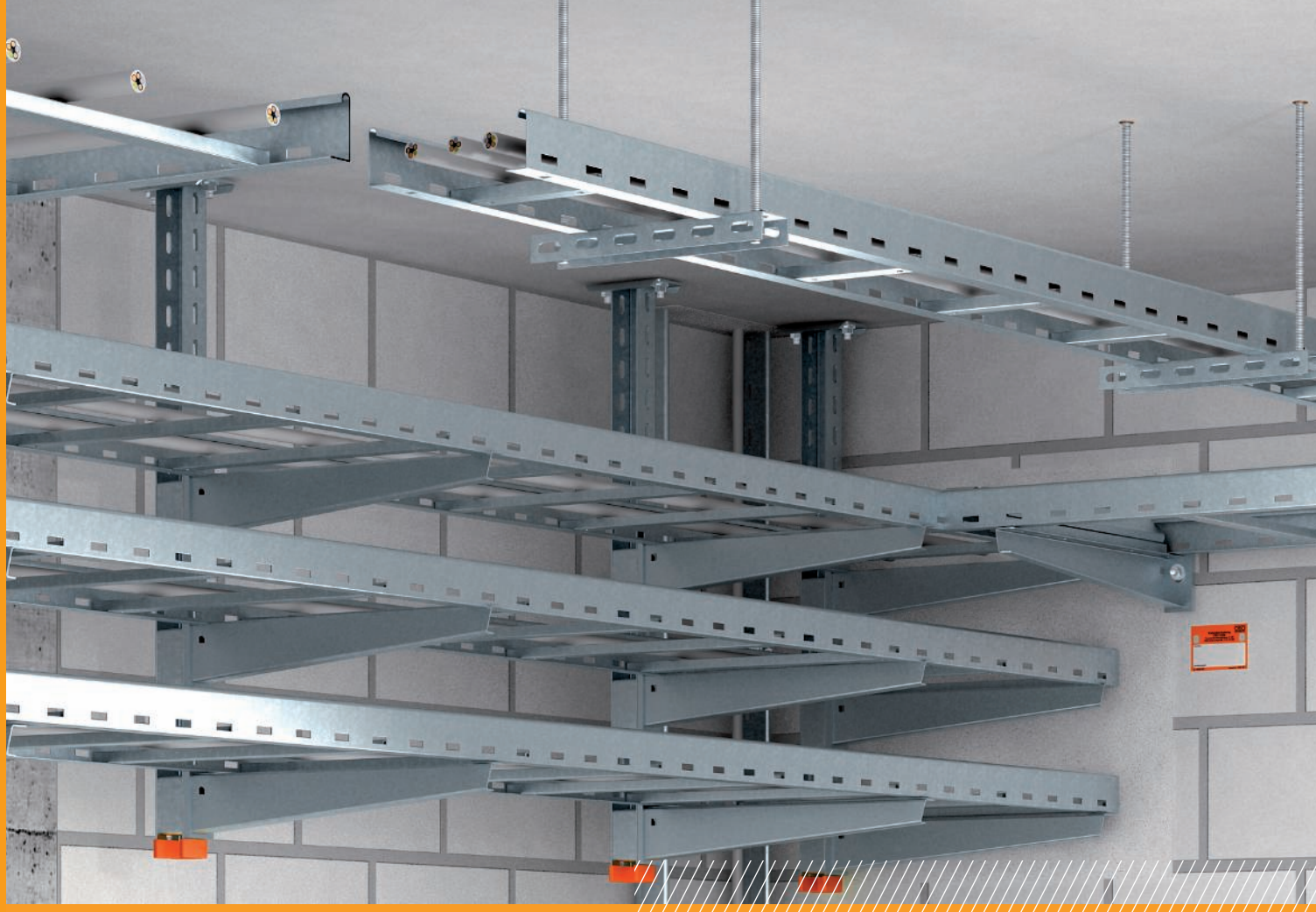

Cable ladders 396



Vertical ladders 486

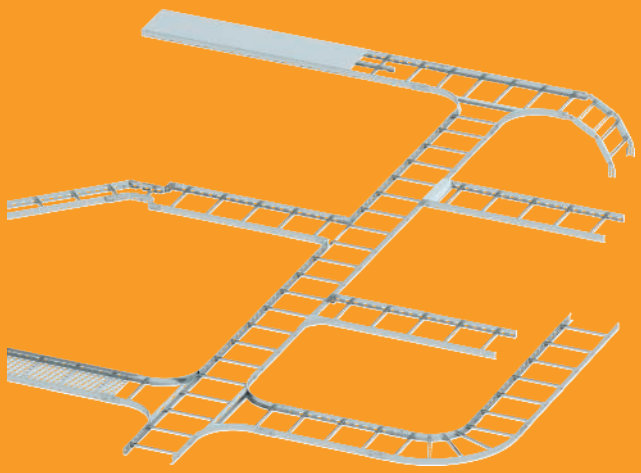



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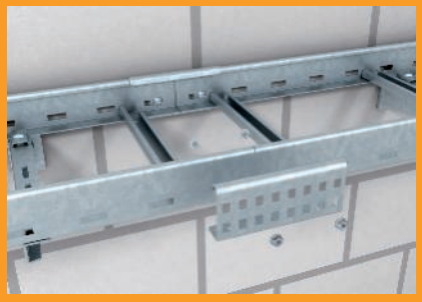
# Riveted cable ladder systems

The high load capacity and good ventilation of the OBO cable ladder systems can offer tangible benefits, in particular during the installation of power cables. OBO Bettermann's cable ladder systems can be used universally and, due to the continuous rail and rung perforation, can offer countless installation benefits. A factor guaranteeing easy mounting is the option of integrated fastening of cables using OBO U clamps to the rungs, which are available in various different versions.





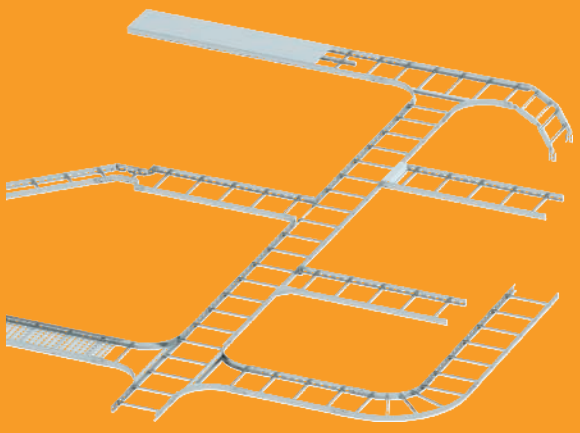






# Welded cable ladder systems

The high load capacity and good ventilation of the OBO cable ladder systems can offer tangible benefits, in particular during the installation of power cables. OBO Bettermann's cable ladder systems can be used universally and, due to the continuous rail and rung perforation, can offer countless installation benefits. A factor guaranteeing easy mounting is the option of integrated fastening of cables using OBO U clamps to the rungs, which are available in various different versions.





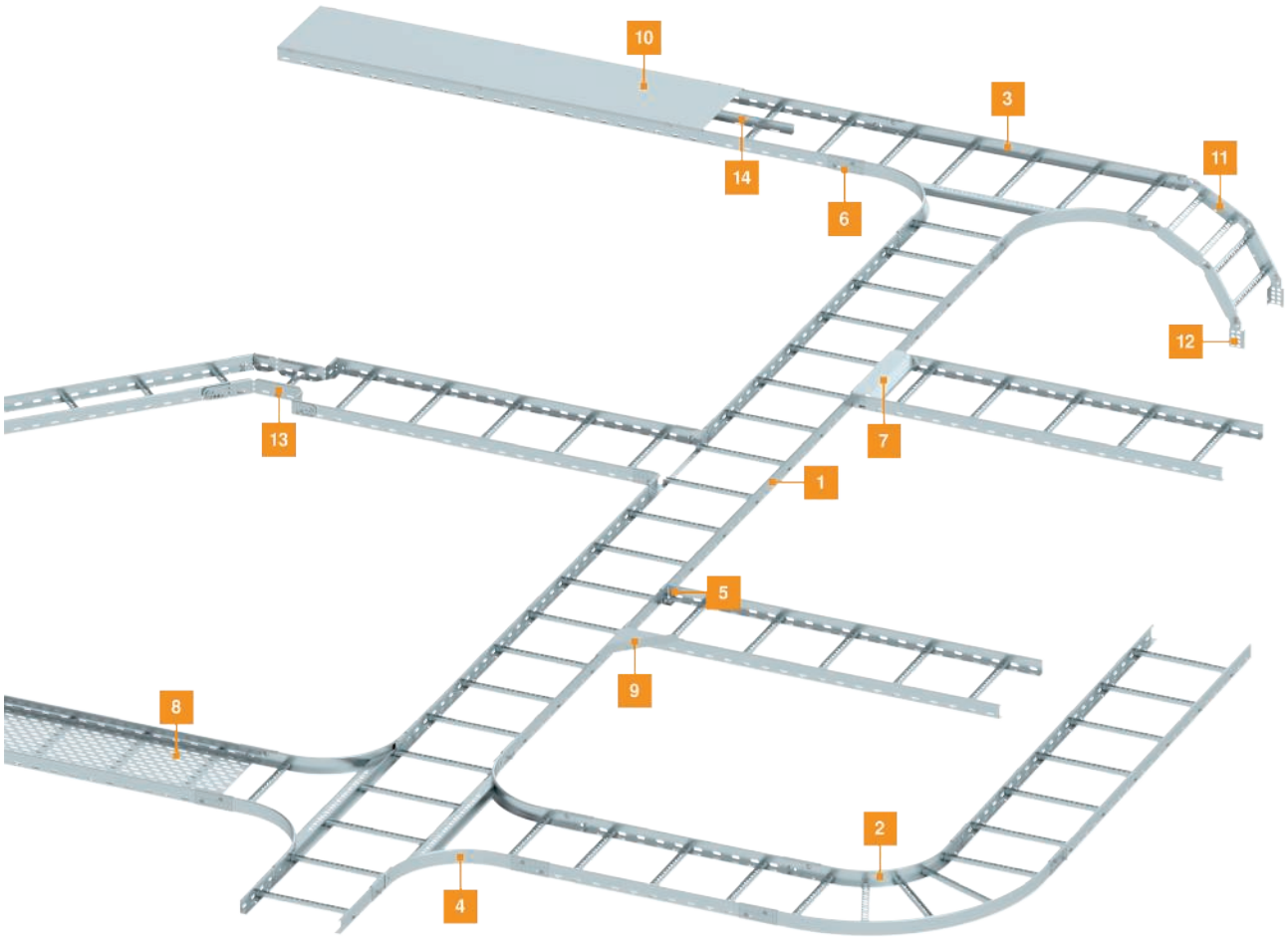




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# Riveted cable ladder systems

## Installation principle

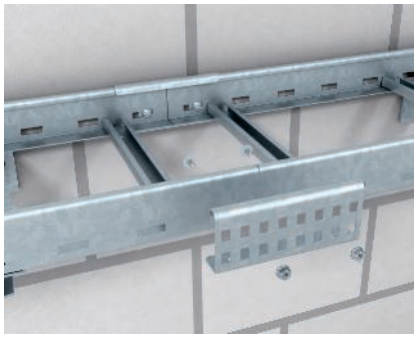



| | | | |
|---|---|---|---|
| 1 | Cable ladders | 11 | Adjustable bend element |
| 2 | 90° bend, welded | 12 | Adjustable connector |
| 3 | Tee, welded | 13 | Multifunctional connector |
| 4 | Add-on tee, welded | 14 | Barrier strip |
| 5 | Connection piece | | |
| 6 | Straight connector | | |
| 7 | Support plate | | |
| 8 | Insertion plate | | |
| 9 | Corner plate | | |
| 10 | Cover with cover clamp | | |

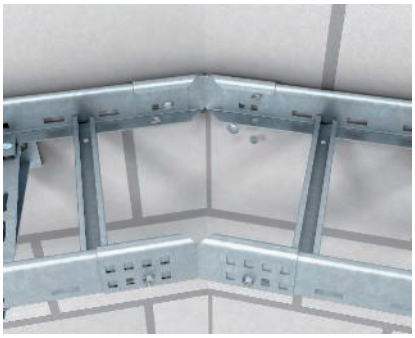
# Mounting aid



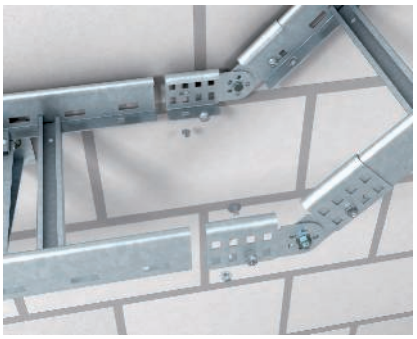
**Jump application**
Implementation of vertical jumps with adjustable connectors, e.g. for ceiling joists.



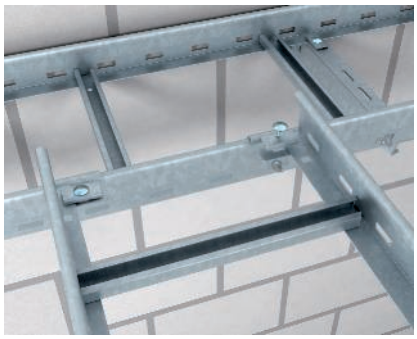
**Straight connection of cable ladders**
Straight connection of cable ladder with straight connector, type LVG.



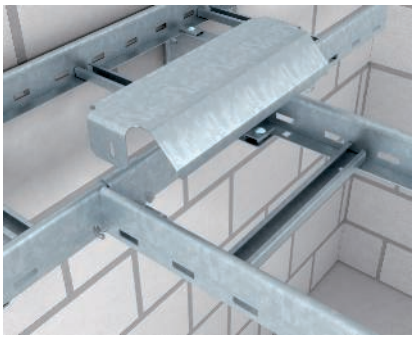
**Horizontal angle connection of cable ladders**
Horizontal angle connection with straight and angle connectors, type LWVG.



**Vertical angle connection of cable ladders**
Creation of a vertical angle connection using adjustable connectors, type LGVG.



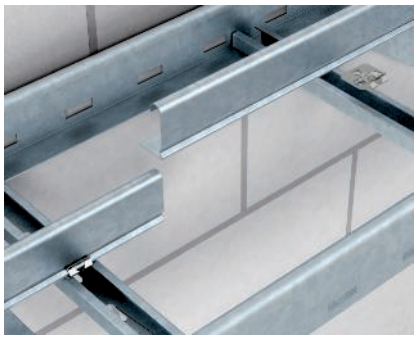
**Installation of tee**
Creation of a horizontal tee exit of two cable ladders at different heights. The support angle, type LAW, is required to fix two cable ladders.



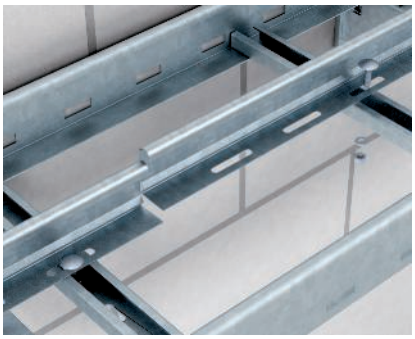
**Tee with support plate**
Creation of horizontal tees for cable ladders running at the same height. To increase the cable supporting surface and to protect the cables, use support plates, type LALB. Additional supports should be planned for the area of the exits.



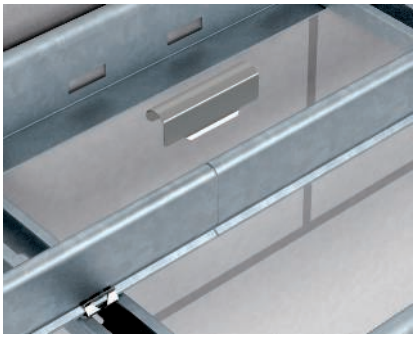
**Vertical cable exit**
The exit plate, type LAB, is used to increase the cable supporting surface for vertically exiting cables and as cable protection.



**Screwless barrier strip fastening**
Screwless fastening of a barrier strip in cable ladders with hold-down clamp, type KS KL.



**Screwed barrier strip fastening**
Screwed mounting of the TSG barrier strip through the perforated rung of the cable ladders.



**Straight barrier strip connection**
Screwless straight connection of barrier strips in cable ladders using the barrier strip TSGV.



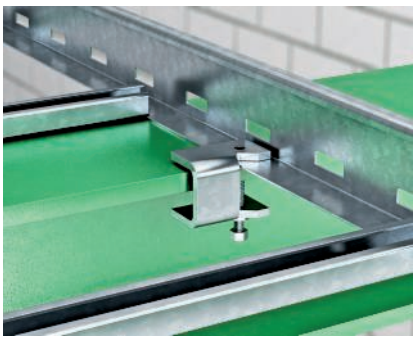
**Installation of insert plate**
Installation of insert plates, type ELB-L.



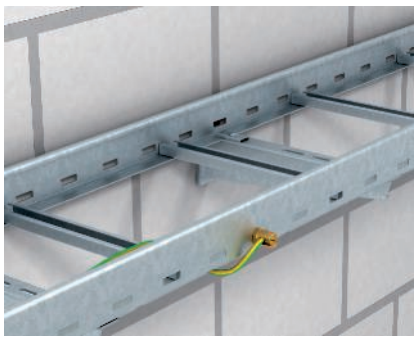
**Cover mounting**
Covers for cable trays and cable ladders can be extended to a locking cover using the cover clamp DK DRLU A2.



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**Cable ladder hold-down clamp**
Cable ladder hold-down clamp KLL for direct mounting of cable ladders to steel girders.

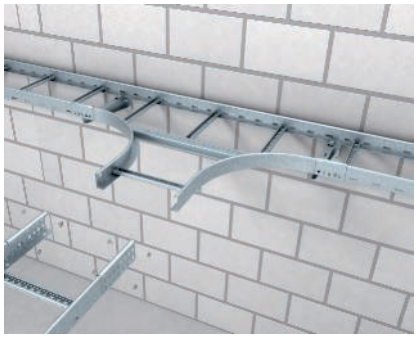


**Earthing terminal/earth connection**
Earthing terminal for fastening the equipotential bonding wire to the cable support system.

# Mounting aid



**Adjustable vertical bend**
Adjustable bend from adjustable bend elements of the type LGBE with adjustable connector for the bridging of height offsets.



**Tee**
Creation of a one-sided branch with a tee of the type LAA.



**Add-on tee, symmetrical**
Mounting two add-on tees, type LAA, on a cable ladder as symmetrical cross-over.



**Mounting of a tee**
Mounting of a tee of the type LT to create a one-sided branch for cable ladders.



**90° bend**
Connection of two cable ladders at a horizontal 90° angle with a bend, type LB 90.



**Multifunctional connector for cable ladders**
Creation of a one-sided branch with a multifunctional connector of the type LMFV.



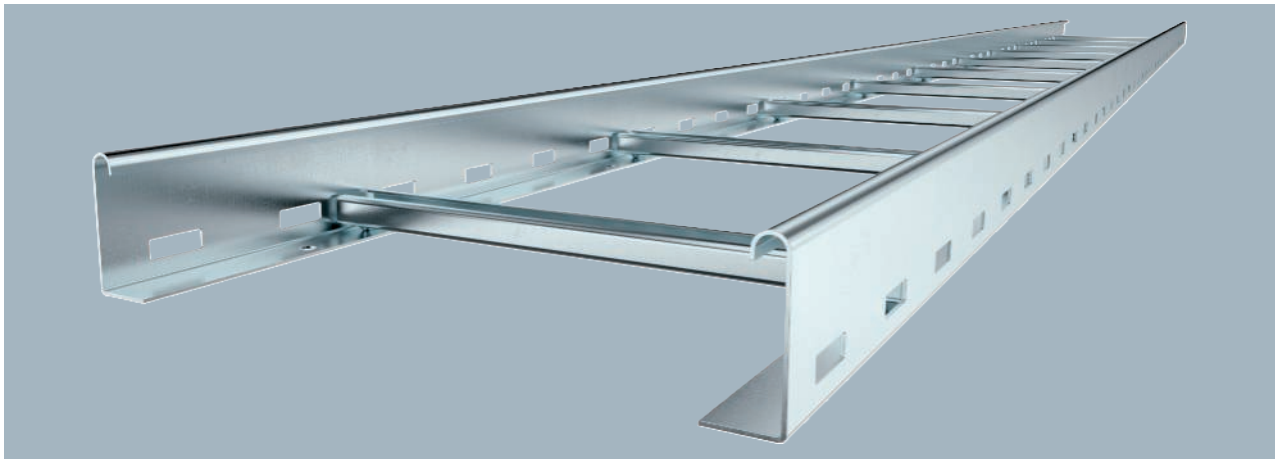
**Multifunctional connector for cable ladders**
Creation of a reduction, including 45° angle, using a multifunctional connector, type LMFV.



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## Cable ladder LCIS 60, 3 m C30

St FS

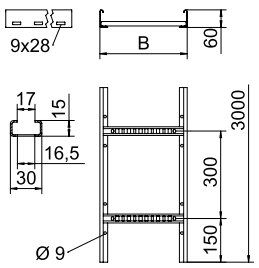


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **LCIS 620 3 FS** | 200 | 3 | 266.670 | **6209610** |
| **LCIS 630 3 FS** | 300 | 3 | 288.670 | **6209612** |
| **LCIS 640 3 FS** | 400 | 3 | 310.340 | **6209614** |
| **LCIS 650 3 FS** | 500 | 3 | 332.340 | **6209616** |
| **LCIS 660 3 FS** | 600 | 3 | 354.000 | **6209618** |

Cable ladder with a 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using hold-down clamps, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

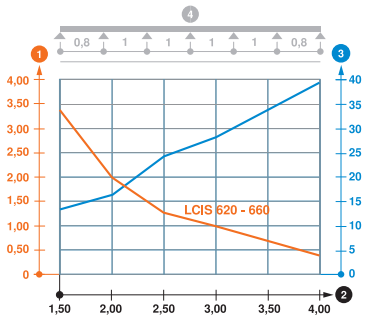
| Type | Length mm | Dim. B mm | Rail thick-ness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LCIS 620 3 FS | 3000 | 200 | 1.5 | 80 | 300 |
| LCIS 630 3 FS | 3000 | 300 | 1.5 | 120 | 300 |
| LCIS 640 3 FS | 3000 | 400 | 1.5 | 160 | 300 |
| LCIS 650 3 FS | 3000 | 500 | 1.5 | 200 | 300 |
| LCIS 660 3 FS | 3000 | 600 | 1.5 | 240 | 300 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|---|
| **LCIS 620 3 FS** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 630 3 FS** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 640 3 FS** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 650 3 FS** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 660 3 FS** | 3.3 | 2 | 1.3 | 1 | 0.4 |

### Load




### Load diagram LCIS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

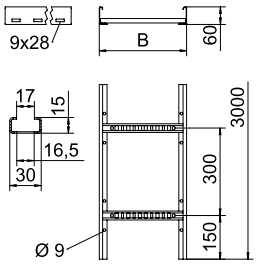
## Cable ladder LCIS 60, 3 m C30



Cable ladder with a 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using hold-down clamps, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

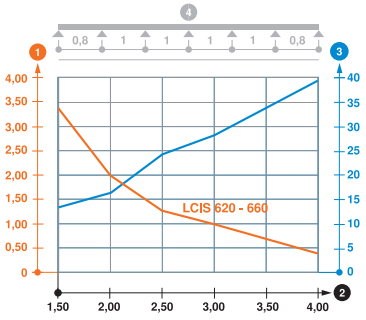
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **LCIS 620 3 FT** | 200 | 3 | 283.000 | **6209721** |
| **LCIS 630 3 FT** | 300 | 3 | 306.000 | **6209723** |
| **LCIS 640 3 FT** | 400 | 3 | 329.340 | **6209725** |
| **LCIS 650 3 FT** | 500 | 3 | 352.340 | **6209727** |
| **LCIS 660 3 FT** | 600 | 3 | 375.340 | **6209729** |

### Dimensions




| Type | Length mm | Dim. B mm | Rail thick-ness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LCIS 620 3 FT | 3000 | 200 | 1.5 | 80 | 300 |
| LCIS 630 3 FT | 3000 | 300 | 1.5 | 120 | 300 |
| LCIS 640 3 FT | 3000 | 400 | 1.5 | 160 | 300 |
| LCIS 650 3 FT | 3000 | 500 | 1.5 | 200 | 300 |
| LCIS 660 3 FT | 3000 | 600 | 1.5 | 240 | 300 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|---|
| **LCIS 620 3 FT** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 630 3 FT** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 640 3 FT** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 650 3 FT** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 660 3 FT** | 3.3 | 2 | 1.3 | 1 | 0.4 |

**Load diagram LCIS 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

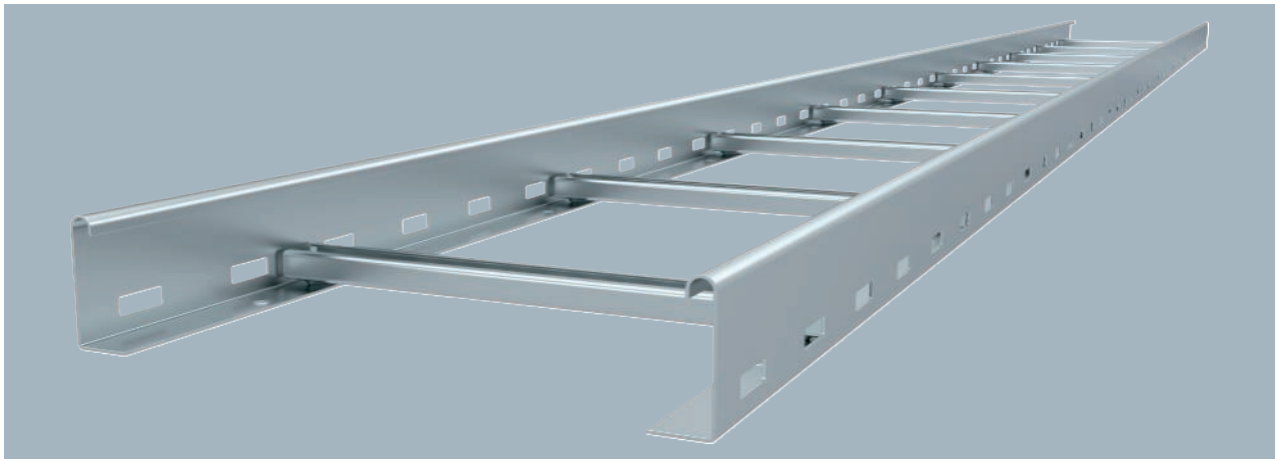
— Strut bend curve according to support width



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## Cable ladder LCIS 60, 6 m C30

St FS

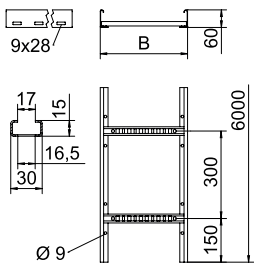


| Type | Width mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **LCIS 620 6 FS** | 200 | | 6 | 267.170 | **6209630** |
| **LCIS 630 6 FS** | 300 | | 6 | 288.840 | **6209632** |
| **LCIS 640 6 FS** | 400 | | 6 | 310.670 | **6209634** |
| **LCIS 650 6 FS** | 500 | | 6 | 332.340 | **6209636** |
| **LCIS 660 6 FS** | 600 | | 6 | 354.000 | **6209638** |

Cable ladder with a 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using hold-down clamps, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

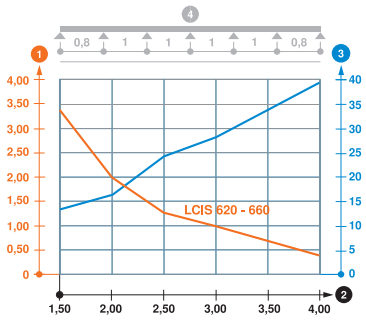
| Type | Length mm | Dim. B mm | Rail thick-ness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LCIS 620 6 FS | 6000 | 200 | 1.5 | 80 | 300 |
| LCIS 630 6 FS | 6000 | 300 | 1.5 | 120 | 300 |
| LCIS 640 6 FS | 6000 | 400 | 1.5 | 160 | 300 |
| LCIS 650 6 FS | 6000 | 500 | 1.5 | 200 | 300 |
| LCIS 660 6 FS | 6000 | 600 | 1.5 | 240 | 300 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|---|
| **LCIS 620 6 FS** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 630 6 FS** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 640 6 FS** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 650 6 FS** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 660 6 FS** | 3.3 | 2 | 1.3 | 1 | 0.4 |

### Load




### Load diagram LCIS 60

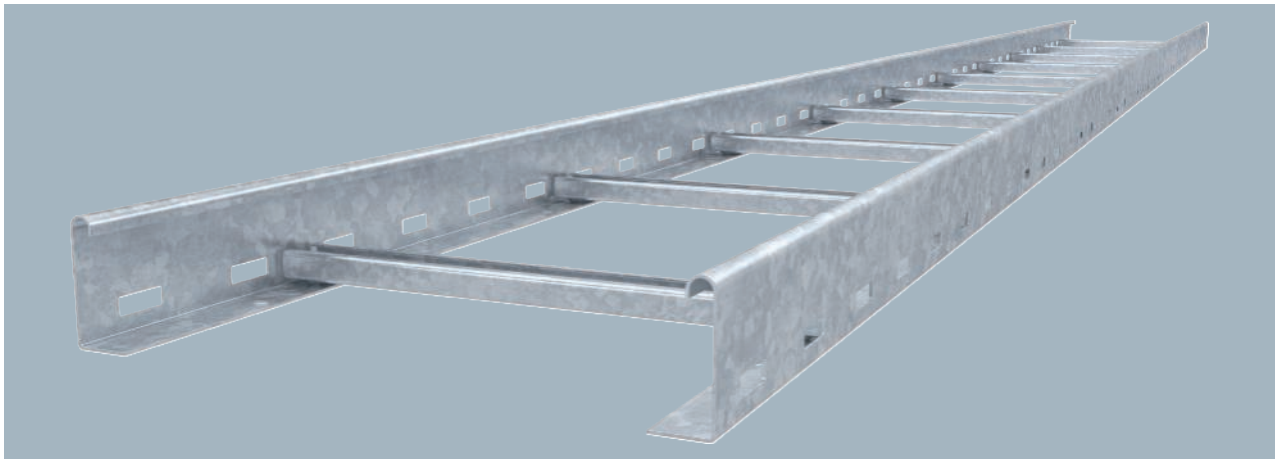
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

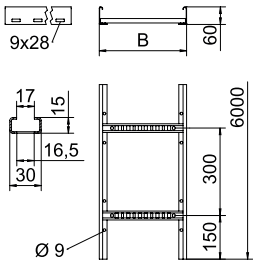
## LCIS 60 cable ladder, 6 m C30



Cable ladder with a 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using hold-down clamps, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

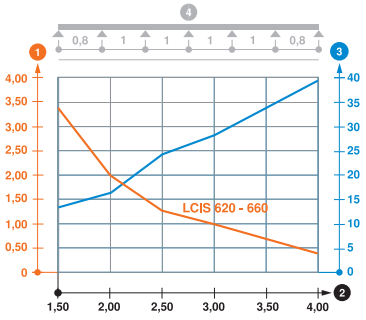
| Type | Width mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **LCIS 620 6 FT** | 200 | | 6 | 283.170 | **6209643** |
| **LCIS 630 6 FT** | 300 | | 6 | 306.170 | **6209645** |
| **LCIS 640 6 FT** | 400 | | 6 | 329.170 | **6209647** |
| **LCIS 650 6 FT** | 500 | | 6 | 352.340 | **6209649** |
| **LCIS 660 6 FT** | 600 | | 6 | 375.340 | **6209651** |

### Dimensions




| Type | Length mm | Dim. B mm | Rail thick-ness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LCIS 620 6 FT | 6000 | 200 | 1.5 | 80 | 300 |
| LCIS 630 6 FT | 6000 | 300 | 1.5 | 120 | 300 |
| LCIS 640 6 FT | 6000 | 400 | 1.5 | 160 | 300 |
| LCIS 650 6 FT | 6000 | 500 | 1.5 | 200 | 300 |
| LCIS 660 6 FT | 6000 | 600 | 1.5 | 240 | 300 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|---|
| **LCIS 620 6 FT** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 630 6 FT** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 640 6 FT** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 650 6 FT** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 660 6 FT** | 3.3 | 2 | 1.3 | 1 | 0.4 |

**Load diagram LCIS 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

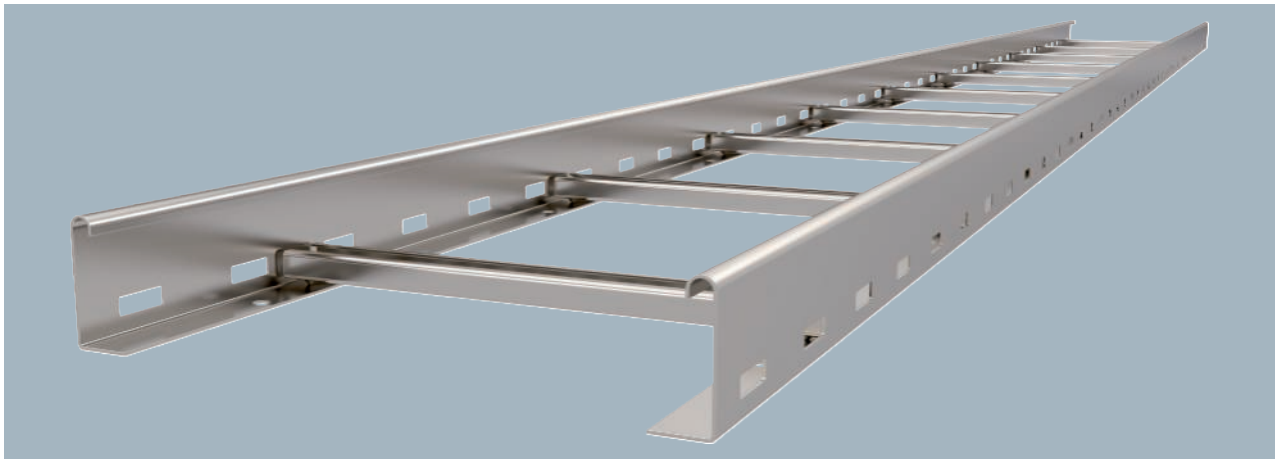
— Strut bend curve according to support width



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## Cable ladder LCIS 60, 6 m C30

A2 2B

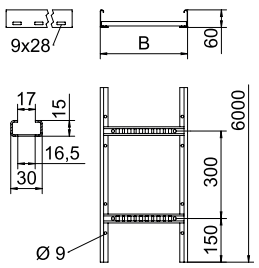


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **LCIS 620 6 A2** | 200 | 6 | 267.000 | **6207252** |
| **LCIS 630 6 A2** | 300 | 6 | 288.840 | **6207254** |
| **LCIS 640 6 A2** | 400 | 6 | 310.500 | **6207256** |
| **LCIS 650 6 A2** | 500 | 6 | 332.340 | **6207258** |
| **LCIS 660 6 A2** | 600 | 6 | 354.000 | **6207260** |

Cable ladder with 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

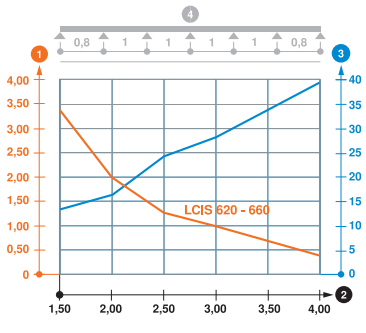
| Type | Length mm | Dim. B mm | Rail thick-ness mm | Usable cross-section $cm^2$ | Rung spacing mm |
|---|---|---|---|---|---|
| LCIS 620 6 A2 | 6000 | 200 | 1.5 | 80 | 300 |
| LCIS 630 6 A2 | 6000 | 300 | 1.5 | 120 | 300 |
| LCIS 640 6 A2 | 6000 | 400 | 1.5 | 160 | 300 |
| LCIS 650 6 A2 | 6000 | 500 | 1.5 | 200 | 300 |
| LCIS 660 6 A2 | 6000 | 600 | 1.5 | 240 | 300 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|---|
| **LCIS 620 6 A2** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 630 6 A2** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 640 6 A2** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 650 6 A2** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 660 6 A2** | 3.3 | 2 | 1.3 | 1 | 0.4 |

### Load




### Load diagram LCIS 60

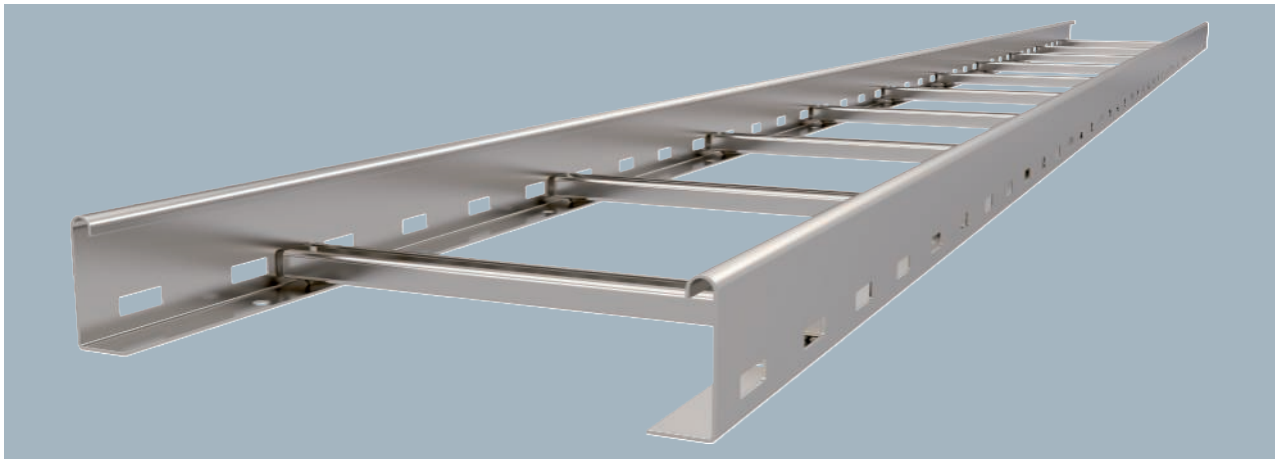
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A4 2B

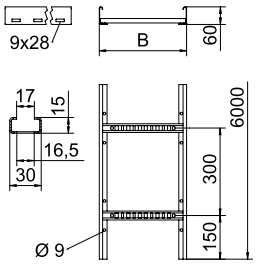
## Cable ladder LCIS 60, 6 m C30



Cable ladder with 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

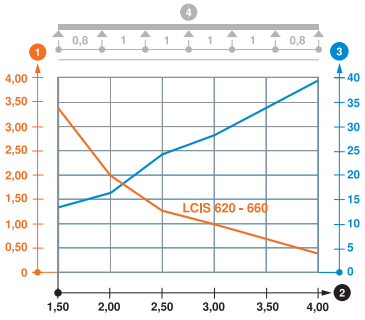
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **LCIS 620 6 A4** | 200 | 6 | 267.000 | **6207202** |
| **LCIS 630 6 A4** | 300 | 6 | 288.833 | **6207204** |
| **LCIS 640 6 A4** | 400 | 6 | 310.500 | **6207206** |
| **LCIS 650 6 A4** | 500 | 6 | 332.340 | **6207208** |
| **LCIS 660 6 A4** | 600 | 6 | 354.000 | **6207210** |

### Dimensions




| Type | Length mm | Dim. B mm | Rail thickness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LCIS 620 6 A4 | 6000 | 200 | 1.5 | 80 | 300 |
| LCIS 630 6 A4 | 6000 | 300 | 1.5 | 120 | 300 |
| LCIS 640 6 A4 | 6000 | 400 | 1.5 | 160 | 300 |
| LCIS 650 6 A4 | 6000 | 500 | 1.5 | 200 | 300 |
| LCIS 660 6 A4 | 6000 | 600 | 1.5 | 240 | 300 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|---|
| **LCIS 620 6 A4** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 630 6 A4** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 640 6 A4** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 650 6 A4** | 3.3 | 2 | 1.3 | 1 | 0.4 |
| **LCIS 660 6 A4** | 3.3 | 2 | 1.3 | 1 | 0.4 |

**Load diagram LCIS 60**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

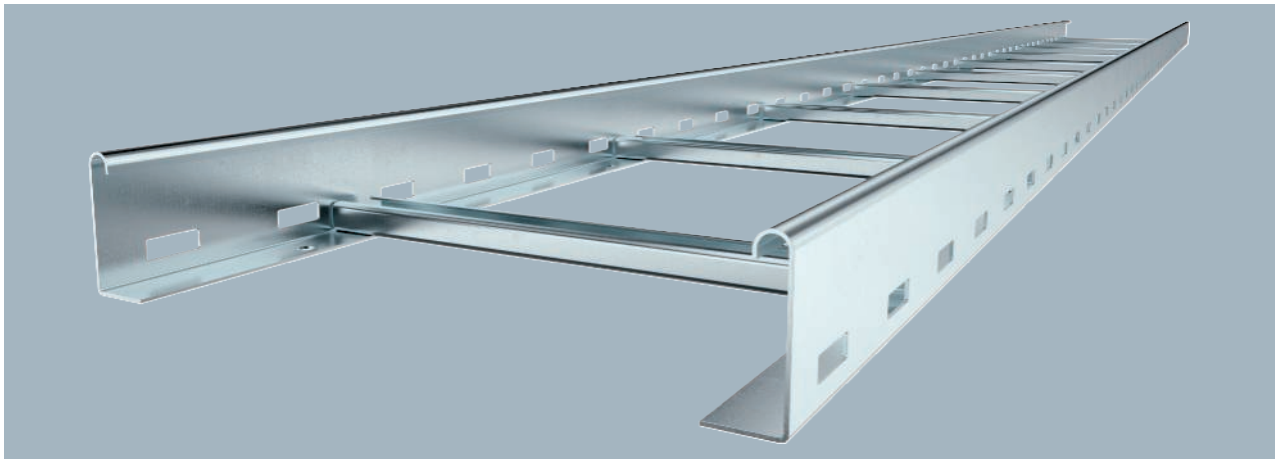
— Strut bend curve according to support width



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## Cable ladder LG 60, 3 m VS

St FS



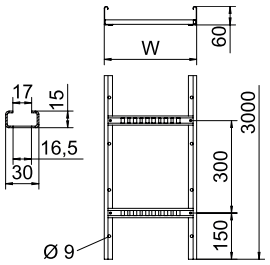
| Type | Width mm | BS | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **LG 620 VS 3 FS** | 200 | | | 3 | 267.000 | **6208538** |
| **LG 630 VS 3 FS** | 300 | | | 3 | 288.933 | **6208541** |
| **LG 640 VS 3 FS** | 400 | | | 3 | 314.600 | **6208544** |
| **LG 650 VS 3 FS** | 500 | | | 3 | 332.600 | **6208547** |
| **LG 660 VS 3 FS** | 600 | | | 3 | 354.266 | **6208550** |

The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056. The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

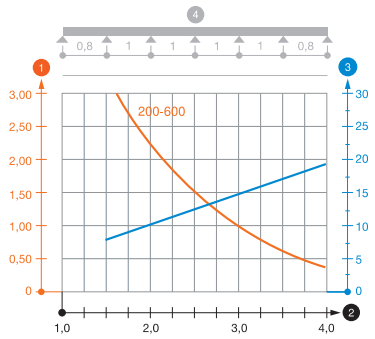
| Type | Length mm | Dim. B mm | Rail thickness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LG 620 VS 3 FS | 3000 | 200 | 1.5 | 98 | 300 |
| LG 630 VS 3 FS | 3000 | 300 | 1.5 | 148 | 300 |
| LG 640 VS 3 FS | 3000 | 400 | 1.5 | 198 | 300 |
| LG 650 VS 3 FS | 3000 | 500 | 1.5 | 248 | 300 |
| LG 660 VS 3 FS | 3000 | 600 | 1.5 | 298 | 300 |

**Dimensions**




| | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **LG 620 VS 3 FS** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 630 VS 3 FS** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 640 VS 3 FS** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 650 VS 3 FS** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 660 VS 3 FS** | 2.25 | 1.5 | 1.1 | 0.45 |

**Load**




**Load diagram, LG 60 VS**

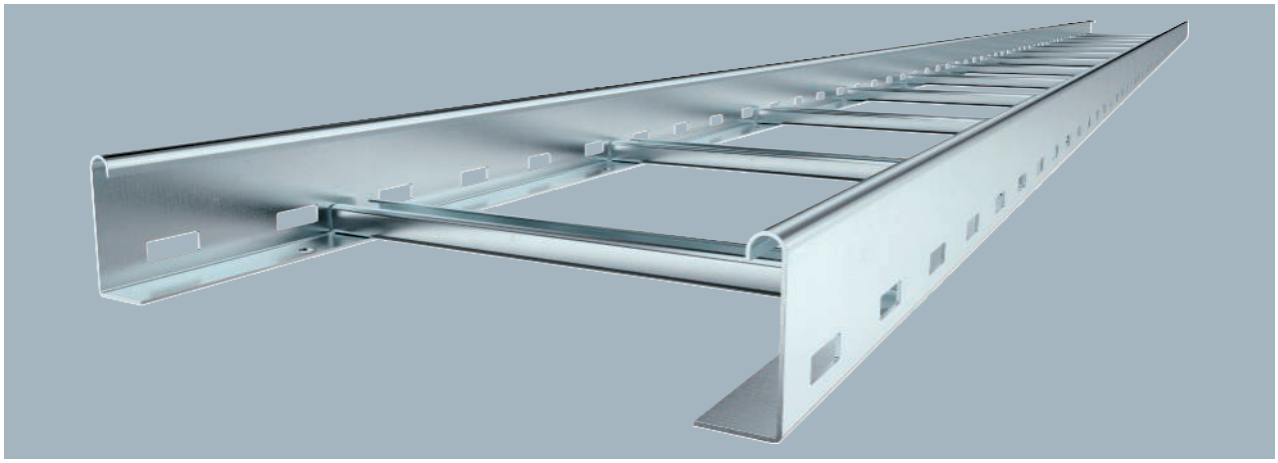
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

## Cable ladder LG 60, 6 m VS

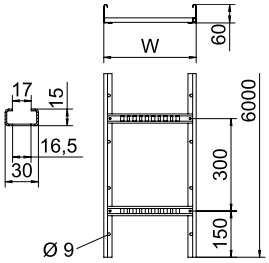


The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056. The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

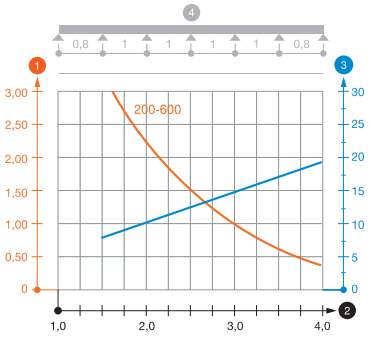
| Type | Width mm | BS | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **LG 620 VS 6 FS** | 200 | | 6 | 267.066 | **6208627** |
| **LG 630 VS 6 FS** | 300 | | 6 | 288.733 | **6208630** |
| **LG 640 VS 6 FS** | 400 | | 6 | 314.400 | **6208633** |
| **LG 650 VS 6 FS** | 500 | | 6 | 332.400 | **6208636** |
| **LG 660 VS 6 FS** | 600 | | 6 | 354.066 | **6208639** |

### Dimensions




| Type | Length mm | Dim. B mm | Rail thickness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LG 620 VS 6 FS | 6000 | 200 | 1.5 | 98 | 300 |
| LG 630 VS 6 FS | 6000 | 300 | 1.5 | 148 | 300 |
| LG 640 VS 6 FS | 6000 | 400 | 1.5 | 198 | 300 |
| LG 650 VS 6 FS | 6000 | 500 | 1.5 | 248 | 300 |
| LG 660 VS 6 FS | 6000 | 600 | 1.5 | 298 | 300 |

### Load




| | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **LG 620 VS 6 FS** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 630 VS 6 FS** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 640 VS 6 FS** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 650 VS 6 FS** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 660 VS 6 FS** | 2.25 | 1.5 | 1.1 | 0.45 |

**Load diagram, LG 60 VS**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

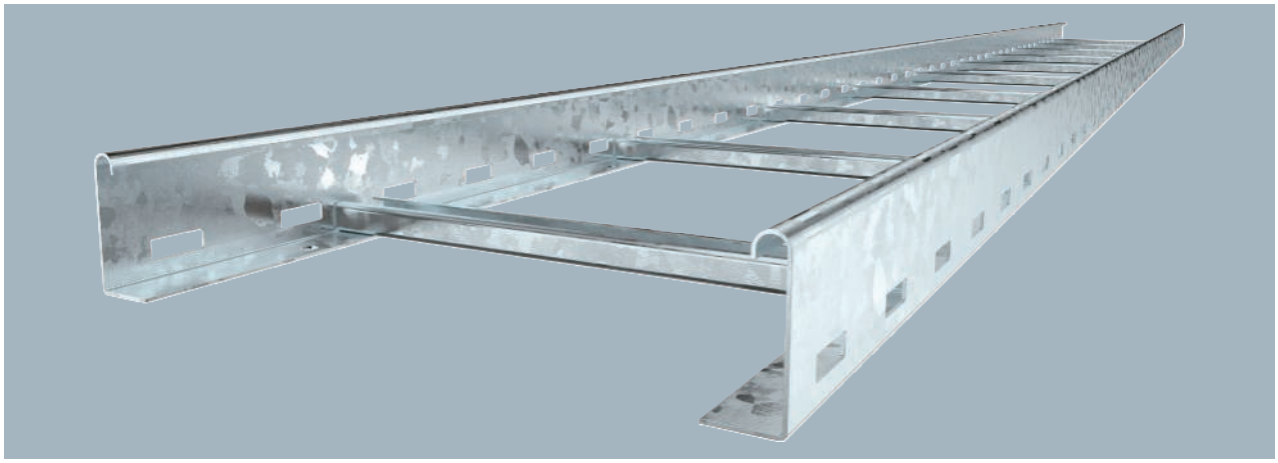
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width



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## Cable ladder LG 60, 3 m VS

St FT



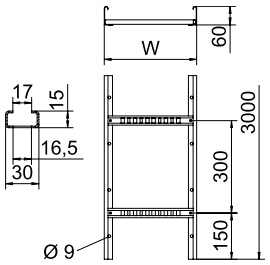
| Type | Width mm | BS | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **LG 620 VS 3 FT** | 200 | | | 3 | 285.066 | **6208562** |
| **LG 630 VS 3 FT** | 300 | | | 3 | 308.000 | **6208566** |
| **LG 640 VS 3 FT** | 400 | | | 3 | 331.000 | **6208570** |
| **LG 650 VS 3 FT** | 500 | | | 3 | 354.733 | **6208574** |
| **LG 660 VS 3 FT** | 600 | | | 3 | 385.400 | **6208578** |

The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056. The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for the maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

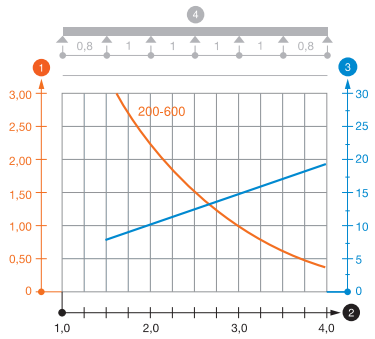
| Type | Length mm | Dim. B mm | Rail thickness mm | Usable cross-section $cm^2$ | Rung spacing mm |
|---|---|---|---|---|---|
| LG 620 VS 3 FT | 3000 | 200 | 1.5 | 98 | 300 |
| LG 630 VS 3 FT | 3000 | 300 | 1.5 | 148 | 300 |
| LG 640 VS 3 FT | 3000 | 400 | 1.5 | 198 | 300 |
| LG 650 VS 3 FT | 3000 | 500 | 1.5 | 248 | 300 |
| LG 660 VS 3 FT | 3000 | 600 | 1.5 | 298 | 300 |

**Dimensions**




| | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **LG 620 VS 3 FT** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 630 VS 3 FT** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 640 VS 3 FT** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 650 VS 3 FT** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 660 VS 3 FT** | 2.25 | 1.5 | 1.1 | 0.45 |

**Load**




**Load diagram, LG 60 VS**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

## Cable ladder LG 60, 6 m VS

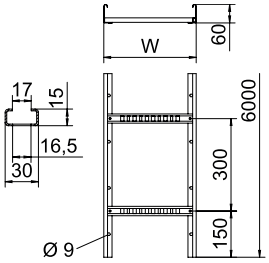


The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056. The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

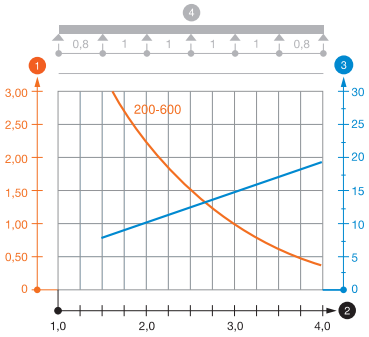
| Type | Width mm | BS | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **LG 620 VS 6 FT** | 200 | | 6 | 284.833 | **6208650** |
| **LG 630 VS 6 FT** | 300 | | 6 | 307.833 | **6208653** |
| **LG 640 VS 6 FT** | 400 | | 6 | 330.833 | **6208656** |
| **LG 650 VS 6 FT** | 500 | | 6 | 354.500 | **6208659** |
| **LG 660 VS 6 FT** | 600 | | 6 | 385.166 | **6208661** |

### Dimensions




| Type | Length mm | Dim. B mm | Rail thickness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LG 620 VS 6 FT | 6000 | 200 | 1.5 | 98 | 300 |
| LG 630 VS 6 FT | 6000 | 300 | 1.5 | 148 | 300 |
| LG 640 VS 6 FT | 6000 | 400 | 1.5 | 198 | 300 |
| LG 650 VS 6 FT | 6000 | 500 | 1.5 | 248 | 300 |
| LG 660 VS 6 FT | 6000 | 600 | 1.5 | 298 | 300 |

### Load




| | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **LG 620 VS 6 FT** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 630 VS 6 FT** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 640 VS 6 FT** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 650 VS 6 FT** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 660 VS 6 FT** | 2.25 | 1.5 | 1.1 | 0.45 |

**Load diagram, LG 60 VS**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

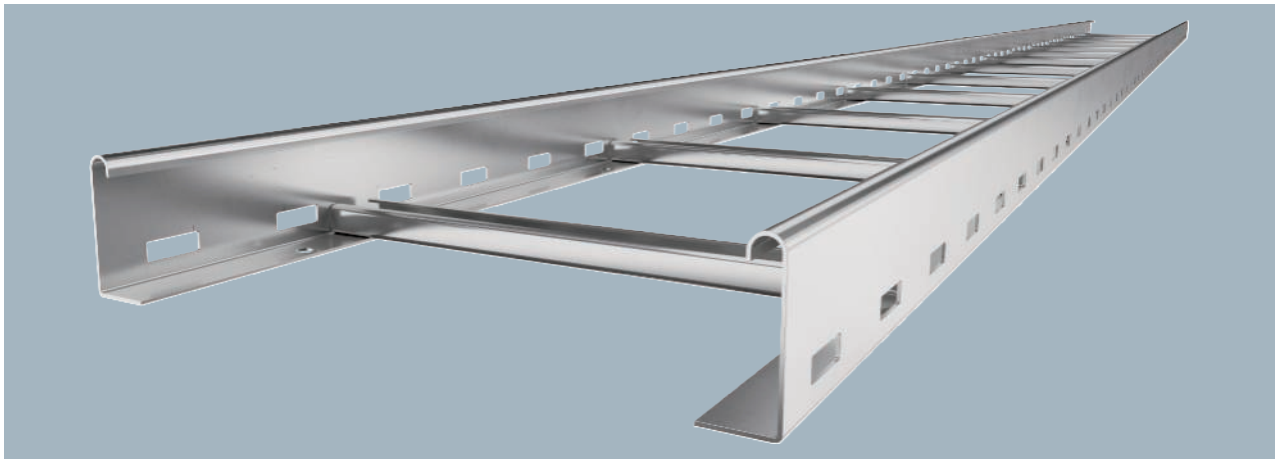
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width



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## Cable ladder LG 60, 6 m VS

A2 2B



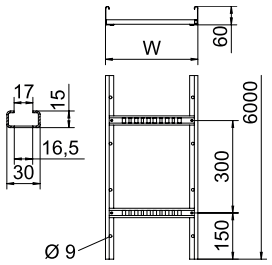
| Type | Width mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **LG 620 VS6 A2** | 200 | | 6 | 267.067 | **6208700** |
| **LG 630 VS6 A2** | 300 | | 6 | 288.733 | **6208703** |
| **LG 640 VS6 A2** | 400 | | 6 | 314.400 | **6208706** |
| **LG 650 VS6 A2** | 500 | | 6 | 332.400 | **6208709** |
| **LG 660 VS6 A2** | 600 | | 6 | 354.066 | **6208712** |

The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

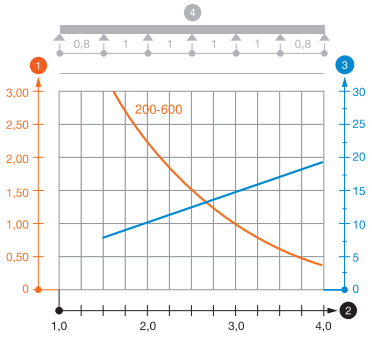
| Type | Length mm | Dim. B mm | Rail thickness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LG 620 VS6 A2 | 6000 | 200 | 1.5 | 98 | 300 |
| LG 630 VS6 A2 | 6000 | 300 | 1.5 | 148 | 300 |
| LG 640 VS6 A2 | 6000 | 400 | 1.5 | 198 | 300 |
| LG 650 VS6 A2 | 6000 | 500 | 1.5 | 248 | 300 |
| LG 660 VS6 A2 | 6000 | 600 | 1.5 | 298 | 300 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 3.5 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|---|---|
| **LG 620 VS6 A2** | 3.1 | 2.25 | 1.5 | 1.1 | 0.75 | 0.45 |
| **LG 630 VS6 A2** | 3.1 | 2.25 | 1.5 | 1.1 | 0.75 | 0.45 |
| **LG 640 VS6 A2** | 3.1 | 2.25 | 1.5 | 1.1 | 0.75 | 0.45 |
| **LG 650 VS6 A2** | 3.1 | 2.25 | 1.5 | 1.1 | 0.75 | 0.45 |
| **LG 660 VS6 A2** | 3.1 | 2.25 | 1.5 | 1.1 | 0.75 | 0.45 |

**Load**




**Load diagram, LG 60 VS**

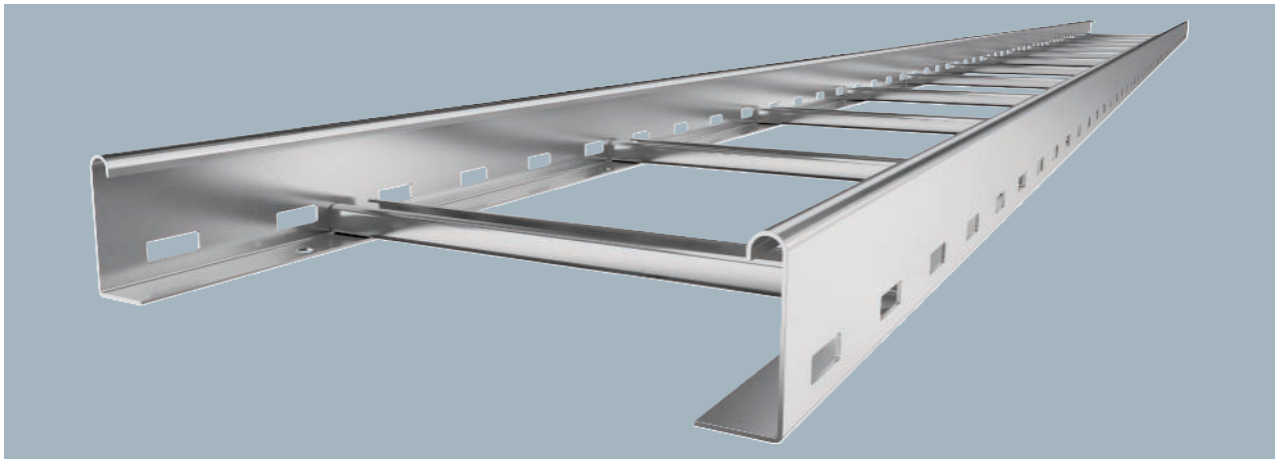
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A4 2B

## Cable ladder LG 60, 6 m VS

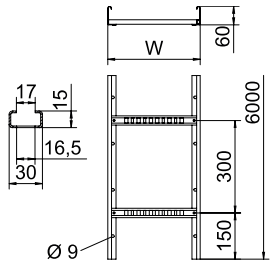


The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

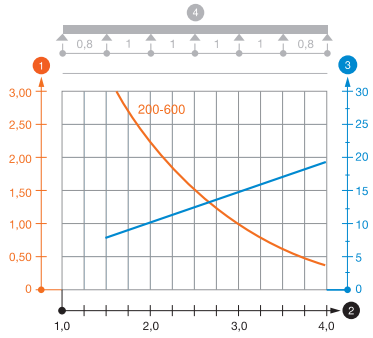
| Type | Width mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **LG 620 VS6 A4** | 200 | | 6 | 267.733 | **6101200** |
| **LG 630 VS6 A4** | 300 | | 6 | 288.733 | **6101208** |
| **LG 640 VS6 A4** | 400 | | 6 | 314.400 | **6101216** |
| **LG 650 VS6 A4** | 500 | | 6 | 341.666 | **6101223** |
| **LG 660 VS6 A4** | 600 | | 6 | 354.000 | **6101232** |

### Dimensions




| Type | Length mm | Dim. B mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|
| LG 620 VS6 A4 | 6000 | 200 | 98 | 300 |
| LG 630 VS6 A4 | 6000 | 300 | 148 | 300 |
| LG 640 VS6 A4 | 6000 | 400 | 198 | 300 |
| LG 650 VS6 A4 | 6000 | 500 | 248 | 300 |
| LG 660 VS6 A4 | 6000 | 600 | 298 | 300 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 3.5 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|---|---|
| **LG 620 VS6 A4** | 3.1 | 2.25 | 1.5 | 1.1 | 0.75 | 0.45 |
| **LG 630 VS6 A4** | 3.1 | 2.25 | 1.5 | 1.1 | 0.75 | 0.45 |
| **LG 640 VS6 A4** | 3.1 | 2.25 | 1.5 | 1.1 | 0.75 | 0.45 |
| **LG 650 VS6 A4** | 3.1 | 2.25 | 1.5 | 1.1 | 0.75 | 0.45 |
| **LG 660 VS6 A4** | 3.1 | 2.25 | 1.5 | 1.1 | 0.75 | 0.45 |

**Load diagram, LG 60 VS**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

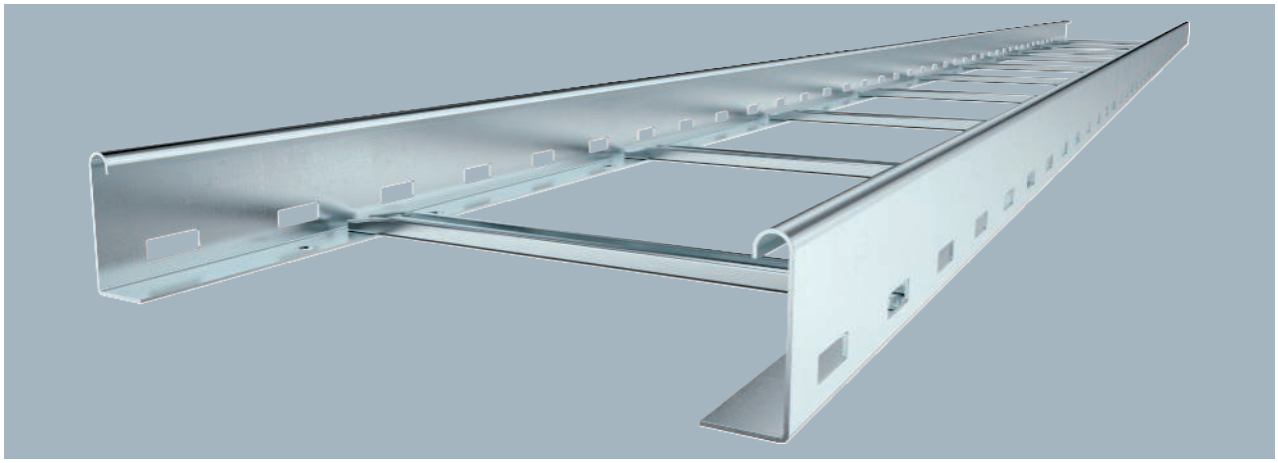
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width



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## Cable ladder LG 60, 3 m NS

St FS



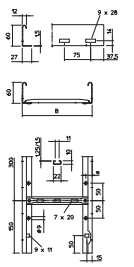
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **LG 620 NS 3 FS** | 200 | 3 | 247.640 | **6208506** |
| **LG 630 NS 3 FS** | 300 | 3 | 262.070 | **6208509** |
| **LG 640 NS 3 FS** | 400 | 3 | 276.070 | **6208512** |
| **LG 650 NS 3 FS** | 500 | 3 | 301.670 | **6208515** |
| **LG 660 NS 3 FS** | 600 | 3 | 318.200 | **6208518** |

The cable ladder is shipped folded up.
You can find the appropriate U clamp of type 2056N in the vertical ladder systems chapter.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile rungs, open in an upwards direction (NS version).

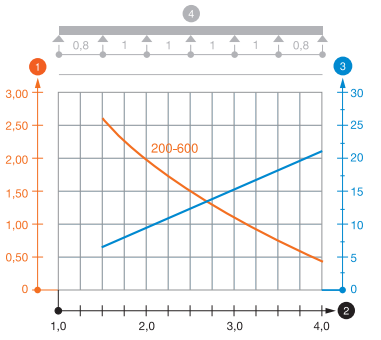
| Type | Length mm | Rail thickness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|
| LG 620 NS 3 FS | 3000 | 1.5 | 98 | 300 |
| LG 630 NS 3 FS | 3000 | 1.5 | 148 | 300 |
| LG 640 NS 3 FS | 3000 | 1.5 | 198 | 300 |
| LG 650 NS 3 FS | 3000 | 1.5 | 248 | 300 |
| LG 660 NS 3 FS | 3000 | 1.5 | 298 | 300 |

### Dimensions



| | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **LG 620 NS 3 FS** | 2 | 1.5 | 1 | 0.4 |
| **LG 630 NS 3 FS** | 2 | 1.5 | 1 | 0.4 |
| **LG 640 NS 3 FS** | 2 | 1.5 | 1 | 0.4 |
| **LG 650 NS 3 FS** | 2 | 1.5 | 1 | 0.4 |
| **LG 660 NS 3 FS** | 2 | 1.5 | 1 | 0.4 |

### Load




### Load diagram, LG 60 NS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT SO

## Cable ladder LG 60, 6 m VS FT SOMY

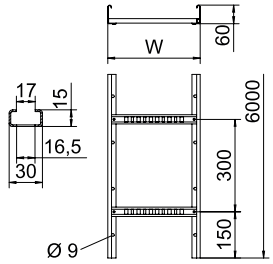


The cable ladder is shipped folded up. The surface coating is a coating created in a single-dip method with extra-high zinc thicknesses.

Cable ladder with 60 mm side height with riveted C profile rungs which are open in an upwards direction.

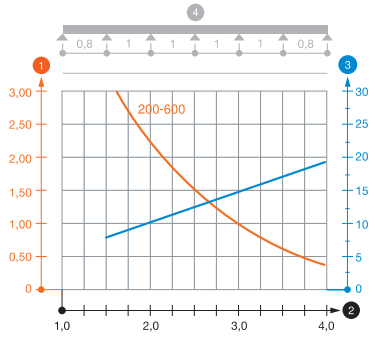
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **LG 630 VS 6FT SO** | 300 | 6 | 294.200 | **7186363** |
| **LG 640 VS 6 FTSO** | 400 | 6 | 342.200 | **7188633** |
| **LG 650 VS 6 FTSO** | 500 | 6 | 398.200 | **7188640** |

### Dimensions




| Type | Length mm | Dim. B mm | Rail thickness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LG 630 VS 6FT SO | 6000 | 300 | 1.5 | 148 | 300 |
| LG 640 VS 6 FTSO | 6000 | 400 | 1.5 | 198 | 300 |
| LG 650 VS 6 FTSO | 6000 | 500 | 1.5 | 248 | 300 |

### Load




| | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **LG 630 VS 6FT SO** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 640 VS 6 FTSO** | 2.25 | 1.5 | 1.1 | 0.45 |
| **LG 650 VS 6 FTSO** | 2.25 | 1.5 | 1.1 | 0.45 |

**Load diagram, LG 60 VS**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



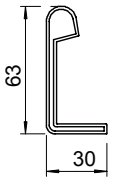
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# LG cable ladder system, side height 60

## Protective cap 60

PE



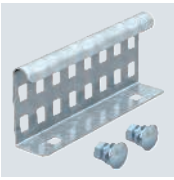


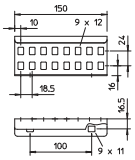

| Type | Colour | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|---|
| SKH 60 OR | Pastel orange | 40 | 1.072 | 6222537 |

Protective cap to cover cable ladder ends of side height 60 mm.

## Straight connector 60

St FS FT





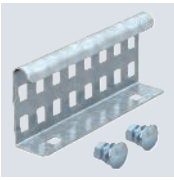

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LVG 60 FS | 60 | 10 | 22.000 | 6208840 |
| LVG 60 FT | 60 | 10 | 23.000 | 6208843 |

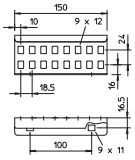
Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.

## 60 FT SOMY straight connector

St FT SO





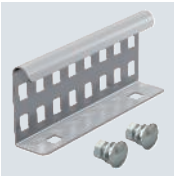

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LVG 60 FT SO | 60 | 20 | 25.000 | 7189253 |

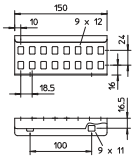
Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The adjustable connector ensures the continuity of the equipotential bonding.

## Straight connector 60

A2 A4 2B





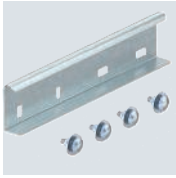

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LVG 60 A2 | 60 | 10 | 22.000 | 6208846 |
| LVG 60 A4 | 60 | 10 | 20.000 | 6208835 |

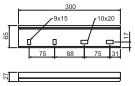
Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.

## LDVG 60 expansion connector

St FT






| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LDVG 60 FT | 60 | 2 | 61.700 | 6208970 |

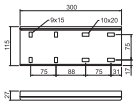
Connector for expansion for compensation of linear thermal expansion. The tightening torques of the self-locking screws on the loose bearing side are 5 Nm.

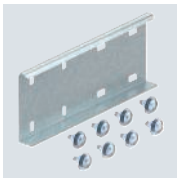
St FT

## Expansion connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LDVG 110 FT | 110 | 2 | 100.500 | 6216670 |

Connector for expansion for compensation of linear thermal expansion. The tightening torques of the self-locking screws on the loose bearing side are 5 Nm.





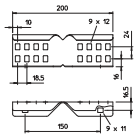
St FS

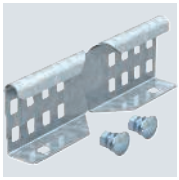
## Angle connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LWVG 60 FS | 60 | 10 | 24.000 | 6208895 |

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.





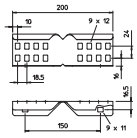
A2 A4 2B

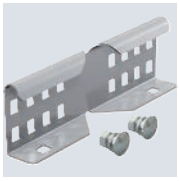
## Angle connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LWVG 60 A2 | 60 | 10 | 24.000 | 6208898 |
| LWVG 60 A4 | 60 | 10 | 24.256 | 6208891 |

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.





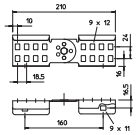
St FS FT FT SO

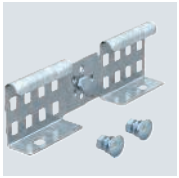
## Adjustable connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LGVG 60 FS | 60 | 10 | 28.500 | 6208941 |
| LGVG 60 FT | 60 | 10 | 29.900 | 6208944 |
| LGVG 60 FT SO | 60 | 10 | 30.700 | 7189251 |

Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.





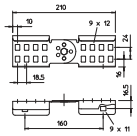
A2 A4 2B

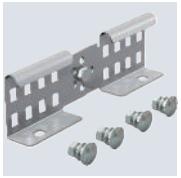
## Adjustable connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LGVG 60 A2 | 60 | 10 | 28.500 | 6208947 |
| LGVG 60 A4 | 60 | 10 | 28.500 | 6208932 |

Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.







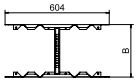
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# LG cable ladder system, side height 60

## Multifunctional connector 60

St FS FT





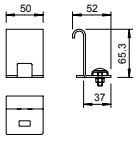

| Type | Dim. B mm | Side height mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **LMFV 620 FS** | 200 | 60 | 1.50 | 1 | 123.200 | **6225710** |
| **LMFV 630 FS** | 300 | 60 | 1.50 | 1 | 129.700 | **6225712** |
| **LMFV 640 FS** | 400 | 60 | 1.50 | 1 | 136.200 | **6225714** |
| **LMFV 650 FS** | 500 | 60 | 1.50 | 1 | 142.800 | **6225716** |
| **LMFV 660 FS** | 600 | 60 | 1.50 | 1 | 149.300 | **6225718** |
| **LMFV 620 FT** | 200 | 60 | 1.50 | 1 | 130.600 | **6225730** |
| **LMFV 630 FT** | 300 | 60 | 1.50 | 1 | 137.500 | **6225732** |
| **LMFV 640 FT** | 400 | 60 | 1.50 | 1 | 144.400 | **6225734** |
| **LMFV 650 FT** | 500 | 60 | 1.50 | 1 | 151.300 | **6225736** |
| **LMFV 660 FT** | 600 | 60 | 1.50 | 1 | 158.200 | **6225738** |

Multifunctional connector for joining cable ladders with a side height of 60 mm. Symmetrical and asymmetrical reductions, infinitely-adjustable bends between 0–60° and add-on tees can be created.

## Connection piece 60

St FS FT





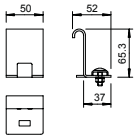

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **LAS 60 FS** | 10 | 13.000 | **6221351** |
| **LAS 60 FT** | 10 | 13.600 | **6221378** |

Connector for creation of branches at the same height at a later date.
To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

## Connector 60

A2 2B





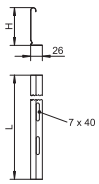

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **LAS 60 A2** | 10 | 13.000 | **6221386** |

Connector for creation of branches at the same height at a later date.
To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

## Separating retainer 45

St FS DD





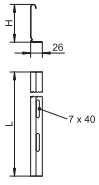

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 45 FS** | 45 | 0.75 | 3000 | 3 | 46.700 | **6062033** |
| **TSG 45 DD** | 45 | 0.75 | 3000 | 3 | 46.812 | **6062321** |

Separating retainer for separation of cables of different voltages or functions.

## Separating retainer 45

A2 A4 2B





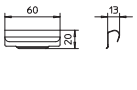

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **TSG 45 A2** | 45 | 0.75 | 3000 | 3 | 49.850 | **6062025** |
| **TSG 45 A4** | 45 | 0.75 | 3000 | 3 | 49.850 | **6062028** |

Separating retainer for separation of cables of different voltages or functions.

VA 2B

## Separating retainer connector

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| TSGV A2 | 10 | 0.899 | 6067970 |



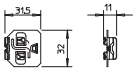



Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

VA 2B

## Hold-down clamp for separating retainer fastening

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KS KL A2 | 30 | 0.512 | 6062284 |



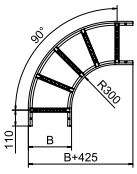



Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

St FS FT

## 90° bend 60

| Type | Dim. B mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| LB 90 620 R3 FS | 200 | 1.5 | 1 | 254.500 | 6225042 |
| LB 90 630 R3 FS | 300 | 1.5 | 1 | 318.300 | 6225044 |
| LB 90 640 R3 FS | 400 | 1.5 | 1 | 368.700 | 6225046 |
| LB 90 650 R3 FS | 500 | 1.5 | 1 | 458.600 | 6225048 |
| LB 90 660 R3 FS | 600 | 1.5 | 1 | 524.600 | 6225050 |
| LB 90 620 R3 FT | 200 | 1.5 | 1 | 269.800 | 6225062 |
| LB 90 630 R3 FT | 300 | 1.5 | 1 | 338.500 | 6225064 |
| LB 90 640 R3 FT | 400 | 1.5 | 1 | 392.100 | 6225066 |
| LB 90 650 R3 FT | 500 | 1.5 | 1 | 492.600 | 6225068 |
| LB 90 660 R3 FT | 600 | 1.5 | 1 | 562.700 | 6225070 |



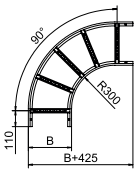



90° bend, horizontal, with welded rung for all cable ladder types of 60 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

A2 A4 2B

## 90° bend 60

| Type | Dim. B mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| LB 90 620 R3 A2 | 200 | 1.5 | 1 | 257.800 | 6225082 |
| LB 90 630 R3 A2 | 300 | 1.5 | 1 | 322.300 | 6225084 |
| LB 90 640 R3 A2 | 400 | 1.5 | 1 | 373.400 | 6225086 |
| LB 90 650 R3 A2 | 500 | 1.5 | 1 | 458.600 | 6225088 |
| LB 90 660 R3 A2 | 600 | 1.5 | 1 | 524.600 | 6225090 |
| LB 90 620 R3 A4 | 200 | 1.5 | 1 | 261.000 | 6225102 |
| LB 90 630 R3 A4 | 300 | 1.5 | 1 | 326.400 | 6225104 |
| LB 90 640 R3 A4 | 400 | 1.5 | 1 | 378.200 | 6225106 |
| LB 90 650 R3 A4 | 500 | 1.5 | 1 | 458.600 | 6225108 |
| LB 90 660 R3 A4 | 600 | 1.5 | 1 | 524.600 | 6225110 |






90° bend, horizontal, with welded rung for all cable ladder types of 60 mm side height.
Connectors should be ordered separately and in the appropriate quantity.



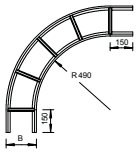
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# LG cable ladder system, side height 60

## 90° bend VS 60

A2 2B





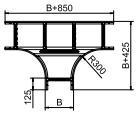

| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **LBI 90 620 VS A2** | 200 | 1 | 358.000 | **7160046** |
| **LBI 90 630 VS A2** | 300 | 1 | 412.000 | **7160054** |
| **LBI 90 640 VS A2** | 400 | 1 | 497.000 | **7160062** |
| **LBI 90 650 VS A2** | 500 | 1 | 554.900 | **7160089** |
| **LBI 90 660 VS A2** | 600 | 1 | 664.000 | **7160097** |

90° bend, horizontal, for cable ladders with VS rungs and a side height of 60 mm.
Connectors should be ordered separately and in the appropriate quantity.

## T piece 60

St FS FT





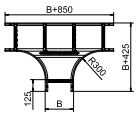

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LT 620 R3 FS** | 200 | 1.5 | 1 | 468.700 | **6225210** |
| **LT 630 R3 FS** | 300 | 1.5 | 1 | 531.000 | **6225212** |
| **LT 640 R3 FS** | 400 | 1.5 | 1 | 619.700 | **6225214** |
| **LT 650 R3 FS** | 500 | 1.5 | 1 | 688.600 | **6225216** |
| **LT 660 R3 FS** | 600 | 1.5 | 1 | 757.400 | **6225218** |
| **LT 620 R3 FT** | 200 | 1.5 | 1 | 494.800 | **6225230** |
| **LT 630 R3 FT** | 300 | 1.5 | 1 | 595.500 | **6225232** |
| **LT 640 R3 FT** | 400 | 1.5 | 1 | 656.500 | **6225234** |
| **LT 650 R3 FT** | 500 | 1.5 | 1 | 729.500 | **6225236** |
| **LT 660 R3 FT** | 600 | 1.5 | 1 | 797.100 | **6225238** |

T piece, horizontal, with welded rung for all cable ladder types of 60 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

## T piece 60

A2 A4 2B



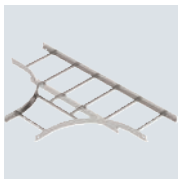


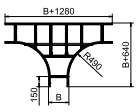

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LT 620 R3 A2** | 200 | 1.5 | 1 | 474.600 | **6225250** |
| **LT 630 R3 A2** | 300 | 1.5 | 1 | 537.800 | **6225252** |
| **LT 640 R3 A2** | 400 | 1.5 | 1 | 627.700 | **6225254** |
| **LT 650 R3 A2** | 500 | 1.5 | 1 | 697.400 | **6225256** |
| **LT 660 R3 A2** | 600 | 1.5 | 1 | 767.200 | **6225258** |
| **LT 620 R3 A4** | 200 | 1.5 | 1 | 480.600 | **6225270** |
| **LT 630 R3 A4** | 300 | 1.5 | 1 | 544.700 | **6225272** |
| **LT 640 R3 A4** | 400 | 1.5 | 1 | 635.600 | **6225274** |
| **LT 650 R3 A4** | 500 | 1.5 | 1 | 706.200 | **6225276** |
| **LT 660 R3 A4** | 600 | 1.5 | 1 | 776.900 | **6225278** |

T piece, horizontal, with welded rung for all cable ladder types of 60 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

## T piece VS 60

A2 2B





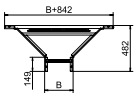

| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **LT 620 VS A2** | 200 | 1 | 680.000 | **7162022** |
| **LT 630 VS A2** | 300 | 1 | 795.000 | **7162049** |
| **LT 640 VS A2** | 400 | 1 | 879.000 | **7162057** |
| **LT 650 VS A2** | 500 | 1 | 962.000 | **7162073** |
| **LT 660 VS A2** | 600 | 1 | 1,104.000 | **7162081** |

Tee, horizontal, for cable ladders with medium-duty rungs (VS) and a side height of 60 mm.
Connectors should be ordered separately and in the appropriate quantity.

A2 A4 2B

## Add-on tee 60

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LAA 620 R3 A2** | 200 | 1.5 | 1 | 304.000 | **6225882** |
| **LAA 630 R3 A2** | 300 | 1.5 | 1 | 326.000 | **6225884** |
| **LAA 640 R3 A2** | 400 | 1.5 | 1 | 348.000 | **6225886** |
| **LAA 650 R3 A2** | 500 | 1.5 | 1 | 371.000 | **6225888** |
| **LAA 660 R3 A2** | 600 | 1.5 | 1 | 393.000 | **6225890** |
| **LAA 620 R3 A4** | 200 | 1.5 | 1 | 304.000 | **6225894** |
| **LAA 630 R3 A4** | 300 | 1.5 | 1 | 326.000 | **6225896** |
| **LAA 640 R3 A4** | 400 | 1.5 | 1 | 348.000 | **6225898** |
| **LAA 650 R3 A4** | 500 | 1.5 | 1 | 371.000 | **6225900** |
| **LAA 660 R3 A4** | 600 | 1.5 | 1 | 393.000 | **6225902** |



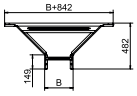



Mounting/branch with welded rung for use in the cable ladder types with a side height of 60 mm.
Connectors should be ordered separately and in the appropriate quantity.

St FS FT

## Add-on tee 60

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LAA 620 R3 FS** | 200 | 1.5 | 1 | 306.000 | **6225850** |
| **LAA 630 R3 FS** | 300 | 1.5 | 1 | 328.000 | **6225852** |
| **LAA 640 R3 FS** | 400 | 1.5 | 1 | 351.000 | **6225854** |
| **LAA 650 R3 FS** | 500 | 1.5 | 1 | 373.000 | **6225856** |
| **LAA 660 R3 FS** | 600 | 1.5 | 1 | 395.000 | **6225858** |
| **LAA 620 R3 FT** | 200 | 1.5 | 1 | 316.000 | **6225870** |
| **LAA 630 R3 FT** | 300 | 1.5 | 1 | 339.000 | **6225872** |
| **LAA 640 R3 FT** | 400 | 1.5 | 1 | 363.000 | **6225874** |
| **LAA 650 R3 FT** | 500 | 1.5 | 1 | 387.000 | **6225876** |
| **LAA 660 R3 FT** | 600 | 1.5 | 1 | 410.000 | **6225878** |



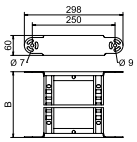



Mounting/branch with welded rung for use in the cable ladder types with a side height of 60 mm.
Connectors should be ordered separately and in the appropriate quantity.

St FS FT

## Adjustable bend element 60

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LGBE 620 FS** | 200 | 1.5 | 1 | 84.000 | **6225450** |
| **LGBE 630 FS** | 300 | 1.5 | 1 | 97.000 | **6225452** |
| **LGBE 640 FS** | 400 | 1.5 | 1 | 109.900 | **6225454** |
| **LGBE 650 FS** | 500 | 1.5 | 1 | 122.900 | **6225456** |
| **LGBE 660 FS** | 600 | 1.5 | 1 | 135.900 | **6225458** |
| **LGBE 620 FT** | 200 | 1.5 | 1 | 89.000 | **6225470** |
| **LGBE 630 FT** | 300 | 1.5 | 1 | 102.600 | **6225472** |
| **LGBE 640 FT** | 400 | 1.5 | 1 | 116.400 | **6225474** |
| **LGBE 650 FT** | 500 | 1.5 | 1 | 130.200 | **6225476** |
| **LGBE 660 FT** | 600 | 1.5 | 1 | 144.000 | **6225478** |






Adjustable bend element with welded rung for use in the cable ladder types with a side height of 60 mm.

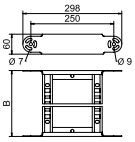


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## Adjustable bend element 60

A2 VA 2B





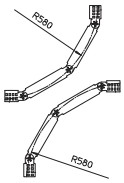

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LGBE 620 A2** | 200 | 1.5 | 1 | 84.000 | **6225460** |
| **LGBE 630 A2** | 300 | 1.5 | 1 | 97.000 | **6225462** |
| **LGBE 640 A2** | 400 | 1.5 | 1 | 109.900 | **6225464** |
| **LGBE 650 A2** | 500 | 1.5 | 1 | 122.900 | **6225466** |
| **LGBE 660 A2** | 600 | 1.5 | 1 | 135.900 | **6225468** |
| **LGBE 620 A4** | 200 | 1.5 | 1 | 84.000 | **6225480** |
| **LGBE 630 A4** | 300 | 1.5 | 1 | 97.000 | **6225482** |
| **LGBE 640 A4** | 400 | 1.5 | 1 | 109.900 | **6225484** |
| **LGBE 650 A4** | 500 | 1.5 | 1 | 122.900 | **6225486** |
| **LGBE 660 A4** | 600 | 1.5 | 1 | 135.900 | **6225488** |

Adjustable bend element with welded rung for use in cable ladder types with a side height of 60 mm.

## Articulated bend, vertical, VS 60

St FS FT



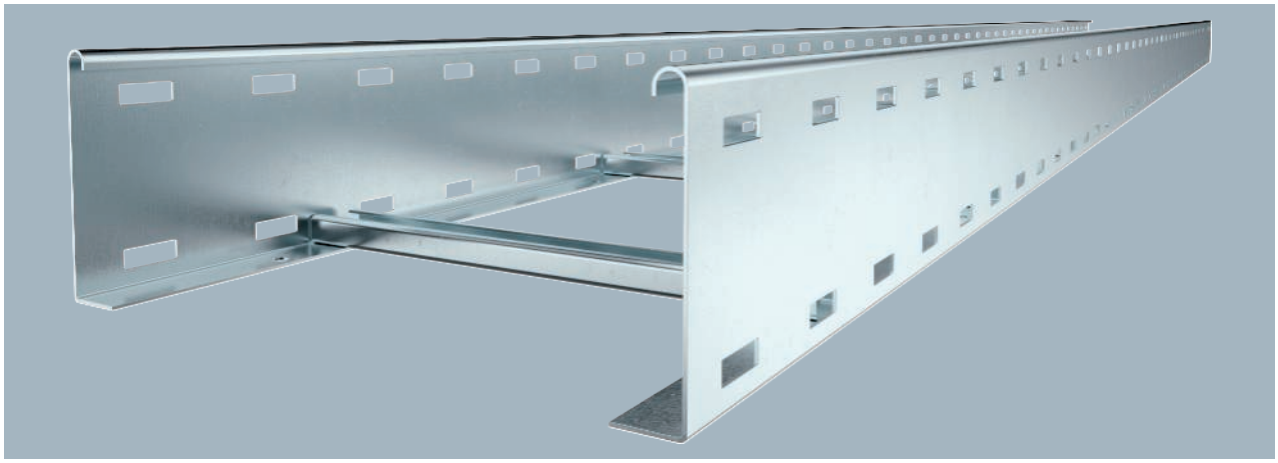



| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **LGBV 620 VS FS** | 200 | 1 | 257.000 | **6213227** |
| **LGBV 630 VS FS** | 300 | 1 | 286.000 | **6213235** |
| **LGBV 640 VS FS** | 400 | 1 | 315.000 | **6213243** |
| **LGBV 650 VS FS** | 500 | 1 | 344.000 | **6213251** |
| **LGBV 660 VS FS** | 600 | 1 | 374.000 | **6213278** |
| **LGBV 620 VS FT** | 200 | 1 | 270.000 | **6213324** |
| **LGBV 630 VS FT** | 300 | 1 | 301.000 | **6213332** |
| **LGBV 640 VS FT** | 400 | 1 | 332.000 | **6213340** |
| **LGBV 650 VS FT** | 500 | 1 | 363.000 | **6213359** |
| **LGBV 660 VS FT** | 600 | 1 | 394.000 | **6213367** |

90° adjustable vertical bend, for cable ladders with medium-duty rung (VS) and a side height of 60 mm.
The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.

St FS

## Cable ladder LG 110, 3 m VS

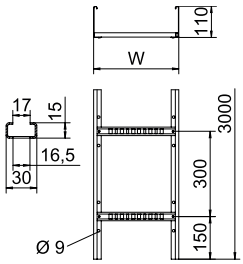


The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

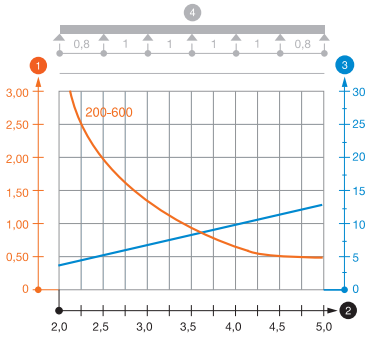
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **LG 112 VS 3 FS** | 200 | 3 | 396.600 | **6216404** |
| **LG 113 VS 3 FS** | 300 | 3 | 396.600 | **6216407** |
| **LG 114 VS 3 FS** | 400 | 3 | 422.267 | **6216410** |
| **LG 115 VS 3 FS** | 500 | 3 | 440.267 | **6216413** |
| **LG 116 VS 3 FS** | 600 | 3 | 462.000 | **6216416** |

### Dimensions




| Type | Length mm | Dim. B mm | Rail thickness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LG 112 VS 3 FS | 3000 | 200 | 1.5 | 188 | 300 |
| LG 113 VS 3 FS | 3000 | 300 | 1.5 | 283 | 300 |
| LG 114 VS 3 FS | 3000 | 400 | 1.5 | 378 | 300 |
| LG 115 VS 3 FS | 3000 | 500 | 1.5 | 475 | 300 |
| LG 116 VS 3 FS | 3000 | 600 | 1.5 | 568 | 300 |

### Load




| | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m |
|---|---|---|---|---|
| **LG 112 VS 3 FS** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 113 VS 3 FS** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 114 VS 3 FS** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 115 VS 3 FS** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 116 VS 3 FS** | 3.1 | 1.4 | 0.65 | 0.5 |

**Load diagram, cable ladder, type LG 110 VS**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

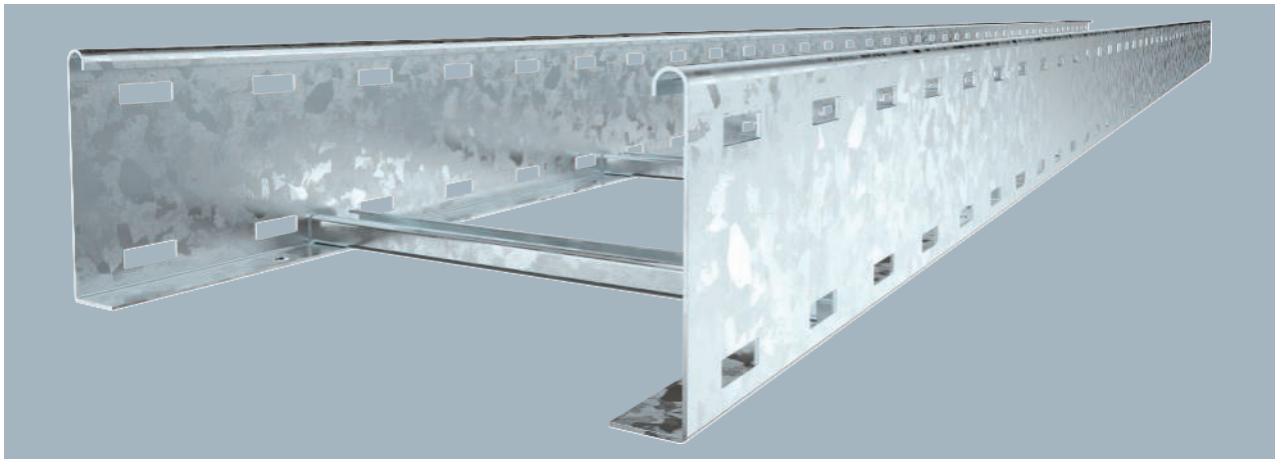
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width



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## Cable ladder LG 110, 3 m VS

St FT



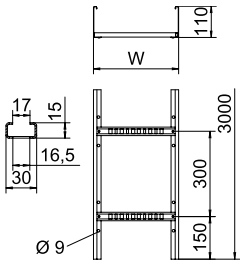
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **LG 112 VS 3 FT** | 200 | 3 | 400.000 | **6216423** |
| **LG 113 VS 3 FT** | 300 | 3 | 423.000 | **6216426** |
| **LG 114 VS 3 FT** | 400 | 3 | 446.000 | **6216429** |
| **LG 115 VS 3 FT** | 500 | 3 | 469.533 | **6216432** |
| **LG 116 VS 3 FT** | 600 | 3 | 500.000 | **6216435** |

The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

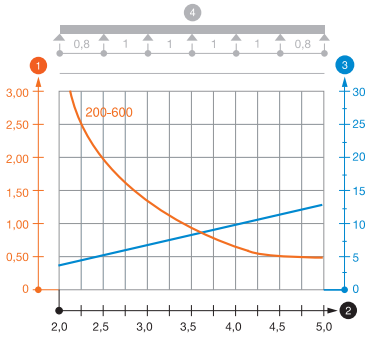
| Type | Length mm | Dim. B mm | Rail thick-ness mm | Usable cross-section $cm^2$ | Rung spacing mm |
|---|---|---|---|---|---|
| LG 112 VS 3 FT | 3000 | 200 | 1.5 | 188 | 300 |
| LG 113 VS 3 FT | 3000 | 300 | 1.5 | 283 | 300 |
| LG 114 VS 3 FT | 3000 | 400 | 1.5 | 378 | 300 |
| LG 115 VS 3 FT | 3000 | 500 | 1.5 | 475 | 300 |
| LG 116 VS 3 FT | 3000 | 600 | 1.5 | 568 | 300 |

### Dimensions




| | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m |
|---|---|---|---|---|
| **LG 112 VS 3 FT** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 113 VS 3 FT** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 114 VS 3 FT** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 115 VS 3 FT** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 116 VS 3 FT** | 3.1 | 1.4 | 0.65 | 0.5 |

### Load




### Load diagram, cable ladder, type LG 110 VS

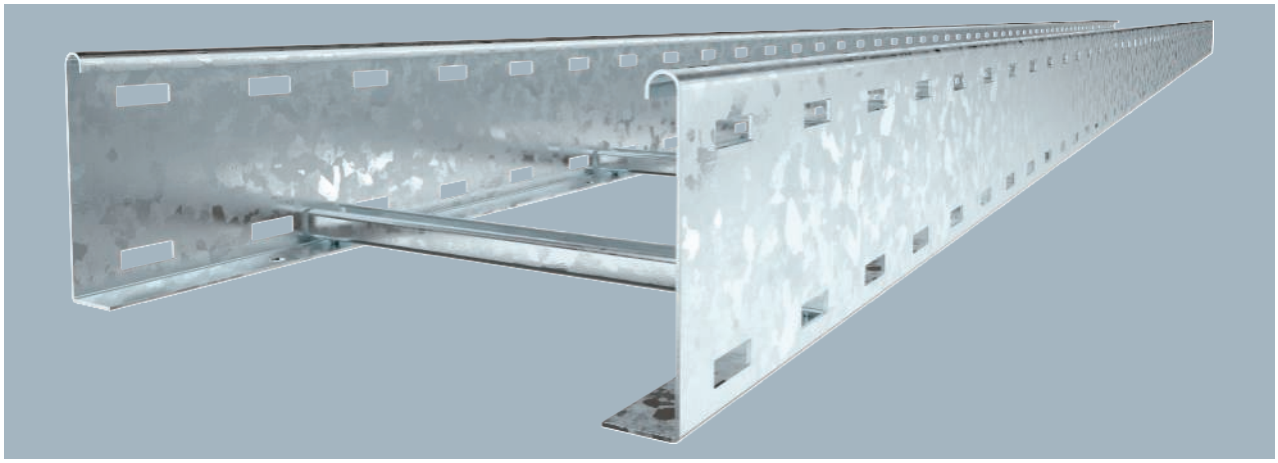
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

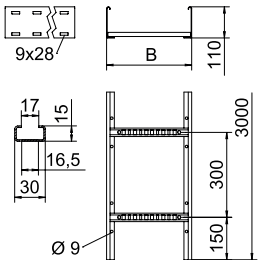
## Cable ladder LCIS 110, 6 m C30



Cable ladder with 110 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

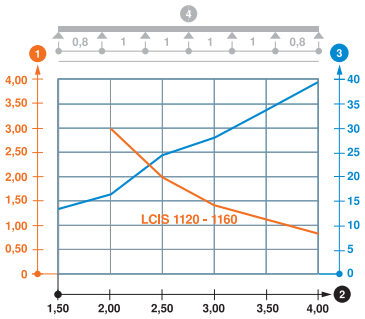
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **LCIS 1120 6 FT** | 200 | 6 | 399.200 | **6209820** |
| **LCIS 1130 6 FT** | 300 | 6 | 422.534 | **6209822** |
| **LCIS 1140 6 FT** | 400 | 6 | 446.200 | **6209824** |
| **LCIS 1145 6 FT** | 450 | 6 | 459.534 | **6209825** |
| **LCIS 1150 6 FT** | 500 | 6 | 469.867 | **6209826** |
| **LCIS 1160 6 FT** | 600 | 6 | 491.670 | **6209828** |

### Dimensions




| Type | Length mm | Dim. B mm | Rail thick-ness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LCIS 1120 6 FT | 6000 | 200 | 1.5 | 180 | 300 |
| LCIS 1130 6 FT | 6000 | 300 | 1.5 | 270 | 300 |
| LCIS 1140 6 FT | 6000 | 400 | 1.5 | 360 | 300 |
| LCIS 1145 6 FT | 6000 | 450 | 1.5 | 405 | 300 |
| LCIS 1150 6 FT | 6000 | 500 | 1.5 | 450 | 300 |
| LCIS 1160 6 FT | 6000 | 600 | 1.5 | 540 | 300 |

### Load




| | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---|---|---|---|---|
| **LCIS 1120 6 FT** | 3 | 2 | 1.4 | 0.8 |
| **LCIS 1130 6 FT** | 3 | 2 | 1.4 | 0.8 |
| **LCIS 1140 6 FT** | 3 | 2 | 1.4 | 0.8 |
| **LCIS 1145 6 FT** | 3 | 2 | 1.4 | 0.8 |
| **LCIS 1150 6 FT** | 3 | 2 | 1.4 | 0.8 |
| **LCIS 1160 6 FT** | 3 | 2 | 1.4 | 0.8 |

**Load diagram, cable ladder, type LCIS 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

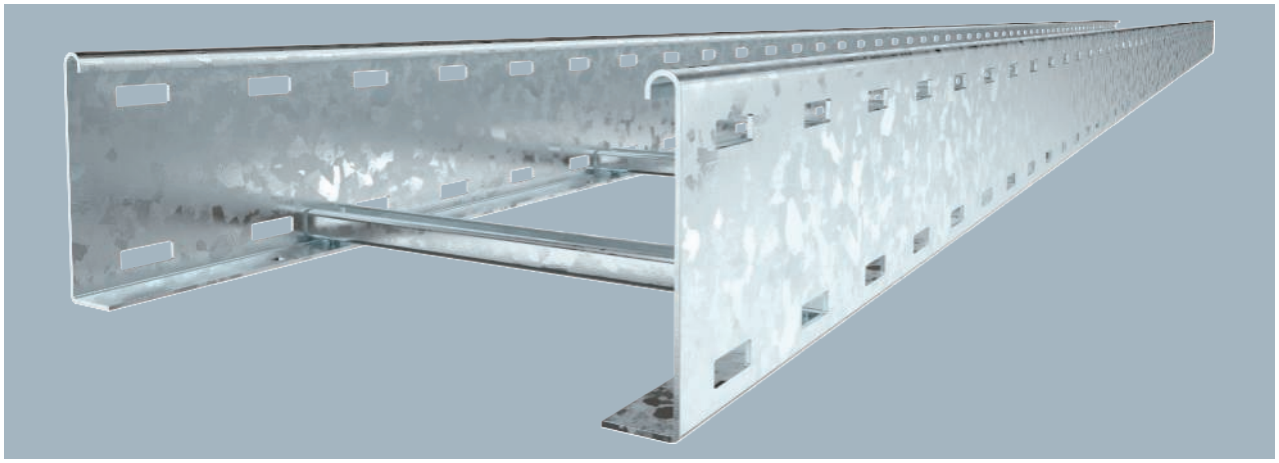
— Strut bend curve according to support width



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## Cable ladder SLCS 110, 3 m C30

St FT

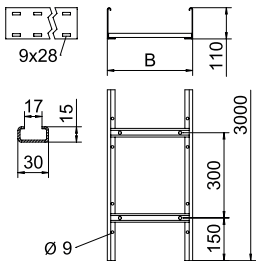


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SLCS 1120 3 FT** | 200 | 3 | 521.800 | **6207302** |
| **SLCS 1130 3 FT** | 300 | 3 | 555.800 | **6207304** |
| **SLCS 1140 3 FT** | 400 | 3 | 589.467 | **6207306** |
| **SLCS 1145 3 FT** | 450 | 3 | 612.800 | **6207308** |
| **SLCS 1150 3 FT** | 500 | 3 | 623.133 | **6207310** |
| **SLCS 1160 3 FT** | 600 | 3 | 656.800 | **6207312** |
| **SLCS 1175 3 FT** | 750 | 3 | 707.467 | **6207314** |
| **SLCS 1180 3 FT** | 800 | 3 | 724.133 | **6207316** |
| **SLCS 1190 3 FT** | 900 | 3 | 758.133 | **6207318** |
| **SLCS 11100 3 FT** | 1000 | 3 | 791.800 | **6207320** |
| **SLCS 11120 3 FT** | 1200 | 3 | 859.133 | **6207322** |

Cable ladder with 110 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

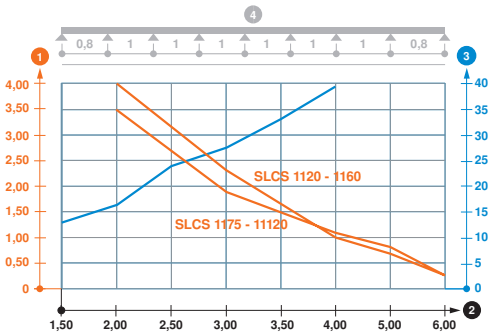
| Type | Length mm | Dim. B mm | Rail thick-ness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| SLCS 1120 3 FT | 3000 | 200 | 2 | 180 | 300 |
| SLCS 1130 3 FT | 3000 | 300 | 2 | 270 | 300 |
| SLCS 1140 3 FT | 3000 | 400 | 2 | 360 | 300 |
| SLCS 1145 3 FT | 3000 | 450 | 2 | 405 | 300 |
| SLCS 1150 3 FT | 3000 | 500 | 2 | 450 | 300 |
| SLCS 1160 3 FT | 3000 | 600 | 2 | 540 | 300 |
| SLCS 1175 3 FT | 3000 | 750 | 2 | 675 | 300 |
| SLCS 1180 3 FT | 3000 | 800 | 2 | 720 | 300 |
| SLCS 1190 3 FT | 3000 | 900 | 2 | 810 | 300 |
| SLCS 11100 3 FT | 3000 | 1000 | 2 | 900 | 300 |
| SLCS 11120 3 FT | 3000 | 1100 | 2 | 1180 | 300 |

**Dimensions**




| | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m |
|---|---|---|---|---|---|
| **SLCS 1120 3 FT** | 4 | 2.3 | 1 | 0.7 | 0.25 |
| **SLCS 1130 3 FT** | 4 | 2.3 | 1 | 0.7 | 0.25 |
| **SLCS 1140 3 FT** | 4 | 2.3 | 1 | 0.7 | 0.25 |
| **SLCS 1145 3 FT** | 4 | 2.3 | 1 | 0.7 | 0.25 |
| **SLCS 1150 3 FT** | 4 | 2.3 | 1 | 0.7 | 0.25 |
| **SLCS 1160 3 FT** | 4 | 2.3 | 1 | 0.7 | 0.25 |
| **SLCS 1175 3 FT** | 3.5 | 1.9 | 1 | 0.8 | 0.25 |
| **SLCS 1180 3 FT** | 3.5 | 1.9 | 1 | 0.8 | 0.25 |
| **SLCS 1190 3 FT** | 3.5 | 1.9 | 1 | 0.8 | 0.25 |
| **SLCS 11100 3 FT** | 3.5 | 1.9 | 1 | 0.8 | 0.25 |
| **SLCS 11120 3 FT** | 3.5 | 1.9 | 1 | 0.8 | 0.25 |

**Load**




**Load diagram, cable ladder, type SLCS 110**

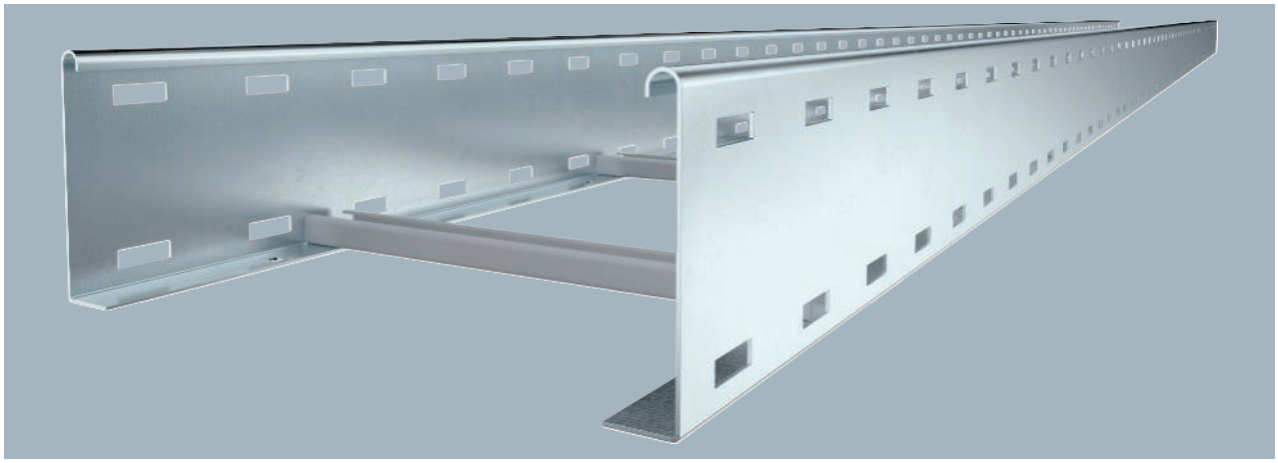
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

## Cable ladder LG 110, 6 m VS

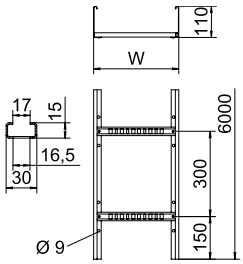


The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

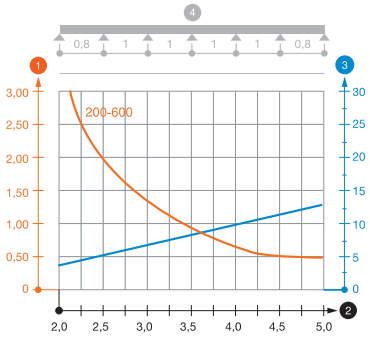
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **LG 112 VS 6 FS** | 200 | 6 | 374.966 | **6216442** |
| **LG 113 VS 6 FS** | 300 | 6 | 396.633 | **6216445** |
| **LG 114 VS 6 FS** | 400 | 6 | 422.300 | **6216448** |
| **LG 115 VS 6 FS** | 500 | 6 | 440.300 | **6216451** |
| **LG 116 VS 6 FS** | 600 | 6 | 461.967 | **6216454** |

### Dimensions




| Type | Length mm | Dim. B mm | Rail thickness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LG 112 VS 6 FS | 6000 | 200 | 1.5 | 188 | 300 |
| LG 113 VS 6 FS | 6000 | 300 | 1.5 | 283 | 300 |
| LG 114 VS 6 FS | 6000 | 400 | 1.5 | 378 | 300 |
| LG 115 VS 6 FS | 6000 | 500 | 1.5 | 475 | 300 |
| LG 116 VS 6 FS | 6000 | 600 | 1.5 | 568 | 300 |

### Load




| | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m |
|---|---|---|---|---|
| **LG 112 VS 6 FS** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 113 VS 6 FS** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 114 VS 6 FS** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 115 VS 6 FS** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 116 VS 6 FS** | 3.1 | 1.4 | 0.65 | 0.5 |

**Load diagram, cable ladder, type LG 110 VS**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

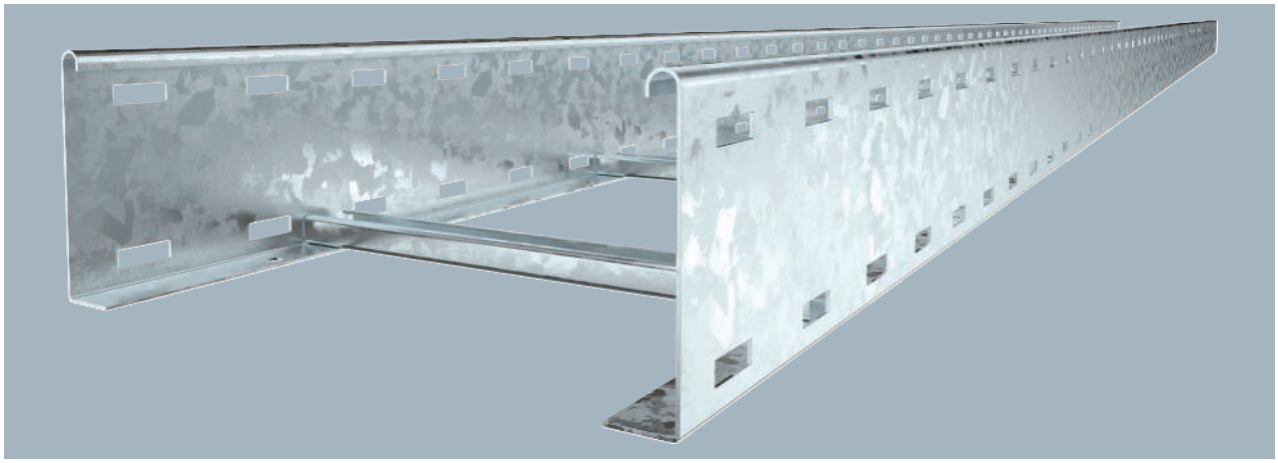
— Strut bend curve according to support width



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## Cable ladder LG 110, 6 m VS

St FT



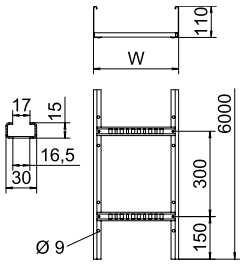
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **LG 112 VS 6 FT** | 200 | 6 | 399.867 | **6216465** |
| **LG 113 VS 6 FT** | 300 | 6 | 422.833 | **6216468** |
| **LG 114 VS 6 FT** | 400 | 6 | 445.867 | **6216471** |
| **LG 115 VS 6 FT** | 500 | 6 | 469.533 | **6216474** |
| **LG 116 VS 6 FT** | 600 | 6 | 500.200 | **6216477** |

The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

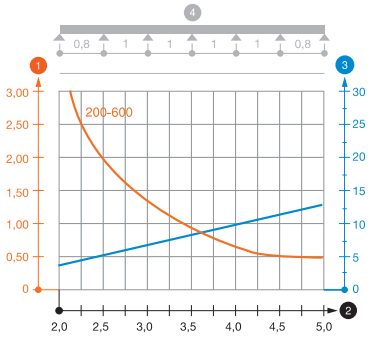
| Type | Length mm | Dim. B mm | Rail thickness mm | Usable cross-section $cm^2$ | Rung spacing mm |
|---|---|---|---|---|---|
| LG 112 VS 6 FT | 6000 | 200 | 1.5 | 188 | 300 |
| LG 113 VS 6 FT | 6000 | 300 | 1.5 | 283 | 300 |
| LG 114 VS 6 FT | 6000 | 400 | 1.5 | 378 | 300 |
| LG 115 VS 6 FT | 6000 | 500 | 1.5 | 475 | 300 |
| LG 116 VS 6 FT | 6000 | 600 | 1.5 | 568 | 300 |

### Dimensions




| | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m |
|---|---|---|---|---|
| **LG 112 VS 6 FT** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 113 VS 6 FT** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 114 VS 6 FT** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 115 VS 6 FT** | 3.1 | 1.4 | 0.65 | 0.5 |
| **LG 116 VS 6 FT** | 3.1 | 1.4 | 0.65 | 0.5 |

### Load




### Load diagram, cable ladder, type LG 110 VS

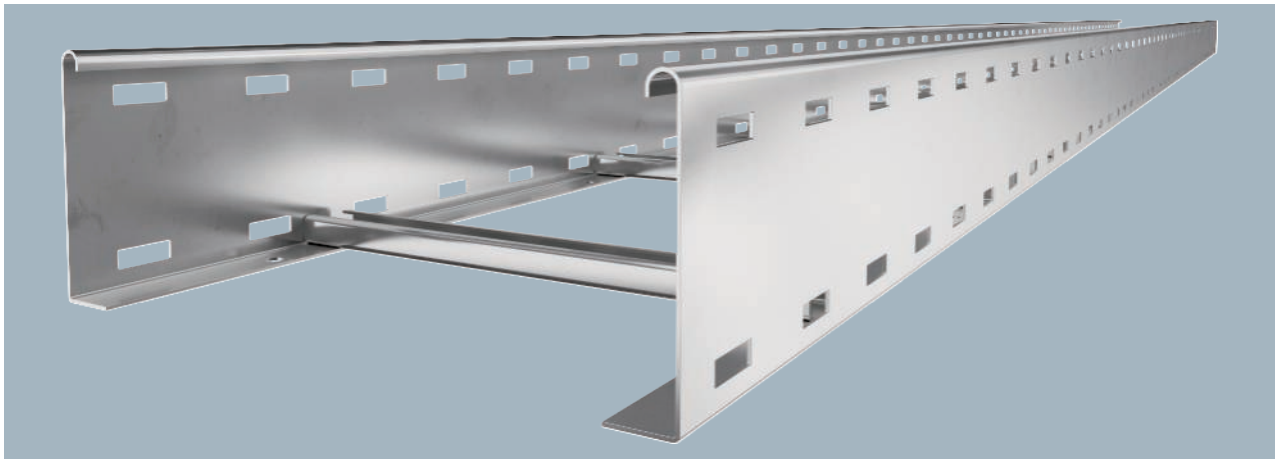
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

## Cable ladder LG 110, 6 m VS

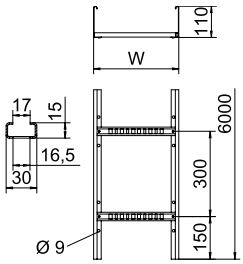


The cable ladder is shipped folded up.
You can find the appropriate U clamp of type 2056 in the vertical ladder systems chapter.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

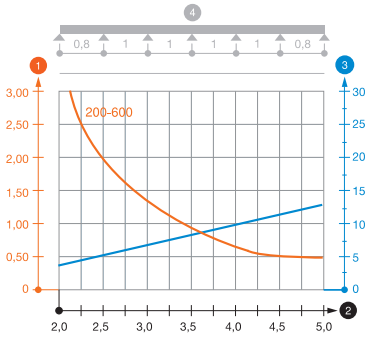
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **LG 112 VS6 A2** | 200 | 6 | 377.666 | **6216492** |
| **LG 113 VS6 A2** | 300 | 6 | 400.000 | **6216493** |
| **LG 114 VS6 A2** | 400 | 6 | 419.500 | **6216495** |
| **LG 115 VS6 A2** | 500 | 6 | 444.500 | **6216497** |
| **LG 116 VS6 A2** | 600 | 6 | 468.666 | **6216499** |

### Dimensions




| Type | Length mm | Dim. B mm | Rail thickness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LG 112 VS6 A2 | 6000 | 200 | 1.5 | 188 | 300 |
| LG 113 VS6 A2 | 6000 | 300 | 1.5 | 283 | 300 |
| LG 114 VS6 A2 | 6000 | 400 | 1.5 | 378 | 300 |
| LG 115 VS6 A2 | 6000 | 500 | 1.5 | 475 | 300 |
| LG 116 VS6 A2 | 6000 | 600 | 1.5 | 568 | 300 |

### Load




| | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m |
|---|---|---|---|---|
| **LG 112 VS6 A2** | 3.1 | 1.3 | 0.6 | 0.45 |
| **LG 113 VS6 A2** | 3.1 | 1.3 | 0.6 | 0.45 |
| **LG 114 VS6 A2** | 3.1 | 1.3 | 0.6 | 0.45 |
| **LG 115 VS6 A2** | 3.1 | 1.3 | 0.6 | 0.45 |
| **LG 116 VS6 A2** | 3.1 | 1.3 | 0.6 | 0.45 |

**Load diagram, cable ladder, type LG 110 A2**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

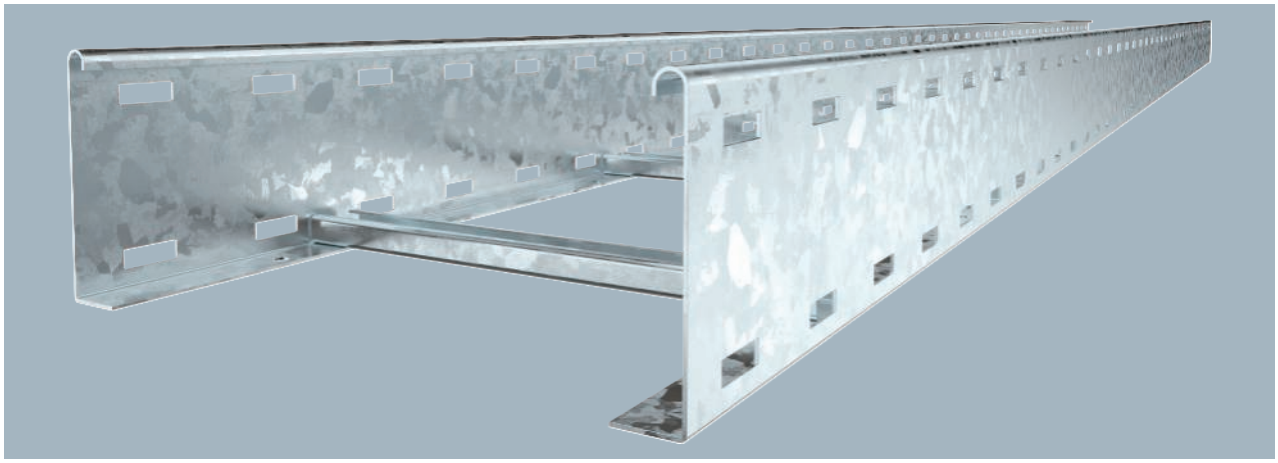
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width



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## Cable ladder LG 110, 6 m VS FT SOMY

St FT SO



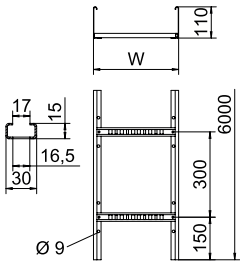
| Type | Width mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| LG 114 VS 6FT SO | 400 | | 6 | 461.167 | 7186395 |

The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with 110 mm side height with riveted C profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using hold-down clamps, type LKS 60/4. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

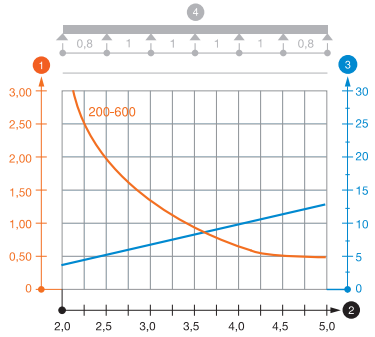
| Type | Length mm | Dim. B mm | Rail thickness mm | Usable cross-section $cm^2$ | Rung spacing mm |
|---|---|---|---|---|---|
| LG 114 VS 6FT SO | 6000 | 400 | 1.5 | 378 | 300 |

**Dimensions**




| | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m |
|---|---|---|---|---|
| LG 114 VS 6FT SO | 3.1 | 1.4 | 0.65 | 0.5 |

**Load**




**Load diagram, cable ladder, type LG 110 VS**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

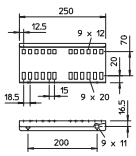
St FS FT

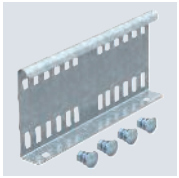
## LVG 110 straight connector

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LVG 110 FS | 110 | 10 | 50.900 | 6216545 |
| LVG 110 FT | 110 | 10 | 53.700 | 6216548 |

Straight connector as external connector to connect cable ladders and fittings with a side height of 110 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.



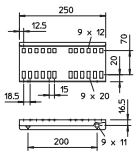
A2 2B

## Straight connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LVG 110 A2 | 110 | 10 | 50.900 | 6216550 |

Straight connector as external connector to connect cable ladders and fittings with a side height of 110 mm.

The bolt fastening ensures the continuity of the equipotential bonding.





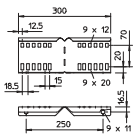

St FS

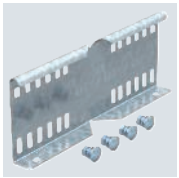
## Angle connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LWVG 110 FS | 110 | 10 | 48.800 | 6216587 |

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 110 mm and continuous rail perforation.



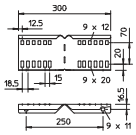
A2 2B

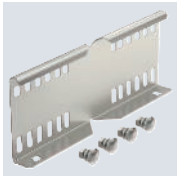
## Angle connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LWVG 110 A2 | 110 | 10 | 48.800 | 6216590 |

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 110 mm and continuous rail perforation.



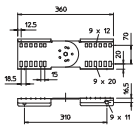
St FS FT

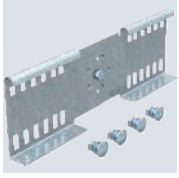
## Adjustable connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LGVG 110 FS | 110 | 10 | 77.900 | 6216650 |
| LGVG 110 FT | 110 | 10 | 82.100 | 6216653 |

Adjustable connector as internal connector to join cable ladders and fittings with a side height of 110 mm. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.



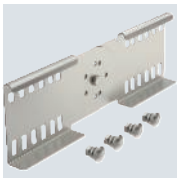


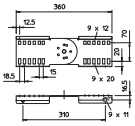
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# LG cable ladder system, side height 110

## Articulated connector 110

A2 2B





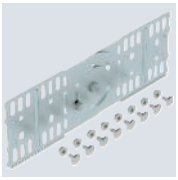

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **LGVG 110 A2** | 110 | 10 | 77.400 | **6216648** |

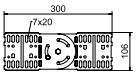
Adjustable connector as internal connector to join cable ladders and fittings with a side height of 110 mm. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.

## Adjustable connector SM

St FS



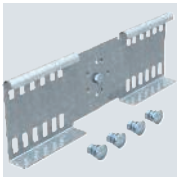


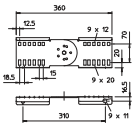

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RGV110-SM FS** | 110 | 10 | 62.000 | **7081995** |

Adjustable connectors as internal connectors to connect cable ladders and fittings of 110 mm side height. Some fastening material and self-locking nut included.

## Adjustable connector 110 FT SOMY

St FT SO





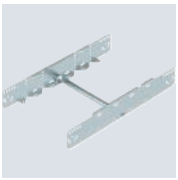

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **LGVG 110VS FTSO** | 110 | 10 | 83.800 | **7190590** |

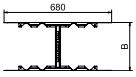
Adjustable connector as internal connector to join cable ladders and fittings with a side height of 110 mm. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.

## Multifunctional connector 110

St FS FT



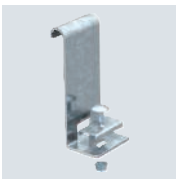


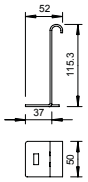

| Type | Dim. B mm | Side height mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **LMFV 1120 FS** | 200 | 110 | 1.50 | 1 | 208.100 | **6225750** |
| **LMFV 1130 FS** | 300 | 110 | 1.50 | 1 | 214.600 | **6225752** |
| **LMFV 1140 FS** | 400 | 110 | 1.50 | 1 | 221.100 | **6225754** |
| **LMFV 1150 FS** | 500 | 110 | 1.50 | 1 | 227.600 | **6225756** |
| **LMFV 1160 FS** | 600 | 110 | 1.50 | 1 | 234.000 | **6225758** |
| **LMFV 1120 FT** | 200 | 110 | 1.50 | 1 | 221.300 | **6225770** |
| **LMFV 1130 FT** | 300 | 110 | 1.50 | 1 | 228.200 | **6225772** |
| **LMFV 1140 FT** | 400 | 110 | 1.50 | 1 | 235.100 | **6225774** |
| **LMFV 1145 FT** | 450 | 110 | 1.50 | 1 | 238.500 | **6225776** |
| **LMFV 1150 FT** | 500 | 110 | 1.50 | 1 | 241.900 | **6225778** |
| **LMFV 1160 FT** | 600 | 110 | 1.50 | 1 | 248.800 | **6225780** |

Multifunctional connector for joining cable ladders with a side height of 110 mm. Symmetrical and asymmetrical reductions, infinitely-adjustable bends between 0–60° and add-on tees can be created.

## Connector 110

St FS FT






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **LAS 110 FS** | 10 | 17.900 | **6221416** |
| **LAS 110 FT** | 10 | 18.700 | **6221424** |

Connector for creation of branches at the same height at a later date.

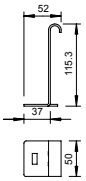
To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

A2 2B

## Connector 110

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| LAS 110 A2 | 1 | 18.000 | 6221432 |

Connector for creation of branches at the same height at a later date.
To increase the cable supporting surface, use a conjunction of corner plates of type LEB.



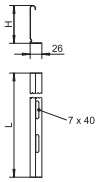



St FS DD

## Separating retainer 85

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 85 FS | 85 | 0.75 | 3000 | 3 | 70.233 | 6062114 |
| TSG 85 DD | 85 | 0.75 | 3000 | 3 | 70.300 | 6062331 |

Separating retainer for separation of cables of different voltages or functions.



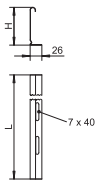



A2 2B

## Barrier strip 85

| Type | Dim. H mm | Metal thick-ness mm | Dim. L mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| TSG 85 A2 | 85 | 0.75 | 3000 | 3 | 74.958 | 6062173 |

Barrier strip for separation of cables of different voltages or functions.



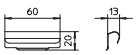



VA 2B

## Separating retainer connector

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| TSGV A2 | 10 | 0.899 | 6067970 |

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



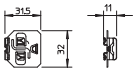



VA 2B

## Hold-down clamp for separating retainer fastening

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KS KL A2 | 30 | 0.512 | 6062284 |

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.







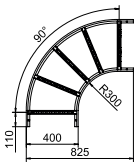

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# LG cable ladder system, side height 110

## 90° bend 110

St FS FT



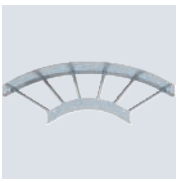


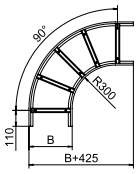

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LB 90 1120 R3 FS** | 200 | 1.5 | 1 | 355.300 | **6225122** |
| **LB 90 1130 R3 FS** | 300 | 1.5 | 1 | 428.300 | **6225124** |
| **LB 90 1140 R3 FS** | 400 | 1.5 | 1 | 488.000 | **6225126** |
| **LB 90 1150 R3 FS** | 500 | 1.5 | 1 | 580.400 | **6225128** |
| **LB 90 1160 R3 FS** | 600 | 1.5 | 1 | 646.500 | **6225130** |
| **LB 90 1120 R3 FT** | 200 | 1.5 | 1 | 379.700 | **6225142** |
| **LB 90 1130 R3 FT** | 300 | 1.5 | 1 | 457.900 | **6225144** |
| **LB 90 1140 R3 FT** | 400 | 1.5 | 1 | 521.400 | **6225146** |
| **LB 90 1145 R3 FT** | 450 | 1.5 | 1 | 555.800 | **6225148** |
| **LB 90 1150 R3 FT** | 500 | 1.5 | 1 | 619.600 | **6225150** |
| **LB 90 1160 R3 FT** | 600 | 1.5 | 1 | 688.700 | **6225152** |

90° bend, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

## 90° bend 110

St FT



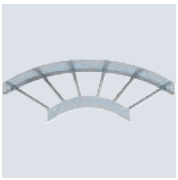


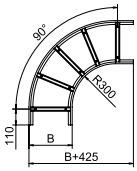

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLB 90 1120R3 FT** | 200 | 2 | 1 | 493.100 | **6225172** |
| **SLB 90 1130R3 FT** | 300 | 2 | 1 | 593.200 | **6225174** |
| **SLB 90 1140R3 FT** | 400 | 2 | 1 | 678.300 | **6225176** |
| **SLB 90 1150R3 FT** | 500 | 2 | 1 | 809.600 | **6225180** |
| **SLB 90 1160R3 FT** | 600 | 2 | 1 | 919.200 | **6225182** |

90° bend, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

## 90° bend 110

St FT





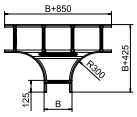

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLB 90 1145R3 FT** | 450 | 2 | 1 | 720.700 | **6225178** |
| **SLB 90 1175R3 FT** | 750 | 2 | 1 | 1,116.100 | **6225184** |
| **SLB 90 1180R3 FT** | 800 | 2 | 1 | 1,167.900 | **6225186** |
| **SLB 90 1190R3 FT** | 900 | 2 | 1 | 1,356.500 | **6225188** |
| **SLB90 11100R3 FT** | 1000 | 2 | 1 | 1,470.000 | **6225190** |
| **SLB90 11120R3 FT** | 1200 | 2 | 1 | 1,856.200 | **6225194** |

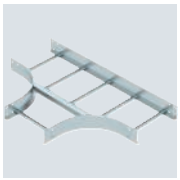
90° bend, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FS FT

## T piece 110

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LT 1120 R3 FS** | 200 | 1.5 | 1 | 611.800 | **6225290** |
| **LT 1130 R3 FS** | 300 | 1.5 | 1 | 680.000 | **6225292** |
| **LT 1140 R3 FS** | 400 | 1.5 | 1 | 774.500 | **6225294** |
| **LT 1150 R3 FS** | 500 | 1.5 | 1 | 849.300 | **6225296** |
| **LT 1160 R3 FS** | 600 | 1.5 | 1 | 924.000 | **6225298** |
| **LT 1120 R3 FT** | 200 | 1.5 | 1 | 651.500 | **6225310** |
| **LT 1130 R3 FT** | 300 | 1.5 | 1 | 781.100 | **6225312** |
| **LT 1140 R3 FT** | 400 | 1.5 | 1 | 882.600 | **6225314** |
| **LT 1145 R3 FT** | 450 | 1.5 | 1 | 926.800 | **6225316** |
| **LT 1150 R3 FT** | 500 | 1.5 | 1 | 963.100 | **6225318** |
| **LT 1160 R3 FT** | 600 | 1.5 | 1 | 982.900 | **6225320** |



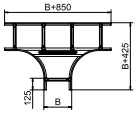



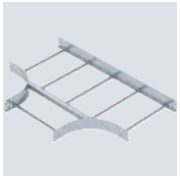
T piece, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FT

## T piece 110

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLT 1120 R3 FT** | 200 | 2 | 1 | 807.400 | **6225350** |
| **SLT 1130 R3 FT** | 300 | 2 | 1 | 969.800 | **6225352** |
| **SLT 1140 R3 FT** | 400 | 2 | 1 | 1,099.200 | **6225354** |
| **SLT 1150 R3 FT** | 500 | 2 | 1 | 1,200.500 | **6225358** |
| **SLT 1160 R3 FT** | 600 | 2 | 1 | 1,251.100 | **6225360** |



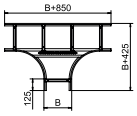



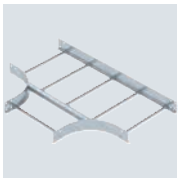
T piece, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FT

## T piece 110

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLT 1145 R3 FT** | 450 | 2 | 1 | 1,150.300 | **6225356** |
| **SLT 1175 R3 FT** | 750 | 2 | 1 | 1,524.900 | **6225362** |
| **SLT 1180 R3 FT** | 800 | 2 | 1 | 1,579.500 | **6225364** |
| **SLT 1190 R3 FT** | 900 | 2 | 1 | 1,690.600 | **6225366** |
| **SLT 11100 R3 FT** | 1000 | 2 | 1 | 1,801.700 | **6225368** |
| **SLT 11120 R3 FT** | 1200 | 2 | 1 | 2,092.200 | **6225372** |



T piece, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

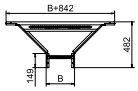


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## Add-on tee 110

St FS FT





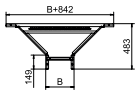

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LAA 1120 R3 FS** | 200 | 1.5 | 1 | 389.000 | **6225910** |
| **LAA 1130 R3 FS** | 300 | 1.5 | 1 | 411.000 | **6225912** |
| **LAA 1140 R3 FS** | 400 | 1.5 | 1 | 434.000 | **6225914** |
| **LAA 1150 R3 FS** | 500 | 1.5 | 1 | 457.000 | **6225916** |
| **LAA 1160 R3 FS** | 600 | 1.5 | 1 | 480.000 | **6225918** |
| **LAA 1120 R3 FT** | 200 | 1.5 | 1 | 401.000 | **6225930** |
| **LAA 1130 R3 FT** | 300 | 1.5 | 1 | 426.000 | **6225932** |
| **LAA 1140 R3 FT** | 400 | 1.5 | 1 | 449.000 | **6225934** |
| **LAA 1145 R3 FT** | 450 | 1.5 | 1 | 461.000 | **6225936** |
| **LAA 1150 R3 FT** | 500 | 1.5 | 1 | 472.000 | **6225938** |
| **LAA 1160 R3 FT** | 600 | 1.5 | 1 | 497.000 | **6225940** |

Add-on tee with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

## Add-on tee 110

St FT





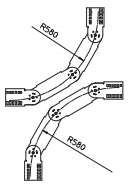

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLAA 1120 R3 FT** | 200 | 2 | 1 | 524.000 | **6225950** |
| **SLAA 1130 R3 FT** | 300 | 2 | 1 | 545.000 | **6225952** |
| **SLAA 1140 R3 FT** | 400 | 2 | 1 | 587.000 | **6225954** |
| **SLAA 1150 R3 FT** | 500 | 2 | 1 | 617.000 | **6225958** |
| **SLAA 1160 R3 FT** | 600 | 2 | 1 | 649.000 | **6225960** |
| **SLAA 1145 R3 FT** | 450 | 2 | 1 | 602.000 | **6225956** |
| **SLAA 1175 R3 FT** | 750 | 2 | 1 | 696.000 | **6225962** |
| **SLAA 1180 R3 FT** | 800 | 2 | 1 | 711.000 | **6225964** |
| **SLAA 1190 R3 FT** | 900 | 2 | 1 | 743.000 | **6225966** |
| **SLAA 11100 R3 FT** | 1000 | 2 | 1 | 774.000 | **6225968** |
| **SLAA 11120 R3 FT** | 1200 | 2 | 1 | 837.000 | **6225970** |

Add-on tee with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

## Adjustable bend, vertical 110

St FS FT





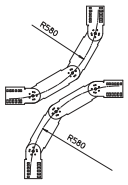

| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **LGBV 115 VS FS** | 500 | 1 | 489.000 | **6218857** |
| **LGBV 112 VS FT** | 200 | 1 | 426.000 | **6218938** |
| **LGBV 113 VS FT** | 300 | 1 | 457.000 | **6218946** |
| **LGBV 114 VS FT** | 400 | 1 | 488.000 | **6218954** |
| **LGBV 115 VS FT** | 500 | 1 | 519.000 | **6218962** |
| **LGBV 116 VS FT** | 600 | 1 | 540.000 | **6218970** |

90° adjustable vertical bend, for all cable ladder types with a side height of 110 mm.
The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.

## Adjustable bend, vertical 110

St FS





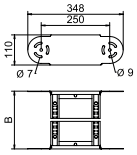

| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **LGBV 112 VS FS** | 200 | 1 | 402.000 | **6218822** |
| **LGBV 113 VS FS** | 300 | 1 | 431.000 | **6218830** |
| **LGBV 114 VS FS** | 400 | 1 | 460.000 | **6218849** |
| **LGBV 116 VS FS** | 600 | 1 | 519.000 | **6218865** |

90° adjustable vertical bend, for all cable ladder types with a side height of 110 mm.
The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.

St FS FT

## Adjustable bend element 110

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LGBE 1120 FS** | 200 | 1.5 | 1 | 128.000 | **6225490** |
| **LGBE 1130 FS** | 300 | 1.5 | 1 | 142.100 | **6225492** |
| **LGBE 1140 FS** | 400 | 1.5 | 1 | 155.300 | **6225494** |
| **LGBE 1150 FS** | 500 | 1.5 | 1 | 168.600 | **6225496** |
| **LGBE 1160 FS** | 600 | 1.5 | 1 | 181.800 | **6225498** |
| **LGBE 1120 FT** | 200 | 1.5 | 1 | 136.900 | **6225510** |
| **LGBE 1130 FT** | 300 | 1.5 | 1 | 150.900 | **6225512** |
| **LGBE 1140 FT** | 400 | 1.5 | 1 | 165.100 | **6225514** |
| **LGBE 1145 FT** | 450 | 1.5 | 1 | 173.100 | **6225516** |
| **LGBE 1150 FT** | 500 | 1.5 | 1 | 179.300 | **6225518** |
| **LGBE 1160 FT** | 600 | 1.5 | 1 | 193.300 | **6225520** |



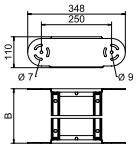



Adjustable bend element with welded rung for use in the cable ladder types with a side height of 110 mm.

St FT

## Adjustable bend element 110

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLGBE 1120 FT** | 200 | 2 | 1 | 172.800 | **6225530** |
| **SLGBE 1130 FT** | 300 | 2 | 1 | 191.800 | **6225532** |
| **SLGBE 1140 FT** | 400 | 2 | 1 | 210.800 | **6225534** |
| **SLGBE 1150 FT** | 500 | 2 | 1 | 229.600 | **6225538** |
| **SLGBE 1160 FT** | 600 | 2 | 1 | 248.600 | **6225540** |



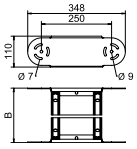



Adjustable bend element, heavy-duty, with welded rung for use in the cable ladder types with a side height of 110 mm.

St FT

## Adjustable bend element 110

| Type | Dim. B mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLGBE 1145 FT** | 450 | 2 | 1 | 220.200 | **6225536** |
| **SLGBE 1175 FT** | 750 | 2 | 1 | 277.000 | **6225542** |
| **SLGBE 1180 FT** | 800 | 2 | 1 | 286.400 | **6225544** |
| **SLGBE 1190 FT** | 900 | 2 | 1 | 305.400 | **6225546** |
| **SLGBE 11100 FT** | 1000 | 2 | 1 | 324.400 | **6225548** |
| **SLGBE 11120 FT** | 1200 | 2 | 1 | 362.200 | **6225550** |





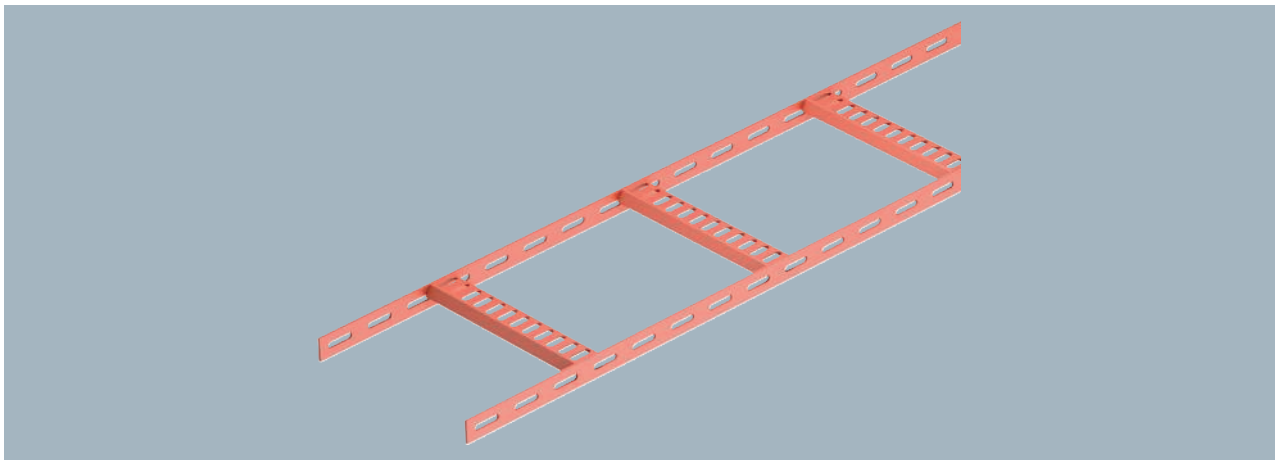

Adjustable bend element, heavy-duty, with welded rung for use in the cable ladder types with a side height of 110 mm.



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## Cable ladder with trapezoidal rung, 25

St SG



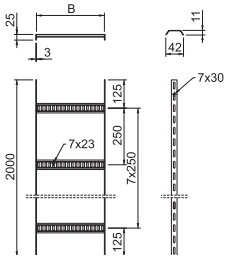
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SL 42 075 SG** | 75 | 2 | 109.000 | **7097026** |
| **SL 42 100 SG** | 100 | 2 | 112.500 | **7097034** |
| **SL 42 150 SG** | 150 | 2 | 119.000 | **7097042** |
| **SL 42 200 SG** | 200 | 2 | 125.500 | **7097050** |
| **SL 42 250 SG** | 250 | 2 | 132.000 | **7097069** |
| **SL 42 300 SG** | 300 | 2 | 139.000 | **7097077** |

The shipbuilding cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

Shipbuilding cable ladder with perforated side rail of side height 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV. Welding primer type SIGMA-WELD 199.

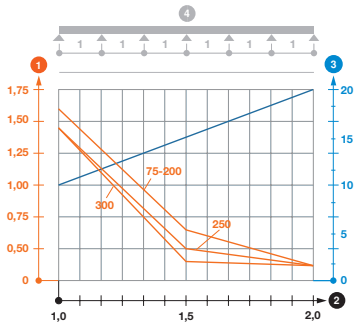
| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SL 42 075 SG | 2000 | 81 | 25 | 3 |
| SL 42 100 SG | 2000 | 106 | 25 | 3 |
| SL 42 150 SG | 2000 | 156 | 25 | 3 |
| SL 42 200 SG | 2000 | 206 | 25 | 3 |
| SL 42 250 SG | 2000 | 256 | 25 | 3 |
| SL 42 300 SG | 2000 | 306 | 25 | 3 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m |
|---|---|---|
| **SL 42 075 SG** | 0.5 | 0.36 |
| **SL 42 100 SG** | 0.5 | 0.36 |
| **SL 42 150 SG** | 0.5 | 0.36 |
| **SL 42 200 SG** | 0.5 | 0.36 |
| **SL 42 250 SG** | 0.5 | 0.36 |
| **SL 42 300 SG** | 0.5 | 0.36 |

### Load



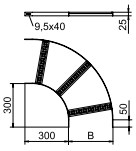

### Load diagram, SL42 cable ladder

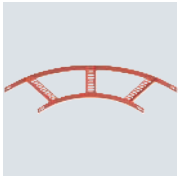
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

St SG

## 90° bend with trapezoidal rung, 25

| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLB 90 42 075 SG** | 75 | 3 | 1 | 70.600 | **7098500** |
| **SLB 90 42 100 SG** | 100 | 3 | 1 | 75.800 | **7098502** |
| **SLB 90 42 150 SG** | 150 | 3 | 1 | 85.400 | **7098510** |
| **SLB 90 42 200 SG** | 200 | 3 | 1 | 95.000 | **7098529** |
| **SLB 90 42 250 SG** | 250 | 3 | 1 | 104.600 | **7098537** |
| **SLB 90 42 300 SG** | 300 | 3 | 1 | 114.300 | **7098545** |



Connectors should be ordered separately and in the appropriate quantity.

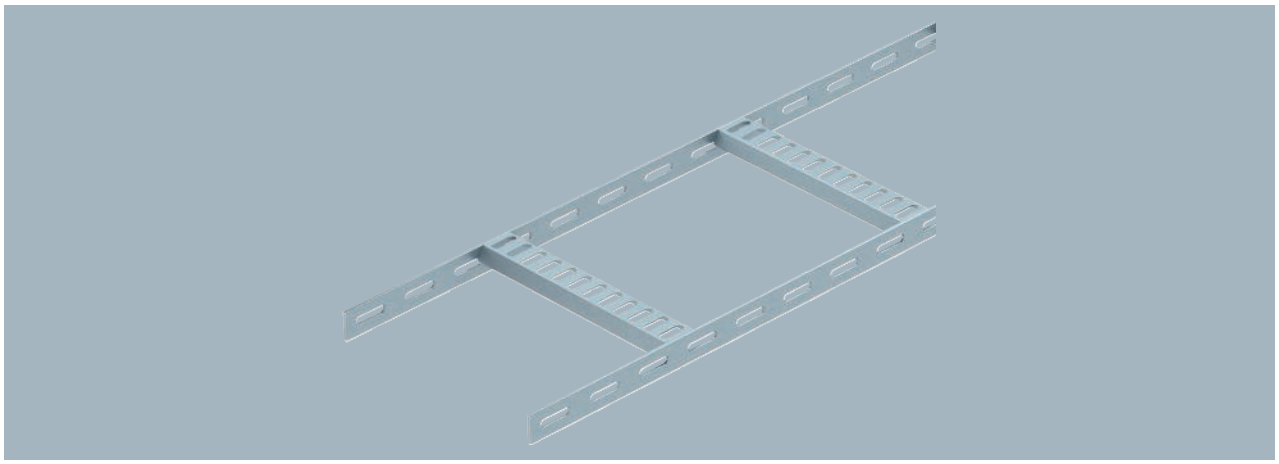
90° bend for shipbuilding cable ladder, type SL 42, with side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



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## Cable ladder with trapezoidal rung, 25

St FT

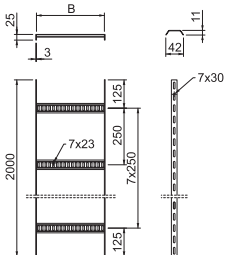


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SL 42 075 FT** | 75 | 2 | 114.000 | **7097115** |
| **SL 42 100 FT** | 100 | 2 | 118.000 | **7097123** |
| **SL 42 150 FT** | 150 | 2 | 125.000 | **7097131** |
| **SL 42 200 FT** | 200 | 2 | 132.500 | **7097158** |
| **SL 42 250 FT** | 250 | 2 | 140.000 | **7097166** |
| **SL 42 300 FT** | 300 | 2 | 147.500 | **7097174** |

Shipbuilding cable ladder with perforated side rail of side height 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV.

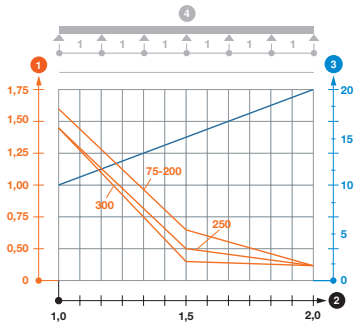
| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SL 42 075 FT | 2000 | 81 | 25 | 3 |
| SL 42 100 FT | 2000 | 106 | 25 | 3 |
| SL 42 150 FT | 2000 | 156 | 25 | 3 |
| SL 42 200 FT | 2000 | 206 | 25 | 3 |
| SL 42 250 FT | 2000 | 256 | 25 | 3 |
| SL 42 300 FT | 2000 | 306 | 25 | 3 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m |
|---|---|---|
| **SL 42 075 FT** | 0.5 | 0.36 |
| **SL 42 100 FT** | 0.5 | 0.36 |
| **SL 42 150 FT** | 0.5 | 0.36 |
| **SL 42 200 FT** | 0.5 | 0.36 |
| **SL 42 250 FT** | 0.5 | 0.36 |
| **SL 42 300 FT** | 0.5 | 0.36 |

**Load**

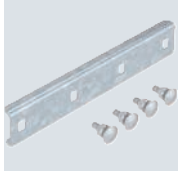


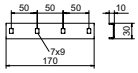

**Load diagram, SL42 cable ladder**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

## Connector 25

St Alu FT





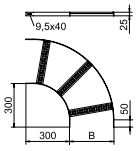

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **SLV 42 FT** | 20 | 11.900 | **7103540** |
| **SLV 42 ALU** | 20 | 4.951 | **7103552** |

Straight connector to connect cable ladders and fittings with a side height of 25 mm.

St FT

## 90° bend with trapezoidal rung, 25

| Type | Width mm | Rail thick-ness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **SLB 90 42 075 FT** | 75 | 3 | | 1 | 73.800 | **7098614** |
| **SLB 90 42 100 FT** | 100 | 3 | | 1 | 80.000 | **7098618** |
| **SLB 90 42 150 FT** | 150 | 3 | | 1 | 88.900 | **7098626** |
| **SLB 90 42 200 FT** | 200 | 3 | | 1 | 99.000 | **7098634** |
| **SLB 90 42 250 FT** | 250 | 3 | | 1 | 108.900 | **7098642** |
| **SLB 90 42 300 FT** | 300 | 3 | | 1 | 122.000 | **7098650** |






Connectors should be ordered separately and in the appropriate quantity.

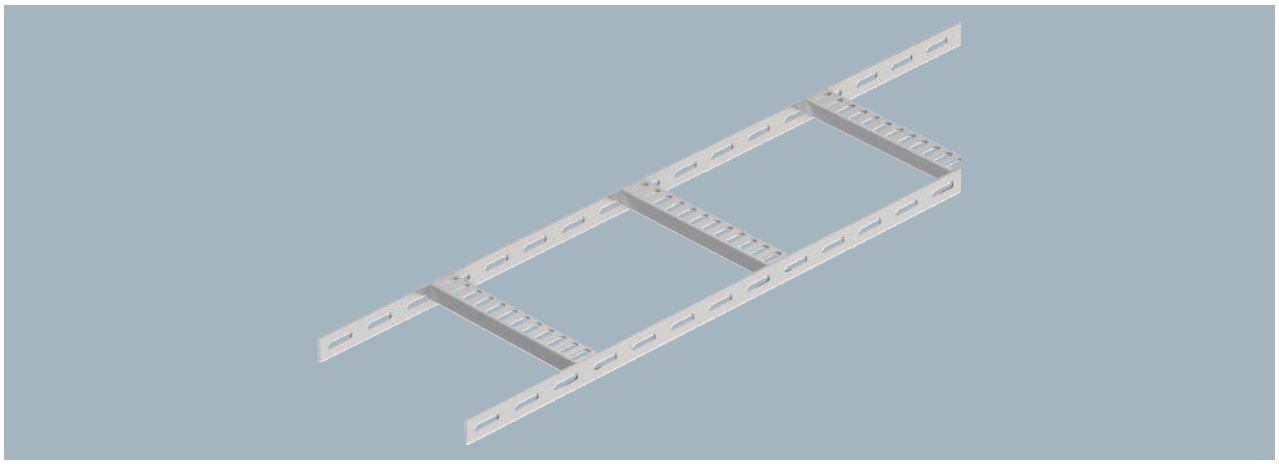
90° bend for shipbuilding cable ladders, type SL 42, with a side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



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## Cable ladder with trapezoidal rung, 25

A2 2B

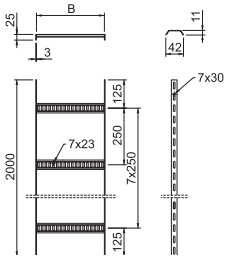


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SL 42 075 A2** | 75 | 2 | 109.000 | **7097080** |
| **SL 42 100 A2** | 100 | 2 | 112.500 | **7097082** |
| **SL 42 150 A2** | 150 | 2 | 119.000 | **7097084** |
| **SL 42 200 A2** | 200 | 2 | 125.500 | **7097086** |
| **SL 42 250 A2** | 250 | 2 | 132.000 | **7097088** |
| **SL 42 300 A2** | 300 | 2 | 139.000 | **7097090** |

Shipbuilding cable ladder with perforated side rail of side height 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV.

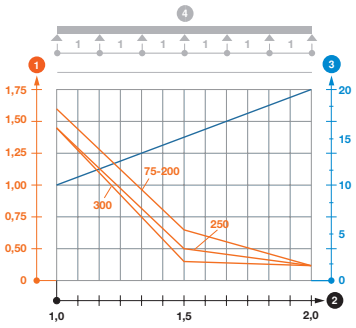
| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SL 42 075 A2 | 2000 | 81 | 25 | 3 |
| SL 42 100 A2 | 2000 | 106 | 25 | 3 |
| SL 42 150 A2 | 2000 | 156 | 25 | 3 |
| SL 42 200 A2 | 2000 | 206 | 25 | 3 |
| SL 42 250 A2 | 2000 | 256 | 25 | 3 |
| SL 42 300 A2 | 2000 | 306 | 25 | 3 |

**Dimensions**




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m |
|---|---|---|---|
| **SL 42 075 A2** | 1.6 | 0.65 | 0.25 |
| **SL 42 100 A2** | 1.6 | 0.65 | 0.25 |
| **SL 42 150 A2** | 1.6 | 0.65 | 0.25 |
| **SL 42 200 A2** | 1.6 | 0.65 | 0.25 |
| **SL 42 250 A2** | 1.45 | 0.65 | 0.25 |
| **SL 42 300 A2** | 1.45 | 0.65 | 0.25 |

**Load**

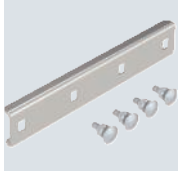


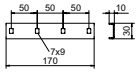

**Load diagram, SL42 cable ladder**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

## Connector 25

Alu A4 2B





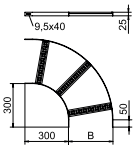

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **SLV 42 A4** | 20 | 11.300 | **7103560** |
| **SLV 42 ALU** | 20 | 4.951 | **7103552** |

Straight connector to connect cable ladders and fittings with a side height of 25 mm.

A2 2B

## 90° bend with trapezoidal rung, 25

| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLB 90 42 075 A2** | 75 | 3 | 1 | 71.600 | **7098654** |
| **SLB 90 42 100 A2** | 100 | 3 | 1 | 76.400 | **7098656** |
| **SLB 90 42 150 A2** | 150 | 3 | 1 | 85.800 | **7098658** |
| **SLB 90 42 200 A2** | 200 | 3 | 1 | 95.400 | **7098660** |
| **SLB 90 42 250 A2** | 250 | 3 | 1 | 105.000 | **7098662** |
| **SLB 90 42 300 A2** | 300 | 3 | 1 | 114.300 | **7098664** |






Connectors should be ordered separately and in the appropriate quantity.

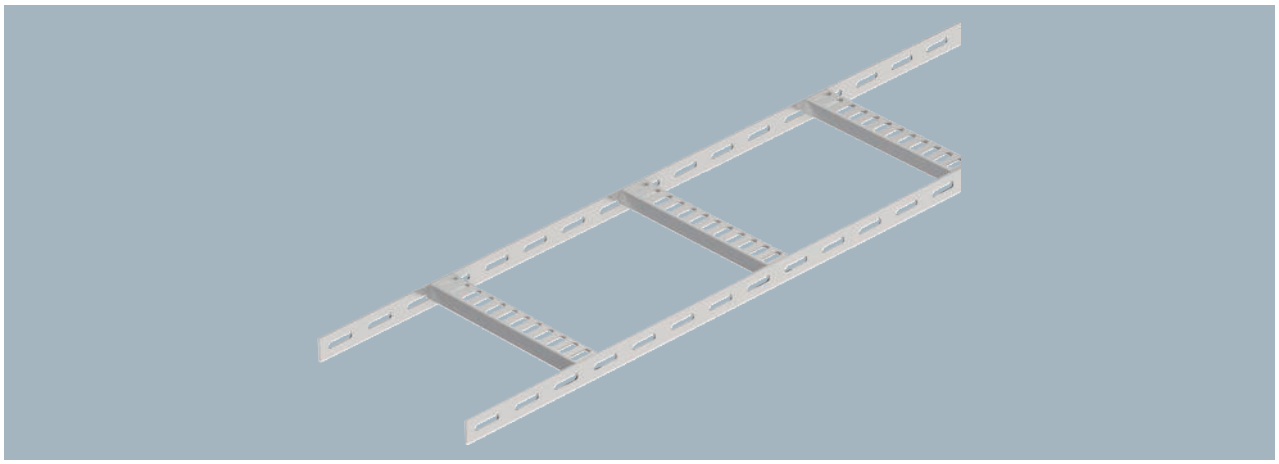
90° bend for shipbuilding cable ladders, type SL 42, with a side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Cable ladder with trapezoidal rung, 25

A4 2B

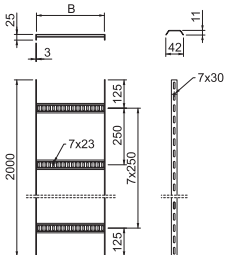


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SL 42 075 A4** | 75 | 2 | 110.850 | **7099702** |
| **SL 42 100 A4** | 100 | 2 | 114.500 | **7099704** |
| **SL 42 150 A4** | 150 | 2 | 120.900 | **7099706** |
| **SL 42 200 A4** | 200 | 2 | 127.600 | **7099708** |
| **SL 42 250 A4** | 250 | 2 | 134.300 | **7099710** |
| **SL 42 300 A4** | 300 | 2 | 140.800 | **7099712** |

Shipbuilding cable ladder with perforated side rail of side height 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV.

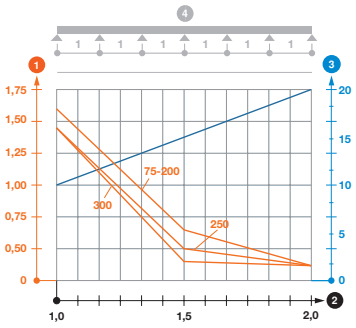
| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SL 42 075 A4 | 2000 | 81 | 25 | 3 |
| SL 42 100 A4 | 2000 | 106 | 25 | 3 |
| SL 42 150 A4 | 2000 | 156 | 25 | 3 |
| SL 42 200 A4 | 2000 | 206 | 25 | 3 |
| SL 42 250 A4 | 2000 | 256 | 25 | 3 |
| SL 42 300 A4 | 2000 | 306 | 25 | 3 |

**Dimensions**




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m |
|---|---|---|---|
| **SL 42 075 A4** | 1.6 | 0.65 | 0.25 |
| **SL 42 100 A4** | 1.6 | 0.65 | 0.25 |
| **SL 42 150 A4** | 1.6 | 0.65 | 0.25 |
| **SL 42 200 A4** | 1.6 | 0.65 | 0.25 |
| **SL 42 250 A4** | 1.45 | 0.65 | 0.25 |
| **SL 42 300 A4** | 1.45 | 0.65 | 0.25 |

**Load**

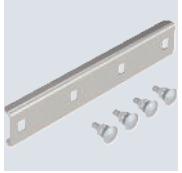


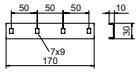

**Load diagram, SL42 cable ladder**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

## Connector 25

A4 2B





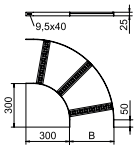

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **SLV 42 A4** | 20 | 11.300 | **7103560** |

Straight connector to connect cable ladders and fittings with a side height of 25 mm.

A4 2B

## 90° bend with trapezoidal rung, 25

| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLB 90 42 075 A4** | 75 | 3 | 1 | 71.600 | **7098670** |
| **SLB 90 42 100 A4** | 100 | 3 | 1 | 77.000 | **7098672** |
| **SLB 90 42 150 A4** | 150 | 3 | 1 | 87.000 | **7098674** |
| **SLB 90 42 200 A4** | 200 | 3 | 1 | 97.000 | **7098676** |
| **SLB 90 42 250 A4** | 250 | 3 | 1 | 107.000 | **7098678** |
| **SLB 90 42 300 A4** | 300 | 3 | 1 | 117.000 | **7098680** |






Connectors should be ordered separately and in the appropriate quantity.

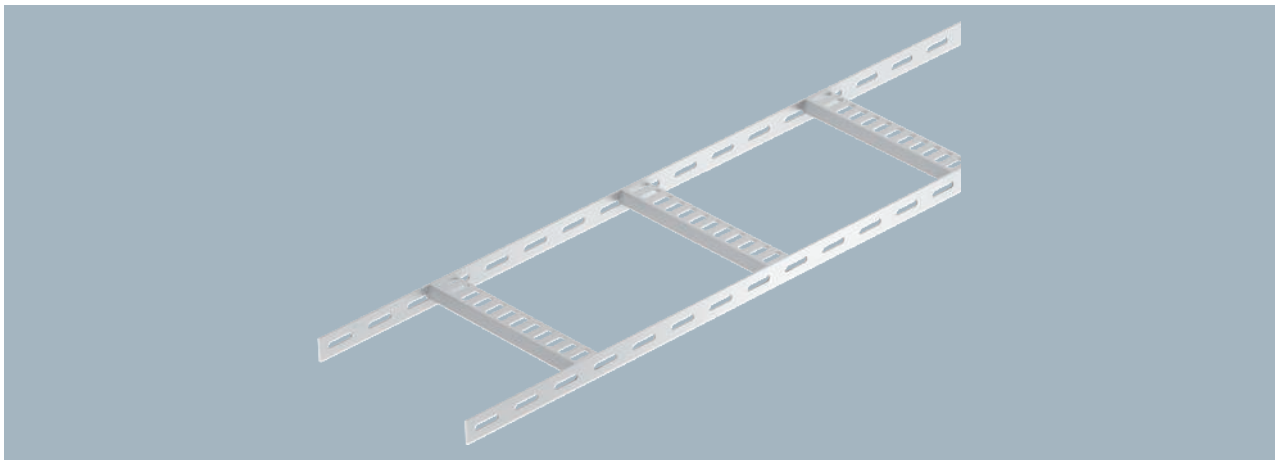
90° bend for shipbuilding cable ladders, type SL 42, with a side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



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## Cable ladder with trapezoidal rung, 25

Alu GB

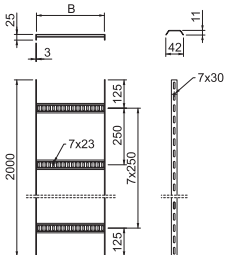


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SL 42 075 ALU** | 75 | 2 | 41.000 | **7099722** |
| **SL 42 100 ALU** | 100 | 2 | 43.000 | **7099724** |
| **SL 42 150 ALU** | 150 | 2 | 47.500 | **7099726** |
| **SL 42 200 ALU** | 200 | 2 | 52.500 | **7099728** |
| **SL 42 250 ALU** | 250 | 2 | 57.000 | **7099730** |
| **SL 42 300 ALU** | 300 | 2 | 61.500 | **7099732** |

Shipbuilding cable ladder with perforated side rail of side height 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

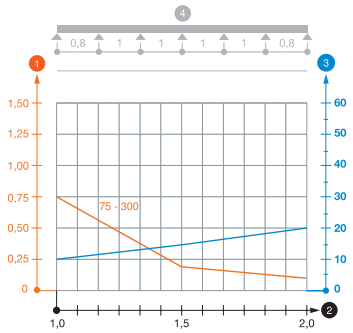
| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SL 42 075 ALU | 2000 | 81 | 25 | 3 |
| SL 42 100 ALU | 2000 | 106 | 25 | 3 |
| SL 42 150 ALU | 2000 | 156 | 25 | 3 |
| SL 42 200 ALU | 2000 | 206 | 25 | 3 |
| SL 42 250 ALU | 2000 | 256 | 25 | 3 |
| SL 42 300 ALU | 2000 | 306 | 25 | 3 |

### Dimensions




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m |
|---|---|---|---|
| **SL 42 075 ALU** | 0.75 | 0.2 | 0.1 |
| **SL 42 100 ALU** | 0.75 | 0.2 | 0.1 |
| **SL 42 150 ALU** | 0.75 | 0.2 | 0.1 |
| **SL 42 200 ALU** | 0.75 | 0.2 | 0.1 |
| **SL 42 250 ALU** | 0.75 | 0.2 | 0.1 |
| **SL 42 300 ALU** | 0.75 | 0.2 | 0.1 |

### Load



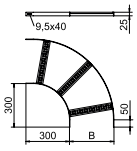

**Load diagram, SL42 cable ladder**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

Alu GB

## 90° bend with trapezoidal rung, 25

| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLB 90 42 075ALU** | 75 | 3 | 1 | 27.000 | **7098684** |
| **SLB 90 42 100ALU** | 100 | 3 | 1 | 29.500 | **7098686** |
| **SLB 90 42 150ALU** | 150 | 3 | 1 | 34.500 | **7098688** |
| **SLB 90 42 200ALU** | 200 | 3 | 1 | 39.500 | **7098690** |
| **SLB 90 42 250ALU** | 250 | 3 | 1 | 44.500 | **7098692** |
| **SLB 90 42 300ALU** | 300 | 3 | 1 | 49.500 | **7098694** |





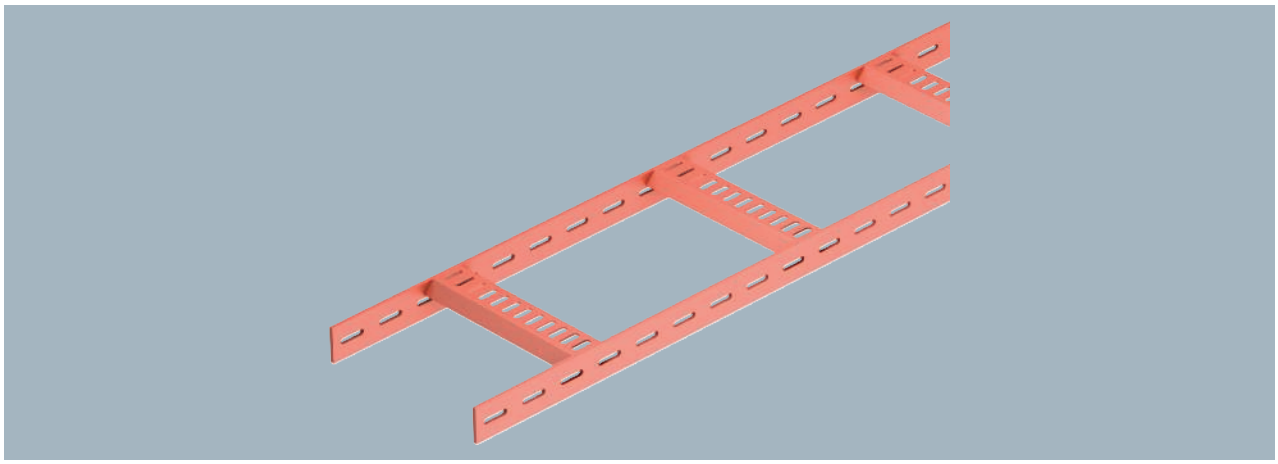

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SL 42, with a side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



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## Cable ladder with trapezoidal rung, 40

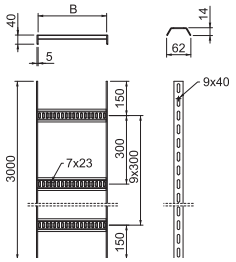


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SL 62 100 SG** | 100 | 3 | 299.000 | **7097212** |
| **SL 62 200 SG** | 200 | 3 | 332.340 | **7097239** |
| **SL 62 300 SG** | 300 | 3 | 365.670 | **7097247** |
| **SL 62 400 SG** | 400 | 3 | 398.670 | **7097255** |
| **SL 62 500 SG** | 500 | 3 | 432.000 | **7097263** |
| **SL 62 600 SG** | 600 | 3 | 465.340 | **7097271** |

Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV. Welding primer type SIGMA-WELD 199.

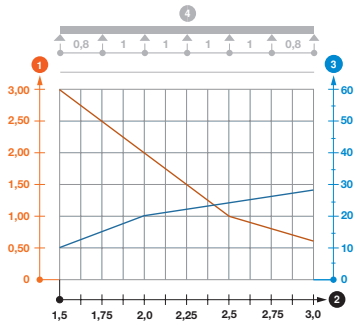
| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SL 62 100 SG | 3000 | 110 | 40 | 5 |
| SL 62 200 SG | 3000 | 210 | 40 | 5 |
| SL 62 300 SG | 3000 | 310 | 40 | 5 |
| SL 62 400 SG | 3000 | 410 | 40 | 5 |
| SL 62 500 SG | 3000 | 510 | 40 | 5 |
| SL 62 600 SG | 3000 | 610 | 40 | 5 |

### Dimensions




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SL 62 100 SG** | 3 | 2 | 1 | 0.6 |
| **SL 62 200 SG** | 3 | 2 | 1 | 0.6 |
| **SL 62 300 SG** | 3 | 2 | 1 | 0.6 |
| **SL 62 400 SG** | 3 | 2 | 1 | 0.6 |
| **SL 62 500 SG** | 3 | 2 | 1 | 0.6 |
| **SL 62 600 SG** | 3 | 2 | 1 | 0.6 |

### Load



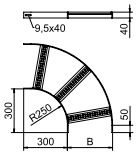

**Load diagram, cable ladder SL62**

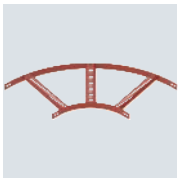
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

St SG

## 90° bend with trapezoidal rung, 40

| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLB 90 62 100 SG** | 100 | 5 | 1 | 204.000 | **7098707** |
| **SLB 90 62 200 SG** | 200 | 5 | 1 | 258.400 | **7098723** |
| **SLB 90 62 300 SG** | 300 | 5 | 1 | 311.000 | **7098731** |
| **SLB 90 62 400 SG** | 400 | 5 | 1 | 363.000 | **7098758** |
| **SLB 90 62 500 SG** | 500 | 5 | 1 | 421.000 | **7098766** |
| **SLB 90 62 600 SG** | 600 | 5 | 1 | 475.000 | **7098774** |



Connectors should be ordered separately and in the appropriate quantity.

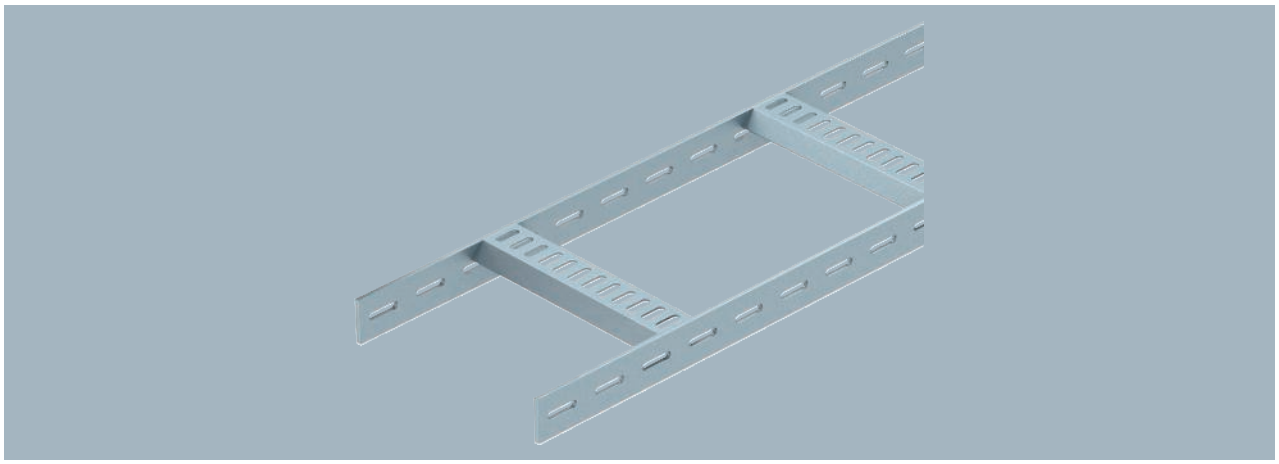
90° bend for shipbuilding cable ladders, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Cable ladder with trapezoidal rung, 40

St FT

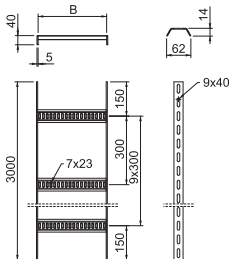


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SL 62 100 FT** | 100 | 3 | 307.300 | **7097409** |
| **SL 62 150 FT** | 150 | 3 | 325.000 | **7097417** |
| **SL 62 200 FT** | 200 | 3 | 342.700 | **7097425** |
| **SL 62 300 FT** | 300 | 3 | 378.000 | **7097433** |
| **SL 62 400 FT** | 400 | 3 | 413.000 | **7097441** |
| **SL 62 500 FT** | 500 | 3 | 448.300 | **7097468** |
| **SL 62 600 FT** | 600 | 3 | 483.700 | **7097476** |

Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV.

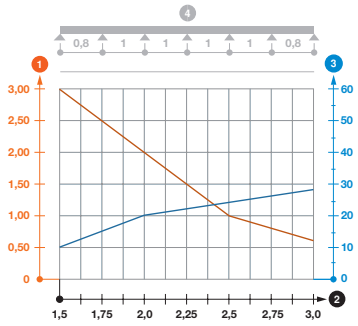
| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SL 62 100 FT | 3000 | 110 | 40 | 5 |
| SL 62 150 FT | 3000 | 160 | 40 | 5 |
| SL 62 200 FT | 3000 | 210 | 40 | 5 |
| SL 62 300 FT | 3000 | 310 | 40 | 5 |
| SL 62 400 FT | 3000 | 410 | 40 | 5 |
| SL 62 500 FT | 3000 | 510 | 40 | 5 |
| SL 62 600 FT | 3000 | 610 | 40 | 5 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SL 62 100 FT** | 3 | 2 | 1 | 0.6 |
| **SL 62 150 FT** | 3 | 2 | 1 | 0.6 |
| **SL 62 200 FT** | 3 | 2 | 1 | 0.6 |
| **SL 62 300 FT** | 3 | 2 | 1 | 0.6 |
| **SL 62 400 FT** | 3 | 2 | 1 | 0.6 |
| **SL 62 500 FT** | 3 | 2 | 1 | 0.6 |
| **SL 62 600 FT** | 3 | 2 | 1 | 0.6 |

**Load**

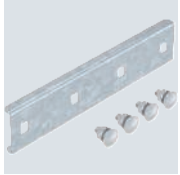


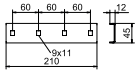

**Load diagram, cable ladder SL62**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

## Connector 40

St FT





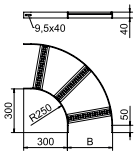

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **SLV 62 FT** | 10 | 14.600 | **7103576** |

Straight connector to connect cable ladders and fittings with a side height of 40 mm.

St FT

## 90° bend with trapezoidal rung, 40

| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLB 90 62 100 FT** | 100 | 5 | 1 | 219.000 | **7098855** |
| **SLB 90 62 200 FT** | 200 | 5 | 1 | 278.000 | **7098871** |
| **SLB 90 62 300 FT** | 300 | 5 | 1 | 336.000 | **7098898** |
| **SLB 90 62 400 FT** | 400 | 5 | 1 | 372.000 | **7098901** |
| **SLB 90 62 500 FT** | 500 | 5 | 1 | 452.000 | **7098928** |
| **SLB 90 62 600 FT** | 600 | 5 | 1 | 511.000 | **7098936** |






Connectors should be ordered separately and in the appropriate quantity.

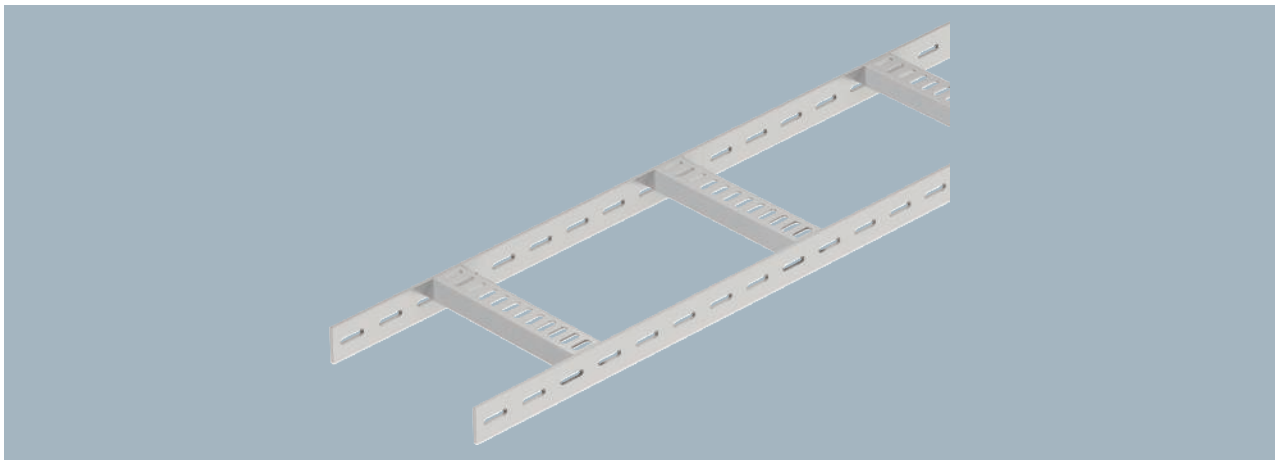
90° bend for shipbuilding cable ladders, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Cable ladder with trapezoidal rung, 40

A2 2B

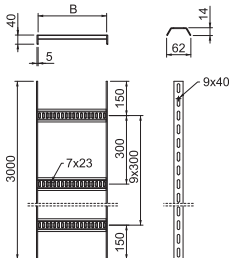


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SL 62 100 A2** | 100 | 3 | 299.000 | **7097094** |
| **SL 62 200 A2** | 200 | 3 | 332.334 | **7097096** |
| **SL 62 300 A2** | 300 | 3 | 365.334 | **7097098** |
| **SL 62 400 A2** | 400 | 3 | 398.667 | **7097100** |
| **SL 62 500 A2** | 500 | 3 | 432.000 | **7097102** |
| **SL 62 600 A2** | 600 | 3 | 465.334 | **7097104** |

Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV.

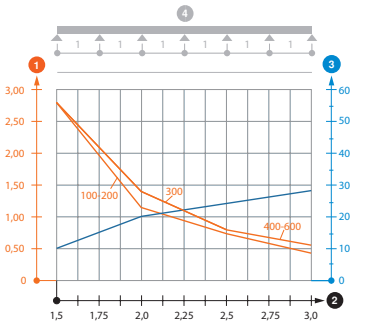
| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SL 62 100 A2 | 3000 | 110 | 40 | 5 |
| SL 62 200 A2 | 3000 | 210 | 40 | 5 |
| SL 62 300 A2 | 3000 | 310 | 40 | 5 |
| SL 62 400 A2 | 3000 | 410 | 40 | 5 |
| SL 62 500 A2 | 3000 | 510 | 40 | 5 |
| SL 62 600 A2 | 3000 | 610 | 40 | 5 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SL 62 100 A2** | 2.8 | 1.2 | 0.8 | 0.45 |
| **SL 62 200 A2** | 2.8 | 1.2 | 0.8 | 0.45 |
| **SL 62 300 A2** | 2.8 | 1.2 | 0.8 | 0.45 |
| **SL 62 400 A2** | 2.8 | 1.4 | 0.8 | 0.55 |
| **SL 62 500 A2** | 2.8 | 1.4 | 0.8 | 0.55 |
| **SL 62 600 A2** | 2.8 | 1.4 | 0.8 | 0.55 |

**Load**



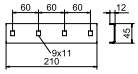

**Load diagram, cable ladder SL62**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

## Connector 40

A4





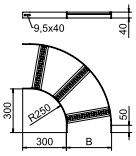

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **SLV 62 A4** | 10 | 14.600 | **7103594** |

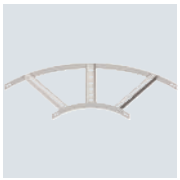
Straight connector to connect cable ladders and fittings with a side height of 40 mm.

A2 2B

## 90° bend with trapezoidal rung, 40

| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLB 90 62 100 A2** | 100 | 5 | 1 | 206.800 | **7099150** |
| **SLB 90 62 200 A2** | 200 | 5 | 1 | 261.700 | **7099152** |
| **SLB 90 62 300 A2** | 300 | 5 | 1 | 316.700 | **7099154** |
| **SLB 90 62 400 A2** | 400 | 5 | 1 | 371.600 | **7099156** |
| **SLB 90 62 500 A2** | 500 | 5 | 1 | 426.500 | **7099158** |
| **SLB 90 62 600 A2** | 600 | 5 | 1 | 481.400 | **7099160** |



Connectors should be ordered separately and in the appropriate quantity.

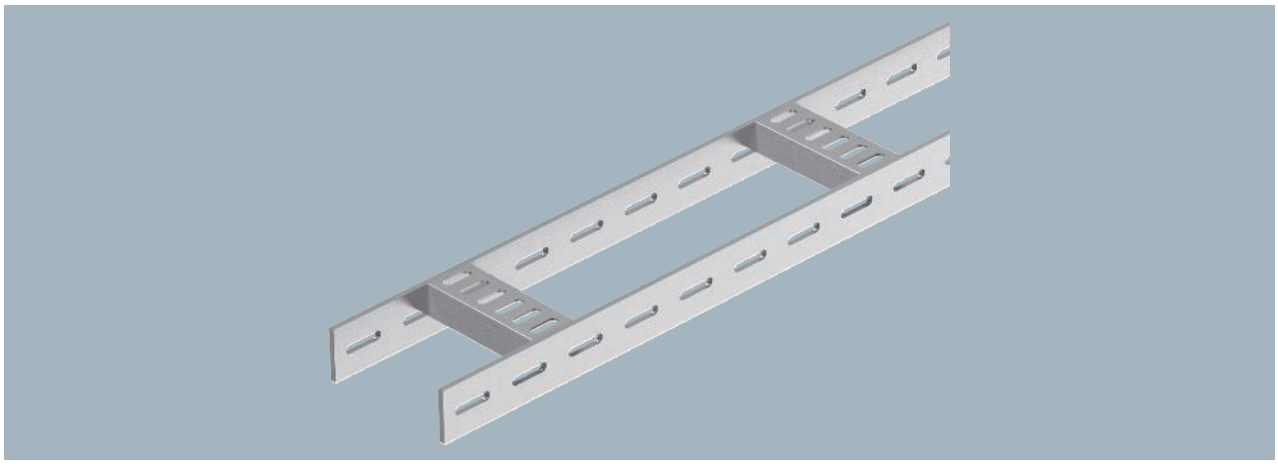
90° bend for shipbuilding cable ladders, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



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## Cable ladder with trapezoidal rung, 40

A4 2B

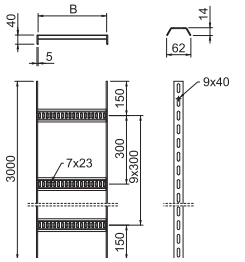


| Type | Width mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SL 62 100 A4** | 100 | | 3 | 299.000 | **7097358** |
| **SL 62 200 A4** | 200 | | 3 | 332.334 | **7097360** |
| **SL 62 300 A4** | 300 | | 3 | 365.334 | **7097362** |
| **SL 62 400 A4** | 400 | | 3 | 398.667 | **7097364** |
| **SL 62 500 A4** | 500 | | 3 | 432.000 | **7097366** |
| **SL 62 600 A4** | 600 | | 3 | 465.334 | **7097368** |

Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV.

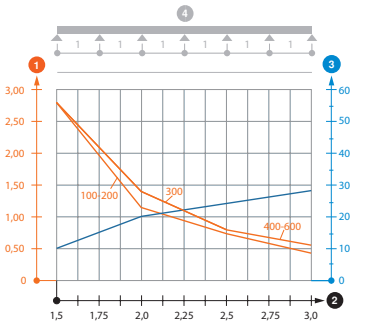
| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SL 62 100 A4 | 3000 | 110 | 40 | 5 |
| SL 62 200 A4 | 3000 | 210 | 40 | 5 |
| SL 62 300 A4 | 3000 | 310 | 40 | 5 |
| SL 62 400 A4 | 3000 | 410 | 40 | 5 |
| SL 62 500 A4 | 3000 | 510 | 40 | 5 |
| SL 62 600 A4 | 3000 | 610 | 40 | 5 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SL 62 100 A4** | 2.8 | 1.2 | 0.8 | 0.45 |
| **SL 62 200 A4** | 2.8 | 1.2 | 0.8 | 0.45 |
| **SL 62 300 A4** | 2.8 | 1.2 | 0.8 | 0.45 |
| **SL 62 400 A4** | 2.8 | 1.4 | 0.8 | 0.55 |
| **SL 62 500 A4** | 2.8 | 1.4 | 0.8 | 0.55 |
| **SL 62 600 A4** | 2.8 | 1.4 | 0.8 | 0.55 |

**Load**



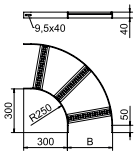

**Load diagram, cable ladder SL62**

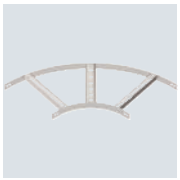
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

A4 2B

## 90° bend with trapezoidal rung, 40

| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLB 90 62 100 A4** | 100 | 5 | 1 | 209.000 | **7099168** |
| **SLB 90 62 200 A4** | 200 | 5 | 1 | 265.000 | **7099170** |
| **SLB 90 62 300 A4** | 300 | 5 | 1 | 321.000 | **7099172** |
| **SLB 90 62 400 A4** | 400 | 5 | 1 | 376.000 | **7099174** |
| **SLB 90 62 500 A4** | 500 | 5 | 1 | 432.000 | **7099176** |
| **SLB 90 62 600 A4** | 600 | 5 | 1 | 488.000 | **7099178** |



Connectors should be ordered separately and in the appropriate quantity.

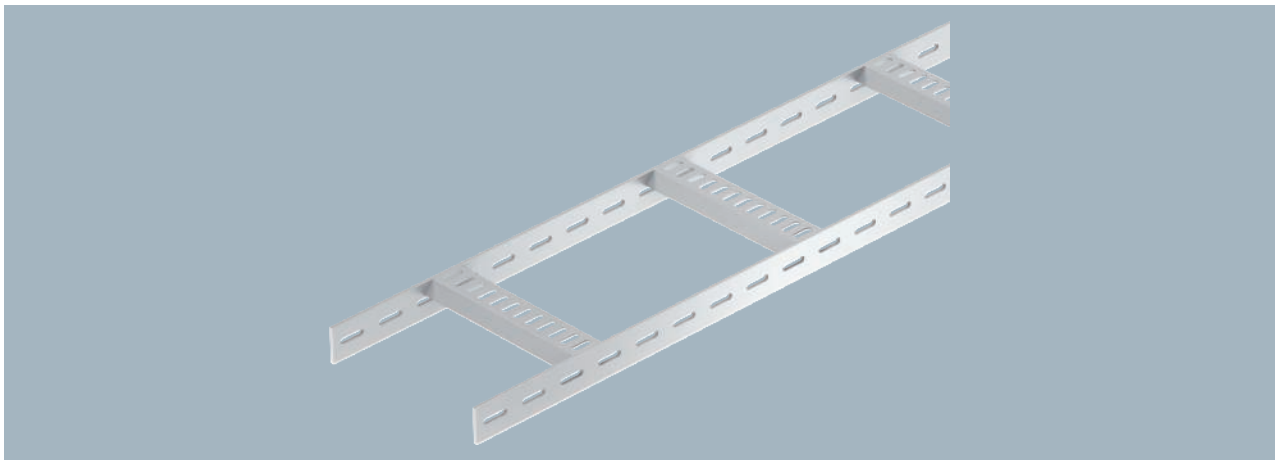
90° bend for shipbuilding cable ladders, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



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## Cable ladder with trapezoidal rung, 40

Alu GB

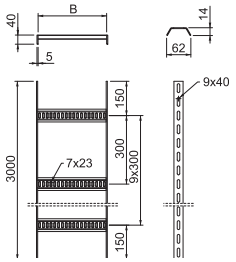


| Type | Width mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SL 62 100 ALU** | 100 | | 3 | 99.800 | **7099752** |
| **SL 62 200 ALU** | 200 | | 3 | 111.067 | **7099754** |
| **SL 62 300 ALU** | 300 | | 3 | 122.300 | **7099756** |
| **SL 62 400 ALU** | 400 | | 3 | 133.567 | **7099758** |
| **SL 62 500 ALU** | 500 | | 3 | 144.833 | **7099760** |
| **SL 62 600 ALU** | 600 | | 3 | 156.100 | **7099762** |

Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

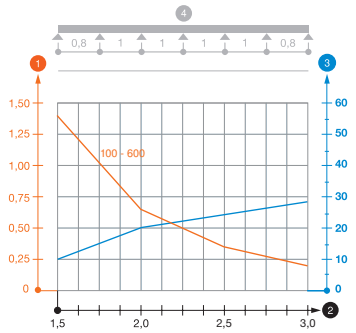
| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SL 62 100 ALU | 3000 | 110 | 40 | 5 |
| SL 62 200 ALU | 3000 | 210 | 40 | 5 |
| SL 62 300 ALU | 3000 | 310 | 40 | 5 |
| SL 62 400 ALU | 3000 | 410 | 40 | 5 |
| SL 62 500 ALU | 3000 | 510 | 40 | 5 |
| SL 62 600 ALU | 3000 | 610 | 40 | 5 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SL 62 100 ALU** | 1.4 | 0.65 | 0.35 | 0.2 |
| **SL 62 200 ALU** | 1.4 | 0.65 | 0.35 | 0.2 |
| **SL 62 300 ALU** | 1.4 | 0.65 | 0.35 | 0.2 |
| **SL 62 400 ALU** | 1.4 | 0.65 | 0.35 | 0.2 |
| **SL 62 500 ALU** | 1.4 | 0.65 | 0.35 | 0.2 |
| **SL 62 600 ALU** | 1.4 | 0.65 | 0.35 | 0.2 |

**Load**




**Load diagram, SL 62 cable ladder**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

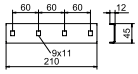
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

## Connector 40

Alu





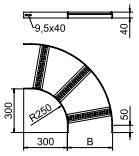

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **SLV 62 ALU** | | 10 | 7.000 | **7103586** |

Straight connector to connect cable ladders and fittings with a side height of 40 mm.

Alu GB

## 90° bend with trapezoidal rung, 40

| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLB 90 62 100ALU** | 100 | 5 | 1 | 69.600 | **7099186** |
| **SLB 90 62 200ALU** | 200 | 5 | 1 | 88.100 | **7099188** |
| **SLB 90 62 300ALU** | 300 | 5 | 1 | 106.600 | **7099190** |
| **SLB 90 62 400ALU** | 400 | 5 | 1 | 125.100 | **7099192** |
| **SLB 90 62 500ALU** | 500 | 5 | 1 | 143.600 | **7099194** |
| **SLB 90 62 600ALU** | 600 | 5 | 1 | 162.100 | **7099196** |






Connectors should be ordered separately and in the appropriate quantity.

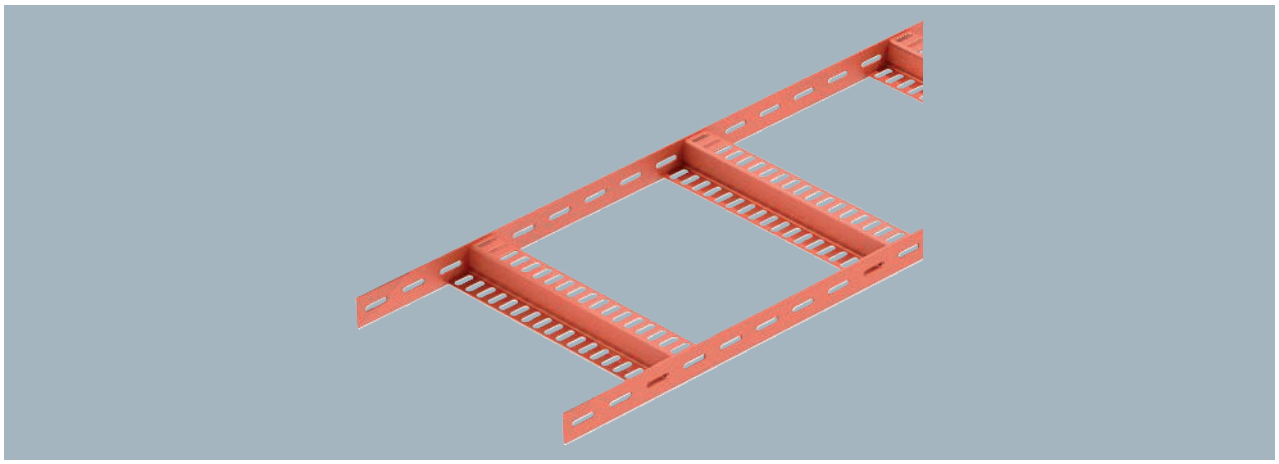
90° bend for shipbuilding cable ladders, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



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# Cable ladder with Z rung, 35

St SG

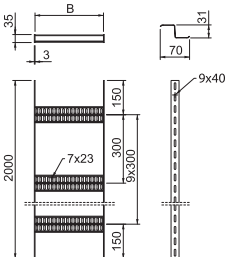


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SLZ L 100 SG** | 100 | 3 | 167.000 | **7098032** |
| **SLZ L 200 SG** | 200 | 3 | 187.667 | **7098036** |
| **SLZ L 300 SG** | 300 | 3 | 208.667 | **7098038** |
| **SLZ L 400 SG** | 400 | 3 | 229.334 | **7098040** |
| **SLZ L 500 SG** | 500 | 3 | 250.000 | **7098042** |
| **SLZ L 600 SG** | 600 | 3 | 270.667 | **7098044** |

Light-duty shipbuilding cable ladder with perforated side rail of side height 35 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV. Welding primer type SIGMA-WELD 199, also available in white.

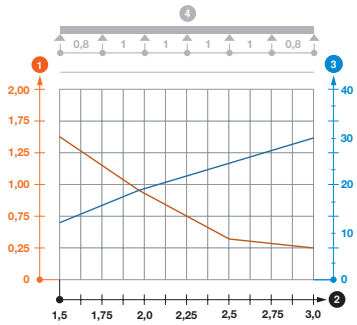
| Type | Length mm | Dim. B mm | Side height mm | Rail thickness mm |
|---|---|---|---|---|
| SLZ L 100 SG | 3000 | 106 | 35 | 3 |
| SLZ L 200 SG | 3000 | 206 | 35 | 3 |
| SLZ L 300 SG | 3000 | 306 | 35 | 3 |
| SLZ L 400 SG | 3000 | 406 | 35 | 3 |
| SLZ L 500 SG | 3000 | 506 | 35 | 3 |
| SLZ L 600 SG | 3000 | 606 | 35 | 3 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SLZ L 100 SG** | 1.5 | 0.85 | 0.35 | 0.25 |
| **SLZ L 200 SG** | 1.5 | 0.85 | 0.35 | 0.25 |
| **SLZ L 300 SG** | 1.5 | 0.85 | 0.35 | 0.25 |
| **SLZ L 400 SG** | 1.5 | 0.85 | 0.35 | 0.25 |
| **SLZ L 500 SG** | 1.5 | 0.85 | 0.35 | 0.25 |
| **SLZ L 600 SG** | 1.5 | 0.85 | 0.35 | 0.25 |

**Load**

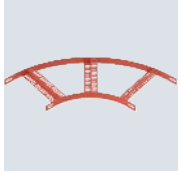


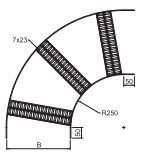

**Load diagram, cable ladder SLZ L**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

# 90° bend with Z rung, 35

St SG



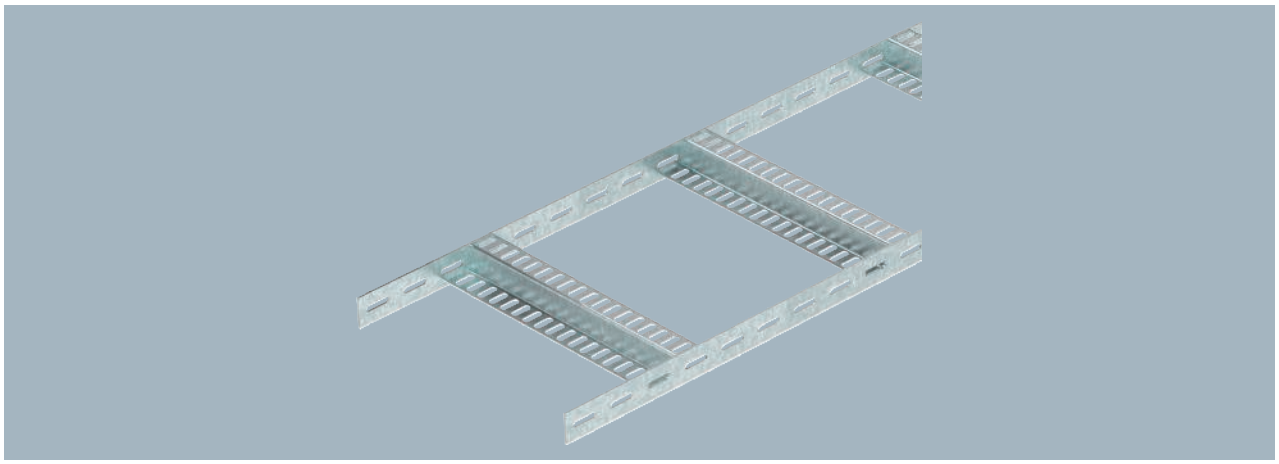



| Type | Width mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLZB L 90 100 SG** | 100 | 3 | 1 | 111.000 | **7099201** |
| **SLZB L 90 200 SG** | 200 | 3 | 1 | 143.000 | **7099203** |
| **SLZB L 90 300 SG** | 300 | 3 | 1 | 174.000 | **7099205** |
| **SLZB L 90 400 SG** | 400 | 3 | 1 | 206.000 | **7099208** |
| **SLZB L 90 500 SG** | 500 | 3 | 1 | 237.000 | **7099210** |
| **SLZB L 90 600 SG** | 600 | 3 | 1 | 269.000 | **7099212** |

Connectors should be ordered separately and in the appropriate quantity.
90° bend for shipbuilding cable ladders, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.

St FT

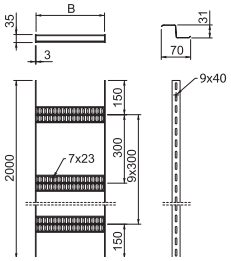
## Cable ladder with Z rung, 35



Light-duty shipbuilding cable ladder with perforated side rail of side height 35 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV.

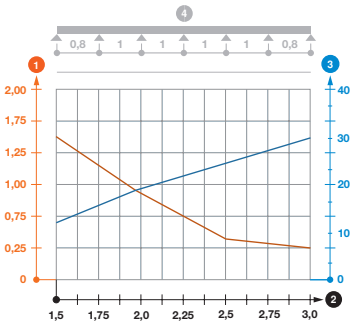
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SLZ L 100 FT** | 100 | 3 | 175.334 | **7098002** |
| **SLZ L 200 FT** | 200 | 3 | 198.334 | **7098006** |
| **SLZ L 300 FT** | 300 | 3 | 221.667 | **7098008** |
| **SLZ L 400 FT** | 400 | 3 | 245.000 | **7098010** |
| **SLZ L 500 FT** | 500 | 3 | 268.334 | **7098012** |
| **SLZ L 600 FT** | 600 | 3 | 291.667 | **7098014** |

### Dimensions




| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SLZ L 100 FT | 3000 | 106 | 35 | 3 |
| SLZ L 200 FT | 3000 | 206 | 35 | 3 |
| SLZ L 300 FT | 3000 | 306 | 35 | 3 |
| SLZ L 400 FT | 3000 | 406 | 35 | 3 |
| SLZ L 500 FT | 3000 | 506 | 35 | 3 |
| SLZ L 600 FT | 3000 | 606 | 35 | 3 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SLZ L 100 FT** | 1.5 | 0.85 | 0.35 | 0.25 |
| **SLZ L 200 FT** | 1.5 | 0.85 | 0.35 | 0.25 |
| **SLZ L 300 FT** | 1.5 | 0.85 | 0.35 | 0.25 |
| **SLZ L 400 FT** | 1.5 | 0.85 | 0.35 | 0.25 |
| **SLZ L 500 FT** | 1.5 | 0.85 | 0.35 | 0.25 |
| **SLZ L 600 FT** | 1.5 | 0.85 | 0.35 | 0.25 |

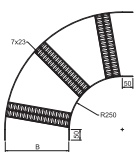
**Load diagram, cable ladder SLZ L**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

St FT

## 90° bend with Z rung, 35

| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLZB L 90 100 FT** | 100 | 3 | 1 | 119.400 | **7099221** |
| **SLZB L 90 200 FT** | 200 | 3 | 1 | 153.300 | **7099224** |
| **SLZB L 90 300 FT** | 300 | 3 | 1 | 187.200 | **7099226** |
| **SLZB L 90 400 FT** | 400 | 3 | 1 | 221.000 | **7099228** |
| **SLZB L 90 500 FT** | 500 | 3 | 1 | 254.900 | **7099230** |
| **SLZB L 90 600 FT** | 600 | 3 | 1 | 288.800 | **7099232** |






Connectors should be ordered separately and in the appropriate quantity.

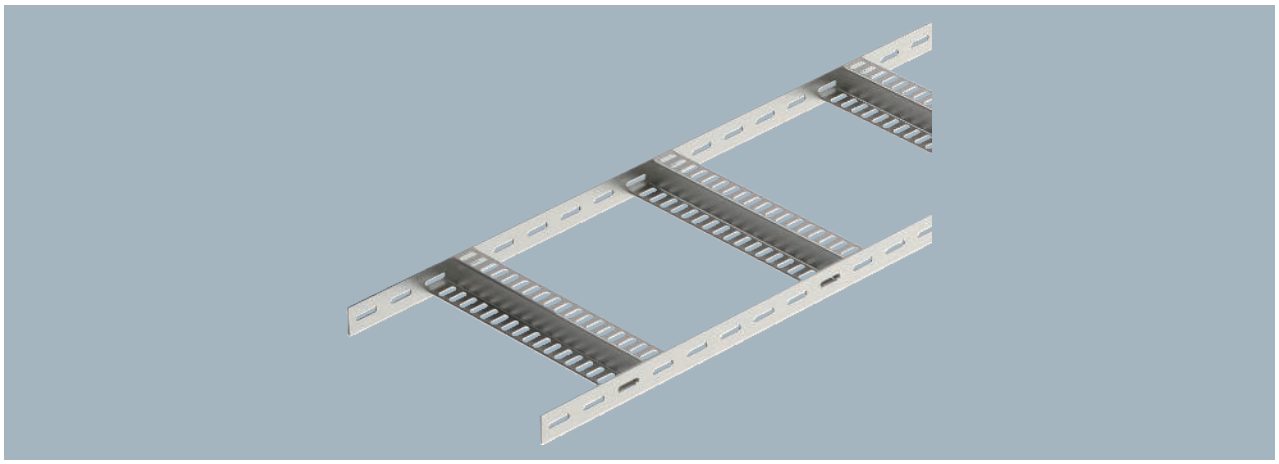
90° bend for shipbuilding cable ladders, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.



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## Cable ladder with Z rung, 35

A2 2B

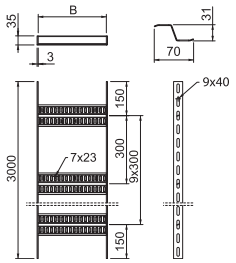


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SLZ L 100 A2** | 100 | 3 | 167.000 | **7098062** |
| **SLZ L 200 A2** | 200 | 3 | 187.667 | **7098066** |
| **SLZ L 300 A2** | 300 | 3 | 208.667 | **7098068** |
| **SLZ L 400 A2** | 400 | 3 | 229.167 | **7098070** |
| **SLZ L 500 A2** | 500 | 3 | 250.000 | **7098072** |
| **SLZ L 600 A2** | 600 | 3 | 270.667 | **7098074** |

Light-duty shipbuilding cable ladder with perforated side rail of side height 35 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV.

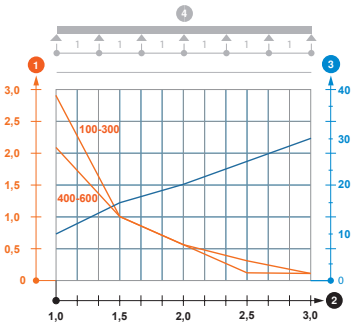
| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SLZ L 100 A2 | 3000 | 106 | 35 | 3 |
| SLZ L 200 A2 | 3000 | 206 | 35 | 3 |
| SLZ L 300 A2 | 3000 | 306 | 35 | 3 |
| SLZ L 400 A2 | 3000 | 406 | 35 | 3 |
| SLZ L 500 A2 | 3000 | 506 | 35 | 3 |
| SLZ L 600 A2 | 3000 | 606 | 35 | 3 |

### Dimensions




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|---|
| **SLZ L 100 A2** | 2.8 | 1 | 0.55 | 0.35 | 0.25 |
| **SLZ L 200 A2** | 2.8 | 1 | 0.55 | 0.35 | 0.25 |
| **SLZ L 300 A2** | 2.8 | 1 | 0.55 | 0.35 | 0.25 |
| **SLZ L 400 A2** | 2.2 | 1 | 0.55 | 0.25 | 0.25 |
| **SLZ L 500 A2** | 2.2 | 1 | 0.55 | 0.25 | 0.25 |
| **SLZ L 600 A2** | 2.2 | 1 | 0.55 | 0.25 | 0.25 |

### Load

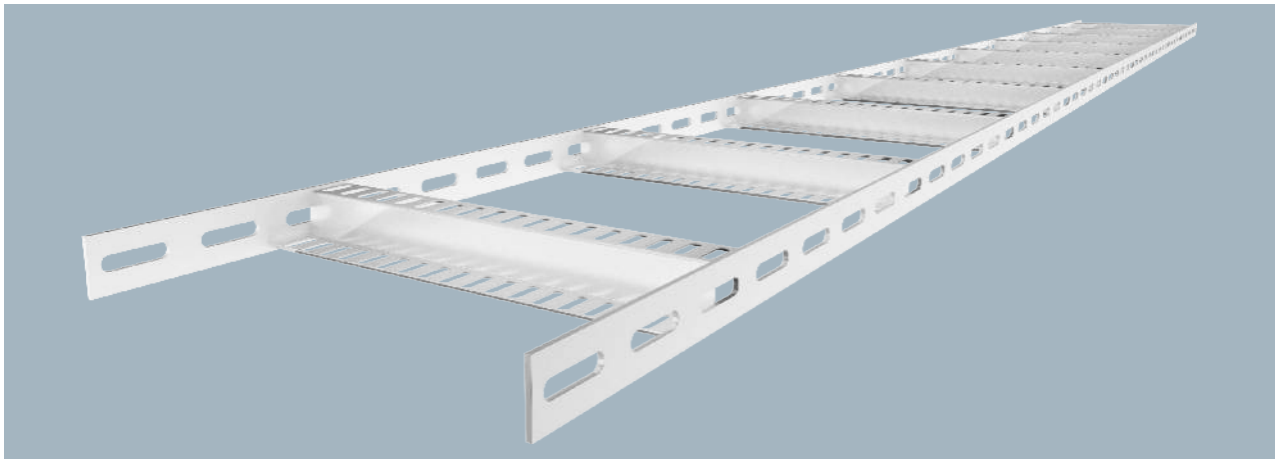



### Load diagram, SLZ L cable ladder

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

St

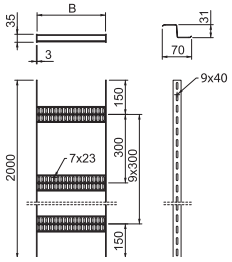
## Cable ladder with Z rung, light-duty FTK, Traffic white



Marine cable ladder with perforated side rail of side height 35 mm with welded, perforated Z-rungs.

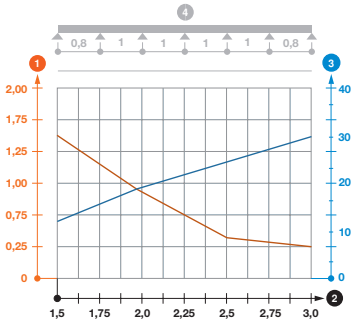
| Type | Width mm | Colour | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SLZL 100MW FTKVW** | 100 | Traffic white | 3 | 166.600 | **7098300** |
| **SLZL 200MW FTKVW** | 200 | Traffic white | 3 | 189.600 | **7098302** |

### Dimensions




| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SLZL 100MW FTKVW | 3000 | 106 | 35 | 3 |
| SLZL 200MW FTKVW | 3000 | 206 | 35 | 3 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SLZL 100MW FTKVW** | 1.5 | 0.85 | 0.35 | 0.25 |
| **SLZL 200MW FTKVW** | 1.5 | 0.85 | 0.35 | 0.25 |

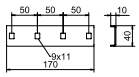
**Load diagram, SLZ L cable ladder**

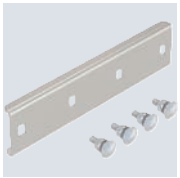
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

A4

## Connector 35

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **SLV 52 A4** | 10 | 14.000 | **7103592** |



Straight connector to connect cable ladders and fittings with a side height of 35 mm.

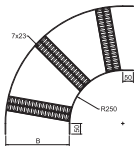


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A2 2B

## 90° bend, 35



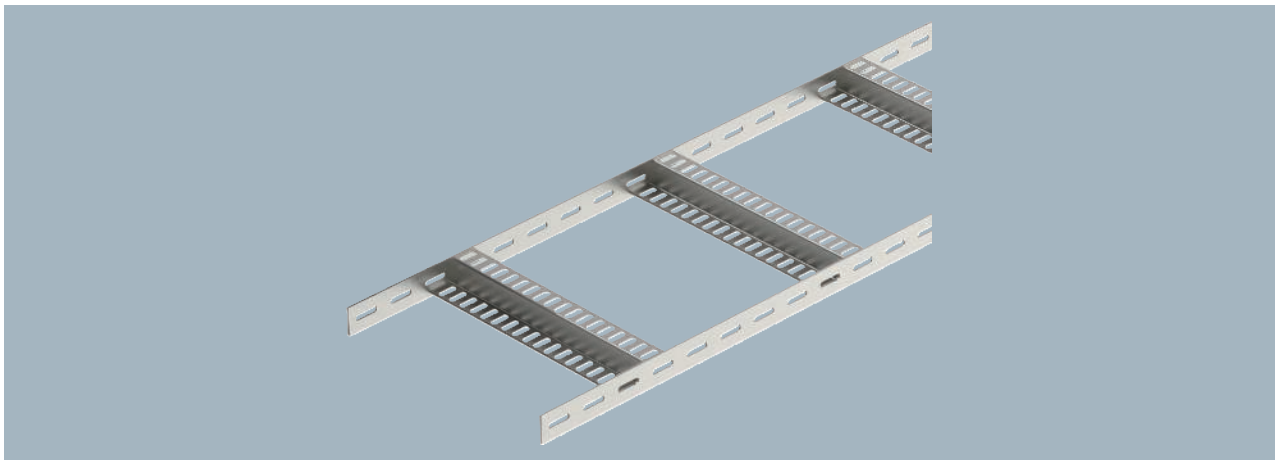



| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLZB L 90 100 A2** | 100 | 3 | 1 | 113.000 | **7099241** |
| **SLZB L 90 200 A2** | 200 | 3 | 1 | 145.000 | **7099243** |
| **SLZB L 90 300 A2** | 300 | 3 | 1 | 176.000 | **7099245** |
| **SLZB L 90 400 A2** | 400 | 3 | 1 | 208.000 | **7099247** |
| **SLZB L 90 500 A2** | 500 | 3 | 1 | 240.000 | **7099249** |
| **SLZB L 90 600 A2** | 600 | 3 | 1 | 272.000 | **7099251** |

Connectors should be ordered separately and in the appropriate quantity.
90° bend for shipbuilding cable ladders, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.

A4 2B

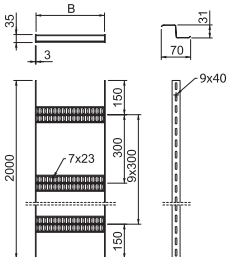
## Cable ladder with Z rung, 35



Light-duty shipbuilding cable ladder with perforated side rail of side height 35 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV.

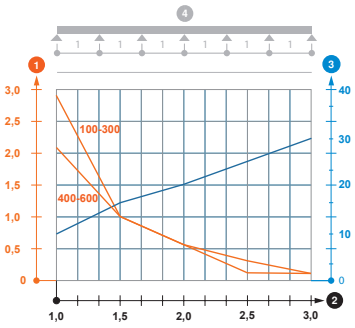
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SLZ L 100 A4** | 100 | 3 | 167.000 | **7098082** |
| **SLZ L 200 A4** | 200 | 3 | 187.667 | **7098086** |
| **SLZ L 300 A4** | 300 | 3 | 208.667 | **7098088** |
| **SLZ L 400 A4** | 400 | 3 | 229.334 | **7098090** |
| **SLZ L 500 A4** | 500 | 3 | 250.000 | **7098092** |
| **SLZ L 600 A4** | 600 | 3 | 270.667 | **7098094** |

### Dimensions




| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SLZ L 100 A4 | 3000 | 106 | 35 | 3 |
| SLZ L 200 A4 | 3000 | 206 | 35 | 3 |
| SLZ L 300 A4 | 3000 | 306 | 35 | 3 |
| SLZ L 400 A4 | 3000 | 406 | 35 | 3 |
| SLZ L 500 A4 | 3000 | 506 | 35 | 3 |
| SLZ L 600 A4 | 3000 | 606 | 35 | 3 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|---|
| **SLZ L 100 A4** | 2.8 | 1 | 0.55 | 0.35 | 0.25 |
| **SLZ L 200 A4** | 2.8 | 1 | 0.55 | 0.35 | 0.25 |
| **SLZ L 300 A4** | 2.8 | 1 | 0.55 | 0.35 | 0.25 |
| **SLZ L 400 A4** | 2.2 | 1 | 0.55 | 0.25 | 0.25 |
| **SLZ L 500 A4** | 2.2 | 1 | 0.55 | 0.25 | 0.25 |
| **SLZ L 600 A4** | 2.2 | 1 | 0.55 | 0.25 | 0.25 |

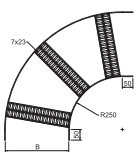
**Load diagram, SLZ L cable ladder**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

A4 2B

## 90° bend with Z rung, 35

| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLZB L 90 100 A4** | 100 | 3 | 1 | 114.000 | **7099261** |
| **SLZB L 90 200 A4** | 200 | 3 | 1 | 146.400 | **7099263** |
| **SLZB L 90 300 A4** | 300 | 3 | 1 | 178.700 | **7099265** |
| **SLZB L 90 400 A4** | 400 | 3 | 1 | 211.000 | **7099268** |
| **SLZB L 90 500 A4** | 500 | 3 | 1 | 243.400 | **7099270** |
| **SLZB L 90 600 A4** | 600 | 3 | 1 | 275.700 | **7099272** |






Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.

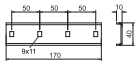
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# Cable ladder systems

## Straight connector

St FT






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| SLV 52 FT | 10 | 14.700 | 7103532 |

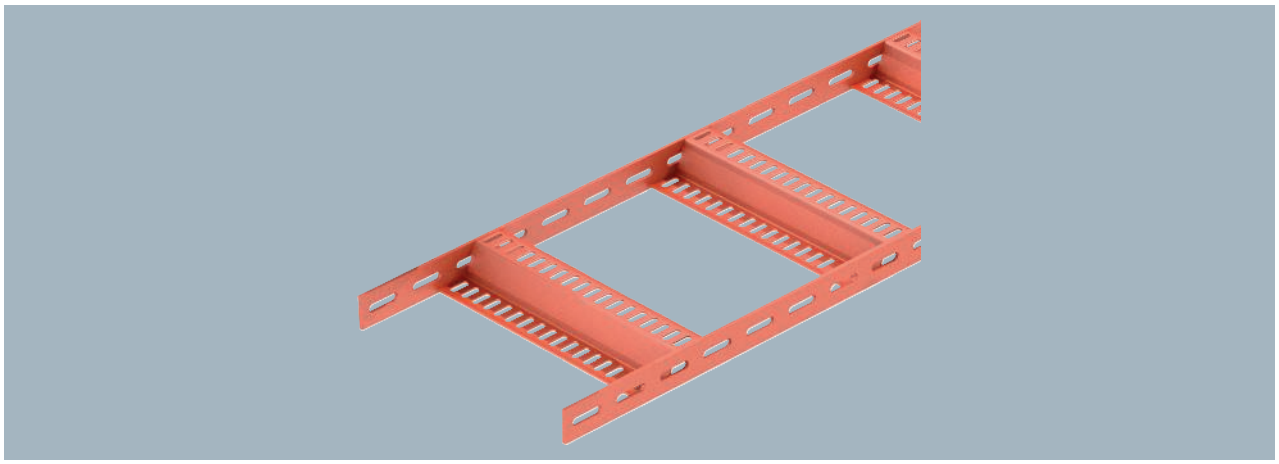
The bolt fastening ensures the continuity of the equipotential bonding.

Cable ladder systems

# Cable ladder systems

## Cable ladder with Z rung, 40

St SG

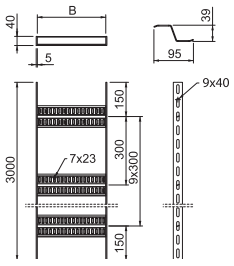


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| SLZ 100 SG | 100 | 3 | 319.000 | 7098162 |
| SLZ 200 SG | 200 | 3 | 372.334 | 7098164 |
| SLZ 300 SG | 300 | 3 | 425.667 | 7098166 |
| SLZ 400 SG | 400 | 3 | 479.000 | 7098168 |
| SLZ 500 SG | 500 | 3 | 532.333 | 7098170 |
| SLZ 600 SG | 600 | 3 | 585.667 | 7098172 |

Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV. Welding primer type SIGMA-WELD 199, also available in white.

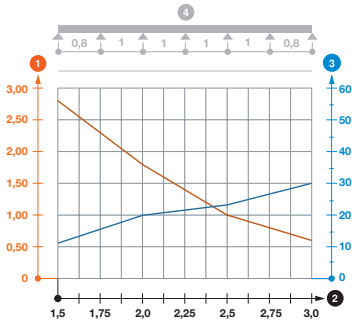
| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SLZ 100 SG | 3000 | 110 | 40 | 5 |
| SLZ 200 SG | 3000 | 210 | 40 | 5 |
| SLZ 300 SG | 3000 | 310 | 40 | 5 |
| SLZ 400 SG | 3000 | 410 | 40 | 5 |
| SLZ 500 SG | 3000 | 510 | 40 | 5 |
| SLZ 600 SG | 3000 | 610 | 40 | 5 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| SLZ 100 SG | 2.8 | 1.75 | 1 | 0.6 |
| SLZ 200 SG | 2.8 | 1.75 | 1 | 0.6 |
| SLZ 300 SG | 2.8 | 1.75 | 1 | 0.6 |
| SLZ 400 SG | 2.8 | 1.75 | 1 | 0.6 |
| SLZ 500 SG | 2.8 | 1.75 | 1 | 0.6 |
| SLZ 600 SG | 2.8 | 1.75 | 1 | 0.6 |

**Load**



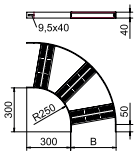

**Load diagram, cable ladder SLZ**

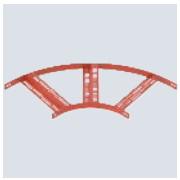
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

St SG

## 90° bend with Z rung, 40

| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLZB 90 100 SG** | 100 | 5 | 1 | 222.200 | **7098976** |
| **SLZB 90 200 SG** | 200 | 5 | 1 | 295.100 | **7098978** |
| **SLZB 90 300 SG** | 300 | 5 | 1 | 338.600 | **7098980** |
| **SLZB 90 400 SG** | 400 | 5 | 1 | 441.300 | **7098982** |
| **SLZB 90 500 SG** | 500 | 5 | 1 | 514.000 | **7098984** |
| **SLZB 90 600 SG** | 600 | 5 | 1 | 586.600 | **7098986** |



Connectors should be ordered separately and in the appropriate quantity.

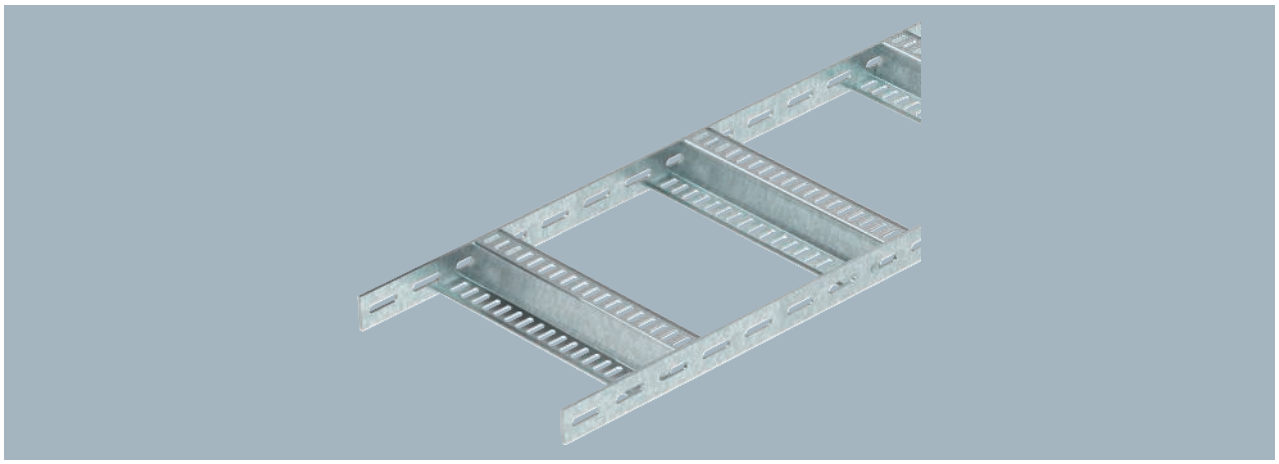
90° bend for shipbuilding cable ladders, type SLZ, with side height of 40 mm with welded, perforated Z rungs.



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# Cable ladder with Z rung, 40

St FT

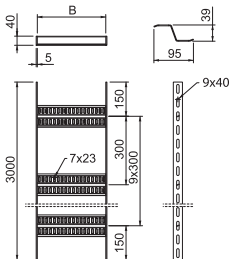


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SLZ 100 FT** | 100 | 3 | 328.667 | **7098132** |
| **SLZ 150 FT** | 150 | 3 | 357.000 | **7098133** |
| **SLZ 200 FT** | 200 | 3 | 385.334 | **7098134** |
| **SLZ 300 FT** | 300 | 3 | 441.667 | **7098136** |
| **SLZ 400 FT** | 400 | 3 | 498.166 | **7098138** |
| **SLZ 500 FT** | 500 | 3 | 554.667 | **7098140** |
| **SLZ 600 FT** | 600 | 3 | 611.333 | **7098142** |

Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV.

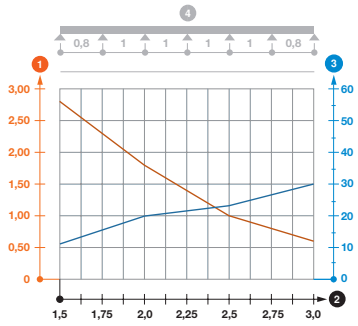
| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SLZ 100 FT | 3000 | 110 | 40 | 5 |
| SLZ 150 FT | 3000 | 160 | 40 | 5 |
| SLZ 200 FT | 3000 | 210 | 40 | 5 |
| SLZ 300 FT | 3000 | 310 | 40 | 5 |
| SLZ 400 FT | 3000 | 410 | 40 | 5 |
| SLZ 500 FT | 3000 | 510 | 40 | 5 |
| SLZ 600 FT | 3000 | 610 | 40 | 5 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SLZ 100 FT** | 2.8 | 1.75 | 1 | 0.6 |
| **SLZ 150 FT** | 2.8 | 1.75 | 1 | 0.6 |
| **SLZ 200 FT** | 2.8 | 1.75 | 1 | 0.6 |
| **SLZ 300 FT** | 2.8 | 1.75 | 1 | 0.6 |
| **SLZ 400 FT** | 2.8 | 1.75 | 1 | 0.6 |
| **SLZ 500 FT** | 2.8 | 1.75 | 1 | 0.6 |
| **SLZ 600 FT** | 2.8 | 1.75 | 1 | 0.6 |

**Load**



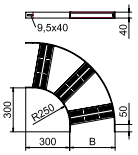

**Load diagram, cable ladder SLZ**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

St FT

## 90° bend with Z rung, 40

| Type | Width mm | Rail thick-ness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **SLZB 90 100 FT** | 100 | 5 | | 1 | 228.900 | **7099000** |
| **SLZB 90 200 FT** | 200 | 5 | | 1 | 306.000 | **7099002** |
| **SLZB 90 300 FT** | 300 | 5 | | 1 | 382.000 | **7099004** |
| **SLZB 90 400 FT** | 400 | 5 | | 1 | 458.000 | **7099006** |
| **SLZB 90 500 FT** | 500 | 5 | | 1 | 533.000 | **7099008** |
| **SLZB 90 600 FT** | 600 | 5 | | 1 | 609.000 | **7099010** |





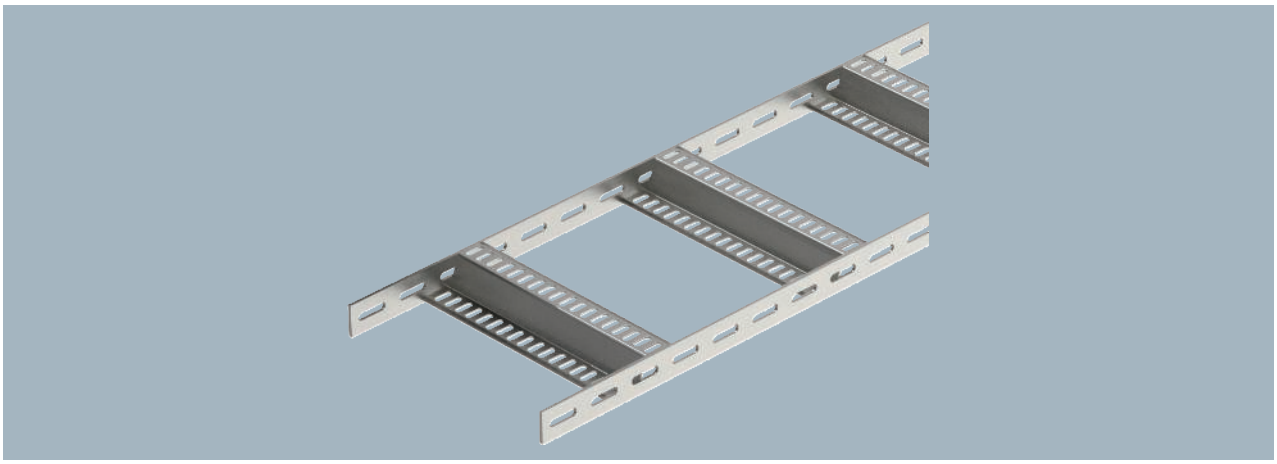

Connectors should be ordered separately and in the appropriate quantity.
90° bend for shipbuilding cable ladders, type SLZ, with side height of 40 mm with welded, perforated Z rungs.



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## Cable ladder with Z rung, 40

A2 2B

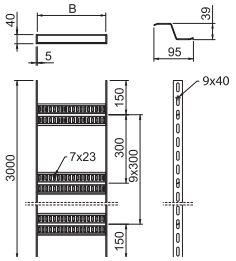


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SLZ 100 A2** | 100 | 3 | 319.000 | **7098192** |
| **SLZ 200 A2** | 200 | 3 | 372.400 | **7098194** |
| **SLZ 300 A2** | 300 | 3 | 425.670 | **7098196** |
| **SLZ 400 A2** | 400 | 3 | 479.000 | **7098198** |
| **SLZ 500 A2** | 500 | 3 | 532.340 | **7098200** |
| **SLZ 600 A2** | 600 | 3 | 585.670 | **7098202** |

Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV.

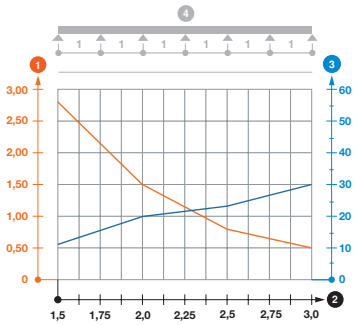
| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SLZ 100 A2 | 3000 | 110 | 40 | 5 |
| SLZ 200 A2 | 3000 | 210 | 40 | 5 |
| SLZ 300 A2 | 3000 | 310 | 40 | 5 |
| SLZ 400 A2 | 3000 | 410 | 40 | 5 |
| SLZ 500 A2 | 3000 | 510 | 40 | 5 |
| SLZ 600 A2 | 3000 | 610 | 40 | 5 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SLZ 100 A2** | 2.8 | 1.5 | 0.8 | 0.5 |
| **SLZ 200 A2** | 2.8 | 1.5 | 0.8 | 0.5 |
| **SLZ 300 A2** | 2.8 | 1.5 | 0.8 | 0.5 |
| **SLZ 400 A2** | 2.8 | 1.5 | 0.8 | 0.5 |
| **SLZ 500 A2** | 2.8 | 1.5 | 0.8 | 0.5 |
| **SLZ 600 A2** | 2.8 | 1.5 | 0.8 | 0.5 |

**Load**



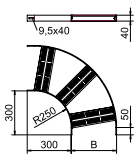

**Load diagram, cable ladder SLZ**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

## 90° bend with Z rung, 40

A2 2B



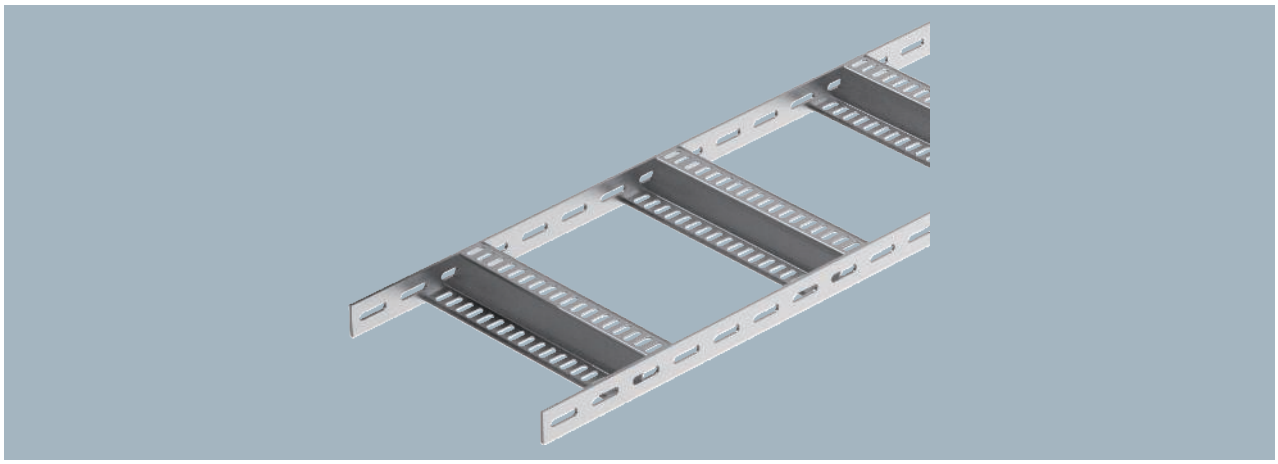



| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLZB 90 100 A2** | 100 | 5 | 1 | 225.100 | **7099030** |
| **SLZB 90 200 A2** | 200 | 5 | 1 | 298.300 | **7099032** |
| **SLZB 90 300 A2** | 300 | 5 | 1 | 371.500 | **7099034** |
| **SLZB 90 400 A2** | 400 | 5 | 1 | 444.600 | **7099036** |
| **SLZB 90 500 A2** | 500 | 5 | 1 | 517.700 | **7099038** |
| **SLZB 90 600 A2** | 600 | 5 | 1 | 590.900 | **7099040** |

Connectors should be ordered separately and in the appropriate quantity.
90° bend for shipbuilding cable ladders, type SLZ, with side height of 40 mm with welded, perforated Z rungs.

A4 2B

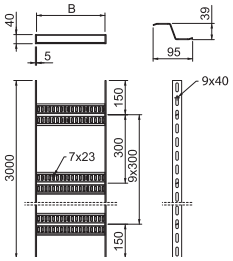
## Cable ladder with Z rung, 40



Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV.

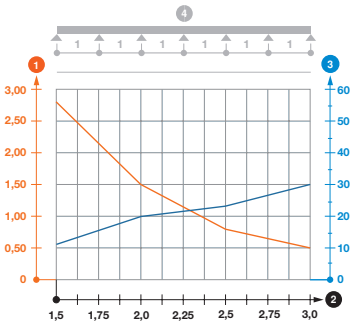
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SLZ 100 A4** | 100 | 3 | 319.000 | **7098222** |
| **SLZ 200 A4** | 200 | 3 | 372.340 | **7098224** |
| **SLZ 300 A4** | 300 | 3 | 427.670 | **7098226** |
| **SLZ 400 A4** | 400 | 3 | 479.000 | **7098228** |
| **SLZ 500 A4** | 500 | 3 | 532.340 | **7098230** |
| **SLZ 600 A4** | 600 | 3 | 585.670 | **7098232** |

### Dimensions




| Type | Length mm | Dim. B mm | Side height mm | Rail thickness mm |
|---|---|---|---|---|
| SLZ 100 A4 | 3000 | 110 | 40 | 5 |
| SLZ 200 A4 | 3000 | 210 | 40 | 5 |
| SLZ 300 A4 | 3000 | 310 | 40 | 5 |
| SLZ 400 A4 | 3000 | 410 | 40 | 5 |
| SLZ 500 A4 | 3000 | 510 | 40 | 5 |
| SLZ 600 A4 | 3000 | 610 | 40 | 5 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SLZ 100 A4** | 2.8 | 1.5 | 0.8 | 0.5 |
| **SLZ 200 A4** | 2.8 | 1.5 | 0.8 | 0.5 |
| **SLZ 300 A4** | 2.8 | 1.5 | 0.8 | 0.5 |
| **SLZ 400 A4** | 2.8 | 1.5 | 0.8 | 0.5 |
| **SLZ 500 A4** | 2.8 | 1.5 | 0.8 | 0.5 |
| **SLZ 600 A4** | 2.8 | 1.5 | 0.8 | 0.5 |

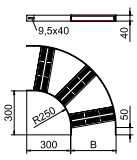
**Load diagram, cable ladder SLZ**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

A4 2B

## 90° bend with Z rung, 40

| Type | Width mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLZB 90 100 A4** | 100 | 5 | 1 | 227.900 | **7099060** |
| **SLZB 90 200 A4** | 200 | 5 | 1 | 302.100 | **7099062** |
| **SLZB 90 300 A4** | 300 | 5 | 1 | 376.200 | **7099064** |
| **SLZB 90 400 A4** | 400 | 5 | 1 | 450.200 | **7099066** |
| **SLZB 90 500 A4** | 500 | 5 | 1 | 524.300 | **7099068** |
| **SLZB 90 600 A4** | 600 | 5 | 1 | 598.300 | **7099070** |






Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SLZ, with side height of 40 mm with welded, perforated Z rungs.

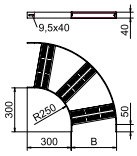


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## 90° bend with Z rung, 40

Alu GB





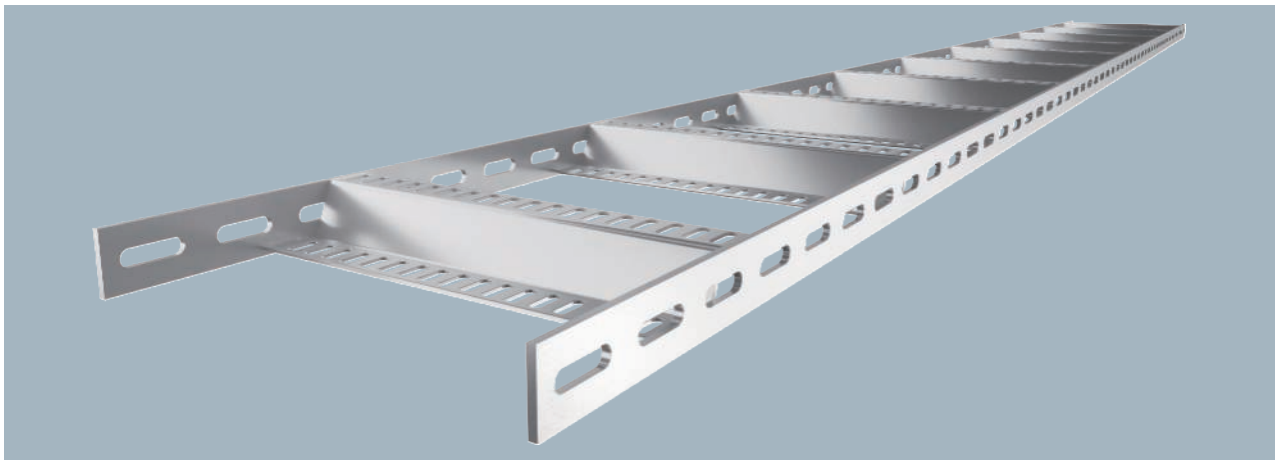

| Type | Width mm | Rail thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **SLZB 90 100 ALU** | 100 | 5 | 1 | 75.800 | **7099090** |
| **SLZB 90 200 ALU** | 200 | 5 | 1 | 100.400 | **7099092** |
| **SLZB 90 300 ALU** | 300 | 5 | 1 | 125.100 | **7099094** |
| **SLZB 90 400 ALU** | 400 | 5 | 1 | 149.700 | **7099096** |
| **SLZB 90 500 ALU** | 500 | 5 | 1 | 174.300 | **7099098** |
| **SLZB 90 600 ALU** | 600 | 5 | 1 | 198.900 | **7099100** |

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SLZ, with side height of 40 mm with welded, perforated Z rungs.

Alu GB

# Cable ladder with Z rung, 40

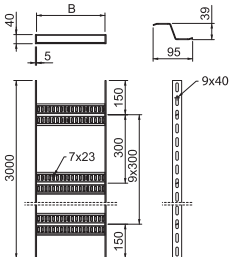


Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated Z rungs.

The shipbuilding cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

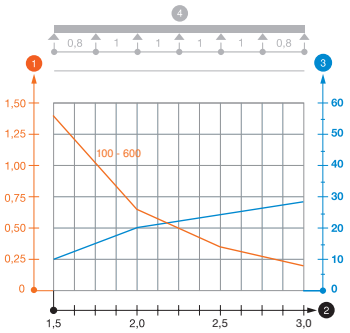
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SLZ 100 ALU** | 100 | 3 | 106.600 | **7099772** |
| **SLZ 200 ALU** | 200 | 3 | 124.667 | **7099774** |
| **SLZ 300 ALU** | 300 | 3 | 142.734 | **7099776** |
| **SLZ 400 ALU** | 400 | 3 | 160.767 | **7099778** |
| **SLZ 500 ALU** | 500 | 3 | 178.834 | **7099780** |
| **SLZ 600 ALU** | 600 | 3 | 196.900 | **7099782** |

## Dimensions




| Type | Length mm | Dim. B mm | Side height mm | Rail thick-ness mm |
|---|---|---|---|---|
| SLZ 100 ALU | 3000 | 110 | 40 | 5 |
| SLZ 200 ALU | 3000 | 210 | 40 | 5 |
| SLZ 300 ALU | 3000 | 310 | 40 | 5 |
| SLZ 400 ALU | 3000 | 410 | 40 | 5 |
| SLZ 500 ALU | 3000 | 510 | 40 | 5 |
| SLZ 600 ALU | 3000 | 610 | 40 | 5 |

## Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **SLZ 100 ALU** | 1.4 | 0.65 | 0.35 | 0.2 |
| **SLZ 200 ALU** | 1.4 | 0.65 | 0.35 | 0.2 |
| **SLZ 300 ALU** | 1.4 | 0.65 | 0.35 | 0.2 |
| **SLZ 400 ALU** | 1.4 | 0.65 | 0.35 | 0.2 |
| **SLZ 500 ALU** | 1.4 | 0.65 | 0.35 | 0.2 |
| **SLZ 600 ALU** | 1.4 | 0.65 | 0.35 | 0.2 |

### Load diagram, SLZ cable ladder

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

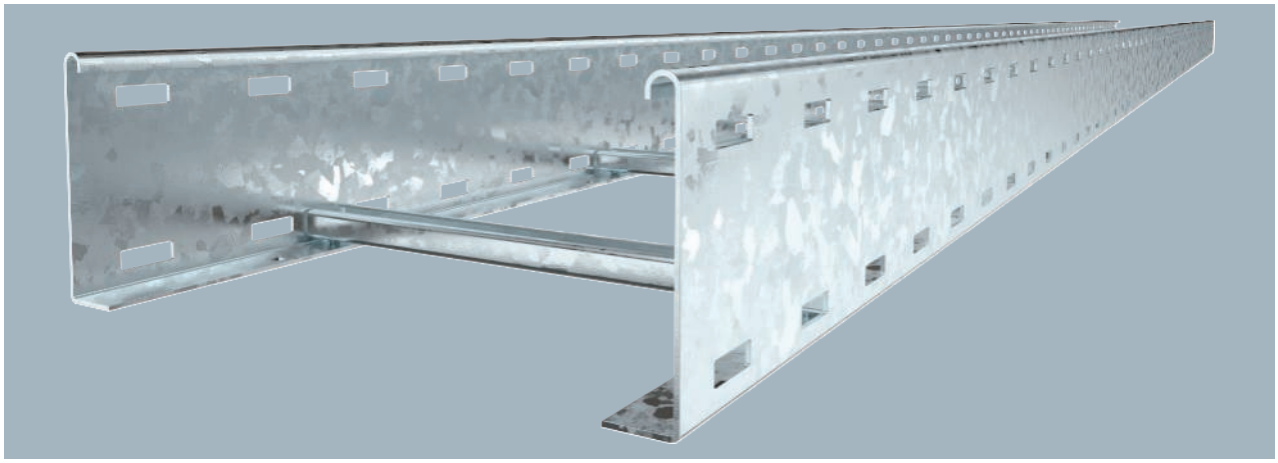
— Strut bend curve according to support width



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## Cable ladder SLCS 110, C30 FT SOMY

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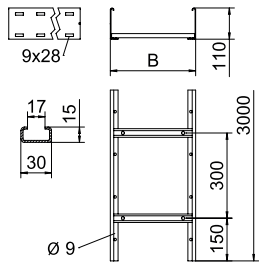


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SLCS 1120 3 FTSO** | 200 | 3 | 536.740 | **7186400** |
| **SLCS 1140 3 FTSO** | 400 | 3 | 606.070 | **7186404** |
| **SLCS 1150 3 FTSO** | 500 | 3 | 640.333 | **7186406** |
| **SLCS 1160 3 FTSO** | 600 | 3 | 675.333 | **7186408** |
| **SLCS 1175 3 FTSO** | 750 | 3 | 727.000 | **7186410** |
| **SLCS 1180 3 FTSO** | 800 | 3 | 744.667 | **7186412** |
| **SLCS 1190 3 FTSO** | 900 | 3 | 779.000 | **7186414** |
| **SLCS 11100 3FTSO** | 1000 | 3 | 845.667 | **7186416** |

Cable ladder with 110 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate U clamp clip is type 2056.

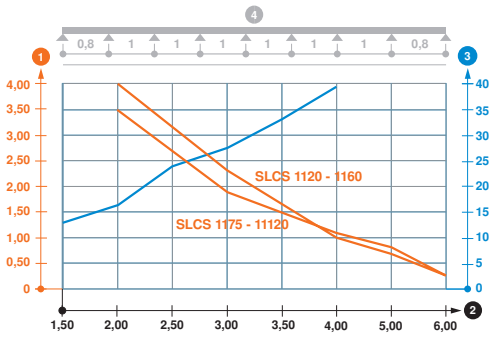
| Type | Length mm | Dim. B mm | Rail thick-ness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| SLCS 1120 3 FTSO | 3000 | – | 2 | 180 | 300 |
| SLCS 1140 3 FTSO | 3000 | – | 2 | 360 | 300 |
| SLCS 1150 3 FTSO | 3000 | – | 2 | 450 | 300 |
| SLCS 1160 3 FTSO | 3000 | – | 2 | 540 | 300 |
| SLCS 1175 3 FTSO | 3000 | – | 2 | 675 | 300 |
| SLCS 1180 3 FTSO | 3000 | – | 2 | 720 | 300 |
| SLCS 1190 3 FTSO | 3000 | – | 2 | 810 | 300 |
| SLCS 11100 3FTSO | 3000 | – | 2 | 900 | 300 |

### Dimensions




| | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m |
|---|---|---|---|---|---|
| **SLCS 1120 3 FTSO** | 4 | 2.3 | 1 | 0.7 | 0.25 |
| **SLCS 1140 3 FTSO** | 4 | 2.3 | 1 | 0.7 | 0.25 |
| **SLCS 1150 3 FTSO** | 4 | 2.3 | 1 | 0.7 | 0.25 |
| **SLCS 1160 3 FTSO** | 4 | 2.3 | 1 | 0.7 | 0.25 |
| **SLCS 1175 3 FTSO** | 3.5 | 1.9 | 1 | 0.8 | 0.25 |
| **SLCS 1180 3 FTSO** | 3.5 | 1.9 | 1 | 0.8 | 0.25 |
| **SLCS 1190 3 FTSO** | 3.5 | 1.9 | 1 | 0.8 | 0.25 |
| **SLCS 11100 3FTSO** | 3.5 | 1.9 | 1 | 0.8 | 0.25 |

### Load




**Load diagram, cable ladder, type SLCS 110**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

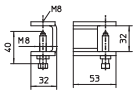
— Strut bend curve according to support width

St FT

## KLL 32 cable ladder beam clamp

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| KLL 32 FT | 32 | 10 | 17.500 | 6221061 |

Beam clamp for fastening cable ladders to steel girders.



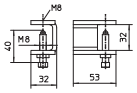



A2 2B

## KLL 32 cable ladder beam clamp

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| KLL 32 A2 | 32 | 10 | 17.100 | 6221063 |

Beam clamp for fastening cable ladders to steel girders.



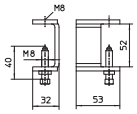



St FT

## KLL 52 cable ladder beam clamp

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| KLL 52 FT | 52 | 10 | 21.400 | 6221071 |

Beam clamp for fastening cable ladders to steel girders.



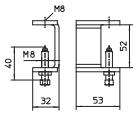



A2 2B

## KLL 52 cable ladder beam clamp

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| KLL 52 A2 | 52 | 10 | 21.000 | 6221073 |

Beam clamp for fastening cable ladders to steel girders.





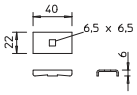

St FS FT

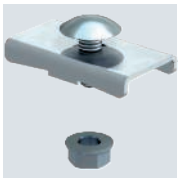
## LKS 40 hold-down clamp

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| LKS 40 FS | 10 | 2.300 | 6221076 |
| LKS 40 FT | 10 | 2.400 | 6221084 |

Hold-down clamp for fastening cable ladders.

Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6 x 20.



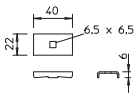


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## LKS 40 hold-down clamp

A2 2B



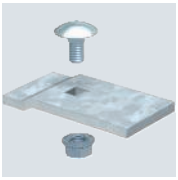


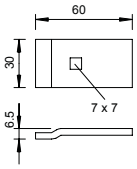

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **LKS 40 A2** | 10 | 2.300 | **6017134** |

Hold-down clamp for fastening cable ladders.
Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the supplied FRS M6 x 20 fastening bolt.

## LKS 60/4 hold-down clamp

St FT





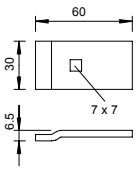

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **LKS 60 4 FT** | 10 | 6.500 | **6221122** |

Hold-down clamp for fastening cable ladders.
Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.

## LKS 60/4 hold-down clamp

A2 A4 2B



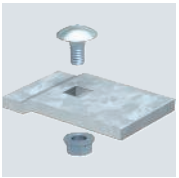


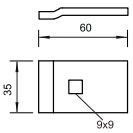

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **LKS 60 4 A2** | 10 | 8.000 | **6221130** |
| **LKS 60 4 A4** | 10 | 6.363 | **6221157** |

Hold-down clamp for fastening cable ladders.
Fastening on brackets, type AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.

## LKS 60/5 hold-down clamp

St FT



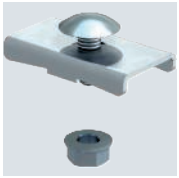


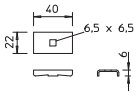

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **LKS 60 5 FT** | 10 | 10.000 | **6232485** |

Hold-down clamp for fastening wide span cable ladders.
Fastening on bracket, type AW 80, and AWSS using the enclosed truss-head bolt FRS M8x20.

## Clamping piece FTK, light grey

St






| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **LKS 40 FTK LGR** | Light grey | 50 | 2.500 | **6479790** |

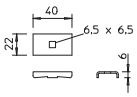
Hold-down clamp for fastening cable ladders.

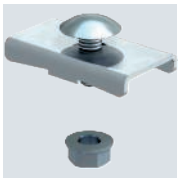
St FT SO

## Cable ladder hold-down clamp FT SOMY

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LKS 40 FT SO | | 50 | 2.500 | 7189192 |

Hold-down clamp for fastening cable ladders.
The surface coating is a coating created in a single-dip method with extra-high zinc thicknesses.



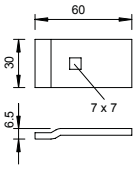



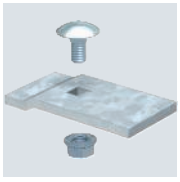
St FT

## LKS 60/4 clamping piece

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LKS 60 4 FT 8.8 | | 10 | 7.000 | 6221124 |

Hold-down clamp for fastening cable ladders.
Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.



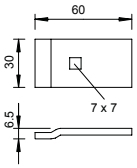



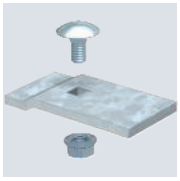
St

## Clamping piece FTK, light grey

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LKS 60 4 FTK LGR | Light grey | 50 | 7.000 | 6479435 |

Hold-down clamp for fastening cable ladders.
The surface of the hold-down clamp is hot-dip galvanised and is also plastic-coated in RAL shades.



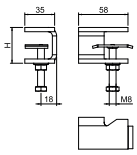



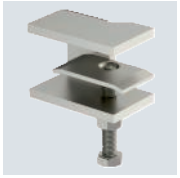
A2 2B

## Hold-down clamp with KLL 32 pressure plate

| Type | Side height mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| KLL 32 MD A2 | 32 | | 10 | 24.600 | 6221065 |

Hold-down clamp for position fixing of horizontal cable ladders on horizontal steel girders.



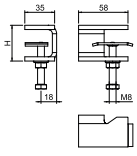



A2 2B

## Hold-down clamp with pressure plate KLL 52

| Type | Side height mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| KLL 52 MD A2 | 52 | | 10 | 26.352 | 6221075 |

Hold-down clamp for position fixing of horizontal cable ladders on horizontal steel girders.





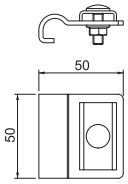



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## LAW support profile

St FT





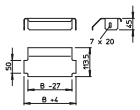

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **LAW FT** | 10 | 9.200 | **6221513** |

Support bracket for creation of branches at different heights at a later date.

## LALB support plate

St FT



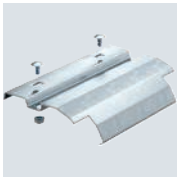


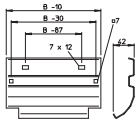
| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **LALB 20 FT** | 200 | 1 | 37.700 | **6221858** |
| **LALB 30 FT** | 300 | 1 | 53.000 | **6221866** |
| **LALB 40 FT** | 400 | 1 | 73.000 | **6221874** |
| **LALB 50 FT** | 500 | 1 | 86.000 | **6221882** |
| **LALB 60 FT** | 600 | 1 | 116.000 | **6221890** |

Support plate to increase the cable volume and for cable protection.

## LAB exit plate

St FT



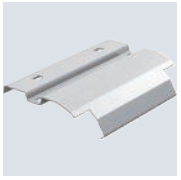


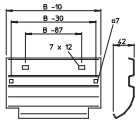
| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **LAB 20 FT** | 200 | 1 | 37.000 | **6220436** |
| **LAB 30 FT** | 300 | 1 | 58.000 | **6220444** |
| **LAB 40 FT** | 400 | 1 | 78.000 | **6220452** |
| **LAB 50 FT** | 500 | 1 | 99.000 | **6220460** |
| **LAB 60 FT** | 600 | 1 | 120.000 | **6220479** |

Exit plate for installation on the rung for vertically exiting cables.

## LAB exit plate

A2 2B



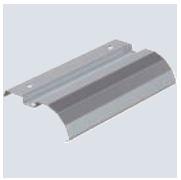


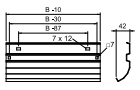
| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **LAB 20 A2** | 200 | 1 | 26.000 | **7164017** |
| **LAB 30 A2** | 300 | 1 | 38.000 | **7164025** |
| **LAB 40 A2** | 400 | 1 | 50.000 | **7164033** |
| **LAB 50 A2** | 500 | 1 | 63.000 | **7164041** |
| **LAB 60 A2** | 600 | 1 | 75.000 | **7164068** |

Exit plate for installation on the rung for vertically exiting cables.

## Drop-out plate

St DD





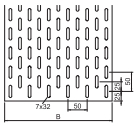
| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **LABE 20 DD** | 200 | 1 | 40.000 | **6220622** |
| **LABE 30 DD** | 300 | 1 | 59.000 | **6220630** |
| **LABE 40 DD** | 400 | 1 | 80.000 | **6220649** |
| **LABE 50 DD** | 500 | 1 | 99.000 | **6220657** |

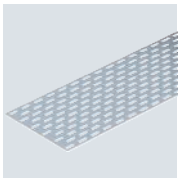
The exit plate can only be used when the rail and the rung form the end of the cable ladder.
Exit plate for installation on the rung for vertically exiting cables.

St FS FT

## ELB-L insertion plate

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **ELB-L 20 FS** | 200 | 1.00 | 3000 | 3 | 88.500 | **6103235** |
| **ELB-L 30 FS** | 300 | 1.00 | 3000 | 3 | 137.400 | **6103251** |
| **ELB-L 40 FS** | 400 | 1.00 | 3000 | 3 | 186.300 | **6103286** |
| **ELB-L 50 FS** | 500 | 1.00 | 3000 | 3 | 235.200 | **6103316** |
| **ELB-L 60 FS** | 600 | 1.00 | 3000 | 3 | 285.070 | **6103332** |
| **ELB-L 20 FT** | 200 | 1.00 | 3000 | 3 | 100.240 | **6103421** |
| **ELB-L 30 FT** | 300 | 1.00 | 3000 | 3 | 155.640 | **6103448** |
| **ELB-L 40 FT** | 400 | 1.00 | 3000 | 3 | 211.040 | **6103456** |
| **ELB-L 50 FT** | 500 | 1.00 | 3000 | 3 | 269.740 | **6103464** |
| **ELB-L 60 FT** | 600 | 1.00 | 3000 | 3 | 322.870 | **6103480** |



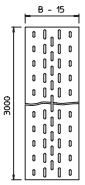



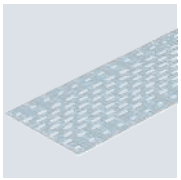
Insert plate for use in cable ladders.
For fastening in wide span cable ladders, use truss-head bolts with combination nut of type FR SB 6x30.

St DD

## ELB-L insertion plate

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **ELB-L 20 DD** | 200 | 1.00 | 3000 | 3 | 88.500 | **6103352** |
| **ELB-L 30 DD** | 300 | 1.00 | 3000 | 3 | 137.400 | **6103356** |
| **ELB-L 40 DD** | 400 | 1.00 | 3000 | 3 | 186.300 | **6103360** |
| **ELB-L 50 DD** | 500 | 1.00 | 3000 | 3 | 235.200 | **6103364** |
| **ELB-L 60 DD** | 600 | 1.00 | 3000 | 3 | 285.180 | **6103368** |



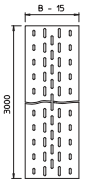



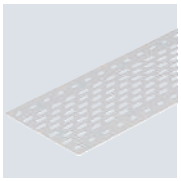
Insert plate for use in cable ladders.
For the fastening in wide span cable ladders use truss-head bolts with the combination nut of type FR SB 6x30.

A2 2B

## ELB-L insertion plate

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **ELB-L20 A2** | 200 | 1.00 | 3000 | 3 | 94.400 | **6103614** |
| **ELB-L30 A2** | 300 | 1.00 | 3000 | 3 | 146.567 | **6103618** |
| **ELB-L40 A2** | 400 | 1.00 | 3000 | 3 | 198.700 | **6103622** |
| **ELB-L50 A2** | 500 | 1.00 | 3000 | 3 | 250.867 | **6103626** |
| **ELB-L60 A2** | 600 | 1.00 | 3000 | 3 | 303.033 | **6103630** |



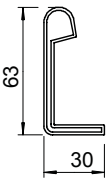



Insert plate for use in cable ladders.
For the fastening in wide span cable ladders use truss-head bolts with the combination nut of type FR SB 6x30.

PE

## Protective cap 60

| Type | Colour | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|---|
| **SKH 60 OR** | Pastel orange | 40 | 1.072 | **6222537** |






Protective cap to cover cable ladder ends of side height 60 mm.

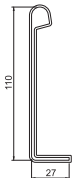


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## End cap 110

PE





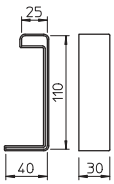

| Type | Colour | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|---|
| SKH 110 OR | Pastel orange | 20 | 1.345 | 6222553 |

End cap to cover cable ladder ends of side height 110 mm.

## End cap 110

PVC





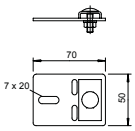

| Type | Colour | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|---|
| SKHW 110 OR | Pastel orange | 20 | 4.400 | 6310398 |

End cap to cover the ends of wide span cable ladders.

## LAL 70 support

A2 2B





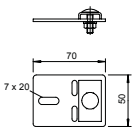

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| LAL 70 A2 | 20 | 10.200 | 6221017 |

Support for fastening rising or falling cable ladders.

## LAL 70 support

St FS





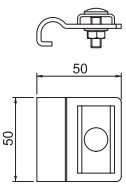

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| LAL 70 FS | 20 | 10.200 | 6221009 |

Support for fastening rising or falling cable ladders.

## LAW support profile

St FT





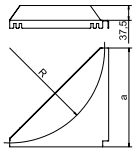

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| LAW FT | 10 | 9.200 | 6221513 |

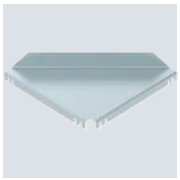
Support bracket for creation of branches at different heights at a later date.

St FS DD

## Corner plate

| Type | Radius mm | Dim. a mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| LEB 25 FS | 250 | 250 | 1 | 64.300 | 6221203 |
| LEB 50 FS | 500 | 500 | 1 | 209.300 | 6221246 |
| LEB 25 DD | 250 | 250 | 1 | 63.600 | 6221216 |
| LEB 50 DD | 500 | 500 | 1 | 205.500 | 6221259 |



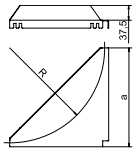



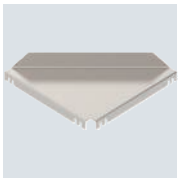
Corner plate to increase the radius and the cable supporting surface.

A2 2B

## Corner plate

| Type | Radius mm | Dim. a mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| LEB 25 A2 | 250 | 250 | 1 | 64.300 | 6221207 |
| LEB 50 A2 | 500 | 500 | 1 | 207.000 | 6221250 |



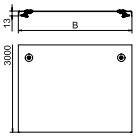



Corner plate to increase the radius and the cable supporting surface.

St FS FT DD

## Cover with turn buckle

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| DRL 075 FS | 75 | 1.00 | 3000 | 3 | 83.340 | 6052029 |
| DRL 100 FS | 100 | 1.00 | 3000 | 3 | 103.000 | 6052096 |
| DRL 150 FS | 150 | 1.00 | 3000 | 3 | 141.667 | 6052150 |
| DRL 200 FS | 200 | 1.00 | 3000 | 3 | 181.340 | 6052207 |
| DRL 300 FS | 300 | 1.00 | 3000 | 3 | 259.334 | 6052304 |
| DRL 400 FS | 400 | 1.00 | 3000 | 3 | 338.670 | 6052401 |
| DRL 500 FS | 500 | 1.25 | 3000 | 3 | 623.000 | 6052509 |
| DRL 550 FS | 550 | 1.25 | 3000 | 3 | 681.670 | 6052568 |
| DRL 600 FS | 600 | 1.25 | 3000 | 3 | 741.000 | 6052606 |
| DRL 100 FT | 100 | 1.00 | 3000 | 3 | 106.670 | 6051340 |
| DRL 200 FT | 200 | 1.00 | 3000 | 3 | 202.670 | 6051367 |
| DRL 300 FT | 300 | 1.00 | 3000 | 3 | 289.000 | 6051383 |
| DRL 400 FT | 400 | 1.50 | 3000 | 3 | 542.000 | 6051413 |
| DRL 500 FT | 500 | 1.50 | 3000 | 3 | 667.670 | 6051448 |
| DRL 600 FT | 600 | 1.50 | 3000 | 3 | 793.000 | 6051472 |
| DRL 100 DD | 100 | 1.00 | 3000 | 3 | 106.340 | 6052703 |
| DRL 150 DD | 150 | 1.00 | 3000 | 3 | 145.670 | 6052706 |
| DRL 200 DD | 200 | 1.00 | 3000 | 3 | 185.000 | 6052709 |
| DRL 300 DD | 300 | 1.00 | 3000 | 3 | 263.340 | 6052712 |
| DRL 400 DD | 400 | 1.00 | 3000 | 3 | 342.070 | 6052715 |
| DRL 500 DD | 500 | 1.25 | 3000 | 3 | 626.670 | 6052718 |
| DRL 550 DD | 550 | 1.25 | 3000 | 3 | 685.340 | 6052721 |
| DRL 600 DD | 600 | 1.25 | 3000 | 3 | 744.570 | 6052724 |






Transverse bead from 500 mm width.
Cover for cable trays and cable ladders with turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.

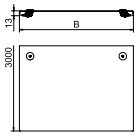


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## Cover with turn buckle

A2 A4 2B






| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DRL 100 A2** | 100 | 1.00 | 3000 | 3 | 105.070 | **6052878** |
| **DRL 200 A2** | 200 | 1.00 | 3000 | 3 | 183.500 | **6052894** |
| **DRL 300 A2** | 300 | 1.00 | 3000 | 3 | 262.240 | **6052908** |
| **DRL 400 A2** | 400 | 1.00 | 3000 | 3 | 340.400 | **6052932** |
| **DRL 500 A2** | 500 | 1.25 | 3000 | 3 | 625.340 | **6052959** |
| **DRL 600 A2** | 600 | 1.25 | 3000 | 3 | 743.240 | **6052975** |
| **DRL 100 A4** | 100 | 1.00 | 3000 | 3 | 105.070 | **6052980** |
| **DRL 200 A4** | 200 | 1.00 | 3000 | 3 | 183.570 | **6052981** |
| **DRL 300 A4** | 300 | 1.00 | 3000 | 3 | 262.240 | **6052983** |
| **DRL 400 A4** | 400 | 1.00 | 3000 | 3 | 341.240 | **6052984** |
| **DRL 600 A4** | 600 | 1.25 | 3000 | 3 | 743.240 | **6052986** |

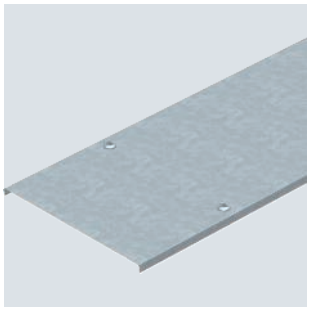
Transverse bead from 500 mm width.

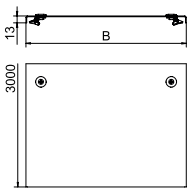
Cover for cable trays and cable ladders with three pairs of turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken.

## Cover with turn buckle 1,5 mm

St FS FT






| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DRL 1,5 100 FS** | 100 | 1.50 | 3000 | 3 | 152.000 | **6052097** |
| **DRL 1,5 200 FS** | 200 | 1.50 | 3000 | 3 | 269.950 | **6052208** |
| **DRL 1,5 100 FT** | 100 | 1.50 | 3000 | 3 | 165.000 | **6051345** |
| **DRL 1,5 200 FT** | 200 | 1.50 | 3000 | 3 | 290.670 | **6051370** |
| **DRL 1,5 300 FT** | 300 | 1.50 | 3000 | 3 | 416.334 | **6051387** |

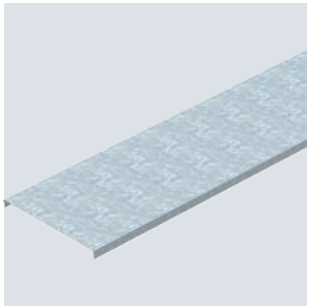
Transverse bead from 500 mm width.

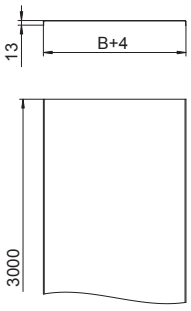
Cover for cable trays and cable ladders with three pairs of turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken.

## Unperforated cover

St FS DD






| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DRLU 050 FS** | 50 | 1.00 | 3000 | 3 | 59.767 | **6052056** |
| **DRLU 100 FS** | 100 | 1.00 | 3000 | 3 | 99.000 | **6052103** |
| **DRLU 150 FS** | 150 | 1.00 | 3000 | 3 | 138.267 | **6052153** |
| **DRLU 200 FS** | 200 | 1.00 | 3000 | 3 | 177.500 | **6052210** |
| **DRLU 300 FS** | 300 | 1.00 | 3000 | 3 | 256.000 | **6052307** |
| **DRLU 400 FS** | 400 | 1.00 | 3000 | 3 | 334.500 | **6052405** |
| **DRLU 500 FS** | 500 | 1.50 | 3000 | 3 | 619.234 | **6052512** |
| **DRLU 550 FS** | 550 | 1.50 | 3000 | 3 | 678.100 | **6052571** |
| **DRLU 600 FS** | 600 | 1.50 | 3000 | 3 | 737.000 | **6052609** |
| **DRLU 050 DD** | 50 | 1.00 | 3000 | 3 | 59.770 | **6052640** |
| **DRLU 100 DD** | 100 | 1.00 | 3000 | 3 | 99.000 | **6052643** |
| **DRLU 150 DD** | 150 | 1.00 | 3000 | 3 | 138.267 | **6052647** |
| **DRLU 200 DD** | 200 | 1.00 | 3000 | 3 | 177.500 | **6052650** |
| **DRLU 300 DD** | 300 | 1.00 | 3000 | 3 | 256.000 | **6052656** |
| **DRLU 400 DD** | 400 | 1.00 | 3000 | 3 | 334.500 | **6052662** |
| **DRLU 500 DD** | 500 | 1.50 | 3000 | 3 | 619.234 | **6052668** |
| **DRLU 550 DD** | 550 | 1.50 | 3000 | 3 | 678.100 | **6052671** |
| **DRLU 600 DD** | 600 | 1.50 | 3000 | 3 | 737.000 | **6052674** |

Cover for cable trays and mesh cable trays.

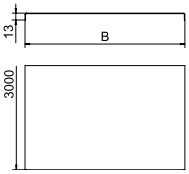
When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.

A2 A4 2B

## Unperforated cover

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DRLU 050 A2** | 50 | 1.00 | 3000 | 3 | 59.767 | **6052821** |
| **DRLU 100 A2** | 100 | 1.00 | 3000 | 3 | 99.000 | **6052824** |
| **DRLU 200 A2** | 200 | 1.00 | 3000 | 3 | 177.500 | **6052831** |
| **DRLU 300 A2** | 300 | 1.00 | 3000 | 3 | 256.000 | **6052834** |
| **DRLU 400 A2** | 400 | 1.00 | 3000 | 3 | 334.500 | **6052837** |
| **DRLU 500 A2** | 500 | 1.50 | 3000 | 3 | 619.167 | **6052841** |
| **DRLU 600 A2** | 600 | 1.50 | 3000 | 3 | 736.900 | **6052844** |
| **DRLU 100 A4** | 100 | 1.00 | 3000 | 3 | 99.000 | **6052991** |
| **DRLU 200 A4** | 200 | 1.00 | 3000 | 3 | 177.500 | **6052993** |
| **DRLU 300 A4** | 300 | 1.00 | 3000 | 3 | 256.000 | **6052994** |
| **DRLU 400 A4** | 400 | 1.00 | 3000 | 3 | 334.500 | **6052995** |
| **DRLU 500 A4** | 500 | 1.25 | 3000 | 3 | 619.167 | **6052996** |
| **DRLU 600 A4** | 600 | 1.25 | 3000 | 3 | 736.900 | **6052998** |






Cover for cable trays and mesh cable trays.

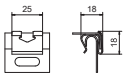
When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.

VA 2B

## Cover clamp

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **DK DRLU A2** | 30 | 0.842 | **6052810** |





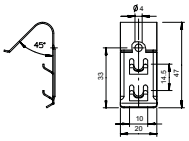

Cover clamp for secure fastening of covers on cable trays and cable ladders.

At least 6 cover clamps should be mounted for each 3 metres of cover.

VA 2B

## Cover clamp, universal

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **DKU A2** | 20 | 0.794 | **6065600** |






Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ small ducts.

The cover clamp is not suitable for use with mesh cable trays with a side height of 35 mm.

Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.

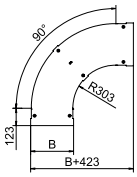


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## Cover for 90° bend LBD R3

St FS FT





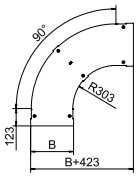

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LBD 90 200 R3 FS** | 200 | 1.00 | 1 | 145.000 | **6225990** |
| **LBD 90 300 R3 FS** | 300 | 1.00 | 1 | 232.000 | **6225992** |
| **LBD 90 400 R3 FS** | 400 | 1.00 | 1 | 331.000 | **6225994** |
| **LBD 90 500 R3 FS** | 500 | 1.25 | 1 | 550.000 | **6225996** |
| **LBD 90 600 R3 FS** | 600 | 1.25 | 1 | 705.000 | **6225998** |
| **LBD 90 200 R3 FT** | 200 | 1.00 | 1 | 158.000 | **6226010** |
| **LBD 90 300 R3 FT** | 300 | 1.00 | 1 | 251.000 | **6226012** |
| **LBD 90 400 R3 FT** | 400 | 1.00 | 1 | 359.000 | **6226014** |
| **LBD 90 450 R3 FT** | 450 | 1.25 | 1 | 513.000 | **6226016** |
| **LBD 90 500 R3 FT** | 500 | 1.25 | 1 | 589.000 | **6226018** |
| **LBD 90 600 R3 FT** | 600 | 1.25 | 1 | 755.000 | **6226020** |
| **LBD 90 750 R3 FT** | 750 | 1.25 | 1 | 857.000 | **6226022** |
| **LBD 90 800 R3 FT** | 800 | 1.25 | 1 | 939.000 | **6226024** |
| **LBD 90 900 R3 FT** | 900 | 1.25 | 1 | 1,388.000 | **6226026** |
| **LBD 90 1000 R3FT** | 1000 | 1.25 | 1 | 1,624.000 | **6226028** |
| **LBD 90 1200 R3FT** | 1200 | 1.25 | 1 | 2,143.000 | **6226032** |

Cover with turn buckles for covering 90° cable ladder bends with welded rungs.

## Cover for 90° bend LBD R3

A2 A4 2B





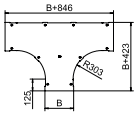

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LBD 90 200 R3 A2** | 200 | 1.00 | 1 | 158.000 | **6226050** |
| **LBD 90 300 R3 A2** | 300 | 1.00 | 1 | 246.000 | **6226052** |
| **LBD 90 400 R3 A2** | 400 | 1.00 | 1 | 346.000 | **6226054** |
| **LBD 90 500 R3 A2** | 500 | 1.25 | 1 | 568.000 | **6226056** |
| **LBD 90 600 R3 A2** | 600 | 1.25 | 1 | 725.000 | **6226058** |
| **LBD 90 200 R3 A4** | 200 | 1.00 | 1 | 159.000 | **6226070** |
| **LBD 90 300 R3 A4** | 300 | 1.00 | 1 | 248.000 | **6226072** |
| **LBD 90 400 R3 A4** | 400 | 1.00 | 1 | 350.000 | **6226074** |
| **LBD 90 500 R3 A4** | 500 | 1.25 | 1 | 575.000 | **6226076** |
| **LBD 90 600 R3 A4** | 600 | 1.25 | 1 | 734.000 | **6226078** |

Cover with turn buckles for covering 90° cable ladder bends with welded rungs.

## Cover for LTD R3 T piece

St FS FT





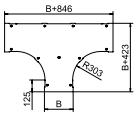

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LTD 200 R3 FS** | 200 | 1.00 | 1 | 274.000 | **6226100** |
| **LTD 300 R3 FS** | 300 | 1.00 | 1 | 413.000 | **6226102** |
| **LTD 400 R3 FS** | 400 | 1.00 | 1 | 567.000 | **6226104** |
| **LTD 500 R3 FS** | 500 | 1.25 | 1 | 737.000 | **6226106** |
| **LTD 600 R3 FS** | 600 | 1.25 | 1 | 922.000 | **6226108** |
| **LTD 200 R3 FT** | 200 | 1.00 | 1 | 298.000 | **6226120** |
| **LTD 300 R3 FT** | 300 | 1.00 | 1 | 450.000 | **6226122** |
| **LTD 400 R3 FT** | 400 | 1.00 | 1 | 617.000 | **6226124** |
| **LTD 450 R3 FT** | 450 | 1.25 | 1 | 696.000 | **6226126** |
| **LTD 500 R3 FT** | 500 | 1.25 | 1 | 775.000 | **6226128** |
| **LTD 600 R3 FT** | 600 | 1.25 | 1 | 989.000 | **6226130** |
| **LTD 750 R3 FT** | 750 | 1.25 | 1 | 1,687.000 | **6226132** |
| **LTD 800 R3 FT** | 800 | 1.25 | 1 | 1,836.000 | **6226134** |
| **LTD 900 R3 FT** | 900 | 1.25 | 1 | 2,151.000 | **6226136** |
| **LTD 1000 R3 FT** | 1000 | 1.25 | 1 | 2,488.000 | **6226138** |
| **LTD 1200 R3 FT** | 1200 | 1.25 | 1 | 3,222.000 | **6226142** |

Cover with turn buckles for covering T pieces with welded rungs.

A2 A4 2B

## Cover for LTD R3 T piece

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LTD 200 R3 A2** | 200 | 1.00 | 1 | 287.000 | **6226160** |
| **LTD 300 R3 A2** | 300 | 1.00 | 1 | 429.000 | **6226162** |
| **LTD 400 R3 A2** | 400 | 1.00 | 1 | 585.000 | **6226164** |
| **LTD 500 R3 A2** | 500 | 1.25 | 1 | 757.000 | **6226166** |
| **LTD 600 R3 A2** | 600 | 1.25 | 1 | 943.000 | **6226168** |
| **LTD 200 R3 A4** | 200 | 1.00 | 1 | 291.000 | **6226180** |
| **LTD 300 R3 A4** | 300 | 1.00 | 1 | 434.000 | **6226182** |
| **LTD 400 R3 A4** | 400 | 1.00 | 1 | 592.000 | **6226184** |
| **LTD 500 R3 A4** | 500 | 1.25 | 1 | 766.000 | **6226186** |
| **LTD 600 R3 A4** | 600 | 1.25 | 1 | 955.000 | **6226188** |



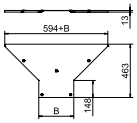



Cover with turn buckles for covering T pieces with welded rungs.

St FS FT

## Cover for add-on tee LAAD R3

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LAAD 200 R3 FS** | 200 | 1.00 | 1 | 171.000 | **6226310** |
| **LAAD 300 R3 FS** | 300 | 1.00 | 1 | 203.000 | **6226312** |
| **LAAD 400 R3 FS** | 400 | 1.00 | 1 | 303.000 | **6226314** |
| **LAAD 500 R3 FS** | 500 | 1.25 | 1 | 351.000 | **6226316** |
| **LAAD 600 R3 FS** | 600 | 1.25 | 1 | 397.000 | **6226318** |
| **LAAD 200 R3 FT** | 200 | 1.00 | 1 | 180.000 | **6226330** |
| **LAAD 300 R3 FT** | 300 | 1.00 | 1 | 219.000 | **6226332** |
| **LAAD 400 R3 FT** | 400 | 1.00 | 1 | 316.000 | **6226334** |
| **LAAD 450 R3 FT** | 450 | 1.25 | 1 | 341.000 | **6226336** |
| **LAAD 500 R3 FT** | 500 | 1.25 | 1 | 365.000 | **6226338** |
| **LAAD 600 R3 FT** | 600 | 1.25 | 1 | 414.000 | **6226340** |
| **LAAD 750 R3 FT** | 750 | 1.25 | 1 | 504.000 | **6226342** |
| **LAAD 800 R3 FT** | 800 | 1.25 | 1 | 528.000 | **6226344** |
| **LAAD 900 R3 FT** | 900 | 1.25 | 1 | 578.000 | **6226346** |
| **LAAD 1000 R3 FT** | 1000 | 1.25 | 1 | 624.000 | **6226348** |
| **LAAD 1200 R3 FT** | 1200 | 1.25 | 1 | 722.000 | **6226352** |



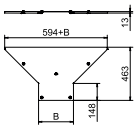



Cover with turn buckles for covering add-on tee with welded rungs.

A2 A4 2B

## Cover for add-on tee

| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LAAD 200 R3 A2** | 200 | 1.00 | 1 | 180.000 | **6226361** |
| **LAAD 300 R3 A2** | 300 | 1.00 | 1 | 219.000 | **6226363** |
| **LAAD 400 R3 A2** | 400 | 1.25 | 1 | 316.000 | **6226365** |
| **LAAD 500 R3 A2** | 500 | 1.25 | 1 | 365.000 | **6226367** |
| **LAAD 600 R3 A2** | 600 | 1.25 | 1 | 414.000 | **6226369** |
| **LAAD 200 R3 A4** | 200 | 1.00 | 1 | 180.000 | **6226381** |
| **LAAD 300 R3 A4** | 300 | 1.00 | 1 | 219.000 | **6226383** |
| **LAAD 400 R3 A4** | 400 | 1.25 | 1 | 316.000 | **6226385** |
| **LAAD 500 R3 A4** | 500 | 1.25 | 1 | 365.000 | **6226387** |
| **LAAD 600 R3 A4** | 600 | 1.25 | 1 | 414.000 | **6226389** |






Cover with turn buckles for covering add-on tees with welded rungs.

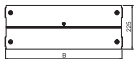


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## Cover for LGBED adjustable vertical bend element

St FS FT



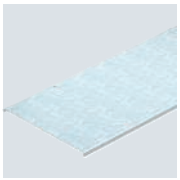


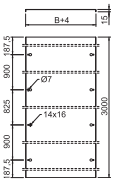
| Type | Dim. B mm | Metal thick-ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LGBED 200 FS** | 200 | 1.00 | 1 | 42.000 | **6226210** |
| **LGBED 300 FS** | 300 | 1.00 | 1 | 60.000 | **6226212** |
| **LGBED 400 FS** | 400 | 1.00 | 1 | 78.000 | **6226214** |
| **LGBED 500 FS** | 500 | 1.25 | 1 | 117.000 | **6226216** |
| **LGBED 600 FS** | 600 | 1.25 | 1 | 139.000 | **6226218** |
| **LGBED 200 FT** | 200 | 1.00 | 1 | 45.000 | **6226230** |
| **LGBED 300 FT** | 300 | 1.00 | 1 | 65.000 | **6226232** |
| **LGBED 400 FT** | 400 | 1.00 | 1 | 85.000 | **6226234** |
| **LGBED 450 FT** | 450 | 1.25 | 1 | 113.000 | **6226236** |
| **LGBED 500 FT** | 500 | 1.25 | 1 | 125.000 | **6226238** |
| **LGBED 600 FT** | 600 | 1.25 | 1 | 149.000 | **6226240** |
| **LGBED 750 FT** | 750 | 1.25 | 1 | 184.000 | **6226242** |
| **LGBED 800 FT** | 800 | 1.25 | 1 | 196.000 | **6226244** |
| **LGBED 900 FT** | 900 | 1.25 | 1 | 219.000 | **6226246** |
| **LGBED 1000 FT** | 1000 | 1.25 | 1 | 243.000 | **6226248** |
| **LGBED 1200 FT** | 1200 | 1.25 | 1 | 290.000 | **6226252** |

Cover with sash locks for covering adjustable bends with welded rungs.

## Cover for stand-off mounting

St FT






| Type | Width mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DRL FAM 230 FT** | 230 | 1.50 | 3000 | 3 | 319.240 | **6051222** |
| **DRL FAM 330 FT** | 330 | 1.50 | 3000 | 3 | 444.800 | **6051224** |
| **DRL FAM 430 FT** | 430 | 1.50 | 3000 | 3 | 570.370 | **6051226** |
| **DRL FAM 530 FT** | 530 | 1.50 | 3000 | 3 | 695.900 | **6051228** |
| **DRL FAM 630 FT** | 630 | 1.50 | 3000 | 3 | 821.470 | **6051230** |

Spacers must ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.

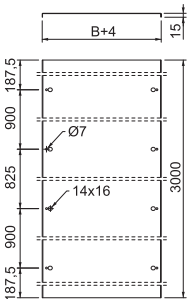
Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.

When using covers outdoors, additional measures against the influence of wind must be taken.

## Cover for stand-off mounting

A2 A4 2B






| Type | Width mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **DRL FAM 230 A2** | 230 | 1.50 | 3000 | 3 | 299.370 | **6051192** |
| **DRL FAM 330 A2** | 330 | 1.50 | 3000 | 3 | 417.140 | **6051194** |
| **DRL FAM 430 A2** | 430 | 1.50 | 3000 | 3 | 534.870 | **6051196** |
| **DRL FAM 530 A2** | 530 | 1.50 | 3000 | 3 | 652.640 | **6051198** |
| **DRL FAM 630 A2** | 630 | 1.50 | 3000 | 3 | 770.370 | **6051200** |
| **DRL FAM 230 A4** | 230 | 1.50 | 3000 | 3 | 299.370 | **6051210** |
| **DRL FAM 330 A4** | 330 | 1.50 | 3000 | 3 | 417.140 | **6051212** |
| **DRL FAM 430 A4** | 430 | 1.50 | 3000 | 3 | 534.870 | **6051214** |
| **DRL FAM 530 A4** | 530 | 1.50 | 3000 | 3 | 652.640 | **6051216** |
| **DRL FAM 630 A4** | 630 | 1.50 | 3000 | 3 | 770.370 | **6051218** |

Spacers must be ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.

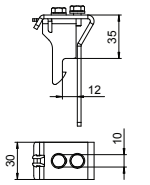
Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.

When using covers outdoors, additional measures against the influence of wind must be taken.

A2 2B

## Spacer for cover

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **AH 35 A2** | 35 | 8 | 14.100 | **6065475** |



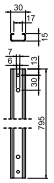



Spacers for stand-off cover mounting on cable trays and cable ladders. Space height 35 mm, stainless steel 1.4301.

St FS FT

## Rung C30, perforated

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **SPR C30 195 FS** | 3500 | 13.300 | **6009959** |
| **SPR C30 295 FS** | 2500 | 19.700 | **6009961** |
| **SPR C30 395 FS** | 2000 | 26.200 | **6009963** |
| **SPR C30 495 FS** | 1800 | 32.600 | **6009965** |
| **SPR C30 595 FS** | 1500 | 39.000 | **6009967** |
| **SPR C30 195 FT** | 3500 | 14.200 | **6009979** |
| **SPR C30 395 FT** | 2000 | 27.900 | **6009983** |
| **SPR C30 495 FT** | 1800 | 34.800 | **6009985** |
| **SPR C30 595 FT** | 1500 | 41.600 | **6009987** |

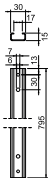




St FS

## Rung C30, unperforated

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **SPR C30 795 FS** | 1000 | 58.000 | **6009969** |
| **SPR C30 995 FS** | 1000 | 72.000 | **6009971** |







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# Vertical ladder systems

OBO vertical ladder systems for vertical routing of all kinds of cables. Available as light-duty vertical ladders with a side height of 45 mm, as a heavy-duty vertical ladder with U profiles and industrial vertical ladders with I profiles. Both the heavy-duty and industrial vertical ladders can be assembled in variable lengths.









## Installation principle




| | |
|---|---|
| 1 | Light-duty vertical ladder |
| 2 | Heavy-duty vertical ladder |
| 3 | Industrial vertical cable ladder |
| 4 | Cover with spacer |
| 5 | Rung seat with MS4022 rung |

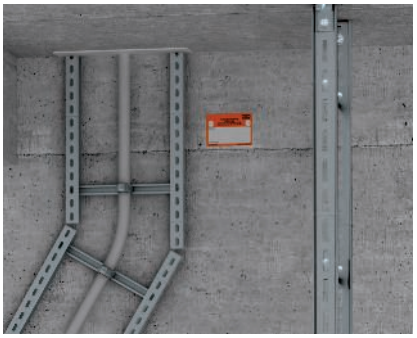


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# Mounting aid



**Wall mounting application**
Wall mounting of a vertical ladder with mounting angles.



**Change of direction application**
Implementation of a change of direction with heavy-duty vertical ladder, type SLM.



**Free-standing vertical ladder application**
Mounting example for free-standing industrial vertical ladders, type SLS, fastened to the ceiling and floor.



**Straight connection of vertical ladders**
Connection of vertical ladders, types LG and SSL 60, with connectors, type LVG.



**Angle connection of cable ladders**
Creation of flexible vertical ladder angles with angle connector, type LWVG.



**Adjustable connection of cable ladders**
Creation of flexible vertical ladder angles with adjustable connector, type LGVG.



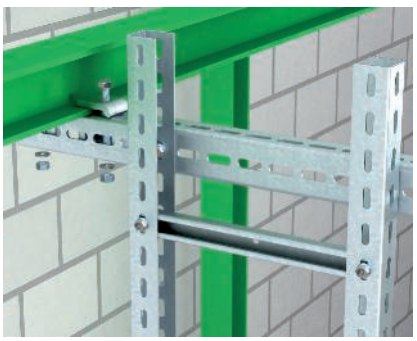
**Wall mounting, light-duty vertical ladder**
Wall mounting of light-duty vertical ladder, type SLL 45, with wall bracket, type WB 30/75.



**Direct wall mounting**
Direct fastening of the vertical ladders LG and SSL with anchor bolts on the wall.



**Wall mounting, heavy-duty vertical ladder**
Wall mounting of heavy-duty vertical ladder, type SLM 50, with mounting angle, type BW.



**Vertical ladder mounting on steel**
Installation of the heavy-duty vertical ladder, type SLM 50, with cantilever beam made of U profile, on a steel construction.



**Cable fastening with U clamp**
Fastening of cables to the rung with clamp clips.



**Fastening of industrial vertical ladder**
Wall mounting of industrial vertical ladder with mounting angle, type BW 80/55.



**Fastening of C profile rung**
Fastening of C profile rung, type CK 40, in industrial vertical ladders, type SLS 80.



**Fastening of angle rung**
Fastening of the angle rung, type WSK 40, in industrial vertical ladders, type SLS 80.



**Ceiling fastening**
Fastening of an industrial vertical ladder, type SLS 80, to the ceiling using mounting angle, type BW.

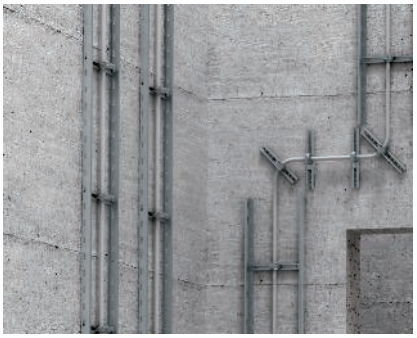


**Illustration of vertical shaft**
Illustration of complete vertical ladder mounting.



**Rung seat fixed to IS 8 support**
Fastening of the rung seat, type SA, with profile rail, type MS 4022, in I support.



**Rung seat in steel girder**
Direct fastening (clamping) of the rung seat, type SAA, with profile rail, type MS 4022, on steel girder.



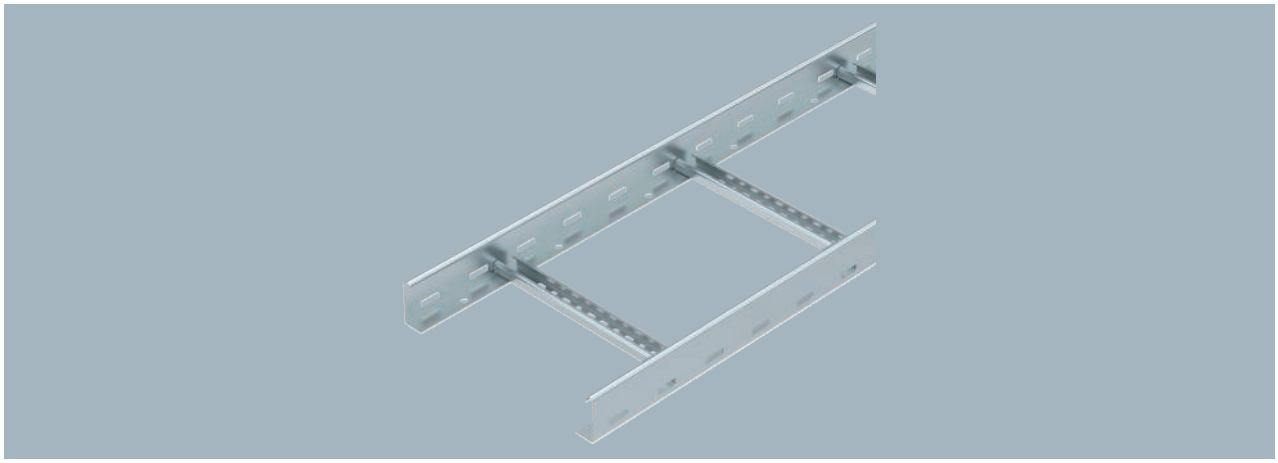
**Cover mounting, vertical**
Installation of the cover with spacer on a vertical ladder.



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## Cable ladder LG 60, 3 m VS

St FS FT



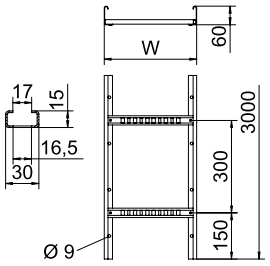
| Type | Width mm | BS | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **LG 620 VS 3 FS** | 200 | | 3 | 267.000 | **6208538** |
| **LG 630 VS 3 FS** | 300 | | 3 | 288.933 | **6208541** |
| **LG 640 VS 3 FS** | 400 | | 3 | 314.600 | **6208544** |
| **LG 650 VS 3 FS** | 500 | | 3 | 332.600 | **6208547** |
| **LG 660 VS 3 FS** | 600 | | 3 | 354.266 | **6208550** |
| **LG 620 VS 3 FT** | 200 | | 3 | 285.066 | **6208562** |
| **LG 630 VS 3 FT** | 300 | | 3 | 308.000 | **6208566** |
| **LG 640 VS 3 FT** | 400 | | 3 | 331.000 | **6208570** |
| **LG 650 VS 3 FT** | 500 | | 3 | 354.733 | **6208574** |
| **LG 660 VS 3 FT** | 600 | | 3 | 385.400 | **6208578** |

The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056. The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

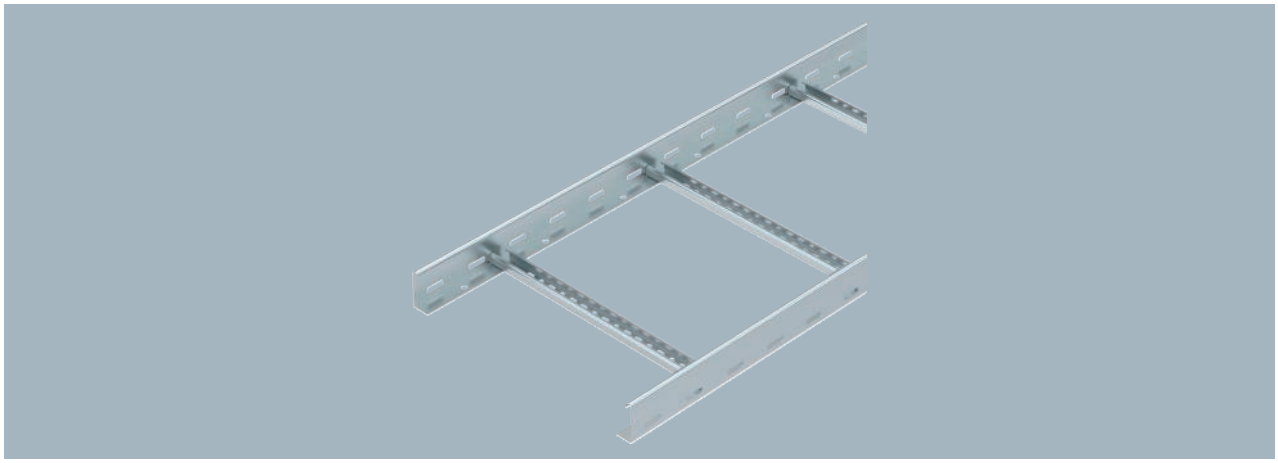
| Type | Length mm | Dim. B mm | Rail thickness mm | Usable cross-section $cm^2$ | Rung spacing mm |
|---|---|---|---|---|---|
| LG 620 VS 3 FS | 3000 | 200 | 1.5 | 98 | 300 |
| LG 630 VS 3 FS | 3000 | 300 | 1.5 | 148 | 300 |
| LG 640 VS 3 FS | 3000 | 400 | 1.5 | 198 | 300 |
| LG 650 VS 3 FS | 3000 | 500 | 1.5 | 248 | 300 |
| LG 660 VS 3 FS | 3000 | 600 | 1.5 | 298 | 300 |

**Dimensions**



St FS FT

## Cable ladder LG 60, 6 m VS

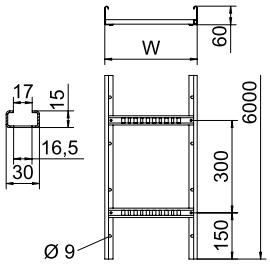


The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056. The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

| Type | Width mm | BS | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **LG 620 VS 6 FS** | 200 | | 6 | 267.066 | **6208627** |
| **LG 630 VS 6 FS** | 300 | | 6 | 288.733 | **6208630** |
| **LG 640 VS 6 FS** | 400 | | 6 | 314.400 | **6208633** |
| **LG 650 VS 6 FS** | 500 | | 6 | 332.400 | **6208636** |
| **LG 660 VS 6 FS** | 600 | | 6 | 354.066 | **6208639** |
| **LG 620 VS 6 FT** | 200 | | 6 | 284.833 | **6208650** |
| **LG 630 VS 6 FT** | 300 | | 6 | 307.833 | **6208653** |
| **LG 640 VS 6 FT** | 400 | | 6 | 330.833 | **6208656** |
| **LG 650 VS 6 FT** | 500 | | 6 | 354.500 | **6208659** |
| **LG 660 VS 6 FT** | 600 | | 6 | 385.166 | **6208661** |

### Dimensions



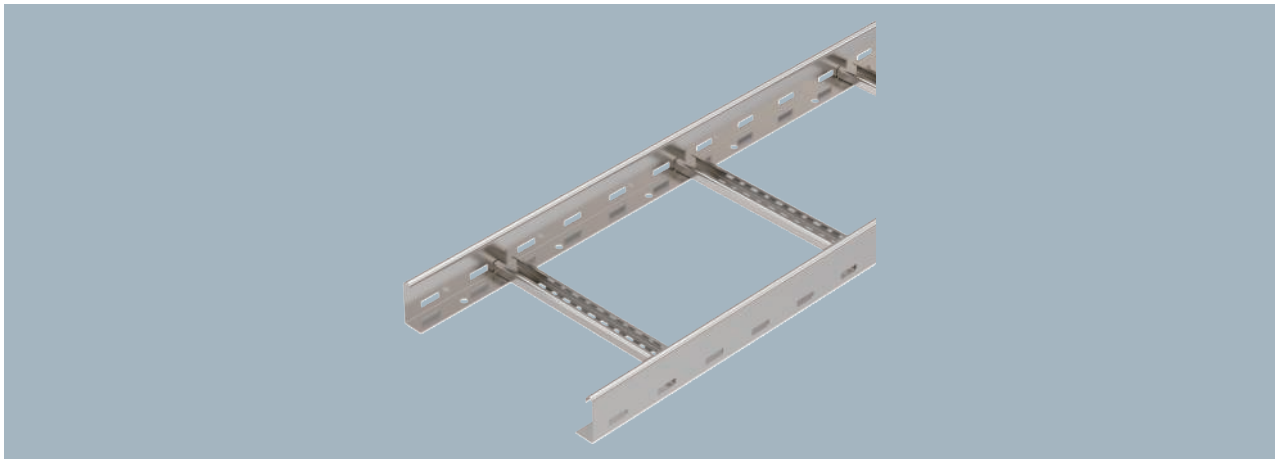

| Type | Length mm | Dim. B mm | Rail thickness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LG 620 VS 6 FS | 6000 | 200 | 1.5 | 98 | 300 |
| LG 630 VS 6 FS | 6000 | 300 | 1.5 | 148 | 300 |
| LG 640 VS 6 FS | 6000 | 400 | 1.5 | 198 | 300 |
| LG 650 VS 6 FS | 6000 | 500 | 1.5 | 248 | 300 |
| LG 660 VS 6 FS | 6000 | 600 | 1.5 | 298 | 300 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Cable ladder LG 60, 6 m VS

A2 A4 2B



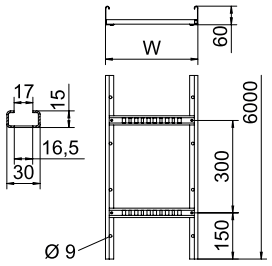
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **LG 620 VS6 A2** | 200 | 6 | 267.067 | **6208700** |
| **LG 630 VS6 A2** | 300 | 6 | 288.733 | **6208703** |
| **LG 640 VS6 A2** | 400 | 6 | 314.400 | **6208706** |
| **LG 650 VS6 A2** | 500 | 6 | 332.400 | **6208709** |
| **LG 660 VS6 A2** | 600 | 6 | 354.066 | **6208712** |
| **LG 620 VS6 A4** | 200 | 6 | 267.733 | **6101200** |
| **LG 630 VS6 A4** | 300 | 6 | 288.733 | **6101208** |
| **LG 640 VS6 A4** | 400 | 6 | 314.400 | **6101216** |
| **LG 650 VS6 A4** | 500 | 6 | 341.666 | **6101223** |
| **LG 660 VS6 A4** | 600 | 6 | 354.000 | **6101232** |

The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

| Type | Length mm | Dim. B mm | Rail thickness mm | Usable cross-section cm² | Rung spacing mm |
|---|---|---|---|---|---|
| LG 620 VS6 A2 | 6000 | 200 | 1.5 | 98 | 300 |
| LG 630 VS6 A2 | 6000 | 300 | 1.5 | 148 | 300 |
| LG 640 VS6 A2 | 6000 | 400 | 1.5 | 198 | 300 |
| LG 650 VS6 A2 | 6000 | 500 | 1.5 | 248 | 300 |
| LG 660 VS6 A2 | 6000 | 600 | 1.5 | 298 | 300 |

**Dimensions**

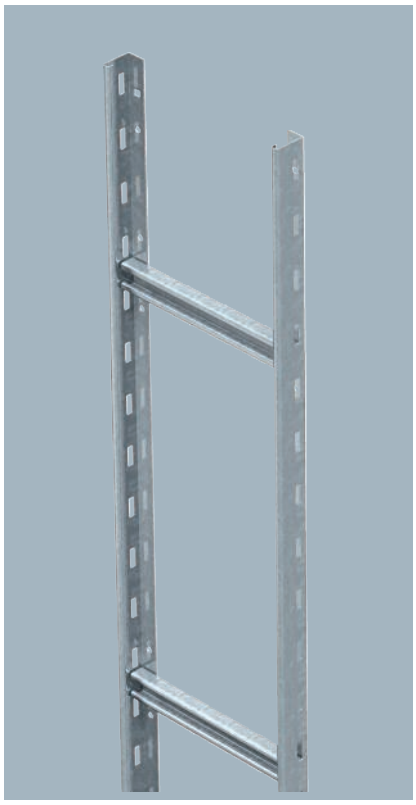


St FS

45

## SLL 45 medium-duty vertical ladder, 3 m

| Type | Width mm | Length mm | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SLL 45 30 CP FS** | 300 | 3000 | 324.333 | **6011908** |

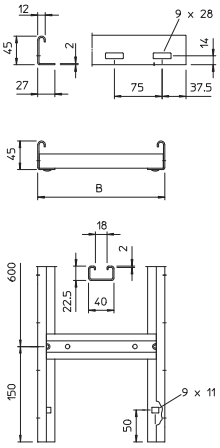


Vertical ladder with a side height of 45 mm with riveted C profile rungs, open in upwards direction. DIN VDE 0100-520 must be taken into account when routing cables.

The appropriate clamp clip is type 2056U.

| Type | Length mm | Dim. B mm | Rung spacing mm |
|---|---|---|---|
| SLL 45 30 CP FS | 3000 | 300 | 600 |

**Dimensions**

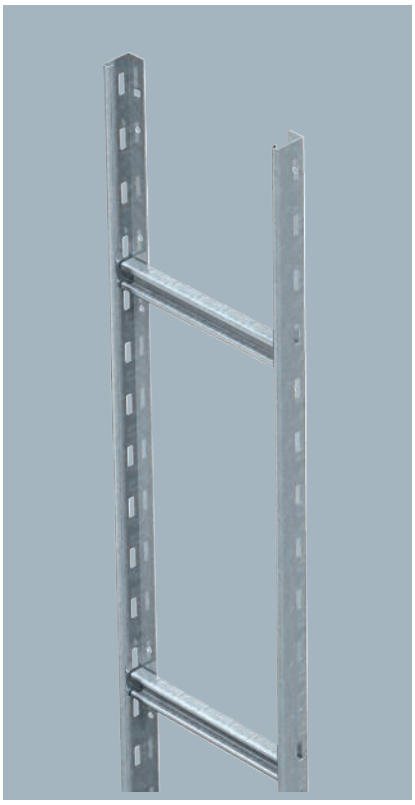





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## SLL 45 medium-duty vertical ladder, 6 m

St FS

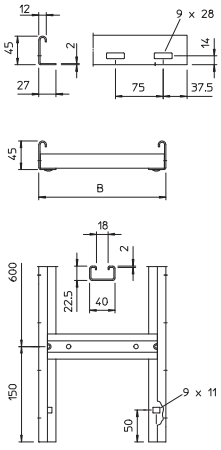


| Type | Width mm | Length mm | | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SLL 45 50 CP FS** | 500 | 6000 | | 376.667 | **6011959** |

Vertical ladder with a side height of 45 mm with riveted C profile rungs, open in upwards direction. DIN VDE 0100-520 must be taken into account when routing cables.

The appropriate clamp clip is type 2056U.

### Dimensions



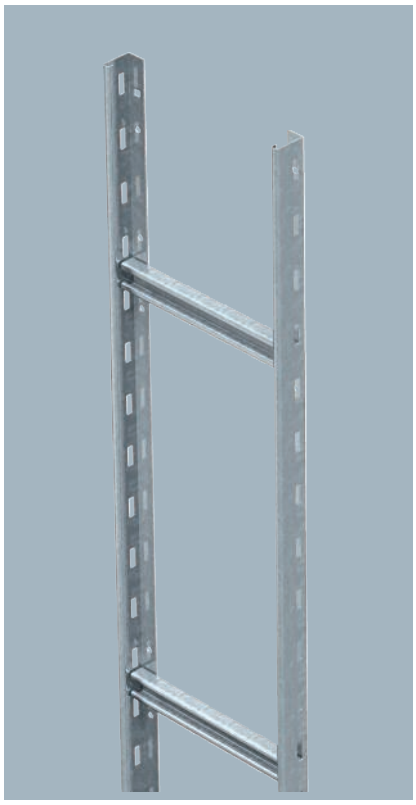

| Type | Length mm | Dim. B mm | Rung spacing mm |
|---|---|---|---|
| SLL 45 50 CP FS | 6000 | 500 | 600 |

St FS

60

## SLL 60 medium-duty vertical ladder, 6 m

| Type | Width mm | Rail thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SLL 620 CPS 4 FS** | 200 | 1.5 | | 6 | 274.600 | **6010620** |
| **SLL 630 CPS 4 FS** | 300 | 1.5 | | 6 | 300.767 | **6010622** |
| **SLL 640 CPS 4 FS** | 400 | 1.5 | | 6 | 326.933 | **6010624** |
| **SLL 650 CPS 4 FS** | 500 | 1.5 | | 6 | 353.267 | **6010626** |
| **SLL 660 CPS 4 FS** | 600 | 1.5 | | 6 | 379.433 | **6010628** |

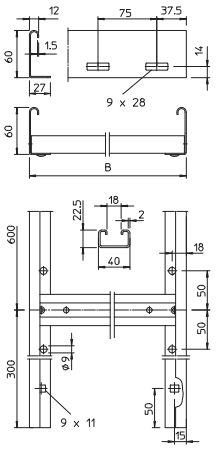


Vertical ladder with a side height of 60 mm with riveted C profile rungs, open in upwards direction.

Fastening takes place directly on the wall or using the wall brackets, type WB 30/75. The slot dimension of the rung is 18 mm and the appropriate clamp clip is type 2056U.

| Type | Length mm | Rung spacing mm |
|---|---|---|
| SLL 620 CPS 4 FS | 6000 | 600 |
| SLL 630 CPS 4 FS | 6000 | 600 |
| SLL 640 CPS 4 FS | 6000 | 600 |
| SLL 650 CPS 4 FS | 6000 | 600 |
| SLL 660 CPS 4 FS | 6000 | 600 |

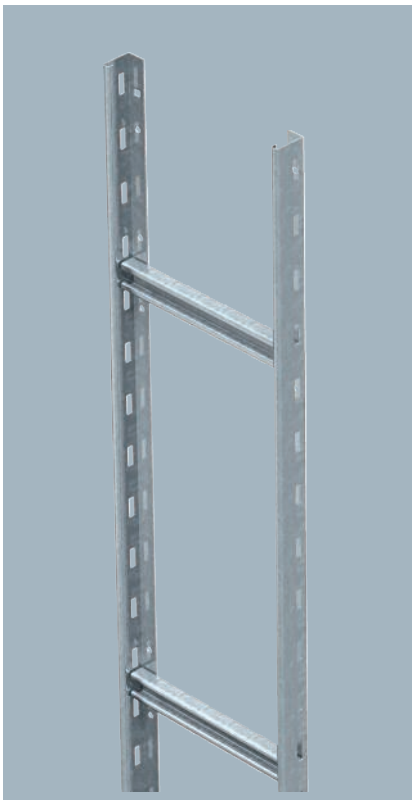
**Dimensions**






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## SLL 60 medium-duty vertical ladder, 6 m

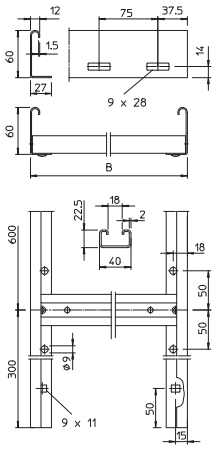


| Type | Width mm | Rail thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SLL 620 CPS 4 FT** | 200 | 1.5 | | 6 | 291.933 | **6010630** |
| **SLL 630 CPS 4 FT** | 300 | 1.5 | | 6 | 319.433 | **6010632** |
| **SLL 640 CPS 4 FT** | 400 | 1.5 | | 6 | 346.933 | **6010634** |
| **SLL 650 CPS 4 FT** | 500 | 1.5 | | 6 | 374.600 | **6010636** |
| **SLL 660 CPS 4 FT** | 600 | 1.5 | | 6 | 401.933 | **6010638** |

Vertical ladder with a side height of 60 mm with riveted C profile rungs, open in upwards direction.

Fastening takes place directly on the wall or using the wall brackets, type WB 30/75. The slot dimension of the rung is 18 mm and the appropriate clamp clip is type 2056U.

### Dimensions



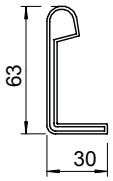

| Type | Length mm | Dim. B mm | Rung spacing mm |
|---|---|---|---|
| SLL 620 CPS 4 FT | 6000 | 200 | 600 |
| SLL 630 CPS 4 FT | 6000 | 300 | 600 |
| SLL 640 CPS 4 FT | 6000 | 400 | 600 |
| SLL 650 CPS 4 FT | 6000 | 500 | 600 |
| SLL 660 CPS 4 FT | 6000 | 600 | 600 |

PE

## Protective cap 60

| Type | Colour | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|---|
| SKH 60 OR | Pastel orange | 40 | 1.072 | 6222537 |

Protective cap to cover cable ladder ends of side height 60 mm.





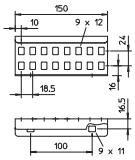

St FS FT

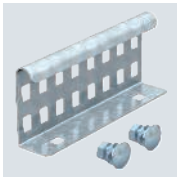
## Straight connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LVG 60 FS | 60 | 10 | 22.000 | 6208840 |
| LVG 60 FT | 60 | 10 | 23.000 | 6208843 |

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.



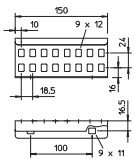
A2 A4 2B

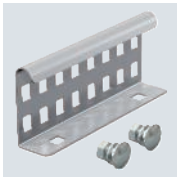
## Straight connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LVG 60 A2 | 60 | 10 | 22.000 | 6208846 |
| LVG 60 A4 | 60 | 10 | 20.000 | 6208835 |

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.



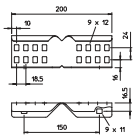
St FS

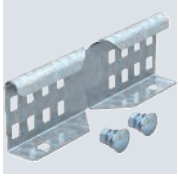
## Angle connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LWVG 60 FS | 60 | 10 | 24.000 | 6208895 |

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.



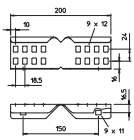
A2 A4 2B

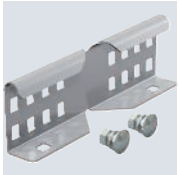
## Angle connector 60

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LWVG 60 A2 | 60 | 10 | 24.000 | 6208898 |
| LWVG 60 A4 | 60 | 10 | 24.256 | 6208891 |

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.



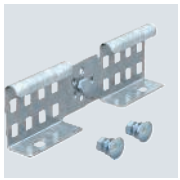



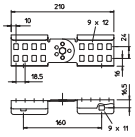


Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Adjustable connector 60

St FS FT





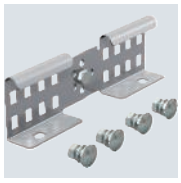
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LGVG 60 FS | 60 | 10 | 28.500 | 6208941 |
| LGVG 60 FT | 60 | 10 | 29.900 | 6208944 |

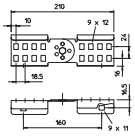
Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.

## Adjustable connector 60

A2 A4 2B





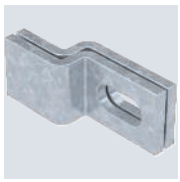
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| LGVG 60 A2 | 60 | 10 | 28.500 | 6208947 |
| LGVG 60 A4 | 60 | 10 | 28.500 | 6208932 |

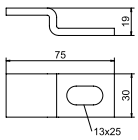
Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.

## Wall bracket

St FT





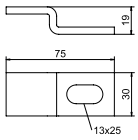

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| WB 30 75 FT | 10 | 18.100 | 6019617 |

Wall bracket for the fastening of light-weight vertical ladders type SLL, to concrete walls and masonry.

## Wall bracket

A2 2B



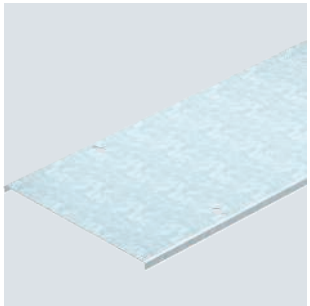


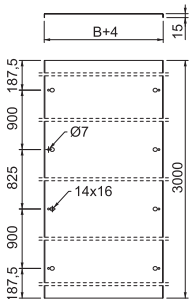

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| WB 30 75 A2 | 10 | 18.000 | 6019668 |

Wall bracket for the fastening of light-weight vertical ladders type SLL, to concrete walls and masonry.

## Cover for stand-off mounting

St FT






| Type | Width mm | Metal thickness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| DRL FAM 230 FT | 230 | 1.50 | 3000 | 3 | 319.240 | 6051222 |
| DRL FAM 330 FT | 330 | 1.50 | 3000 | 3 | 444.800 | 6051224 |
| DRL FAM 430 FT | 430 | 1.50 | 3000 | 3 | 570.370 | 6051226 |
| DRL FAM 530 FT | 530 | 1.50 | 3000 | 3 | 695.900 | 6051228 |
| DRL FAM 630 FT | 630 | 1.50 | 3000 | 3 | 821.470 | 6051230 |

Spacers must ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.

Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.

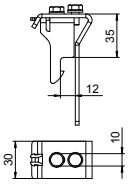
When using covers outdoors, additional measures against the influence of wind must be taken.

A2 2B

## Spacer for cover

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **AH 35 A2** | 35 | 8 | 14.100 | **6065475** |

Spacers for stand-off cover mounting on cable trays and cable ladders. Space height 35 mm, stainless steel 1.4301.



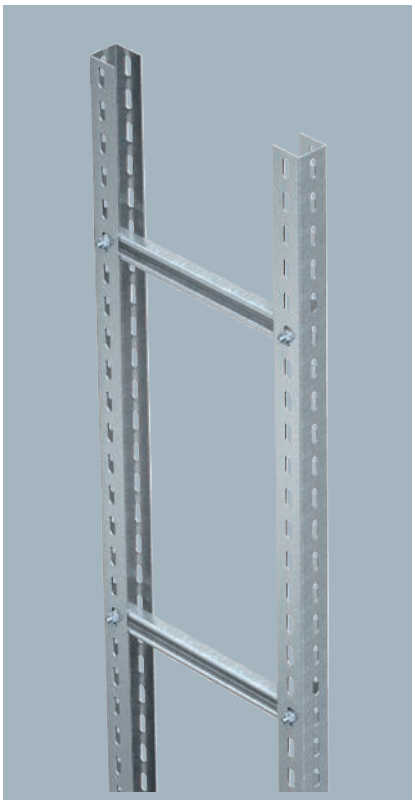





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## Heavy-duty vertical cable ladder SLM 50, 3 m C40

St FT

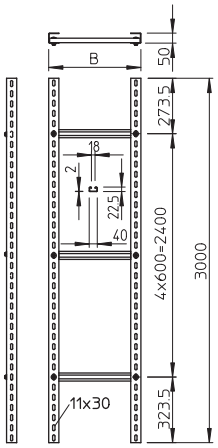


| Type | Width mm | Rail thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **SLM 50 C40 2 FT** | 200 | 2.5 | | 3 | 572.500 | **6010466** |
| **SLM 50 C40 3 FT** | 300 | 2.5 | | 3 | 600.167 | **6010474** |
| **SLM 50 C40 4 FT** | 400 | 2.5 | | 3 | 627.833 | **6010482** |
| **SLM 50 C40 5 FT** | 500 | 2.5 | | 3 | 655.333 | **6010490** |
| **SLM 50 C40 6 FT** | 600 | 2.5 | | 3 | 683.000 | **6010504** |
| **SLM 50 C40 7 FT** | 700 | 2.5 | | 3 | 710.667 | **6010512** |
| **SLM 50 C40 8 FT** | 800 | 2.5 | | 3 | 738.167 | **6010520** |
| **SLM 50 C40 9 FT** | 900 | 2.5 | | 3 | 765.833 | **6010539** |
| **SLM 50 C40 10 FT** | 1000 | 2.5 | | 3 | 793.500 | **6010547** |
| **SLM 50 C40 11 FT** | 1100 | 2.5 | | 3 | 821.000 | **6010555** |
| **SLM 50 C40 12 FT** | 1200 | 2.5 | | 3 | 848.667 | **6010563** |

The vertical ladder with a 50 mm side height is shipped in an unmounted state and must be screwed together on the construction site.

The appropriate clamp clip for the C profile rung is type 2056U.

### Dimensions




| Type | Length mm | Dim. B mm | Rung spacing mm |
|---|---|---|---|
| SLM 50 C40 2 FT | 3000 | 200 | 600 |
| SLM 50 C40 3 FT | 3000 | 300 | 600 |
| SLM 50 C40 4 FT | 3000 | 400 | 600 |
| SLM 50 C40 5 FT | 3000 | 500 | 600 |
| SLM 50 C40 6 FT | 3000 | 600 | 600 |
| SLM 50 C40 7 FT | 3000 | 700 | 600 |
| SLM 50 C40 8 FT | 3000 | 800 | 600 |
| SLM 50 C40 9 FT | 3000 | 900 | 600 |
| SLM 50 C40 10 FT | 3000 | 1000 | 600 |
| SLM 50 C40 11 FT | 3000 | 1100 | 600 |
| SLM 50 C40 12 FT | 3000 | 1200 | 600 |

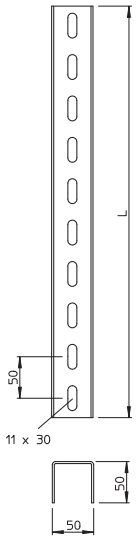
St FT

## US 5 support

| Type | Length mm | Material thickness mm | BS | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **US 5 20 FT** | 200 | 2.5 | | 1 | 51.000 | **6340881** |
| **US 5 30 FT** | 300 | 2.5 | | 1 | 79.000 | **6340903** |
| **US 5 40 FT** | 400 | 2.5 | | 1 | 106.000 | **6340911** |
| **US 5 50 FT** | 500 | 2.5 | | 1 | 133.000 | **6340938** |
| **US 5 60 FT** | 600 | 2.5 | | 1 | 160.000 | **6340946** |
| **US 5 70 FT** | 700 | 2.5 | | 1 | 175.000 | **6340950** |
| **US 5 80 FT** | 800 | 2.5 | | 1 | 200.000 | **6340954** |
| **US 5 90 FT** | 900 | 2.5 | | 1 | 227.000 | **6340958** |
| **US 5 100 FT** | 1000 | 2.5 | | 1 | 265.000 | **6340962** |
| **US 5 110 FT** | 1100 | 2.5 | | 1 | 278.000 | **6340964** |
| **US 5 150 FT** | 1500 | 2.5 | | 1 | 395.000 | **6340966** |
| **US 5 200 FT** | 2000 | 2.5 | | 1 | 506.000 | **6340970** |
| **US 5 300 FT** | 3000 | 2.5 | | 1 | 795.000 | **6340989** |
| **US 5 600 FT** | 6000 | 2.5 | | 1 | 1,578.000 | **6340997** |

U support in fixed lengths. Dimensions 50 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.





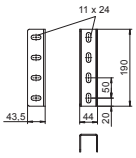

St FT

## VUS 5 U support connector

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **VUS 5 FT** | 10 | 61.000 | **6018505** |

U support connector to connect US 5 supports.

Including appropriate fastening material.



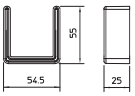



PE

## Protective cap

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **US 5 KS OR** | Pastel orange | 20 | 1.300 | **6338462** |

Protective cap to cover the ends of US 5 supports.



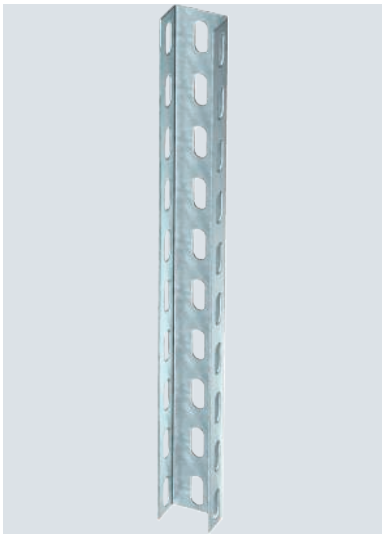


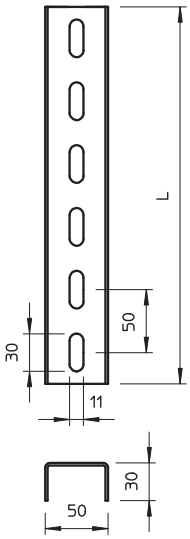



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## US 3 support

St FT





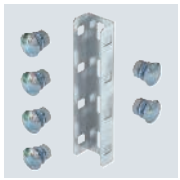

| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **US 3 600 FT** | 6000 | 2 | 1 | 834.000 | **6342450** |

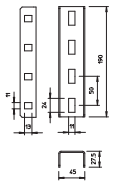
U support in fixed lengths. Dimensions 30 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

## VUS 3 U support connector

St FT





| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **VUS 3 FT** | 10 | 48.300 | **6018513** |

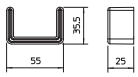
U support connector to connect US 3 supports.

Including appropriate fastening material.

## Protective cap

PE





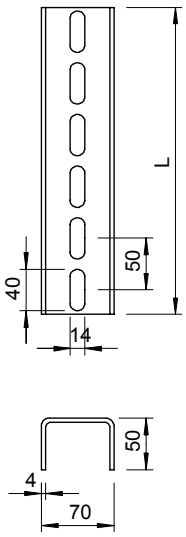

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **US 3 KS OR** | Pastel orange | 20 | 1.068 | **6338458** |

Protective cap to cover the ends of US 3 supports.

St FT

## US 7 support

| Type | Length mm | Material thickness mm | BS | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| US 7 20 FT | 200 | 4 | | 1 | 81.000 | 6340016 |
| US 7 30 FT | 300 | 4 | | 1 | 121.000 | 6340032 |
| US 7 40 FT | 400 | 4 | | 1 | 160.700 | 6340059 |
| US 7 50 FT | 500 | 4 | | 1 | 200.900 | 6340075 |
| US 7 60 FT | 600 | 4 | | 1 | 241.100 | 6340091 |
| US 7 70 FT | 700 | 4 | | 1 | 281.300 | 6340113 |
| US 7 80 FT | 800 | 4 | | 1 | 323.000 | 6340148 |
| US 7 100 FT | 1000 | 4 | | 1 | 416.000 | 6340180 |
| US 7 120 FT | 1200 | 4 | | 1 | 484.000 | 6340202 |
| US 7 130 FT | 1300 | 4 | | 1 | 540.000 | 6340210 |
| US 7 140 FT | 1400 | 4 | | 1 | 580.000 | 6340229 |
| US 7 150 FT | 1500 | 4 | | 1 | 620.000 | 6340237 |
| US 7 160 FT | 1600 | 4 | | 1 | 660.000 | 6340245 |
| US 7 170 FT | 1700 | 4 | | 1 | 686.000 | 6340253 |
| US 7 180 FT | 1800 | 4 | | 1 | 750.000 | 6340261 |
| US 7 190 FT | 1900 | 4 | | 1 | 790.000 | 6340288 |
| US 7 200 FT | 2000 | 4 | | 1 | 803.700 | 6340296 |
| US 7 250 FT | 2500 | 4 | | 1 | 1,009.000 | 6340385 |
| US 7 300 FT | 3000 | 4 | | 1 | 1,250.000 | 6340377 |
| US 7 400 FT | 4000 | 4 | | 1 | 1,660.000 | 6340393 |
| US 7 600 FT | 6000 | 4 | | 1 | 2,490.000 | 6340318 |



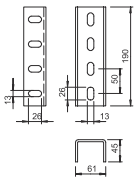


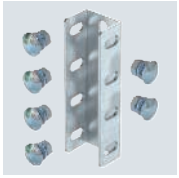

U support in fixed lengths. Dimensions 70 x 50 mm.
For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

St FT

## VUS 7 U support connector

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| VUS 7 FT | 10 | 112.800 | 6018378 |



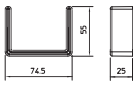


U support connector to connect US 7 supports.
Including appropriate fastening material.

PE

## End cap

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| US 7 KS OR | Pastel orange | 20 | 1.806 | 6338497 |






Protective cap to cover the ends of US 7 supports.

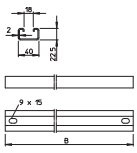


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## MS4022 profile rail, heavy-duty, slot 18 mm

St FT



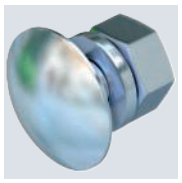


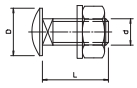
| Type | Material thickness mm | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **MS4022P0192FT** | 2 | 192 | 1 | 31.800 | **6007201** |
| **MS4022P0292FT** | 2 | 292 | 1 | 44.700 | **6007228** |
| **MS4022P0392FT** | 2 | 392 | 1 | 60.100 | **6007236** |
| **MS4022P0492FT** | 2 | 492 | 1 | 81.500 | **6007244** |
| **MS4022P0592FT** | 2 | 592 | 1 | 96.000 | **6007252** |
| **MS4022P0692FT** | 2 | 692 | 1 | 113.000 | **6007260** |
| **MS4022P0792FT** | 2 | 792 | 1 | 130.000 | **6007279** |
| **MS4022P0892FT** | 2 | 892 | 1 | 145.000 | **6007287** |
| **MS4022P0992FT** | 2 | 992 | 1 | 162.000 | **6007295** |
| **MS4022P1092FT** | 2 | 1092 | 1 | 178.000 | **6007309** |
| **MS4022P1192FT** | 2 | 1192 | 1 | 197.500 | **6007317** |

MS4022 profile rail for use as rung in heavy-duty ladders.

## Truss-head bolt with nut and washer

St F



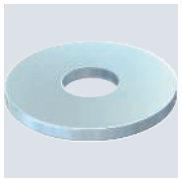


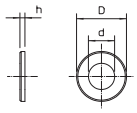
| Type | Dimension mm | Dim. L mm | Dim. d mm | Dim. D mm | Resistance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **FRS 8x16 F 8.8** | M 8 x 16 | 16 | 8 | 20 | 8.8 | 50 | 1.947 | **6406963** |
| **FRS 8x25 F** | M 8 x 25 | 25 | 8 | 20 | 8.8 | 50 | 2.217 | **6406998** |
| **FRS 8x35 F** | M 8 x 35 | 35 | 8 | 20 | 5.6 | 50 | 2.431 | **6407048** |

Truss-head bolt with square neck. With washer and hexagonal nut.
The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

## Large washer

St F





| Type | Thread | Dim. d mm | Dim. D mm | Dim. h mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **DIN440 9 F** | M8 | 9 | 28 | 3 | 100 | 1.057 | **6408710** |

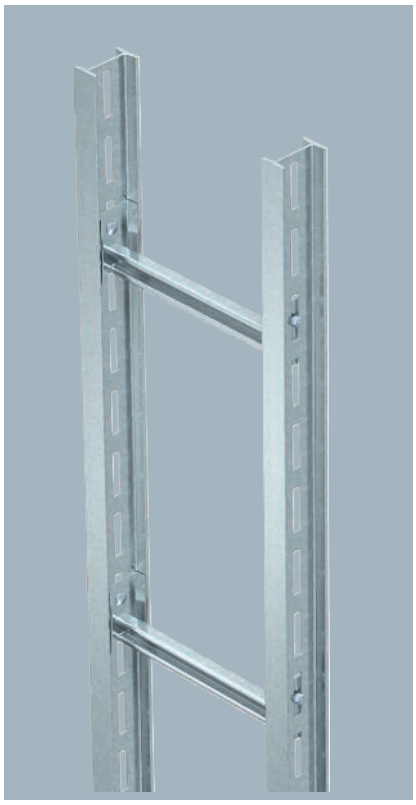
Washer of particularly large outer diameter.

St FT

IS8

## Industrial vertical cable ladder, 6 m C40

| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SLS 80 C40 2 FT** | 200 | 6 | 1,277.167 | **6013384** |
| **SLS 80 C40 3 FT** | 300 | 6 | 1,304.833 | **6013392** |
| **SLS 80 C40 4 FT** | 400 | 6 | 1,286.667 | **6013406** |
| **SLS 80 C40 5 FT** | 500 | 6 | 1,360.000 | **6013414** |
| **SLS 80 C40 6 FT** | 600 | 6 | 1,387.667 | **6013422** |
| **SLS 80 C40 7 FT** | 700 | 6 | 1,415.333 | **6013430** |
| **SLS 80 C40 8 FT** | 800 | 6 | 1,443.000 | **6013449** |
| **SLS 80 C40 9 FT** | 900 | 6 | 1,470.667 | **6013457** |
| **SLS 80 C40 10 FT** | 1000 | 6 | 1,498.167 | **6013465** |
| **SLS 80 C40 11 FT** | 1100 | 6 | 1,525.833 | **6013473** |
| **SLS 80 C40 12 FT** | 1200 | 6 | 1,553.333 | **6013481** |

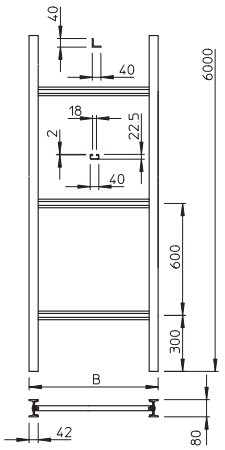


Vertical ladder of side height 80 mm with screwed-in rungs.

The vertical ladder is shipped in an unmounted state.
The appropriate clamp clip is type 2056U.

| Type | Length mm | Dim. B mm | Rung spacing mm |
|---|---|---|---|
| SLS 80 C40 2 FT | 6000 | 200 | 600 |
| SLS 80 C40 3 FT | 6000 | 300 | 600 |
| SLS 80 C40 4 FT | 6000 | 400 | 600 |
| SLS 80 C40 5 FT | 6000 | 500 | 600 |
| SLS 80 C40 6 FT | 6000 | 600 | 600 |
| SLS 80 C40 7 FT | 6000 | 700 | 600 |
| SLS 80 C40 8 FT | 6000 | 800 | 600 |
| SLS 80 C40 9 FT | 6000 | 900 | 600 |
| SLS 80 C40 10 FT | 6000 | 1000 | 600 |
| SLS 80 C40 11 FT | 6000 | 1100 | 600 |
| SLS 80 C40 12 FT | 6000 | 1200 | 600 |

**Dimensions**

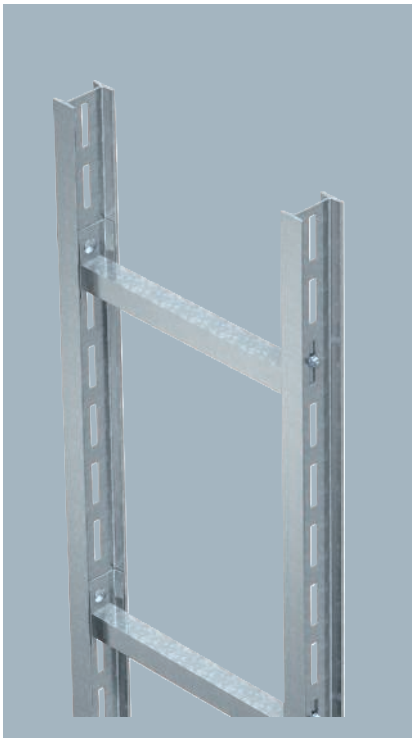





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## Industrial vertical cable ladder, 6 m W40

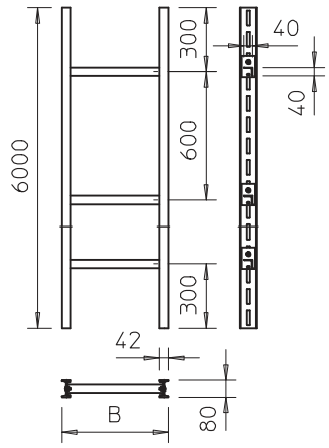
St FT



| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **SLS 80 W40 4 FT** | 400 | 6 | 1,373.500 | **6013848** |
| **SLS 80 W40 5 FT** | 500 | 6 | 1,414.833 | **6013856** |
| **SLS 80 W40 6 FT** | 600 | 6 | 1,454.000 | **6013864** |
| **SLS 80 W40 7 FT** | 700 | 6 | 1,494.833 | **6013872** |
| **SLS 80 W40 8 FT** | 800 | 6 | 1,536.667 | **6013880** |
| **SLS 80 W40 9 FT** | 900 | 6 | 1,586.000 | **6013899** |
| **SLS 80 W40 10 FT** | 1000 | 6 | 1,627.167 | **6013902** |

The vertical ladder is shipped in an unmounted state.
The appropriate U clamp is type 2056W.
Vertical ladder of side height 80 mm with screwed-in rungs.

### Dimensions

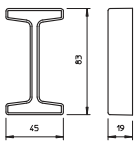



| Type | Length mm | Dim. B mm | Rung spacing mm |
|---|---|---|---|
| SLS 80 W40 4 FT | 6000 | 400 | 600 |
| SLS 80 W40 5 FT | 6000 | 500 | 600 |
| SLS 80 W40 6 FT | 6000 | 600 | 600 |
| SLS 80 W40 7 FT | 6000 | 700 | 600 |
| SLS 80 W40 8 FT | 6000 | 800 | 600 |
| SLS 80 W40 9 FT | 6000 | 900 | 600 |
| SLS 80 W40 10 FT | 6000 | 1000 | 600 |

## End cap

PE






| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **IS 8 KS OR** | Pastel orange | 20 | 0.705 | **6338519** |

End cap to cover the ends of IS 8 supports.

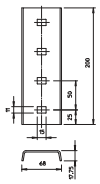
St FT

IS8

## VIS 8 I support connector

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| VIS 8 FT | | 10 | 87.000 | 6018300 |

I support connector to connect IS 8 supports.
Including appropriate fastening material.



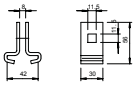


St FT

## Support claw

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| TGK 30 42 FT | | 10 | 17.000 | 6018963 |

The support claw can also be used in conjunction with the heavy-duty ladder, type SLS 80.
Support claw with truss-head bolt, type FRS M10 x 25 for mounting on the IS 8 support.



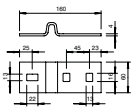


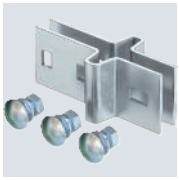
St FT

## Support strap

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| AHIS 8 FT | | 10 | 89.900 | 6019064 |

Including appropriate fastening material.
Support strap for right-angled connection of I supports.



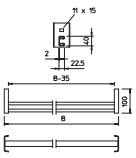


St FT

## Rung CK 40

| Type | Width mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| CK 40 20 FT | 154 | | 1 | 62.300 | 6008224 |
| CK 40 30 FT | 254 | | 1 | 95.500 | 6008232 |
| CK 40 40 FT | 354 | | 1 | 95.500 | 6008240 |
| CK 40 50 FT | 454 | | 1 | 112.000 | 6008259 |
| CK 40 60 FT | 554 | | 1 | 128.600 | 6008267 |
| CK 40 70 FT | 654 | | 1 | 145.200 | 6008275 |
| CK 40 80 FT | 754 | | 1 | 162.000 | 6008283 |
| CK 40 90 FT | 854 | | 1 | 178.400 | 6008291 |
| CK 40 100 FT | 954 | | 1 | 194.900 | 6008305 |
| CK 40 110 FT | 1054 | | 1 | 211.500 | 6008313 |
| CK 40 120 FT | 1154 | | 1 | 228.000 | 6008321 |

The maximum rung load is 175 kg.
CK40 rung for use in heavy-duty vertical ladders and in IS 8 supports.



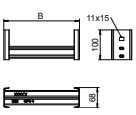


St FT

## Rung CKD 40

| Type | Width mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| CKD 40 60 FT | 554 | | 1 | 211.000 | 6008269 |
| CKD 40 70 FT | 654 | | 1 | 243.000 | 6008277 |
| CKD 40 80 FT | 754 | | 1 | 275.000 | 6008285 |
| CKD 40 90 FT | 854 | | 1 | 307.000 | 6008293 |

The maximum rung load is 175 kg.
CKD40 rung for use in heavy-duty vertical ladders and in IS 8 supports.







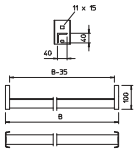
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# Industrial vertical cable ladders

## Rung WSK 40

St FT





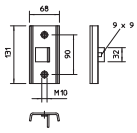
| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WSK 40 40 FT** | 354 | 1 | 122.000 | **6008046** |
| **WSK 40 50 FT** | 454 | 1 | 147.000 | **6008054** |
| **WSK 40 60 FT** | 554 | 1 | 172.000 | **6008062** |
| **WSK 40 70 FT** | 654 | 1 | 197.000 | **6008070** |
| **WSK 40 80 FT** | 754 | 1 | 222.000 | **6008089** |
| **WSK 40 90 FT** | 854 | 1 | 245.000 | **6008097** |
| **WSK 40 100 FT** | 954 | 1 | 272.000 | **6008100** |

The maximum rung load is 250 kg.
Angle profile rungs for use in heavy-duty vertical ladders and in IS 8 supports.

## Rung seat

St FT





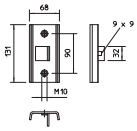
| Type | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|
| **SA MS4022 FT** | 5 | 84.000 | **6007496** |

The set consists of two rung seats, two hexagonal bolts M8 x 16 mm and four hexagonal bolts M10 x 25 mm.
Rung seat for fastening rungs of type MS4022 to IS 8 supports.

## Rung seat for steel supports

St FT





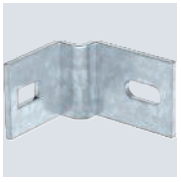
| Type | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|
| **SAA MS4022 FT** | 5 | 82.600 | **6007498** |

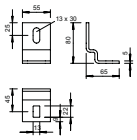
The set consists of two rung seats, two hexagonal bolts M8 x 16 mm and four hexagonal bolts with an M10 x 30 application tip.
Rung seat for fastening rungs of type MS4022 to steel girders.

# System accessories

## Mounting angle BW 80

St FT





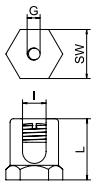
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **BW 80 55 FT** | 10 | 32.900 | **6019528** |

The mounting angle can also be used in conjunction with the heavy-duty vertical ladder, type SLS 80. Including fastening bolt M12x30.
Mounting angle for mounting IS 8 supports on the wall.

## Earthing terminal with fastening thread

CuZn 37



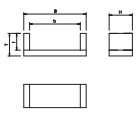


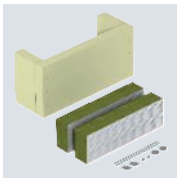
| Type | Dim. L mm | Dim. l mm | Cross-section mm² | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **EKL 25 M8** | 26 | 10 | 50 | M8 | 50 | 3.970 | **6404001** |

Earthing terminal for fastening the equipotential bonding wire to the cable support system.
Suitable for conductor cross sections of 4–50 mm².

## Strain relief, three-sided, with mineral wool, interior height 115 mm

| Type | Dim. b mm | Dim. t mm | Dim. H mm | Dim. B mm | Dim. T mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **ZSE90-25-11** | 250 | 115 | 140 | 340 | 160 | 1 | 376.000 | **7215702** |
| **ZSE90-35-11** | 350 | 115 | 140 | 440 | 160 | 1 | 466.000 | **7215706** |
| **ZSE90-45-11** | 450 | 115 | 140 | 540 | 160 | 1 | 506.000 | **7215709** |

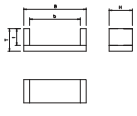


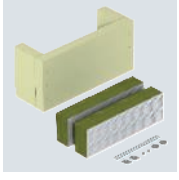


Strain relief as an effective support measure for vertical cable routing, according to DIN 4102 Part 12, approved for all cable types and all vertical routing systems. Maintenance of electrical function classes E30 to E90. Housing including mineral fibre panels, fastening material, ASX fire protection coating in cartridge and identification plate.

## Strain relief, three-sided, with mineral wool, interior height 175 mm

| Type | Dim. b mm | Dim. t mm | Dim. H mm | Dim. B mm | Dim. T mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **ZSE90-25-17** | 250 | 175 | 160 | 340 | 220 | 1 | 484.000 | **7215713** |
| **ZSE90-35-17** | 350 | 175 | 160 | 440 | 220 | 1 | 600.000 | **7215716** |
| **ZSE90-45-17** | 450 | 175 | 160 | 540 | 220 | 1 | 700.000 | **7215719** |
| **ZSE90-55-17** | 550 | 175 | 160 | 640 | 220 | 1 | 770.000 | **7215726** |
| **ZSE90-65-17** | 650 | 175 | 160 | 740 | 220 | 1 | 822.000 | **7215730** |

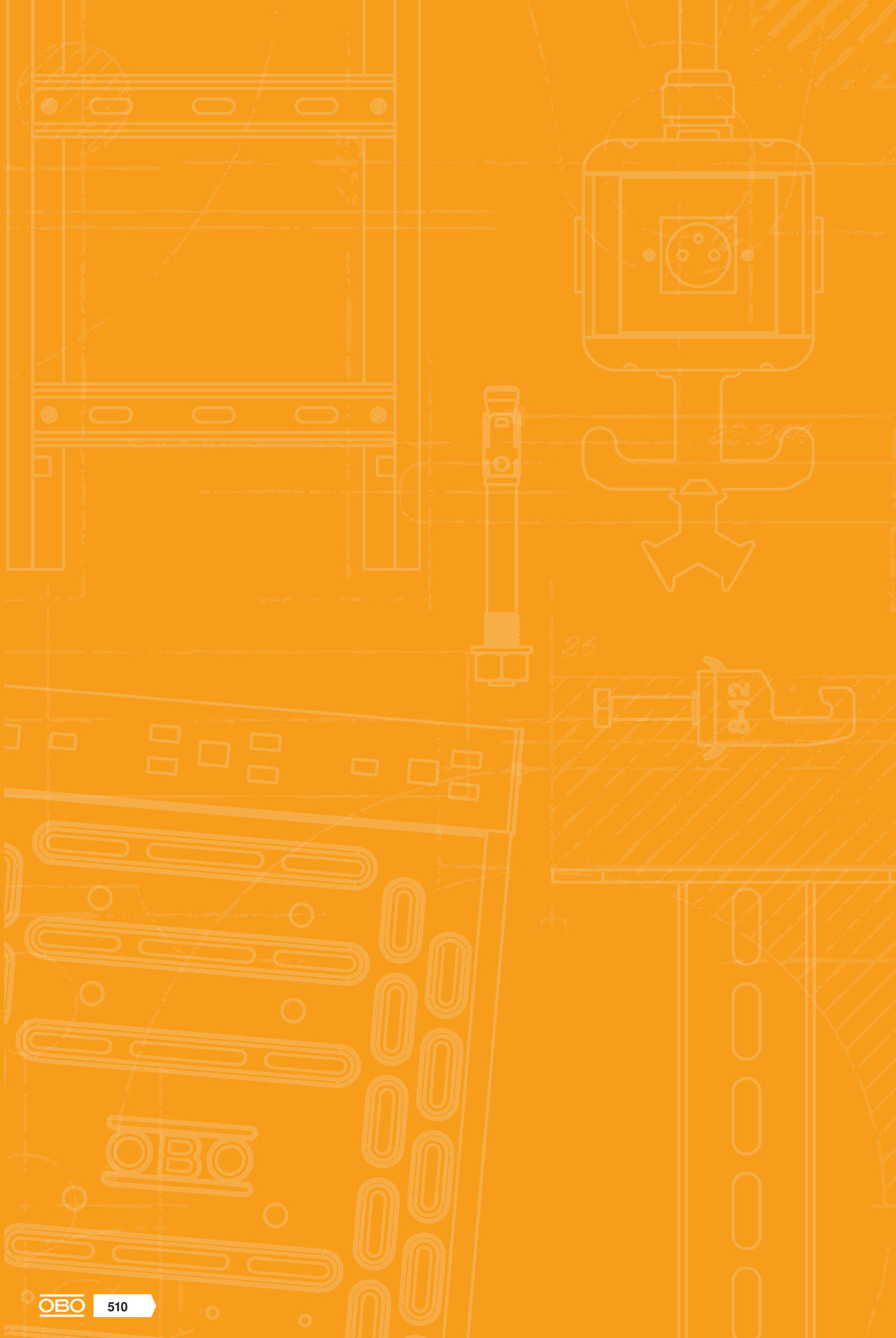




Strain relief as an effective support measure for vertical cable routing, according to DIN 4102 Part 12, approved for all cable types and all vertical routing systems. Maintenance of electrical function classes E30 to E90. Housing including mineral fibre panels, fastening material, ASX fire protection coating in cartridge and identification plate.



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04



# Luminaire support systems




Luminaire support channel 512

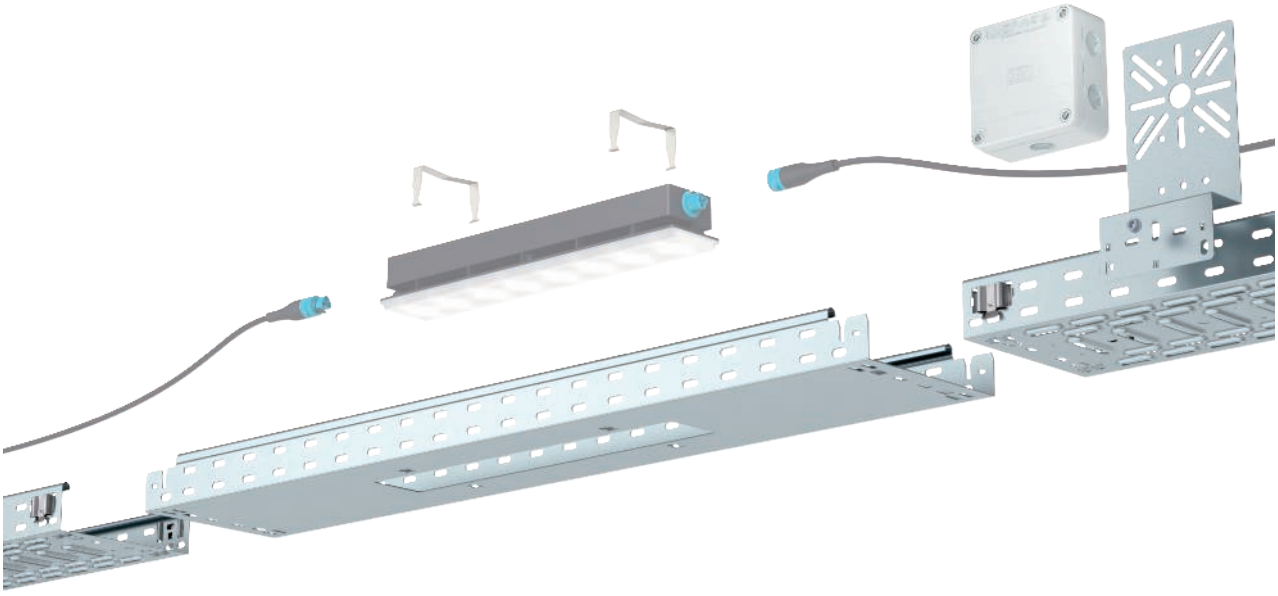


Luminaire support tray 524



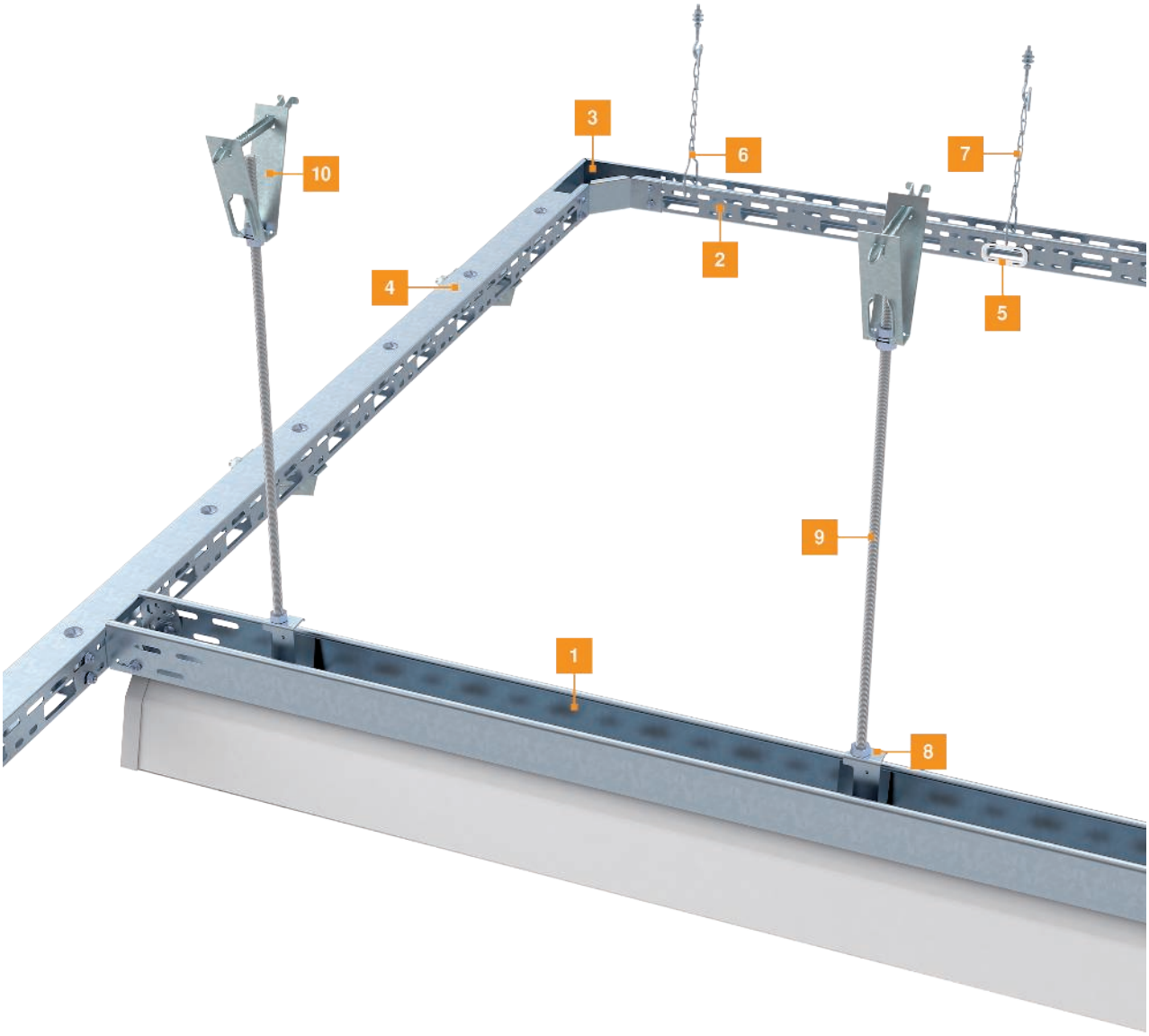

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# System description



Whether in industry, in purpose-built buildings or in especially attractive buildings, OBO luminaire support systems simplify the installation of light systems in many areas of industry and buildings. They are also suitable for flexible power and data supply to machines and workstations. The OBO luminaire support system makes cable laying and the optimum positioning of lighting for any possible application simply child's play.

# Installation principle




| | |
|---|---|
| 1 | Luminaire support tray |
| 2 | Luminaire support channel |
| 3 | 90° bend |
| 4 | Cover with turn buckle |
| 5 | Edge protection ring |
| 6 | Suspension bracket |
| 7 | Suspension chain |
| 8 | Centre suspension |
| 9 | Threaded rod |
| 10 | Trapezoidal fastening |



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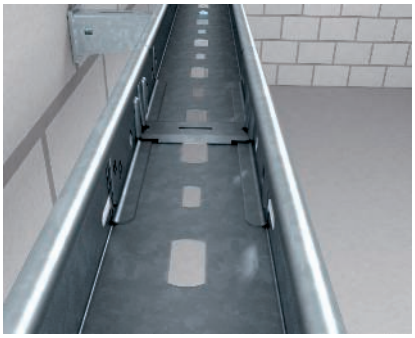
# Mounting aid



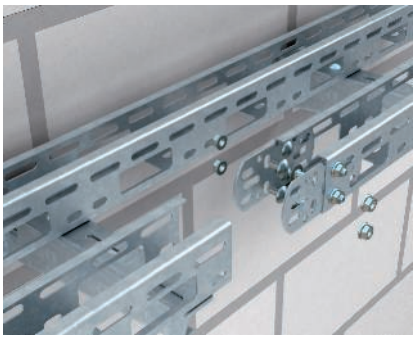
**Luminaire support tray application**
Suspension of the luminaire support tray with chain and suspension bracket.



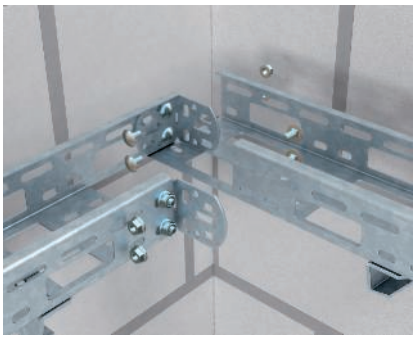
**Luminaire support tray application**
Suspension of a luminaire support tray with centre suspension MAH and threaded rod.



**Straight connection of luminaire support tray**
Horizontal straight connection of the luminaire support tray, type LTR with straight connector set, type RV 607.



**Longitudinal connection of luminaire support channel**
Horizontal longitudinal connection of the luminaire support channel, type LTS, with straight and angle connectors, type VF AZK.



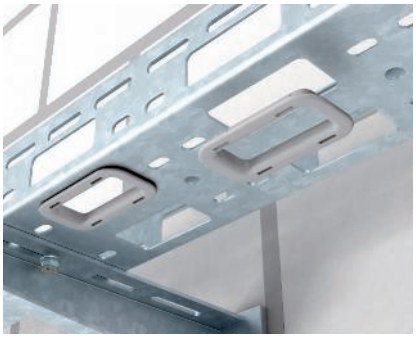
**Horizontal angle connection**
Horizontal angle connection of the luminaire support channel, type LTS, with straight and angle connectors, type VF AZK.



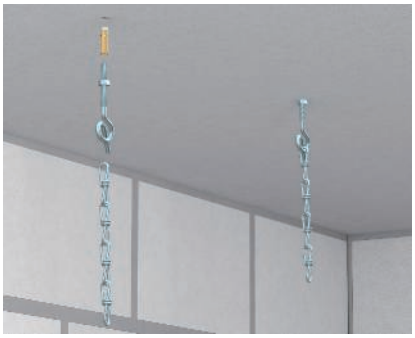
**Vertical straight connection**
Vertical straight connection of the luminaire support tray, type LTS, with two straight and angle connectors, type VF AZK.



**Side rail cable protection ring**
Insertion of the cable protection rings, type KSR 910, in the side rail of the luminaire support channel.



**Floor cable protection ring**
Insertion of the cable protection rings, type KSR 915, in the base of the luminaire support channel.



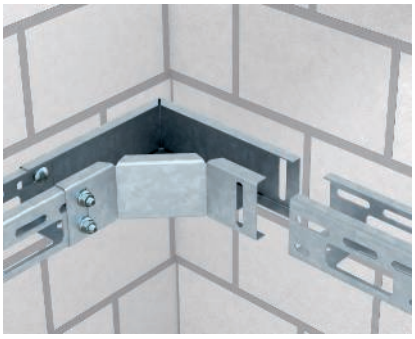
**Chain suspension**
Implementation of a chain suspension for luminaire support systems with anchors, ceiling hook, type 948/TG6 and suspension chain, type LTK-K.



**Centre suspension**
Efficient creation of centre suspensions. The luminaire support tray is fastened to the centre suspension hanger without bolts.



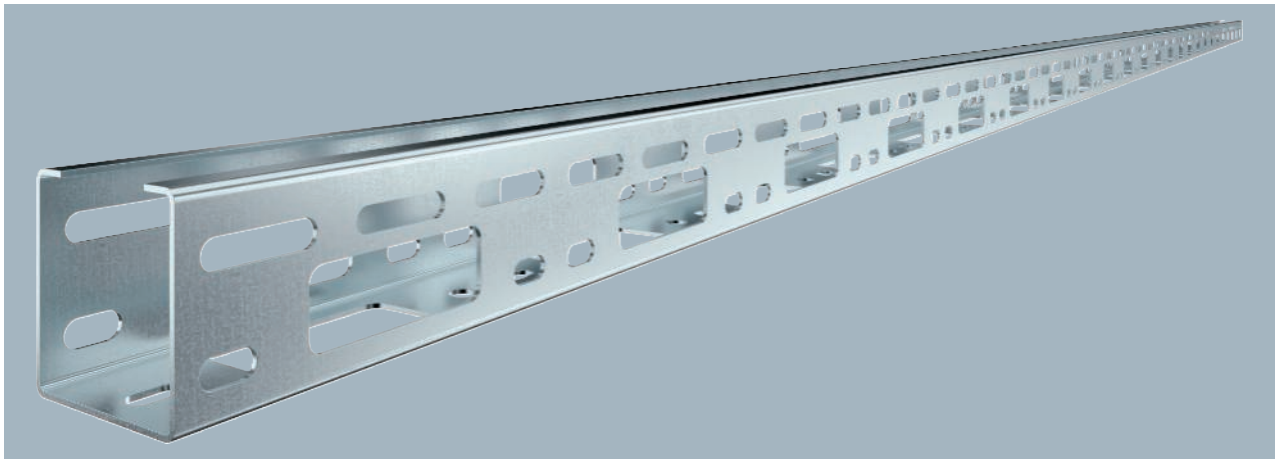
**Pre-wired luminaire supports**
Mounting of a pre-terminated luminaire beneath a luminaire support tray.



**Mounting of luminaire support fitting**
Mounting of luminaire support fitting by simple interconnection of fitting and luminaire support tray.

St FS

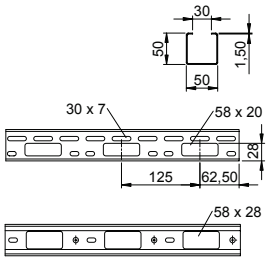
## Luminaire support channel 50



Perforated luminaire support channel for cable routing and luminaire mounting.

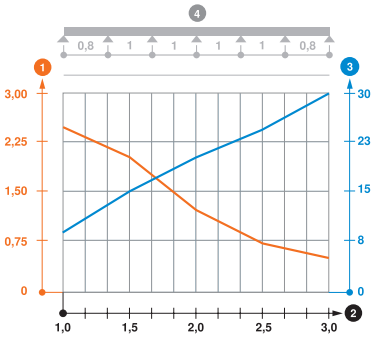
| Type | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| LTS 50 FS | | 6 | 135.700 | 6075000 |

### Dimensions




| Type | Length mm | Width mm | Usable cross-section cm² | Metal thickness mm |
|---|---|---|---|---|
| LTS 50 FS | 6000 | 50 | 22 | 1.50 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|---|
| LTS 50 FS | 2.5 | 2 | 1.2 | 0.85 | 0.5 |

**Load diagram, luminaire support channel, type LTS**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

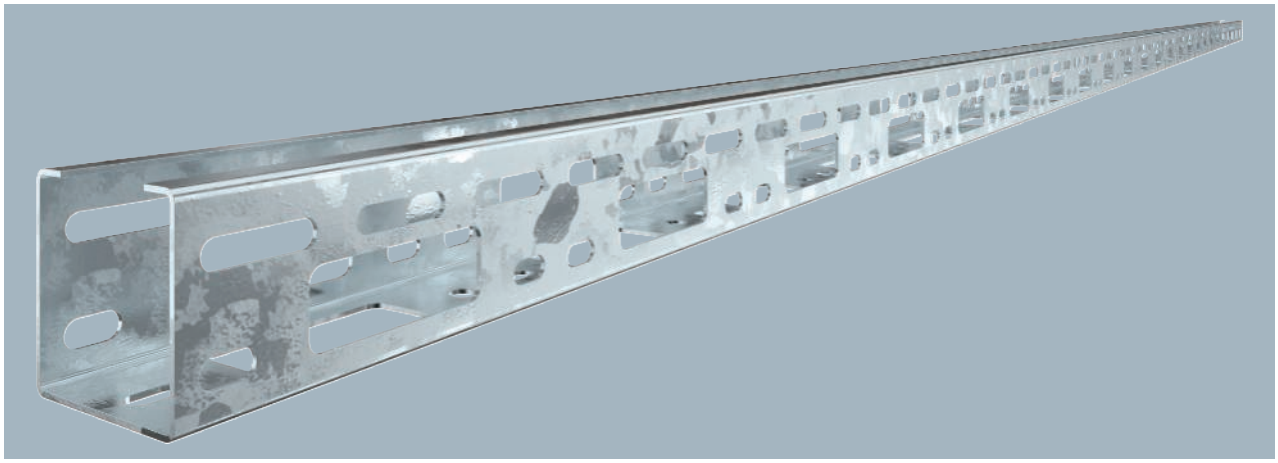
— Strut bend curve according to support width



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## Luminaire support channel 50

St FT

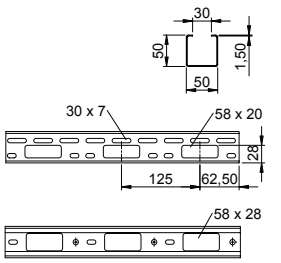


| Type | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| LTS 50 FT | | 6 | 149.500 | 6075005 |

Perforated luminaire support channel for cable routing and luminaire mounting.

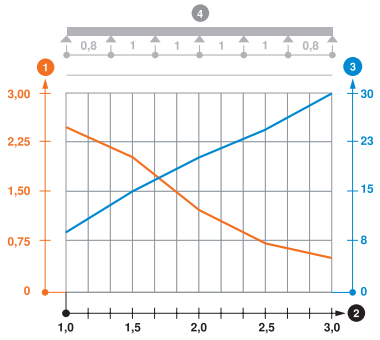
| Type | Length mm | Width mm | Usable cross-section cm² | Metal thickness mm |
|---|---|---|---|---|
| LTS 50 FT | 6000 | 50 | 22 | 1.50 |

**Dimensions**




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|---|
| LTS 50 FT | 2.5 | 2 | 1.2 | 0.85 | 0.5 |

**Load**



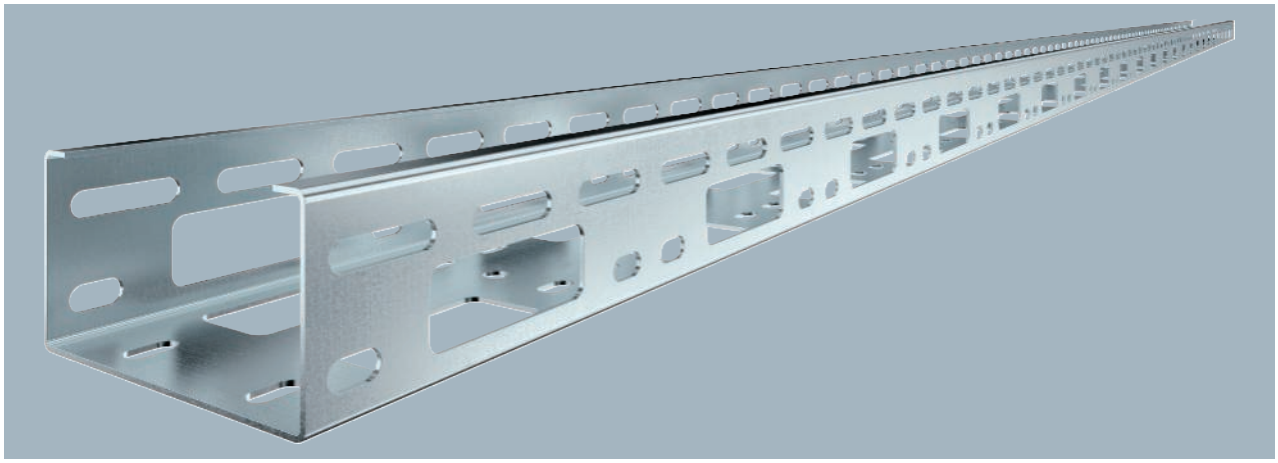

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

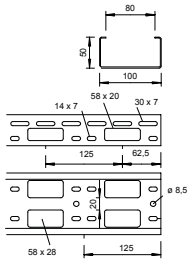
## Luminaire support channel 100



Perforated luminaire support channel for cable routing and luminaire mounting.

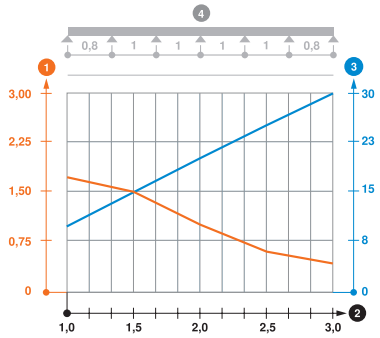
| Type | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|
| LTS 100 FS | 6 | 177.000 | 6075024 |

### Dimensions




| Type | Length mm | Width mm | Usable cross-section cm² | Metal thickness mm |
|---|---|---|---|---|
| LTS 100 FS | 6000 | 100 | 46 | 1.50 |

### Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|---|
| LTS 100 FS | 1.7 | 1.5 | 1 | 0.6 | 0.4 |

**Load diagram, luminaire support channel, type LTS**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

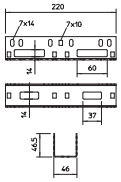
— Strut bend curve according to support width

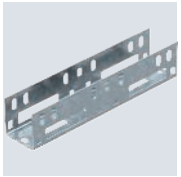
St FS DD

## Straight connector 50

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| VF AZK 50 FS | 25 | 27.100 | 6066615 |
| VF AZK 50 DD | 25 | 27.100 | 6066623 |

Straight connector for connection of luminaire support channels and AZ channels.
An adjustable connector can be created using two straight and angle connectors.



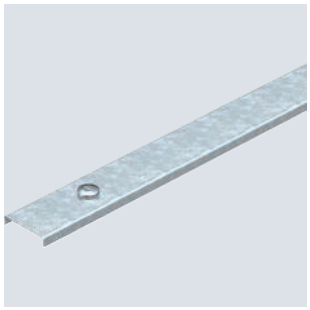


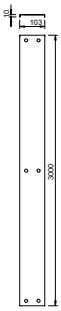
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# Luminaire support channel

## Cover with turn buckle

St FS






| Type | Width mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **AZDMD 50 FS** | 53 | 3000 | 3 | 55.000 | **6080138** |
| **AZDMD 100 FS** | 103 | 3000 | 3 | 97.767 | **6080227** |

Cover with turn buckle for AZ small duct.

## Cover with turn buckle

St DD





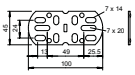

| Type | Width mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **AZDMD 50 DD** | 53 | 3000 | 3 | 58.340 | **6080154** |
| **AZDMD 100 DD** | 103 | 3000 | 3 | 101.700 | **6080235** |

Cover with turn buckle for AZ small duct.

## Straight and angle connector 50

St FT






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **VF AZK FT** | 25 | 7.656 | **6066550** |

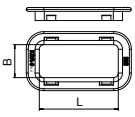
Straight and angle connector for connection of AZ channels.

An adjustable connector can be created using two straight and angle connectors. Scope of delivery including bolts with combination nuts.

## DR 910 cable protection ring

PE





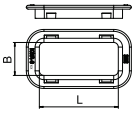

| Type | Colour | for perforation mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **KSR-910 PE** | Light grey | 20 x 58 | 25 | 0.470 | **6066712** |

Cable protection ring for bottom perforation in cable trays of type IKS and for side perforation in AZ small ducts and luminaire support channel.

## 915 cable protection ring

PE






| Type | Colour | for perforation mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **KSR-915 PE** | Light grey | 28 x 58 | 25 | 0.520 | **6066704** |

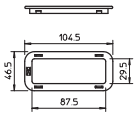
Cable protection ring for bottom perforations in AZ small ducts and luminaire support channels.

PE

## DR 920 cable protection ring

| Type | Colour | for perforation mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| KSR-DR 920 PE | Light grey | 32 x 90 | 25 | 0.637 | 6087965 |

Cable protection ring for side perforation in the side rails of the IKS cable tray.



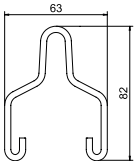



St F

## Suspension bracket 50

| Type | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| AHB 50 D4 FT | 0.35 | 50 | 1.985 | 6066505 |

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 50, and the AZ small duct, type AZK 50.



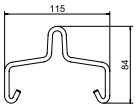



St F

## Suspension bracket 100

| Type | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| AHB 100 D5 FT | 0.6 | 50 | 4.060 | 6066510 |

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 100, and the AZ small duct, type AZK 100.







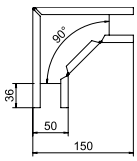

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# Luminaire support channel

## 90° bend LTS B

St DD





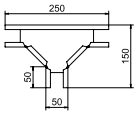

| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LTS B DD** | 50 | 50 | 1 | 36.600 | **6074901** |

90° bend, horizontal, for AZ small duct AZK 050 and luminaire support channel LTS 50.

## LTS T T-piece

St DD



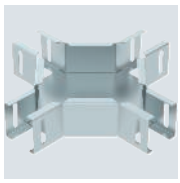


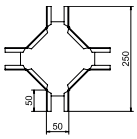

| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LTS T DD** | 50 | 50 | 1 | 47.800 | **6074912** |

Horizontal tee, for AZ small duct AZK 050 and luminaire support channel LTS 50.

## LTS K cross-over

St DD



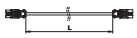



| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **LTS K DD** | 50 | 50 | 1 | 58.400 | **6074921** |

Cross-over, horizontal, for AZ small duct AZK 050 and luminaire support channel LTS 50.

## 3-wire connection cable, PVC, cross-section 2.5 mm², black





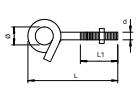
| Type | Cable length mm | Cross-section mm² | Number of poles | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **VL-3Q2.5 3 SW** | 3000 | 2.5 | 3 | Black | 1 | 54.000 | **6108152** |
| **VL-3Q2.5 5 SW** | 5000 | 2.5 | 3 | Black | 1 | 90.000 | **6108154** |
| **VL-3Q2.5 10 SW** | 10000 | 2.5 | 3 | Black | 1 | 180.000 | **6108159** |

Connection cable 3 x 2.5 mm² in the version socket – connector with GST18i connection system.

## Ceiling hook

St G





| Type | Thread | Dim. d mm | Dim. L mm | Dim. L1 mm | Dim. d Ø mm | Washer Ø mm | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|---|---|
| **948 TG6** | M6 | 6 | 70 | 46 | 13 | 18 | 1 | 25 | 3.300 | **3453820** |

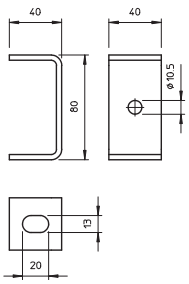
Tightly wound ceiling hook. Including two large washers and nuts.

St FT

## Ceiling bracket

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| DB FT | 20 | 16.000 | 6356109 |

Ceiling bracket for threaded rod suspension.





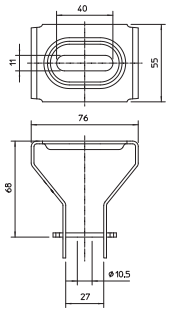

St FS

## Ceiling clamp, variable

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| DBV FS | 20 | 18.200 | 6356055 |

The locked threaded rod seat offers the option of infinite angle adjustment.

Ceiling bracket for suspension with threaded rods. The variable adjustment permits universal use.





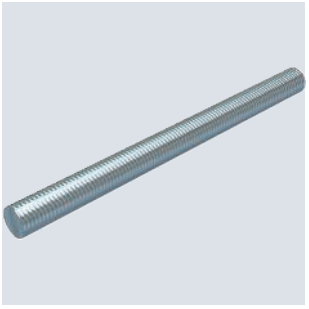

St G

## Threaded rod

| Type | Thread | Dim. d mm | Dim. L mm | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| TR M8 1M G | M8 | 8 | 1000 | 14.6 | 10 | 30.000 | 3141128 |
| TR M10 1M G | M10 | 10 | 1000 | 23.2 | 10 | 49.000 | 3141209 |
| TR M12 1M G | M12 | 12 | 1000 | 33.7 | 10 | 62.000 | 3141306 |
| TR M8 2M G | M8 | 8 | 2000 | 14.6 | 10 | 60.000 | 3141136 |
| TR M10 2M G | M10 | 10 | 2000 | 23.2 | 10 | 98.000 | 3141140 |
| TR M12 2M G | M12 | 12 | 2000 | 33.7 | 10 | 140.000 | 3141144 |

Threaded rod to DIN 976.



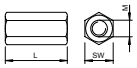



St G

## Connection sleeve

| Type | Thread | Dim. L mm | Dim. SW mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| CSTR M8 G | M8 | 24 | 13 | 50 | 1.880 | 6410081 |
| CSTR M10 G | M10 | 30 | 17 | 50 | 4.150 | 6410103 |
| CSTR M12 G | M12 | 40 | 19 | 25 | 7.000 | 6410111 |

Connection sleeve with continuous internal thread.






St FS

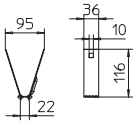
## Ceiling bracket, trapezoidal

| Type | Material thickness mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| TPB 100 FS | 1.5 | 0.8 | 20 | 9.900 | 6357506 |

Important: Observe the statics of the trapezoidal metal ceiling.

Trapezoidal fastening for suspended mounting of cable support systems on standard trapezoidal ceilings.

When using the holes provided, the trapezoidal fastening can be mounted onto a trapezoidal profile width of up to approx. 80 mm. Fastening takes place with the type TPB R lock or a hexagonal bolt of type SKS 10x110.





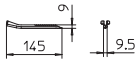



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## Splint for trapezoidal ceiling bracket

St FS





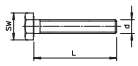

| Type | Material thickness mm | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **TPB R FS** | 1.5 | 0.8 | 20 | 3.100 | **6357536** |

Important: Observe the statics of the trapezoidal metal ceiling.
Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.

## Hexagonal bolt for trapezoidal fastening TPB 100

St G






| Type | Dimension mm | Dim. L mm | Dim. d mm | SW mm | Resistance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **SKS 10x110 G** | M 10 x 110 | 110 | 10 | 17 | 5.6 | 20 | 9.500 | **6418244** |

Hexagonal bolt for mounting trapezoidal fastening TPB 100, with shaft and thread, including hexagonal nut and 2 washers.

## Suspension chain

St G



| Type | Material thickness mm | Break load kN | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **LTK-K 10 G** | 2.6 | 0.9 | 10 | 19.000 | **6050360** |
| **LTK-K 25 G** | 2.6 | 0.9 | 25 | 19.000 | **6050370** |

Suspension chain according to DIN 5686 for suspending luminaire support systems.

## Quick link

St G



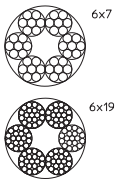
| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **KNG G** | 4 | 100 | 0.700 | **6050375** |

Quick link for connecting the chain, type LTK.

## Steel wire tensioning rope

St G






| Type | Cable diameter mm | Break load kN | In rings m | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **957 3 G** | 3 | 5.29 | 50 | 50 | 3.220 | **5303206** |

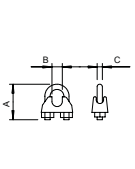
Steel wire tensioning rope, galvanised with fibre inlay (hemp core).
Cable Ø 2–6 mm: round-stranded cable 6 x 7 according to DIN 3055.
Cable Ø 8–10 mm: round-stranded cable 6 x19 according to DIN 3060.
Minimum break force 1770 N/mm².

St G

## Wire cable clamp

| Type | For rope-Ø mm | Dim. A mm | Dim. B mm | Dim. C mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **947 3 G** | 3 | 20 | 4 | 4 | 25 | 1.100 | **5302021** |

Wire cable clamp for fastening steel wire tensioning ropes.



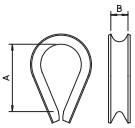



St G

## Cable eye stiffener

| Type | For rope-Ø mm | Dim. A mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **946 3 G** | 3 | 23.5 | 3.5 | 25 | 0.210 | **5301033** |

Cable eye stiffener to DIN 65457.



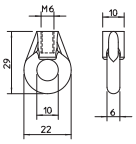


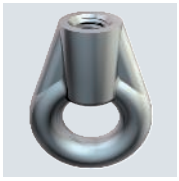

Zn G

## Ring eyelet

| Type | Thread | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **2084 K M6** | M6 | 1.15 | 100 | 1.500 | **3463060** |

Ring eyelet with metric internal thread.



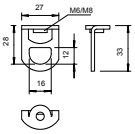



St G

## TS suspension eyelet

| Type | Thread | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **2990 M6 G** | M6 | 1.6 | 50 | 2.320 | **3462862** |
| **2990 M8 G** | M8 | 1.7 | 50 | 2.320 | **3462889** |

Suspension eyelet with interior thread.



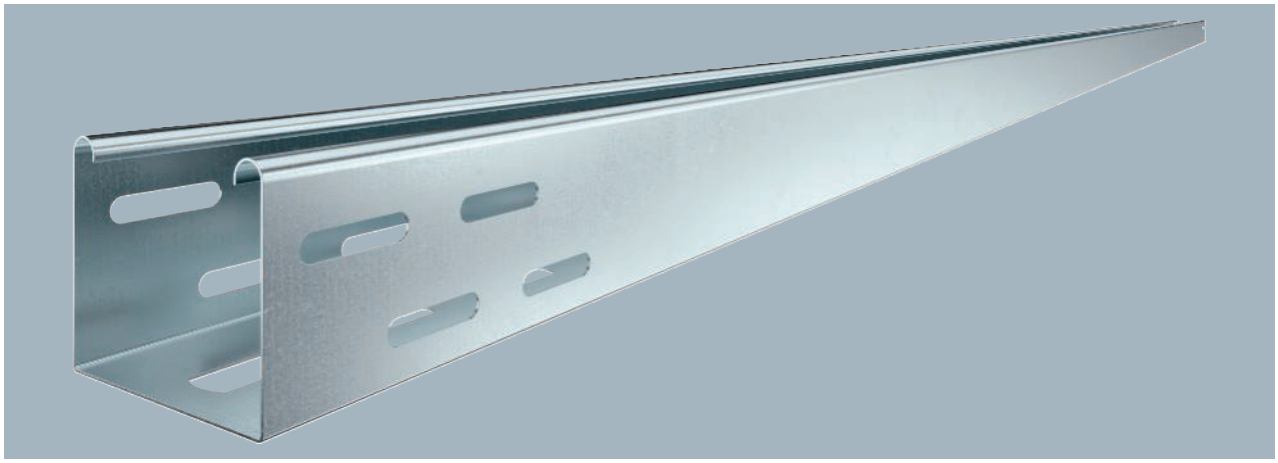





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## Luminaire support tray

St FS



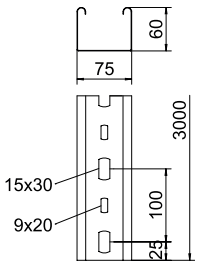
| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **LTR 3000 FS** | 75 | 0.75 | | 3 | 125.700 | **6055810** |
| **LTR 6000 FS** | 75 | 0.75 | | 6 | 126.020 | **6055812** |

The white version has a visible surface coating.

Luminaire support tray with perforated base for fastening luminaires and cable penetration.

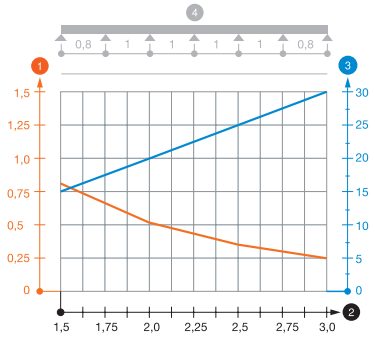
| Type | Length mm | Width mm | Usable cross-section $cm^2$ | Metal thick-ness mm |
|---|---|---|---|---|
| LTR 3000 FS | 3000 | 75 | 42 | 0.75 |
| LTR 6000 FS | 6000 | 75 | 42 | 0.75 |

**Dimensions**




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **LTR 3000 FS** | 0.8 | 0.55 | 0.35 | 0.25 |
| **LTR 6000 FS** | 0.8 | 0.55 | 0.35 | 0.25 |

**Load**




**Load diagram, luminaire support tray, type LTR**

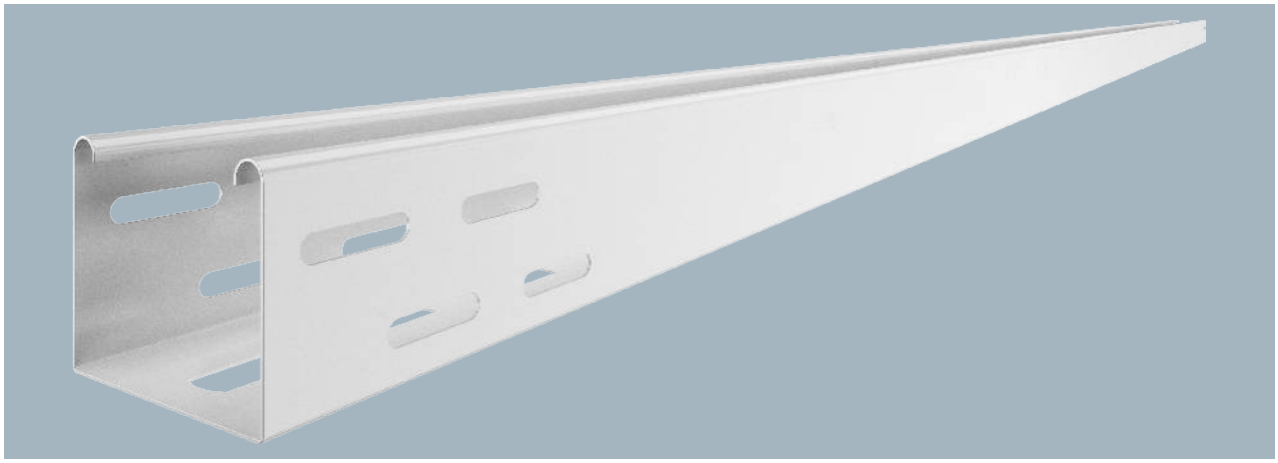
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St

## Luminaire support tray, pure white

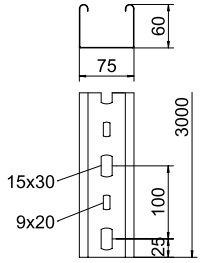


The luminaire support tray's surface is strip-galvanised and is also powder-coated in white (RAL 9010).

Luminaire support tray with perforated base for fastening luminaires and cable penetration.

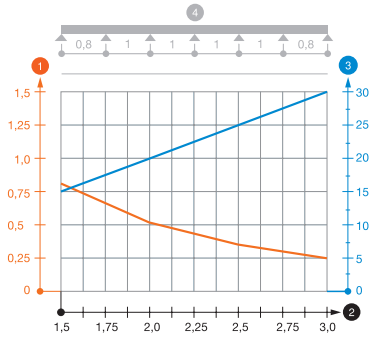
| Type | Width mm | Metal thickness mm | Colour | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **LTR 3000 FSK RW** | 75 | 0.75 | Pure white | 6 | 129.540 | **6055820** |
| **LTR 6000 FSK RW** | 75 | 0.75 | Pure white | 6 | 129.500 | **6055821** |

### Dimensions




| Type | Length mm | Width mm | Usable cross-section $cm^2$ |
|---|---|---|---|
| LTR 3000 FSK RW | 3000 | 75 | 42 |
| LTR 6000 FSK RW | 6000 | 75 | 42 |

### Load




| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|
| **LTR 3000 FSK RW** | 0.8 | 0.55 | 0.35 | 0.25 |
| **LTR 6000 FSK RW** | 0.8 | 0.55 | 0.35 | 0.25 |

**Load diagram, luminaire support tray, type LTR**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

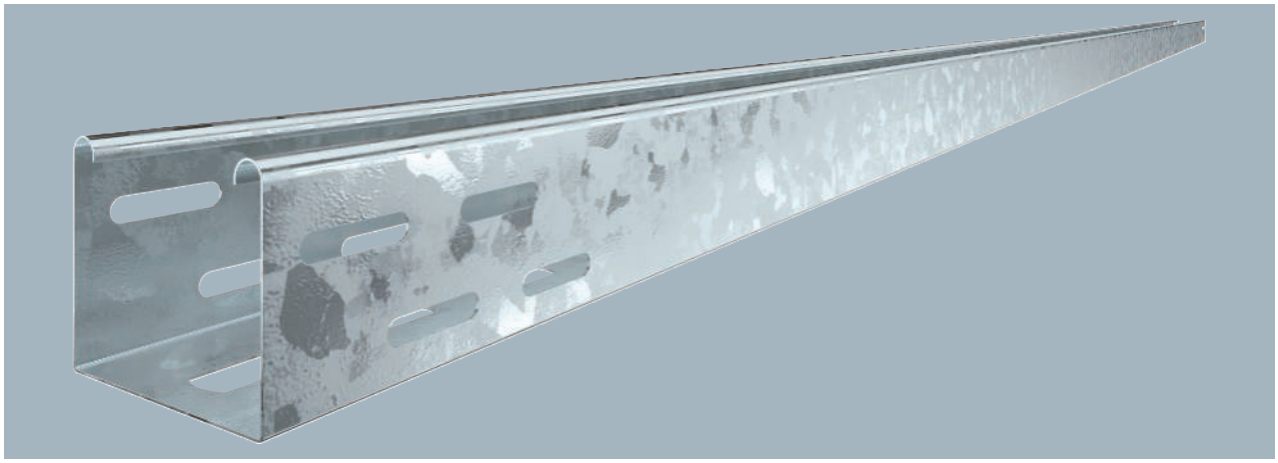
— Strut bend curve according to support width



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## Luminaire support tray

St FT



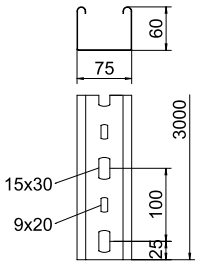
| Type | Width mm | Metal thick-ness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **LTR 3000 FT** | 75 | 0.75 | | 3 | 142.370 | **6055817** |

The white version is a visible surface coating.

Luminaire support tray with perforated base for fastening luminaires and cable penetration.

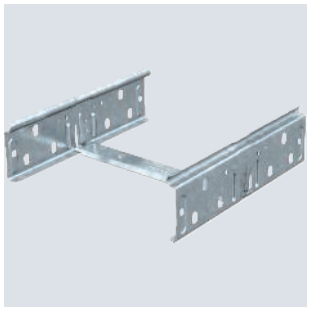
| Type | Length mm | Width mm | Usable cross-section cm² |
|---|---|---|---|
| LTR 3000 FT | 3000 | 75 | 42 |

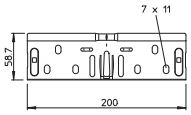
**Dimensions**




## Straight connector set 60

St FS





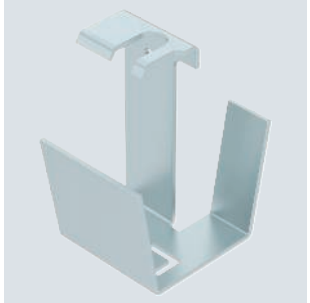

| Type | Side height mm | Width mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **RV 607 FS** | 60 | 75 | | 10 | 18.800 | **6068150** |

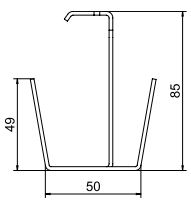
Quick connector set for straight, screwless connections of cable trays and fittings with a side height of 60 mm.

The continuous earthing connection is guaranteed without a screw connection.

## Centre suspension for luminaire support tray

St FS FT






| Type | for width mm | For threaded rod | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **MAH LTR FS** | 75 | M10 | | 25 | 12.000 | **6358810** |
| **MAH LTR FT** | 75 | M10 | | 25 | 14.000 | **6358812** |

The central hanger can be used with all cable trays of width 75 mm and side height 60 mm.

Central hanger for luminaire support tray, type LTR, for threaded rod and chain suspension.

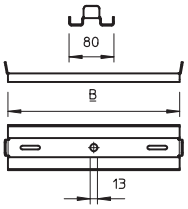
St FT

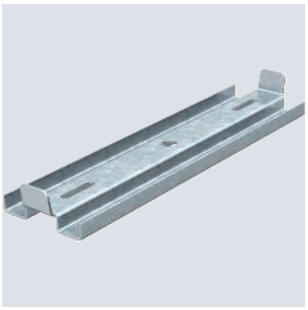
## Centre suspension, cable ladder

| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| MAHL 200 FT | 200 | 1 | 41.900 | 6358659 |
| MAHL 300 FT | 300 | 1 | 61.800 | 6358667 |
| MAHL 400 FT | 400 | 1 | 81.800 | 6358675 |
| MAHL 500 FT | 500 | 1 | 101.700 | 6358683 |
| MAHL 600 FT | 600 | 1 | 121.700 | 6358687 |

On filling, please ensure an even load distribution (no one-sided filling).

Centre suspension for cable ladders.



St FS

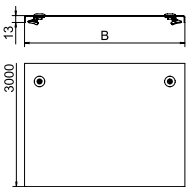
## Cover with turn buckle

| Type | Dim. B mm | Metal thick-ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| DRL 075 FS | 75 | 1.00 | 3000 | 3 | 83.340 | 6052029 |

Transverse bead from 500 mm width.

Cover for cable trays and cable ladders with turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken.





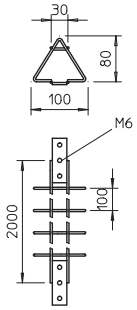

# Luminaire support mesh cable trays

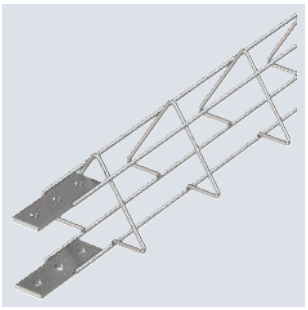
A2 2B

## Luminaire support mesh tray

| Type | Width mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| LTG 100 A2 | 100 | 2080 | 2 | 69.500 | 6003830 |

Luminaire support grid for luminaire suspension. The constructive design of this system avoids larger build-ups of dirt.



# Fittings

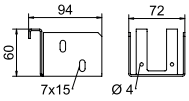
St FS

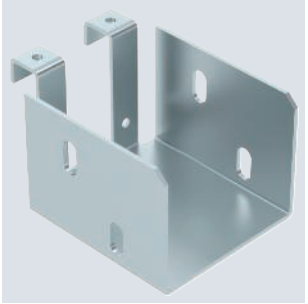
## Mounting/branch piece

| Type | Dimen-sion mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| RAA 607.5 LTR FS | 60x75 | 10 | 24.200 | 6050354 |

Single-part version.

Add-on tee for horizontal use on luminaire trays of 60 mm side height.



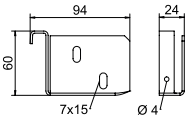


Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Mounting/branch piece

St FS

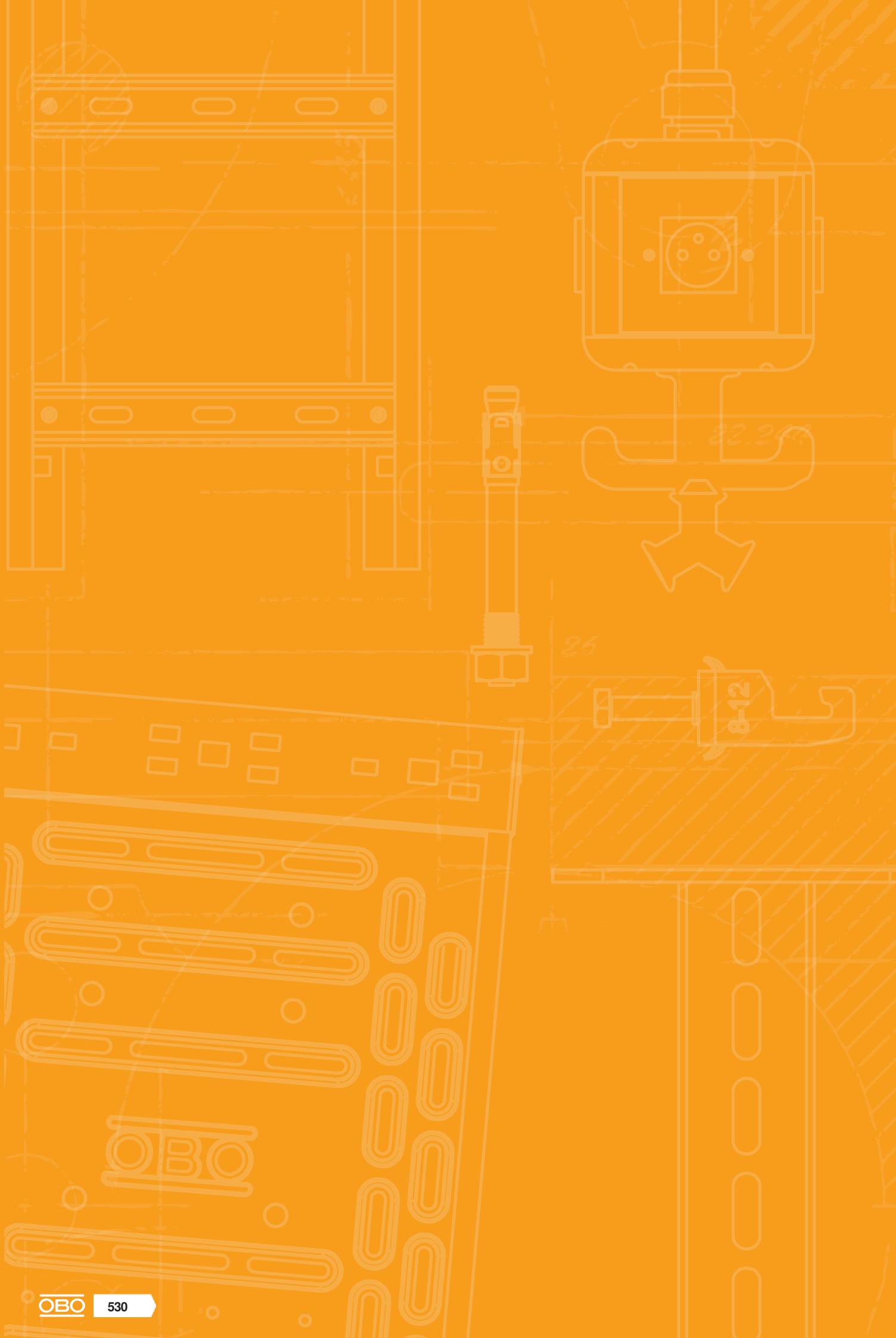





| Type | Dimension mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **RAA 607.5 FS** | 60x75 | 10 | 18.100 | **6050353** |

Two-part version.

Add-on tee for horizontal use on luminaire trays of 60 mm side height.



# Modular systems



Modular systems 530



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## AZ small duct 50

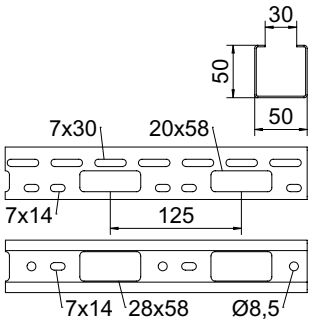
St FS FT



| Type | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|
| **AZK 050 FS** | 3 | 135.700 | **6075096** |
| **AZK 050 FT** | 3 | 144.700 | **6075142** |

AZ channel with a side height of 50 mm.

**Dimensions**




| Type | Length mm | Width mm | Side height mm | Metal thick-ness mm |
|---|---|---|---|---|
| AZK 050 FS | 3000 | 50 | 50 | 1.50 |

## AZ small duct 50

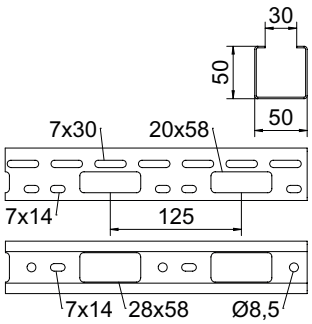
A2 A4 2B



| Type | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|
| **AZK 050 A2** | 3 | 135.700 | **6075150** |
| **AZK 050 A4** | 3 | 135.700 | **6075152** |

AZ channel with a side height of 50 mm.

**Dimensions**



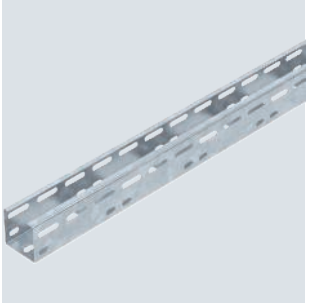

| Type | Length mm | Width mm | Side height mm | Metal thick-ness mm |
|---|---|---|---|---|
| AZK 050 A2 | 3000 | 50 | 50 | 1.50 |

St FT

## AZ small duct 50

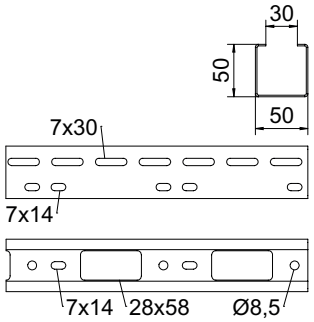
| Type | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **AZK A 050 FT** | | 3 | 165.670 | **6076149** |

AZ channel with a side height of 50 mm.



| Type | Length mm | Width mm | Side height mm | Metal thickness mm |
|---|---|---|---|---|
| AZK A 050 FT | 3000 | 50 | 50 | 1.50 |

**Dimensions**

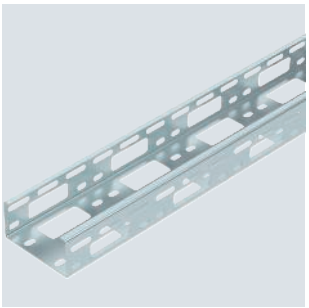



St FS FT

## AZ channel 100

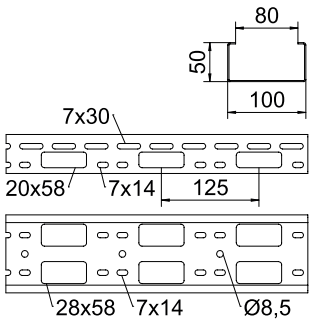
| Type | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **AZK 100 FS** | | 3 | 176.940 | **6075231** |
| **AZK 100 FT** | | 3 | 188.670 | **6075258** |

AZ channel with a side height of 50 mm.



| Type | Length mm | Width mm | Side height mm | Metal thickness mm |
|---|---|---|---|---|
| AZK 100 FS | 3000 | 100 | 50 | 1.50 |

**Dimensions**

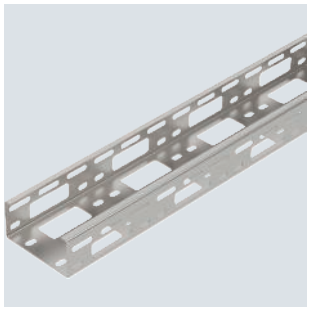





Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## AZ channel 100

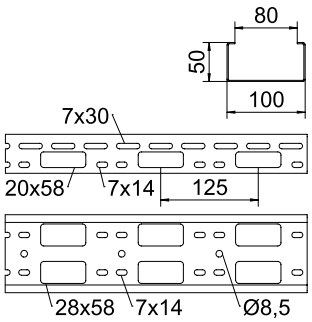
A2 2B



| Type | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|
| **AZK 100 A2** | 3 | 176.934 | **6075304** |

AZ channel with a side height of 50 mm.

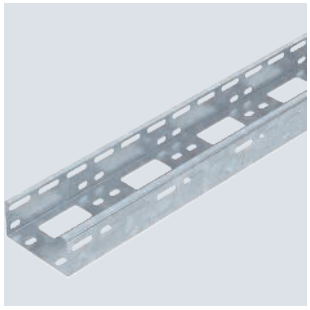
**Dimensions**




| Type | Length mm | Width mm | Side height mm | Metal thick-ness mm |
|---|---|---|---|---|
| AZK 100 A2 | 3000 | 100 | 50 | 1.50 |

## AZ channel 100

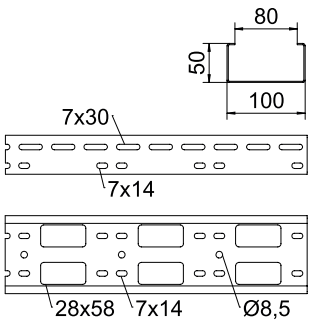
St FT



| Type | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|
| **AZK A 100 FT** | 3 | 212.000 | **6076246** |

AZ channel with a side height of 50 mm.

**Dimensions**



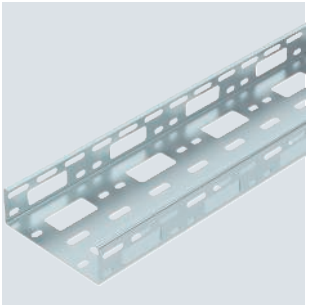

| Type | Length mm | Width mm | Side height mm | Metal thick-ness mm |
|---|---|---|---|---|
| AZK A 100 FT | 3000 | 100 | 50 | 1.50 |

St FS FT

## AZ small duct 150

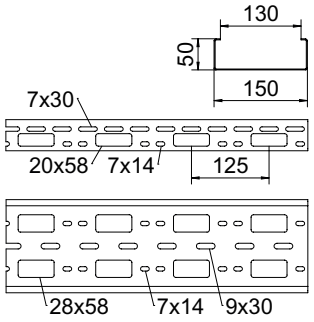
| Type | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **AZK 150 FS** | | 3 | 231.670 | **6075320** |
| **AZK 150 FT** | | 3 | 245.670 | **6075325** |

AZ channel with a side height of 50 mm.



| Type | Length mm | Width mm | Side height mm | Metal thickness mm |
|---|---|---|---|---|
| AZK 150 FS | 3000 | 150 | 50 | 1.50 |

**Dimensions**

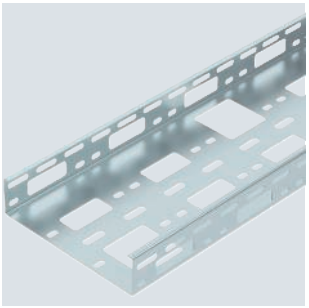



St FS FT

## AZ small duct 200

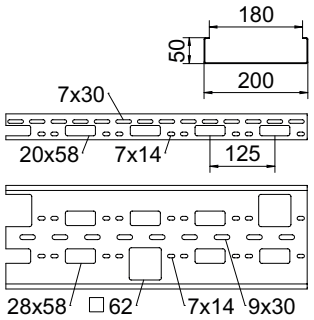
| Type | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **AZK 200 FS** | | 3 | 280.340 | **6075345** |
| **AZK 200 FT** | | 3 | 296.000 | **6075350** |

AZ channel with a side height of 50 mm.



| Type | Length mm | Width mm | Side height mm | Metal thickness mm |
|---|---|---|---|---|
| AZK 200 FS | 3000 | 200 | 50 | 1.50 |

**Dimensions**

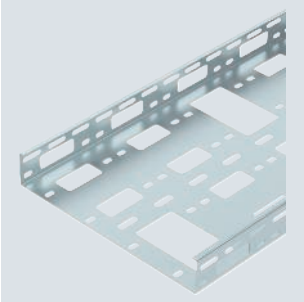





Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## AZ small duct 300

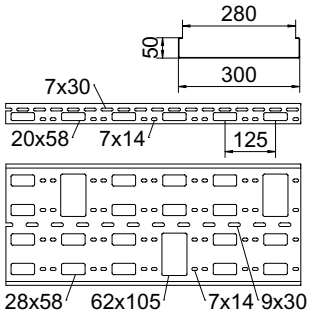
St FS FT



| Type | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|
| **AZK 300 FS** | 3 | 359.340 | **6075370** |
| **AZK 300 FT** | 3 | 381.000 | **6075375** |

AZ channel with a side height of 50 mm.

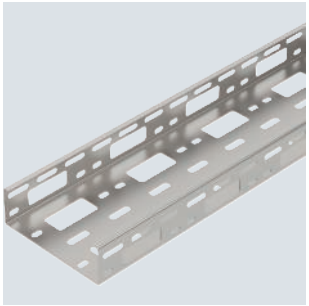
**Dimensions**




| Type | Length mm | Width mm | Side height mm | Metal thick-ness mm |
|---|---|---|---|---|
| AZK 300 FS | 3000 | 300 | 50 | 1.50 |

## AZ small duct 150

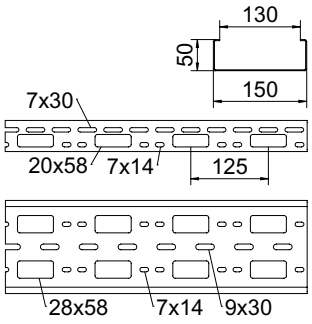
A2 2B



| Type | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|
| **AZK 150 A2** | 3 | 231.660 | **6075330** |

AZ channel with a side height of 50 mm.

**Dimensions**



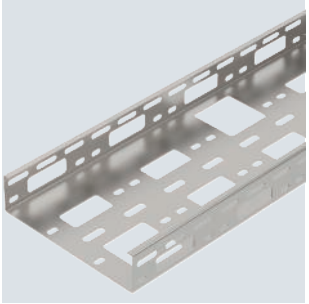

| Type | Length mm | Width mm | Side height mm | Metal thick-ness mm |
|---|---|---|---|---|
| AZK 150 A2 | 3000 | 150 | 50 | 1.50 |

A2 2B

## AZ small duct 200

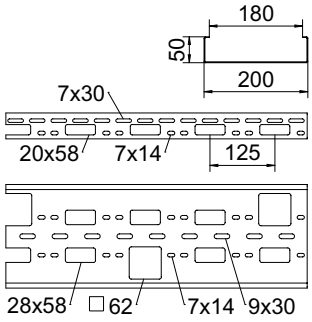
| Type | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|
| **AZK 200 A2** | | 3 | 280.340 | **6075355** |

AZ channel with a side height of 50 mm.



| Type | Length mm | Width mm | Side height mm | Metal thick-ness mm |
|---|---|---|---|---|
| AZK 200 A2 | 3000 | 200 | 50 | 1.50 |

**Dimensions**



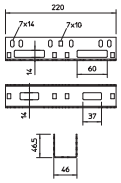

# System accessories

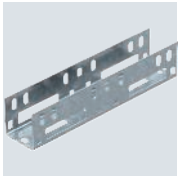
St FS DD

## Straight connector 50

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **VF AZK 50 FS** | | 25 | 27.100 | **6066615** |
| **VF AZK 50 DD** | | 25 | 27.100 | **6066623** |

An adjustable connector can be created using two straight and angle connectors.
Straight connector for connection of luminaire support channels and AZ channels.



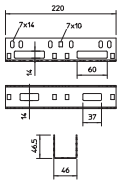


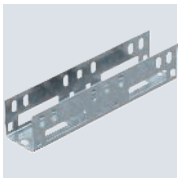
A2 2B

## Straight connector 50

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **VF AZK 50 A2** | | 25 | 27.400 | **6066629** |

An adjustable connector can be created using two straight and angle connectors.
Straight connector for connection of luminaire support channels and AZ channels.



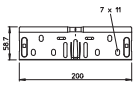


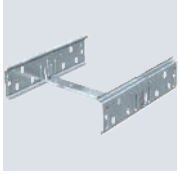
St DD

## Straight connector set

| Type | Side height mm | Width mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **RV 607 DD** | 60 | 75 | | 1 | 18.800 | **6068152** |

Quick connector set for straight, screwless connections of cable trays and fittings with a side height of 60 mm.
The continuous earthing connection is guaranteed without a screw connection.





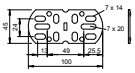


Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Straight and angle connector 50

St FT






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **VF AZK FT** | 25 | 7.656 | **6066550** |

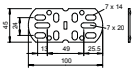
An adjustable connector can be created using two straight and angle connectors. Scope of delivery including bolts with combination nuts.

Straight and angle connector for connection of AZ channels.

## Straight and angle connector 50

A2 A4 2B






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **VF AZK A2** | 10 | 7.746 | **6066569** |
| **VF AZK A4** – | 10 | 7.746 | **6066571** |

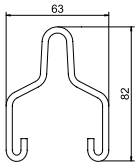
An adjustable connector can be created using two straight and angle connectors. Scope of delivery includes bolts and nuts.

Straight and angle connector for connection of AZ channels.

## Suspension bracket 50

St F



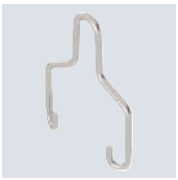


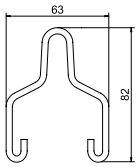

| Type | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **AHB 50 D4 FT** | 0.35 | 50 | 1.985 | **6066505** |

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 50, and the AZ small duct, type AZK 50.

## Suspension bracket 50

VA 2B





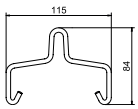

| Type | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **AHB 50 D4 A4** | 0.35 | 50 | 1.985 | **6066508** |

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 50, and the AZ small duct, type AZK 50.

## Suspension bracket 100

St F






| Type | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **AHB 100 D5 FT** | 0.6 | 50 | 4.060 | **6066510** |

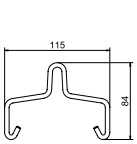
Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 100, and the AZ small duct, type AZK 100.

VA 2B

## Suspension bracket 100

| Type | F in kN kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **AHB 100 D5 A4** | 0.6 | | 50 | 4.060 | **6066514** |

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 100, and the AZ small duct, type AZK 100.



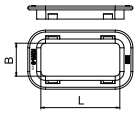



PE

## 915 cable protection ring

| Type | Colour | for perforation mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **KSR-915 PE** | Light grey | 28 x 58 | | 25 | 0.520 | **6066704** |

Cable protection ring for bottom perforations in AZ small ducts and luminaire support channels.



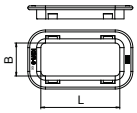



PE

## DR 910 cable protection ring

| Type | Colour | for perforation mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **KSR-910 PE** | Light grey | 20 x 58 | | 25 | 0.470 | **6066712** |

Cable protection ring for bottom perforation in cable trays of type IKS and for side perforation in AZ small ducts and luminaire support channel.



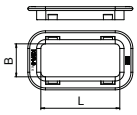



PE

## Cable protection ring 920

| Type | Colour | for perforation mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **KSR-920 PE** | Light grey | 62 x 62 | | 25 | 0.669 | **6066696** |

Cable protection ring for bottom perforations in AZ small ducts and luminaire support channels.



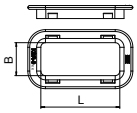



PE

## Cable protection ring 925

| Type | Colour | for perforation mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **KSR-925 PE** | Light grey | 105 x 62 | | 25 | 1.040 | **6066688** |

Cable protection ring for bottom perforations in AZ small ducts and luminaire support channels.








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## Cover with turn buckle

St FS





| Type | Width mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **AZDMD 50 FS** | 53 | 3000 | 3 | 55.000 | **6080138** |
| **AZDMD 100 FS** | 103 | 3000 | 3 | 97.767 | **6080227** |
| **AZDMD 150 FS** | 153 | 3000 | 3 | 137.040 | **6080860** |
| **AZDMD 200 FS** | 203 | 3000 | 3 | 172.330 | **6080885** |
| **AZDMD 300 FS** | 303 | 3000 | 3 | 254.770 | **6080910** |

Cover with turn buckle for AZ small duct.

## Cover with turn buckle

St FT DD





| Type | Width mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **AZDMD 50 DD** | 53 | 3000 | 3 | 58.340 | **6080154** |
| **AZDMD 100 DD** | 103 | 3000 | 3 | 101.700 | **6080235** |
| **AZDMD 150 FT** | 153 | 3000 | 3 | 153.070 | **6080865** |
| **AZDMD 200 FT** | 203 | 3000 | 3 | 197.000 | **6080890** |
| **AZDMD 300 FT** | 303 | 3000 | 3 | 284.867 | **6080915** |

Cover with turn buckle for AZ small duct.

## Cover with turn buckle

A2 2B





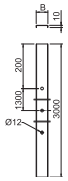
| Type | Width mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **AZDMD 50 A2** | 53 | 3000 | 3 | 57.200 | **6080197** |
| **AZDMD 100 A2** | 103 | 3000 | 3 | 99.933 | **6080294** |
| **AZDMD 150 A2** | 153 | 3000 | 3 | 139.200 | **6080870** |
| **AZDMD 200 A2** | 203 | 3000 | 3 | 178.470 | **6080895** |

Cover with turn buckle for AZ small duct.

## Cover for centre suspension threaded rod

St FS






| Type | Width mm | Dim. B mm | Dim. H mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **AZDG 50 FS** | 53 | 53 | 10 | 3000 | 3 | 55.000 | **6080960** |
| **AZDG 100 FS** | 103 | 103 | 10 | 3000 | 3 | 93.230 | **6080979** |

Perforated cover, for threaded rod mounting, for AZ small duct.
To fasten the cover, the cover clamp DKU is required.

## Cover

St DD





| Type | Width mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **AZDU 50 DD** | 53 | 3000 | 3 | 54.200 | **6080158** |
| **AZDU 100 DD** | 103 | 3000 | 3 | 93.433 | **6080239** |

Cover without turn buckles for AZ small duct.

St FT

## Turn buckle 50

| Type | for width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **AZDR 50 FT** | 50 | 20 | 1.700 | **6065112** |

Turn buckle for installation in the cover for AZ channel and BKK system at a later date.





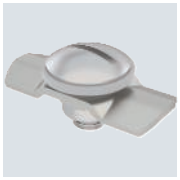
A2 2B

## Turn buckle 50

| Type | for width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **AZDR 50 A2** | 50 | 10 | 2.800 | **6065309** |

Turn buckle for installation in the cover for AZ small duct of width 50 mm at a later date.





St FT

## Turn buckle 100

| Type | for width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **AZDR 100 FT** | 100 | 20 | 1.100 | **6065104** |

Turn buckle for installation in the cover for AZ small ducts and BKK system at a later date.





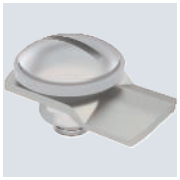
A2 2B

## Turn buckle 100

| Type | for width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **AZDR 100 A2** | 100 | 10 | 2.600 | **6065317** |

Turn buckle for installation in the cover for AZ small duct and BKK system at a later date.





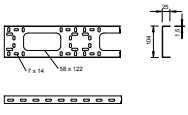
# BKK system

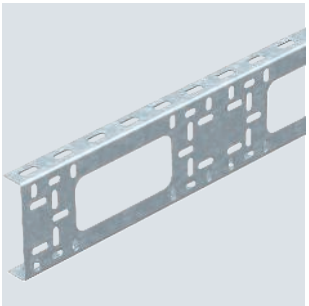
St FT

## BKK basic profile 104, standard

| Type | Metal thick-ness mm | Dimen-sion mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **BKK 104 FT** | 1.50 | 104 x 25 | 3000 | 3 | 126.666 | **6070248** |

BKK basic profile, perforated, for creation of individual cable trays.



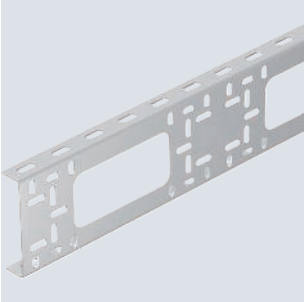


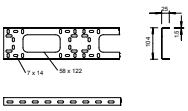


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## BKK basic profile 104, standard

A2 2B



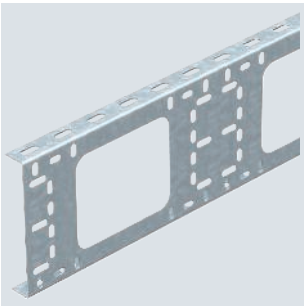


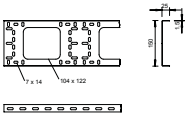
| Type | Metal thickness mm | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **BKK 104 A2** | 1.50 | 104 x 25 | 3000 | 3 | 126.667 | **6070779** |

BKK basic profile for creation of individual cable trays.

## BKK basic profile 150, standard

St FT



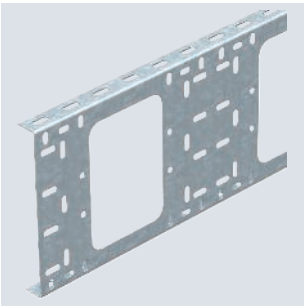


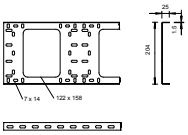
| Type | Metal thickness mm | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **BKK 150 FT** | 1.50 | 150 x 25 | 3000 | 3 | 160.000 | **6070345** |

BKK basic profile, perforated, for creation of individual cable trays.

## BKK basic profile 200, standard

St FT



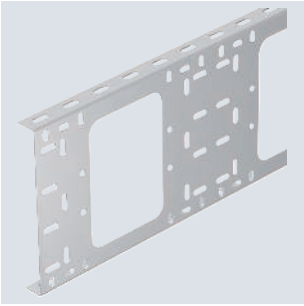


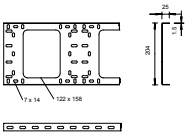
| Type | Metal thickness mm | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **BKK 200 FT** | 1.50 | 200 x 25 | 3000 | 3 | 212.000 | **6070442** |

BKK basic profile, perforated, for creation of individual cable trays.

## BKK basic profile 200, standard

A2 2B





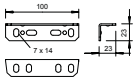
| Type | Metal thickness mm | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **BKK 200 A2** | 1.50 | 200 x 25 | 3000 | 3 | 210.000 | **6070795** |

BKK basic profile for creation of individual cable trays.

St FT

## SSV joint connector

| Type | Metal thickness mm | Dimension mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| SSV FT | 2.00 | 23 x 23 x 100 | 25 | 8.700 | 6066046 |



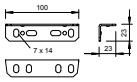



Including appropriate fastening material.
Joint connector for horizontal connection of BKK basic profiles.

A2 2B

## SSV joint connector

| Type | Metal thickness mm | Dimension mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| SSV A2 | 2.00 | 23 x 23 x 100 | 25 | 9.800 | 6066054 |



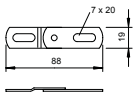


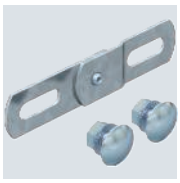

Joint connector for horizontal connection of BKK basic profiles.

St DD

## SV hinge connector

| Type | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| SV DD | 2.00 | 50 | 3.300 | 6066941 |



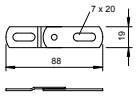



Including appropriate fastening material.
Adjustable connector for vertical bend connections of BKK systems.

A2 2B

## SV hinge connector

| Type | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| SV A2 | 2.00 | 50 | 4.800 | 6066933 |

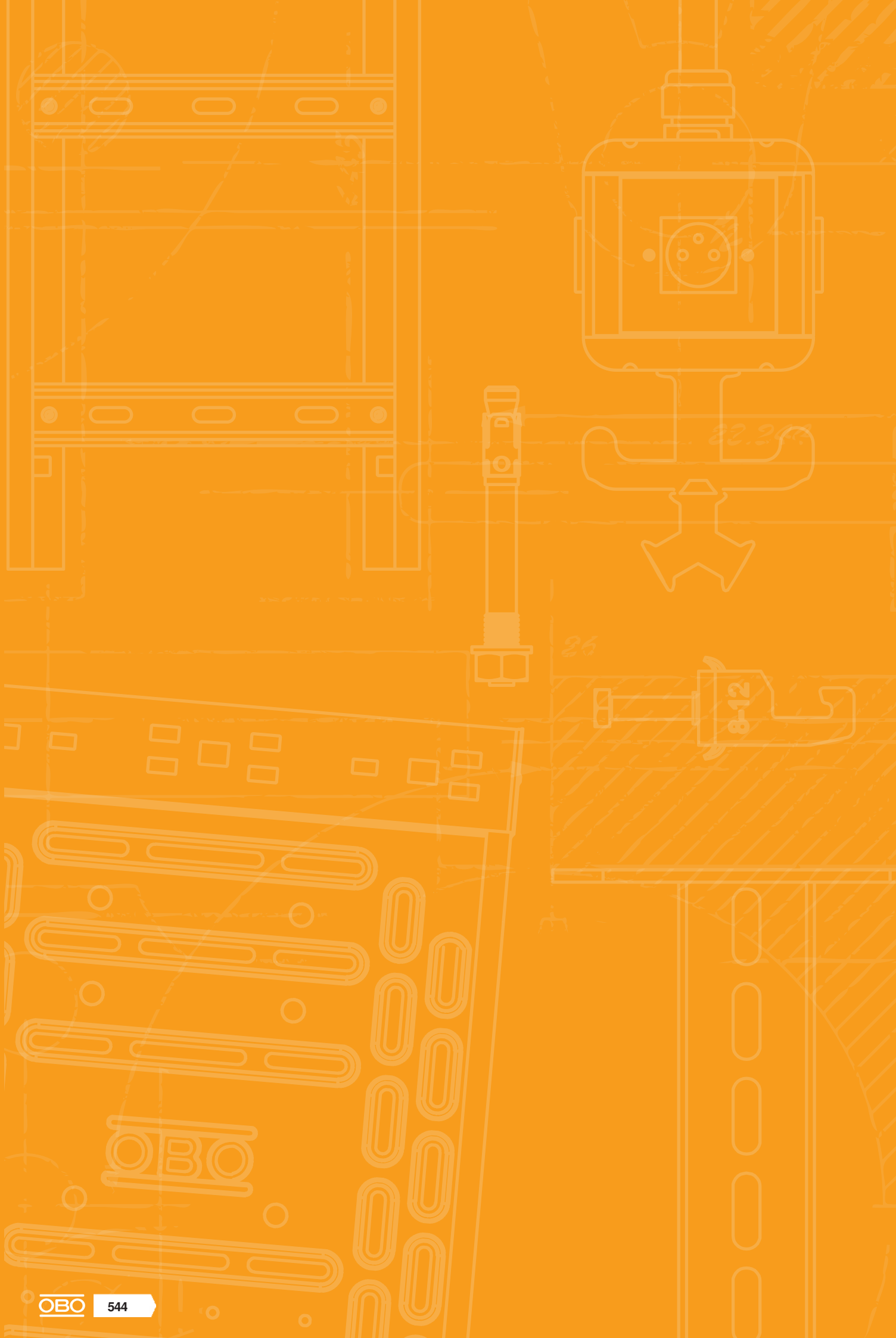





Hinge connector for vertical connections of BKK systems.



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04



# Mounting systems



Brackets 546


Supports 580


Alternative suspension systems 624


Cable support troughs 746




Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Selection aid

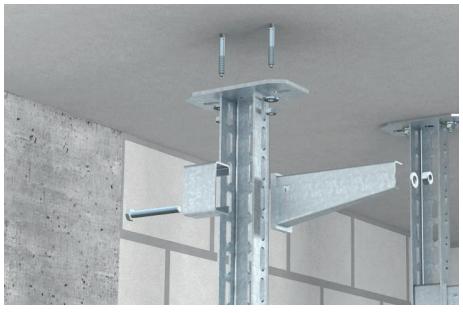
## Support and bracket combinations

### Bracket arrangement, one-sided

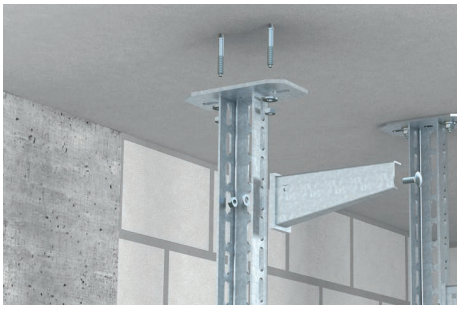
| | | Support length / Bracket | US 3 K | | US 5 K | | US 7 K | |
|---|---|---|---|---|---|---|---|---|
| | | |  | |  | |  | |
| | | | 200 – 600 | 700 – 1200 | 200 – 600 | 700 – 1200 | 200 – 600 | 700 – 1200 |
| MWA12 ... |  | 100 | – | DSK25 | – | DSK45 | – | – |
| | | 200 | – | DSK25 | – | DSK45 | – | – |
| | | 300 | – | DSK25 | – | DSK45 | – | – |
| | | 400 | DSK25 | DSK25 | DSK45 | DSK45 | DSK61 | DSK61 |
| AW 15 ... |  | 100 | – | DSK25 | – | DSK45 | – | – |
| | | 200 | – | DSK25 | – | DSK45 | – | – |
| | | 300 | – | DSK25 | – | DSK45 | – | – |
| | | 400 | DSK25 | DSK25 | DSK45 | DSK45 | DSK61 | DSK61 |
| | | 500 | | | DSK45* | DSK45* | DSK61 | DSK61 |
| | | 600 | | | DSK45* | DSK45* | DSK61 | DSK61 |
| AW 30 ... |  | 100 | | | DSK45 | DSK45 | – | – |
| | | 200 | | | DSK45 | DSK45 | – | – |
| | | 300 | | | DSK45* | DSK45* | – | – |
| | | 400 | | | DSK45* | DSK45* | DSK61 | DSK61 |
| | | 500 | | | | | DSK61 | DSK61 |
| | | 600 | | | | | DSK61 | DSK61 |
| | | 700 | | | | | DSK61 | DSK61 |
| AW 55 ... |  | 200 | | | DSK45** | DSK45** | DSK61 | DSK61 |
| | | 300 | | | DSK45** | DSK45** | DSK61 | DSK61 |
| | | 400 | | | DSK45** | DSK45** | DSK61* | DSK61* |
| | | 500 | | | | | DSK61* | DSK61* |
| | | 600 | | | | | DSK61* | DSK61* |
| | | 700 | | | | | DSK61* | DSK61* |

- No DSK required
 * Observe the overall load, adapt the support distances, refer to the load tables in the catalogue
** Only use with maintenance of electrical function

*A spacer must always be used for support lengths > 600 mm and bracket arrangements at the bottom end of the support.*



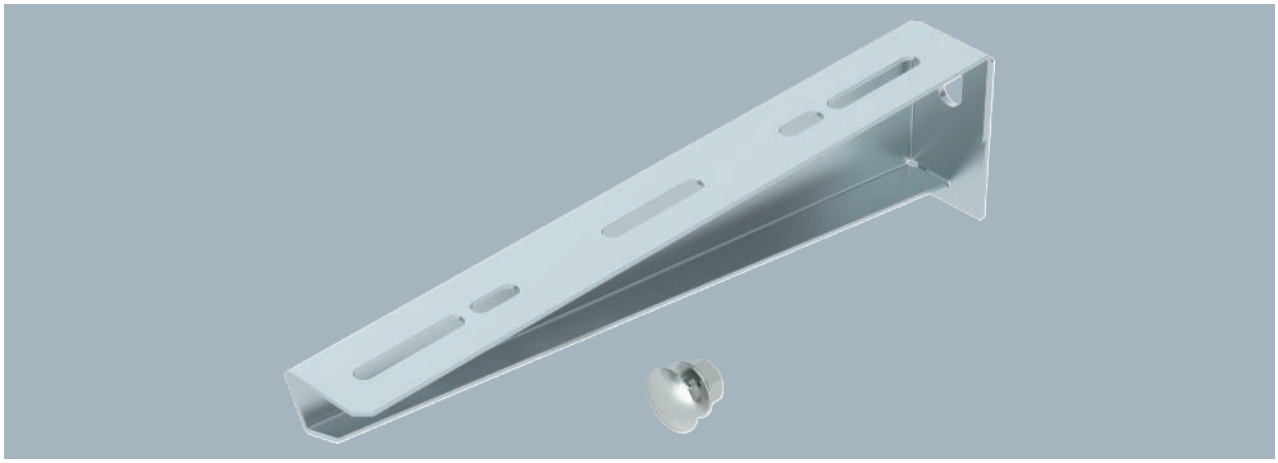
*With DSK (spacer)*



*Without DSK (spacer)*

St FS

# Wall and support bracket MWA 12

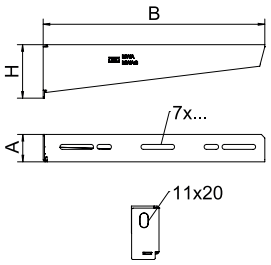


Including truss-head bolt M10 x 25 for fastening to U supports.

Light-duty wall and support bracket.

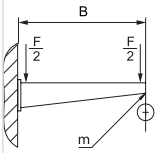
| Type | Width mm | F in kN | BS | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **MWA 12 11S FS** | 110 | 1.2 | | 1 | 16.400 | **6424716** |
| **MWA 12 21S FS** | 210 | 1.2 | | 1 | 26.700 | **6424732** |
| **MWA 12 31S FS** | 310 | 1.2 | | 1 | 50.300 | **6424740** |
| **MWA 12 41S FS** | 410 | 1.2 | | 1 | 68.000 | **6424759** |

## Dimensions




| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| MWA 12 11S FS | 110 | 32.5 | 53 | 11 |
| MWA 12 21S FS | 210 | 32.5 | 65 | 11 |
| MWA 12 31S FS | 310 | 38 | 75 | 11 |
| MWA 12 41S FS | 410 | 38 | 83 | 11 |

## Load

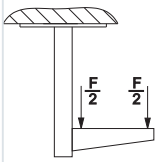



**Load characteristics wall and support bracket MWA 12**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| MWA 12 11S FS | 1.2 kN | 110 mm |
| MWA 12 21S FS | 1.2 kN | 210 mm |
| MWA 12 31S FS | 1.2 kN | 310 mm |
| MWA 12 41S FS | 1.2 kN | 410 mm |

Deformation measurement point m
According to IEC 61537, chapter 10.8.1

Max. total load F = Cable weight + cable tray + bracket




**Load values for MWA 12 on suspended support - ceiling fastening**

| Max. total load F in kN | | | | |
|---|---|---|---|---|
| Bracket length in mm | 100 | 200 | 300 | 400 |
| Support | | | | |
| US 3 K/ 20–60 | 1.2 | 1.2 | 1.2 | 1.2 |
| US 3 K/ 70–120 | 1.2 | 1.2 | 1.2 | 1.2 |
| US 5 K/ 20–60 | 1.2 | 1.2 | 1.2 | 1.2 |
| US 5 K/ 70 120 | 1.2 | 1.2 | 1.2 | 1.2 |

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

**Characteristic anchor load values for wall and support bracket MWA 12 - wall fastening**

| Load [kN] | | | | |
|---|---|---|---|---|
| Bracket width [mm] | 110% | 210 | 310 | 410 |
| Anchor type | | | | |
| BZ3 10x90/0-30 | 1.2 | 1.2 | 1.2 | 1.2 |

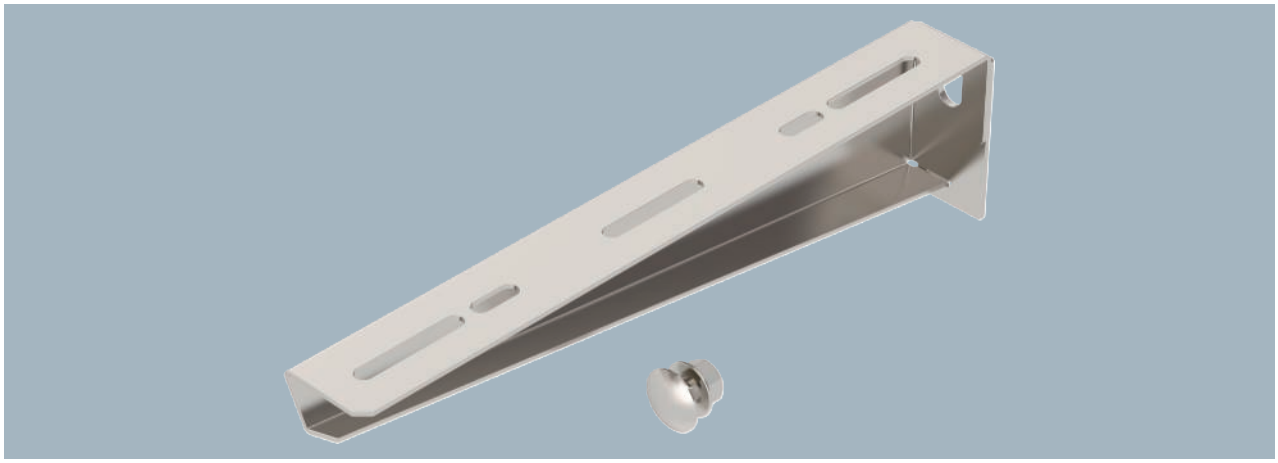
The load capacity values increase considerably when used in uncracked concrete. The stated values are based on cracked concrete of compressive strength C20/25. Please comply with the installation conditions of ETA(anchors).



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## Wall and support bracket MWA 12

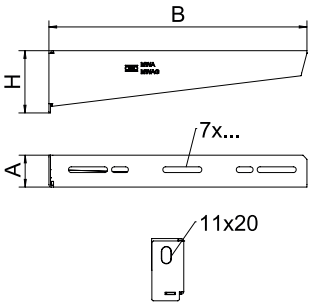
A2 A4 2B



| Type | Width mm | F in kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **MWA 12 11S A2** | 110 | 1.2 | | 1 | 16.000 | **6424430** |
| **MWA 12 21S A2** | 210 | 1.2 | | 1 | 26.900 | **6424432** |
| **MWA 12 31S A2** | 310 | 1.2 | | 1 | 51.800 | **6424434** |
| **MWA 12 41S A2** | 410 | 1.2 | | 1 | 69.200 | **6424436** |
| **MWA 12 11S A4** | 110 | 1.2 | | 1 | 16.000 | **6424440** |
| **MWA 12 21S A4** | 210 | 1.2 | | 1 | 26.900 | **6424442** |
| **MWA 12 31S A4** | 310 | 1.2 | | 1 | 51.800 | **6424444** |
| **MWA 12 41S A4** | 410 | 1.2 | | 1 | 69.200 | **6424446** |

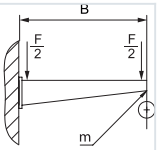
Including truss-head bolt M10 x 25 for fastening to U supports.

Light-duty wall and support bracket.




**Load characteristics wall and support bracket MWA 12**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| MWA 12 11S FS | 1.2 kN | 110 mm |
| MWA 12 21S FS | 1.2 kN | 210 mm |
| MWA 12 31S FS | 1.2 kN | 310 mm |
| MWA 12 41S FS | 1.2 kN | 410 mm |




Deformation measurement point m
According to IEC 61537, chapter 10.8.1

Max. total load F = cable weight + cable tray + bracket

**Load values for MWA 12 on suspended support - Ceiling fastening**

| Max. total load F in kN | | | | |
|---|---|---|---|---|
| Bracket length in mm | 100 | 200 | 300 | 400 |
| Support | | | | |
| US 3 K/ 20 - 60 | 1.2 | 1.2 | 1.2 | 1.2 |
| US 3 K/ 70 - 120 | 1.2 | 1.2 | 1.2 | 1.2 |
| US 5 K/ 20 - 60 | 1.2 | 1.2 | 1.2 | 1.2 |
| US 5 K/ 70 - 120 | 1.2 | 1.2 | 1.2 | 1.2 |

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

**Characteristic anchor load values for wall and support bracket MWA 12 - Wall fastening**

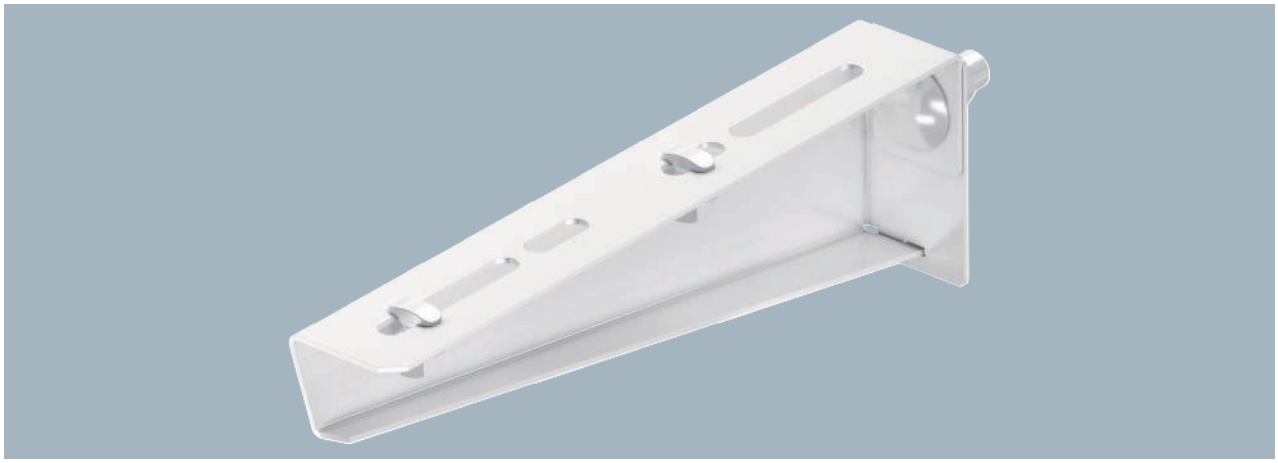
| Load [kN] | | | | |
|---|---|---|---|---|
| Bracket width [mm] | 110% | 210 | 310 | 410 |
| Anchor type | | | | |
| BZ3 10x90/0-30 | 1.2 | 1.2 | 1.2 | 1.2 |

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

**Load**

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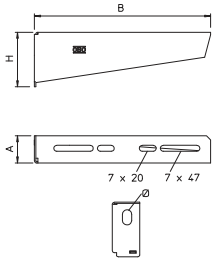
## Wall and support bracket MWA 12



Light-duty wall and support bracket.
Including truss-head bolt M10 x 25 for fastening to U supports.

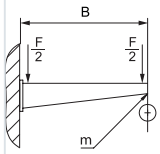
| Type | Width mm | F in kN kN | Colour | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **MWA 12 21SFSK RW** | 210 | 1.2 | Pure white | | 30 | 27.400 | **6424620** |

### Dimensions




| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| MWA 12 21SFSK RW | 210 | 32.5 | 65 | 11 |

### Load




**Characteristic load values for MWAG 12 wall and support bracket**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| MWAG 12 11 FS | 1.2 kN | 110 mm |
| MWAG 12 21 FS | 1.2 kN | 110 mm |
| MWAG 12 31 FS | 1.2 kN | 310 mm |
| MWAG 12 41 FS | 1.2 kN | 410 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

**Characteristic anchor load values for MWAG 12 wall and support bracket – wall fastening**

| Load [kN] | | | | | |
|---|---|---|---|---|---|
| Bracket width [mm] | 110 | 210 | 310 | 410 | |
| Anchor type | | | | | |
| BZ-U 8-10-21/75 | 1.2 | 0.95 | 0.7 | 0.65 | 410 |
| BZ-U 10-10-30/90 | 1.2 | 1.2 | 1.2 | 1.2 | 0.65 |
| | BZ-U 10-10-30/90 | 1.2 | 1.2 | 1.2 | 1.2 |

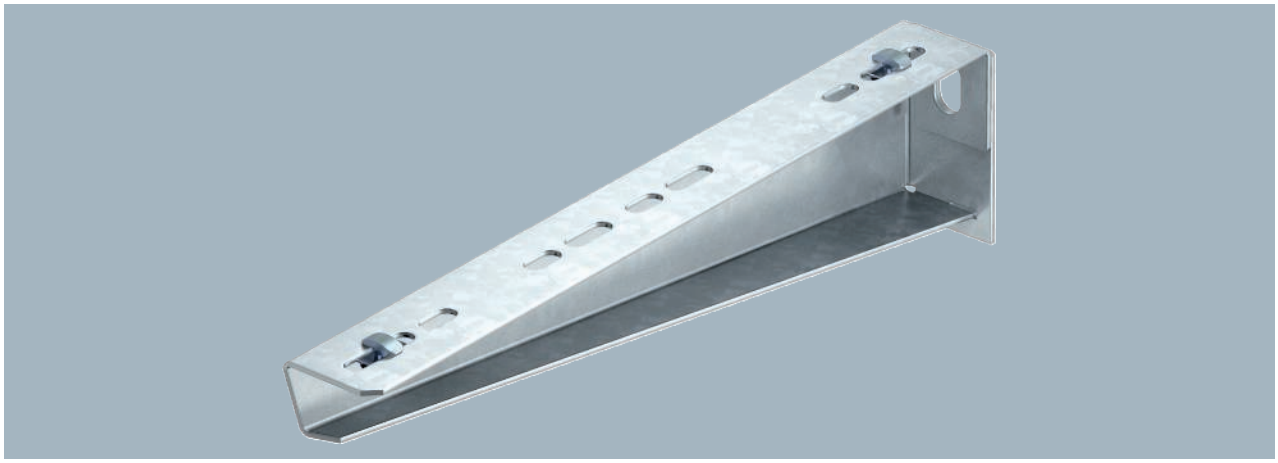
The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).



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## Wall and support bracket MWAM 12

St FS



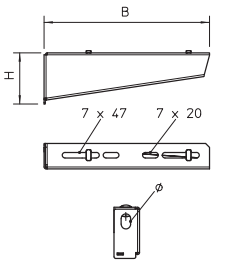
| Type | Width mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **MWAM 12 11 FS** | 110 | 1.2 | 1 | 19.500 | **6424550** |
| **MWAM 12 21 FS** | 210 | 1.2 | 1 | 26.000 | **6424552** |
| **MWAM 12 31 FS** | 310 | 1.2 | 1 | 51.900 | **6424554** |
| **MWAM 12 41 FS** | 410 | 1.2 | 1 | 69.700 | **6424556** |

Wall and support bracket MWAM.. including:
1. Two pre-mounted quick connectors for efficient cable tray fastening.
2. Truss-head bolt M10 x 25 for fastening on the U support.

Light-duty wall and support bracket including quick connector for use with cable trays of type RKSM.

### Dimensions

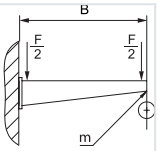
| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| MWAM 12 11 FS | 110 | 32.5 | 53 | 11 |
| MWAM 12 21 FS | 210 | 32.5 | 65 | 11 |
| MWAM 12 31 FS | 310 | 38 | 75 | 11 |
| MWAM 12 41 FS | 410 | 38 | 83 | 11 |




### Load

**Characteristic load values for MWAM 12 wall and support bracket**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| MWAM 12 11 FS | 1.2 kN | 110 mm |
| MWAM 12 21 FS | 1.2 kN | 210 mm |
| MWAM 12 31 FS | 1.2 kN | 310 mm |
| MWAM 12 41 FS | 1.2 kN | 410 mm |




Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

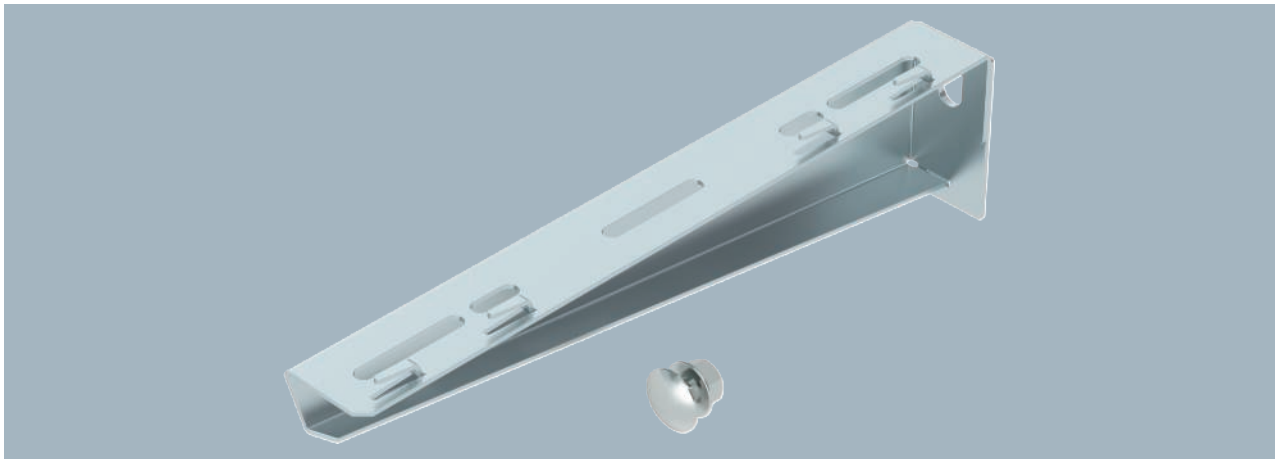
**Characteristic anchor load values for MWAM 12 wall and support bracket – wall fastening**

| Load [kN] | | | | | |
|---|---|---|---|---|---|
| Bracket width [mm] | 110 | 210 | 310 | 410 | |
| Anchor type | | | | | |
| BZ3 10x90/0-30 | 1.2 | 1.2 | 1.2 | 1.2 | 410 |
| BZ-U 10-10-30/90 | 1.2 | 1.2 | 1.2 | 1.2 | 0.65 |

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

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# Wall and support bracket MWAG 12

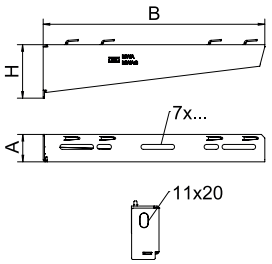


Including truss-head bolt M10 x 25 for fastening to U supports.

Light-duty wall and support bracket with edged design for screwless mesh cable tray fastening.

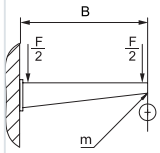
| Type | Width mm | F in kN kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **MWAG 12 11 FS** | 110 | 1.2 | | 1 | 12.700 | **6424600** |
| **MWAG 12 21 FS** | 210 | 1.2 | | 1 | 24.400 | **6424608** |
| **MWAG 12 31 FS** | 310 | 1.2 | | 1 | 50.300 | **6424616** |
| **MWAG 12 41 FS** | 410 | 1.2 | | 1 | 68.000 | **6424624** |

## Dimensions




| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| MWAG 12 11 FS | 110 | 32.5 | 53 | 11 |
| MWAG 12 21 FS | 210 | 32.5 | 65 | 11 |
| MWAG 12 31 FS | 310 | 38 | 75 | 11 |
| MWAG 12 41 FS | 410 | 38 | 83 | 11 |

## Load




**Characteristic load values for MWAG 12 wall and support bracket**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| MWAG 12 11 FS | 1.2 kN | 110 mm |
| MWAG 12 21 FS | 1.2 kN | 210 mm |
| MWAG 12 31 FS | 1.2 kN | 310 mm |
| MWAG 12 41 FS | 1.2 kN | 410 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

**Characteristic anchor load values for MWAG 12 wall and support bracket – wall fastening**

| Load [kN] | | | | | |
|---|---|---|---|---|---|
| Bracket width [mm] | 110 | 210 | 310 | 410 | |
| Anchor type | | | | | |
| BZ3 10x90/0-30 | 1.2 | 1.2 | 1.2 | 1.2 | 410 |
| BZ-U 10-10-30/90 | 1.2 | 1.2 | 1.2 | 1.2 | 0.65 |

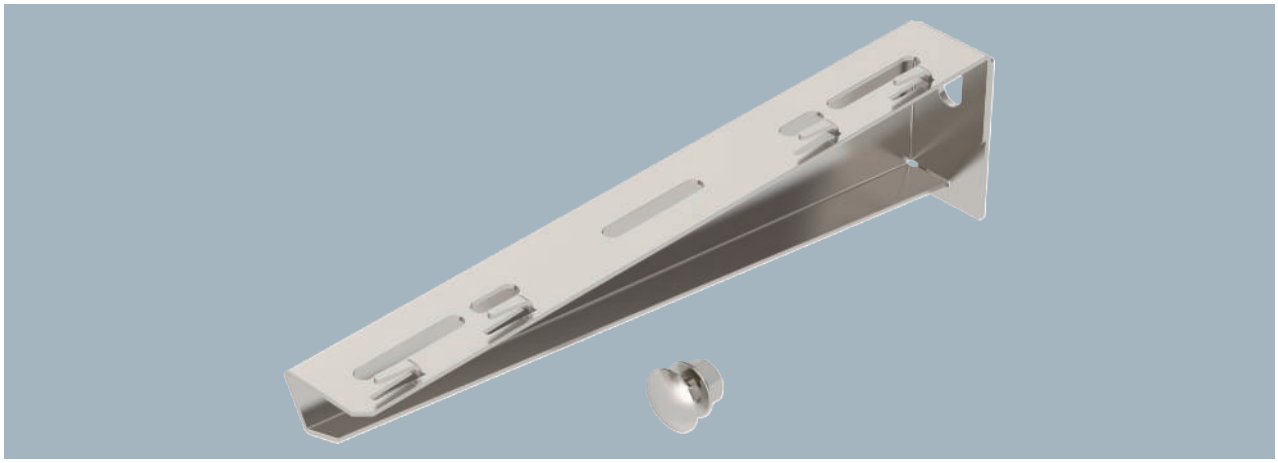
The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).



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## Wall and support bracket MWAG 12

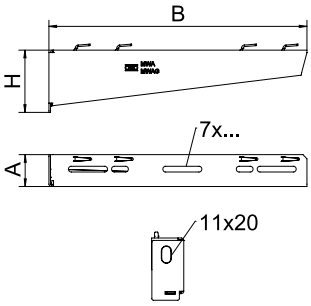
A2 A4 2B



| Type | Width mm | F in kN kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **MWAG 12 11 A2** | 110 | 1.2 | | 1 | 16.000 | **6424400** |
| **MWAG 12 21 A2** | 210 | 1.2 | | 1 | 26.900 | **6424402** |
| **MWAG 12 31 A2** | 310 | 1.2 | | 1 | 51.800 | **6424404** |
| **MWAG 12 41 A2** | 410 | 1.2 | | 1 | 69.200 | **6424406** |
| **MWAG 12 11 A4** | 110 | 1.2 | | 1 | 16.000 | **6424410** |
| **MWAG 12 21 A4** | 210 | 1.2 | | 1 | 26.900 | **6424412** |
| **MWAG 12 31 A4** | 310 | 1.2 | | 1 | 51.800 | **6424414** |
| **MWAG 12 41 A4** | 410 | 1.2 | | 1 | 69.200 | **6424416** |

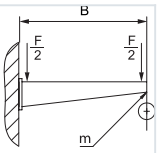
Including truss-head bolt M10 x 25 for fastening to U supports.

Light-duty wall and support bracket with edged design for screw-less mesh cable tray fastening.




**Characteristic load values for MWAG 12 wall and support bracket**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| MWAG 12 11 FS | 1.2 kN | 110 mm |
| MWAG 12 21 FS | 1.2 kN | 210 mm |
| MWAG 12 31 FS | 1.2 kN | 310 mm |
| MWAG 12 41 FS | 1.2 kN | 410 mm |




Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

**Characteristic anchor load values for MWAG 12 wall and support bracket – wall fastening**

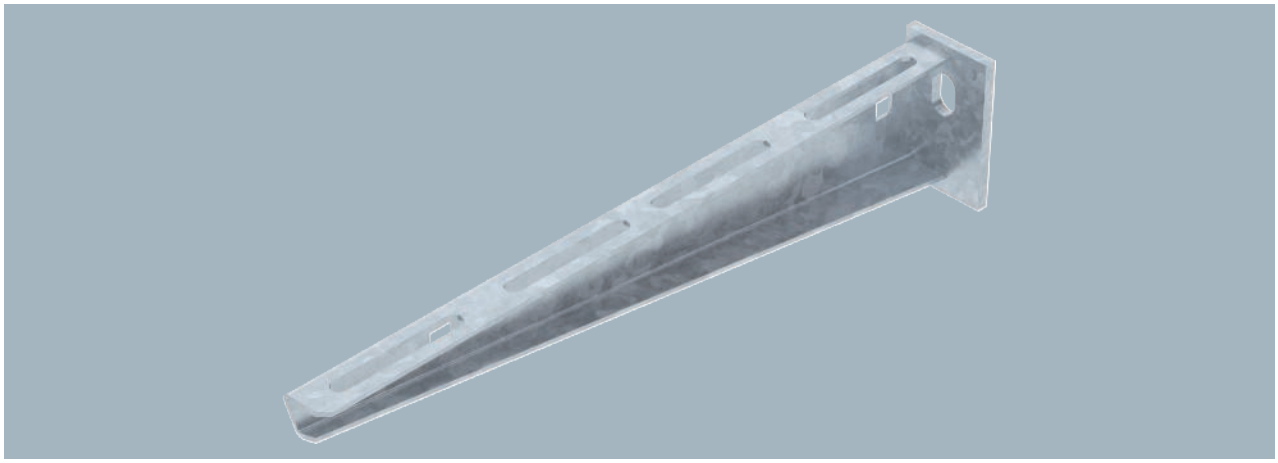
| Load [kN] | | | | |
|---|---|---|---|---|
| Bracket width [mm] | 110 | 210 | 310 | 410 |
| Anchor type | | | | |
| BZ-U 8-10-21/75 | 1.2 | 0.95 | 0.7 | 0.65 |
| BZ-U 10-10-30/90 | 1.2 | 1.2 | 1.2 | 1.2 |

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

**Load**

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## Wall and support bracket AW 15

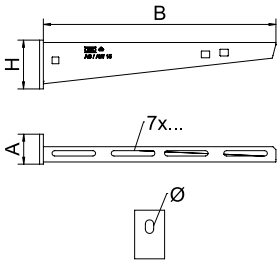


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate.

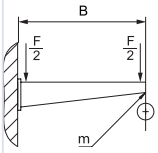
| Type | Width mm | F in kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **AW 15 11 FT** | 110 | 1.5 | 1 | 13.100 | **6420656** |
| **AW 15 16 FT** | 160 | 1.5 | 1 | 20.000 | **6420664** |
| **AW 15 21 FT** | 210 | 1.5 | 1 | 24.000 | **6420680** |
| **AW 15 31 FT** | 310 | 1.5 | 1 | 38.400 | **6420710** |
| **AW 15 41 FT** | 410 | 1.5 | 1 | 54.000 | **6420745** |
| **AW 15 51 FT** | 510 | 1.5 | 1 | 67.300 | **6420788** |
| **AW 15 56 FT** | 560 | 1.5 | 1 | 77.000 | **6420796** |
| **AW 15 61 FT** | 610 | 1.5 | 1 | 85.000 | **6420826** |

### Dimensions




| Type | Dim. B mm | Dim. A mm | Dim. H mm |
|---|---|---|---|
| AW 15 11 FT | 110 | 40 | 50 |
| AW 15 16 FT | 160 | 40 | 55 |
| AW 15 21 FT | 210 | 40 | 60 |
| AW 15 31 FT | 310 | 40 | 65 |
| AW 15 41 FT | 410 | 40 | 70 |
| AW 15 51 FT | 510 | 40 | 75 |
| AW 15 56 FT | 560 | 40 | 80 |
| AW 15 61 FT | 610 | 40 | 80 |

### Load




**Characteristic anchor load values for wall bracket AW 15 - wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AW 15 11 FT | 1.5 kN | 110 mm |
| AW 15 16 FT | 1.5 kN | 160 mm |
| AW 15 21 FT | 1.5 kN | 210 mm |
| AW 15 31 FT | 1.5 kN | 310 mm |
| AW 15 36 FT | 1.5 kN | 360 mm |
| AW 15 41 FT | 1.5 kN | 410 mm |
| AW 15 51 FT | 1.5 kN | 510 mm |
| AW 15 56 FT | 1.5 kN | 560 mm |
| AW 15 61 FT | 1.5 kN | 610 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1

Max. total load F = cable weight + cable tray + bracket

**Characteristic anchor load values for AW15 wall bracket – wall fastening**

| Load [kN] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 110% | 160 | 210 | 310 | 410 | 510 | 560 | 610 |
| Anchor type | | | | | | | | |
| BZ3 10x90/0-30 | 1.5 | 1.5 | 1.5 | 1.47 | 1.25 | 1.13 | 0.95 | 0.94 |

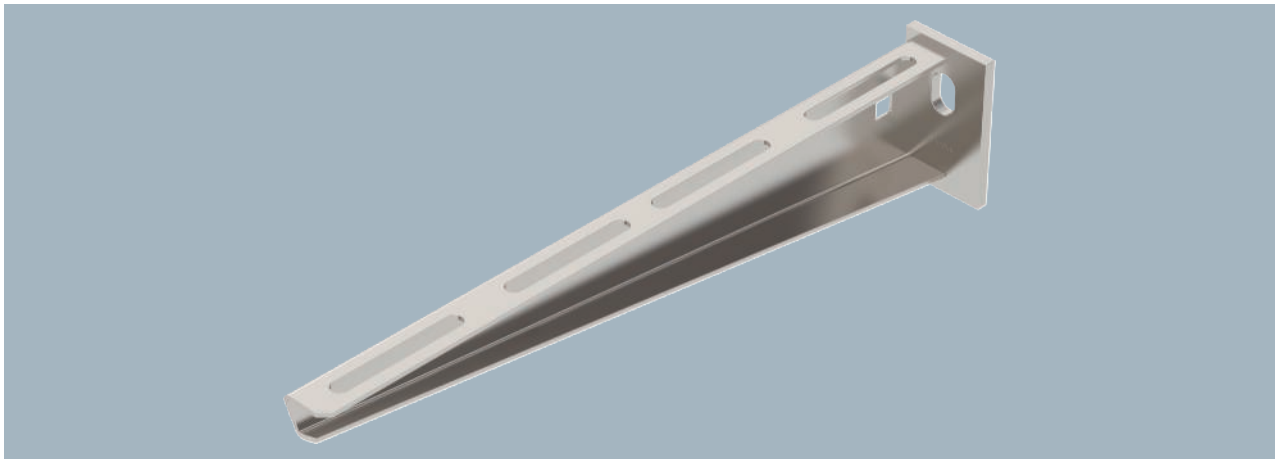
The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).



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A2 2B

## Wall and support bracket AW 15



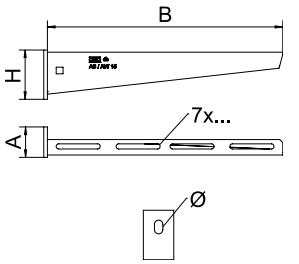
| Type | Width mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **AW 15 11 A2** | 110 | 1.5 | 1 | 12.500 | **6421008** |
| **AW 15 21 A2** | 210 | 1.5 | 1 | 24.000 | **6421024** |
| **AW 15 31 A2** | 310 | 1.5 | 1 | 38.200 | **6421032** |
| **AW 15 41 A2** | 410 | 1.5 | 1 | 55.000 | **6421036** |
| **AW 15 51 A2** | 510 | 1.5 | 1 | 64.400 | **6421040** |
| **AW 15 61 A2** | 610 | 1.5 | 1 | 85.000 | **6421044** |

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate.

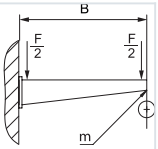
### Dimensions

| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AW 15 11 A2 | 110 | 40 | 50 | 11 |
| AW 15 21 A2 | 210 | 40 | 60 | 11 |
| AW 15 31 A2 | 310 | 40 | 65 | 11 |
| AW 15 41 A2 | 410 | 40 | 70 | 11 |
| AW 15 51 A2 | 510 | 40 | 75 | 11 |
| AW 15 61 A2 | 610 | 40 | 80 | 11 |




### Load

**Characteristic anchor load values for wall bracket AW 15 - wall fastening**




| Item on test | Force F (SWL) | Length L |
|---|---|---|
| AW 15 11 A2 | 0.15 kN | 110 mm |
| AW 15 21 A2 | 0.15 kN | 210 mm |
| AW 15 31 A2 | 0.15 kN | 310 mm |
| AW 15 41 A2 | 0.15 kN | 410 mm |
| AW 15 51 A2 | 0.15 kN | 510 mm |
| AW 15 61 A2 | 0.15 kN | 610 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

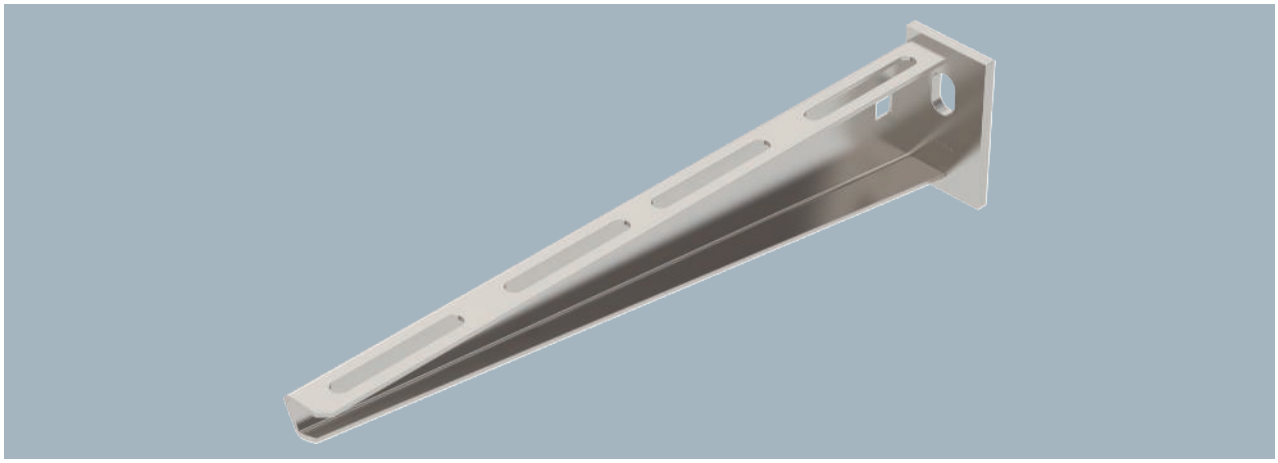
**Characteristic anchor load values for AW15 wall bracket – wall fastening**

| Load [kN] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 110% | 160 | 210 | 310 | 410 | 510 | 560 | 610 |
| Anchor type | | | | | | | | |
| BZ3 10x90/0-30 | 1.5 | 1.5 | 1.5 | 1.47 | 1.25 | 1.13 | 0.95 | 0.94 |

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

A4 2B

## Wall and support bracket AW 15

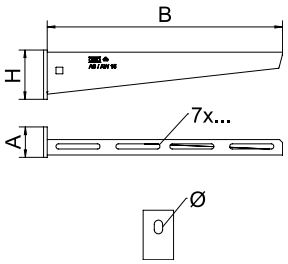


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate.

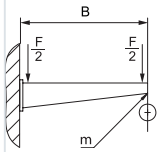
| Type | Width mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **AW 15 11 A4** | 110 | 1.5 | 1 | 12.500 | **6392008** |
| **AW 15 21 A4** | 210 | 1.5 | 1 | 24.000 | **6392016** |
| **AW 15 31 A4** | 310 | 1.5 | 1 | 37.400 | **6392024** |
| **AW 15 41 A4** | 410 | 1.5 | 1 | 55.000 | **6392032** |
| **AW 15 51 A4** | 510 | 1.5 | 1 | 64.400 | **6392040** |
| **AW 15 61 A4** | 610 | 1.5 | 1 | 85.000 | **6392059** |

### Dimensions




| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AW 15 11 A4 | 110 | 40 | 50 | 11 |
| AW 15 21 A4 | 210 | 40 | 60 | 11 |
| AW 15 31 A4 | 310 | 40 | 65 | 11 |
| AW 15 41 A4 | 410 | 40 | 70 | 11 |
| AW 15 51 A4 | 510 | 40 | 75 | 11 |
| AW 15 61 A4 | 610 | 40 | 80 | 11 |

### Load




**Characteristic anchor load values for wall bracket AW 15 - wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AW 15 11 A4 | 0.15 kN | 110 mm |
| AW 15 21 A4 | 0.15 kN | 210 mm |
| AW 15 31 A4 | 0.15 kN | 310 mm |
| AW 15 41 A4 | 0.15 kN | 410 mm |
| AW 15 51 A4 | 0.15 kN | 510 mm |
| AW 15 61 A4 | 0.15 kN | 610 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

**Characteristic anchor load values for AW15 wall bracket – wall fastening**

| Load [kN] | | | | |
|---|---|---|---|---|
| Bracket width [mm] | 110 | 210 | 310 | 410 |
| Anchor type | | | | |
| BZ-U 8-10-21/75 | 1.2 | 0.95 | 0.7 | 0.65 |
| BZ-U 10-10-30/90 | 1.2 | 1.2 | 1.2 | 1.2 |

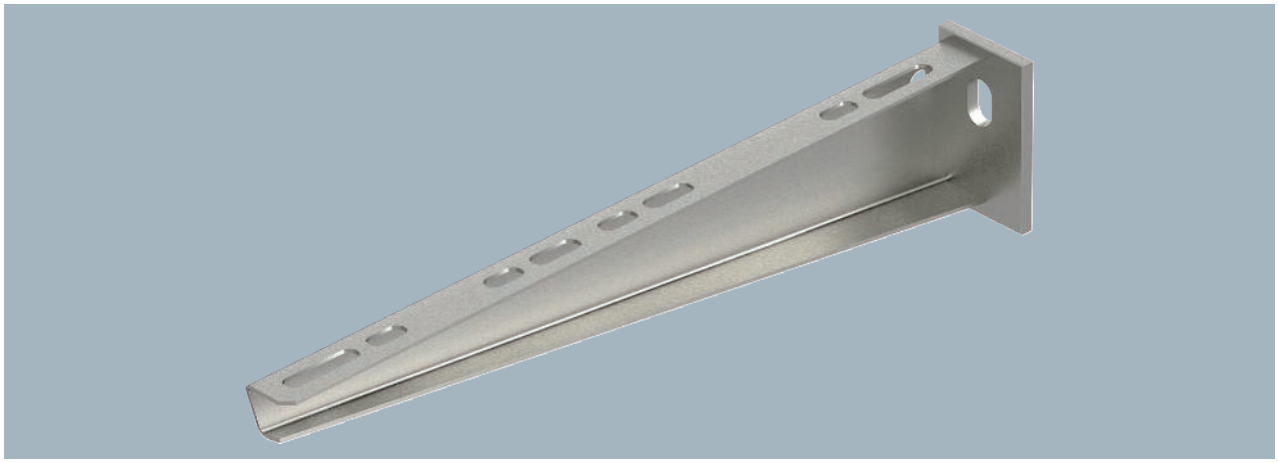
The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).



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VA

## Wall and support bracket AW 15



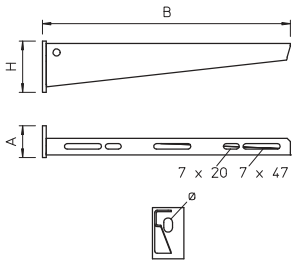
| Type | Width mm | F in kN kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **AW 15 21 VA4529** | 210 | 1.5 | | 30 | 24.000 | **6421192** |

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate.

| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AW 15 21 VA4529 | 210 | 40 | 60 | 11 |

### Dimensions



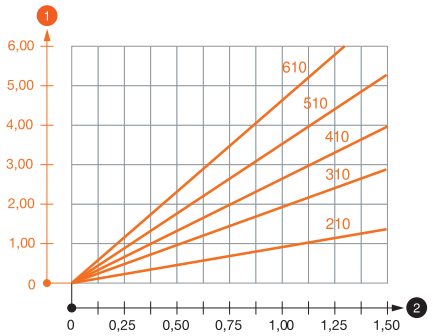

### Load

### Load diagram, bracket AW 15 VA

1 Bending of the bracket tip at permitted bracket load

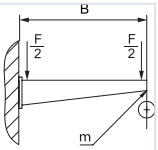
2 Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm




**Characteristic anchor load values for wall bracket AW 15 - Wall fastening**

| Test item | Force F (SWL) | Width B |
|---|---|---|
| AW 15 21 VA4529 | 1.5 kN | 210 mm |




Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

**Characteristic anchor load values for AW15 wall bracket – wall fastening**

| Load [kN] | | | | | |
|---|---|---|---|---|---|
| Bracket width [mm] | 110 | 210 | 310 | 410 | |
| Anchor type | | | | | |
| BZ-U 8-10-21/75 | 1.2 | 0.95 | 0.7 | 0.65 | 410 |
| BZ-U 10-10-30/90 | 1.2 | 1.2 | 1.2 | 1.2 | 0.65 |
| | BZ-U 10-10-30/90 | 1.2 | 1.2 | 1.2 | 1.2 |

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

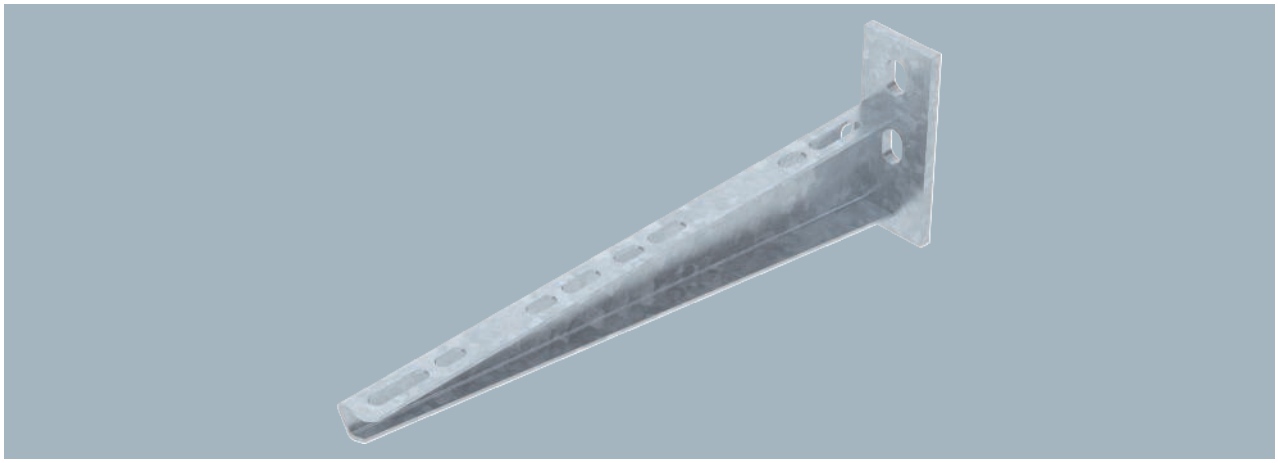
**Characteristic anchor load values for wall and support bracket AW 15**

| | Bracket load | | | | | |
|---|---|---|---|---|---|---|
| anchors Approved | Max. load F in kN Bracket length in mm | | | | | |
| F kN | 100 | 200 | 300 | 400 | 500 | 600 |
| 3.57 | 1,09 | 0,90 | 0,73 | 0,65 | 0,61 | 0,55 |

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

St FT

# Wall and support bracket AW 15 2L

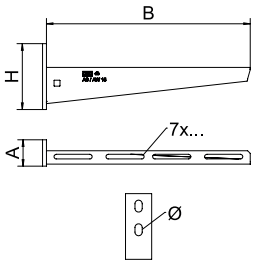


Wall and support bracket with welded head plate and two fastening holes.

The double-perforated bracket offers the special option of double anchoring on lightweight partitions and light masonry.

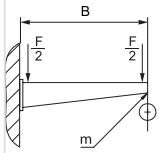
| Type | Width mm | F in kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **AW 15 11 FT 2L** | 110 | 1.5 | | 30 | 16.000 | **6420909** |
| **AW 15 16 FT 2L** | 160 | 1.5 | | 30 | 20.000 | **6420912** |
| **AW 15 21 FT 2L** | 210 | 1.5 | | 30 | 28.400 | **6420915** |
| **AW 15 31 FT 2L** | 310 | 1.5 | | 30 | 42.000 | **6420918** |
| **AW 15 41 FT 2L** | 410 | 1.5 | | 30 | 59.300 | **6420921** |
| **AW 15 51 FT 2L** | 510 | 1.5 | | 20 | 72.000 | **6420924** |
| **AW 15 61 FT 2L** | 610 | 1.5 | | 18 | 90.000 | **6420927** |

## Dimensions




| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AW 15 11 FT 2L | 110 | 40 | 44 | 11 |
| AW 15 16 FT 2L | 160 | 40 | 54 | 11 |
| AW 15 21 FT 2L | 210 | 40 | 54 | 11 |
| AW 15 31 FT 2L | 310 | 40 | 64 | 11 |
| AW 15 41 FT 2L | 410 | 40 | 64 | 11 |
| AW 15 51 FT 2L | 510 | 40 | 72 | 11 |
| AW 15 61 FT 2L | 610 | 40 | 77 | 11 |

## Load




**Characteristic anchor load values for wall bracket AW 15 - Wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AW 15 11 FT 2L | 1.5 kN | 110 mm |
| AW 15 16 FT 2L | 1.5 kN | 160 mm |
| AW 15 21 FT 2L | 1.5 kN | 210 mm |
| AW 15 31 FT 2L | 1.5 kN | 310 mm |
| AW 15 41 FT 2L | 1.5 kN | 410 mm |
| AW 15 51 FT 2L | 1.5 kN | 510 mm |
| AW 15 61 FT 2L | 1.5 kN | 610 mm |

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

**Characteristic anchor load values for AW15 wall bracket – wall fastening**

| Load [kN] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 110 | 160 | 210 | 310 | 410 | 510 | 560 | 610 |
| Anchor type | | | | | | | | |
| BZ3 10x90/0-30 | 1.5 | 1.5 | 1.5 | 1.47 | 1.25 | 1.13 | 0.95 | 0.94 |
| BZ-U 10-10-30/90 | 1.2 | 1.2 | 1.2 | 1.2 | 0.65 | | | |
| | BZ-U 10-10-30/90 | 1.2 | 1.2 | 1.2 | 1.2 | | | |

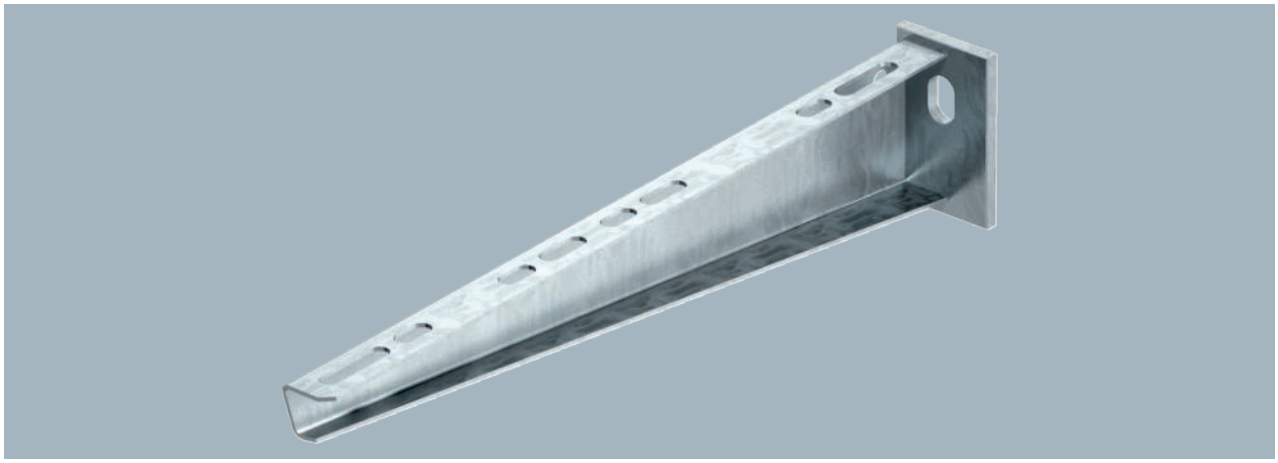
The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).



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## Wall and support bracket AW 15 FT SOMY

St FT SO

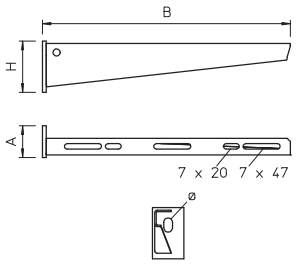


| Type | Width mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **AW 15 16 FT SO** | 160 | 1.5 | 30 | 21.000 | **7191923** |
| **AW 15 51 FT SO** | 510 | 1.5 | 20 | 68.900 | **7191931** |

Light-duty wall and support bracket with welded head plate.
Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

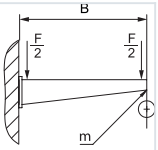
| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AW 15 16 FT SO | 160 | 40 | 55 | 11 |
| AW 15 51 FT SO | 510 | 40 | 75 | 11 |

### Dimensions




### Load

**Characteristic anchor load values for AW15 wall bracket – wall fastening**




| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AW 15 11 FT SO | 0.15 kN | 110 mm |
| AW 15 16 FT SO | 0.15 kN | 160 mm |
| AW 15 21 FT SO | 0.15 kN | 175 mm |
| AW 15 31 FT SO | 0.15 kN | 310 mm |
| AW 15 36 FT SO | 0.15 kN | 360 mm |
| AW 15 41 FT SO | 0.15 kN | 410 mm |
| AW 15 51 FT SO | 0.15 kN | 510 mm |
| AW 15 56 FT SO | 0.15 kN | 560 mm |
| AW 15 61 FT SO | 0.15 kN | 610 mm |

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

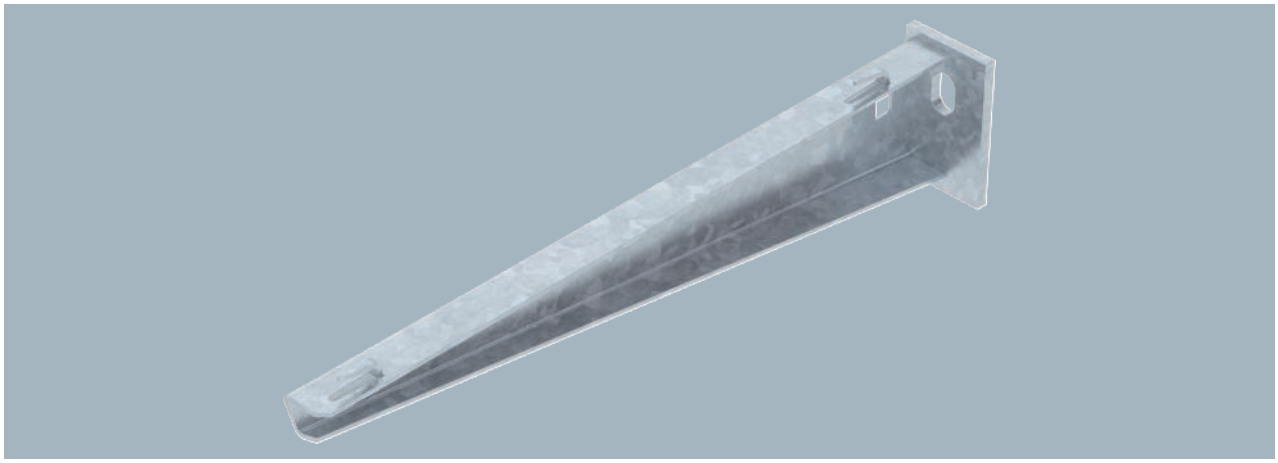
**Characteristic anchor load values for AW15 wall bracket – wall fastening**

| Load [kN] | | | | | |
|---|---|---|---|---|---|
| Bracket width [mm] | 110 | 210 | 310 | 410 | |
| Anchor type | | | | | |
| BZ-U 8-10-21/75 | 1.2 | 0.95 | 0.7 | 0.65 | 410 |
| BZ-U 10-10-30/90 | 1.2 | 1.2 | 1.2 | 1.2 | 0.65 |
| | BZ-U 10-10-30/90 | 1.2 | 1.2 | 1.2 | 1.2 |

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

St FT

## Wall and support bracket AWG 15

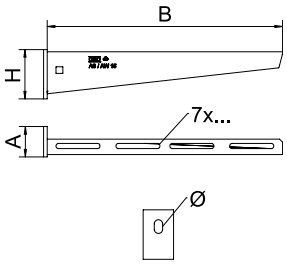


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

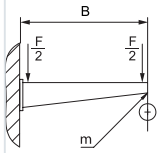
| Type | Width mm | F in kN | | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **AW G 15 11 FT** | 110 | 1.5 | | | 1 | 14.000 | **6420606** |
| **AW G 15 16 FT** | 160 | 1.5 | | | 1 | 20.000 | **6420607** |
| **AW G 15 21 FT** | 210 | 1.5 | | | 1 | 26.000 | **6420608** |
| **AW G 15 31 FT** | 310 | 1.5 | | | 1 | 35.000 | **6420610** |
| **AW G 15 41 FT** | 410 | 1.5 | | | 1 | 56.000 | **6420612** |
| **AW G 15 51 FT** | 510 | 1.5 | | | 1 | 69.000 | **6420614** |
| **AW G 15 61 FT** | 610 | 1.5 | | | 1 | 84.000 | **6420616** |

### Dimensions




| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AW G 15 11 FT | 110 | 40 | 50 | 11 |
| AW G 15 16 FT | 160 | 40 | 55 | 11 |
| AW G 15 21 FT | 210 | 40 | 60 | 11 |
| AW G 15 31 FT | 310 | 40 | 65 | 11 |
| AW G 15 41 FT | 410 | 40 | 70 | 11 |
| AW G 15 51 FT | 510 | 40 | 75 | 11 |
| AW G 15 61 FT | 610 | 40 | 80 | 11 |

### Load




**Characteristic anchor load values for wall bracket AWG 15 – wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AWG 15 11 FT | 0.15 kN | 110 mm |
| AWG 15 16 FT | 0.15 kN | 160 mm |
| AWG 15 21 FT | 0.15 kN | 210 mm |
| AWG 15 31 FT | 0.15 kN | 310 mm |
| AWG 15 41 FT | 0.15 kN | 410 mm |
| AWG 15 51 FT | 0.15 kN | 510 mm |
| AWG 15 61 FT | 0.15 kN | 610 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

**Characteristic anchor load values for AW G 15 wall bracket – wall fastening**

| Load [kN] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 110% | 160 | 210 | 310 | 410 | 510 | 560 | 610 |
| Anchor type | | | | | | | | |
| BZ3 10x90/0-30 | 1.5 | 1.5 | 1.5 | 1.47 | 1.25 | 1.13 | 0.95 | 0.94 |

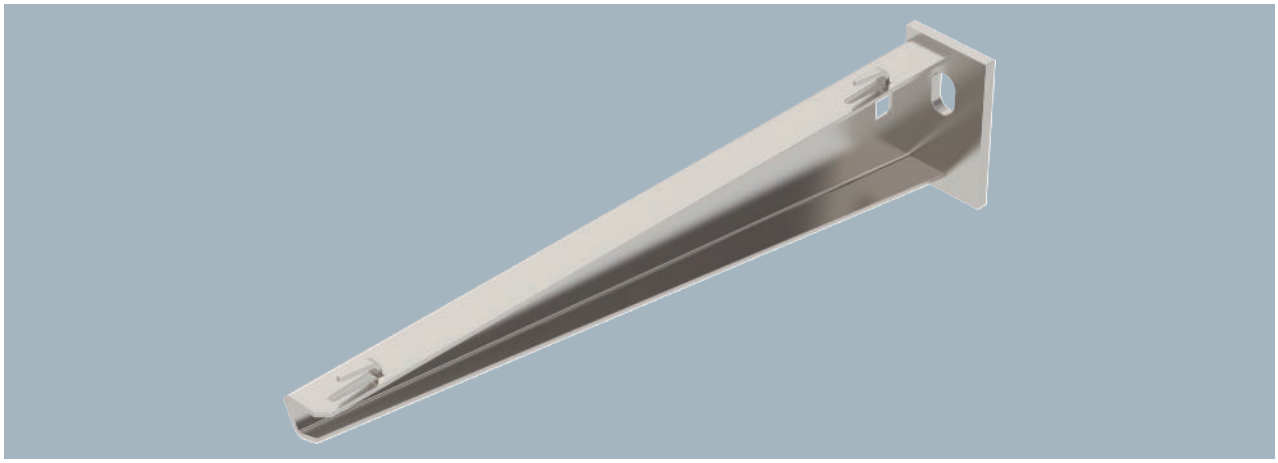
The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).



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## Wall and support bracket AWG 15

A2 2B



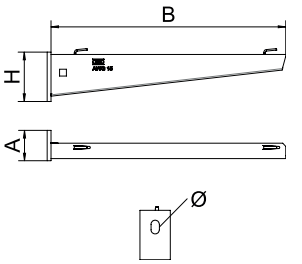
| Type | Width mm | F in kN kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **AWG 15 11 A2** | 110 | 1.5 | | 1 | 13.000 | **6420625** |
| **AWG 15 21 A2** | 210 | 1.5 | | 1 | 25.000 | **6420628** |
| **AWG 15 31 A2** | 310 | 1.5 | | 1 | 33.000 | **6420631** |
| **AWG 15 41 A2** | 410 | 1.5 | | 1 | 53.000 | **6420634** |
| **AWG 15 51 A2** | 510 | 1.5 | | 1 | 65.000 | **6420637** |
| **AWG 15 61 A2** | 610 | 1.5 | | 1 | 80.000 | **6420640** |

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

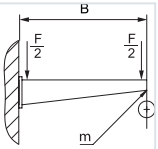
| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AWG 15 11 A2 | 110 | 40 | 50 | 11 |
| AWG 15 21 A2 | 210 | 40 | 60 | 11 |
| AWG 15 31 A2 | 310 | 40 | 65 | 11 |
| AWG 15 41 A2 | 410 | 40 | 70 | 11 |
| AWG 15 51 A2 | 510 | 40 | 75 | 11 |
| AWG 15 61 A2 | 610 | 40 | 80 | 11 |

### Dimensions




### Load

**Characteristic anchor load values for wall bracket AWG 15 - wall fastening**




| Item on test | Force F (SWL) | Length L |
|---|---|---|
| AWG 15 11 A2 | 0.15 kN | 110 mm |
| AWG 15 21 A2 | 0.15 kN | 210 mm |
| AWG 15 31 A2 | 0.15 kN | 310 mm |
| AWG 15 41 A2 | 0.15 kN | 410 mm |
| AWG 15 51 A2 | 0.15 kN | 510 mm |
| AWG 15 61 A2 | 0.15 kN | 610 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

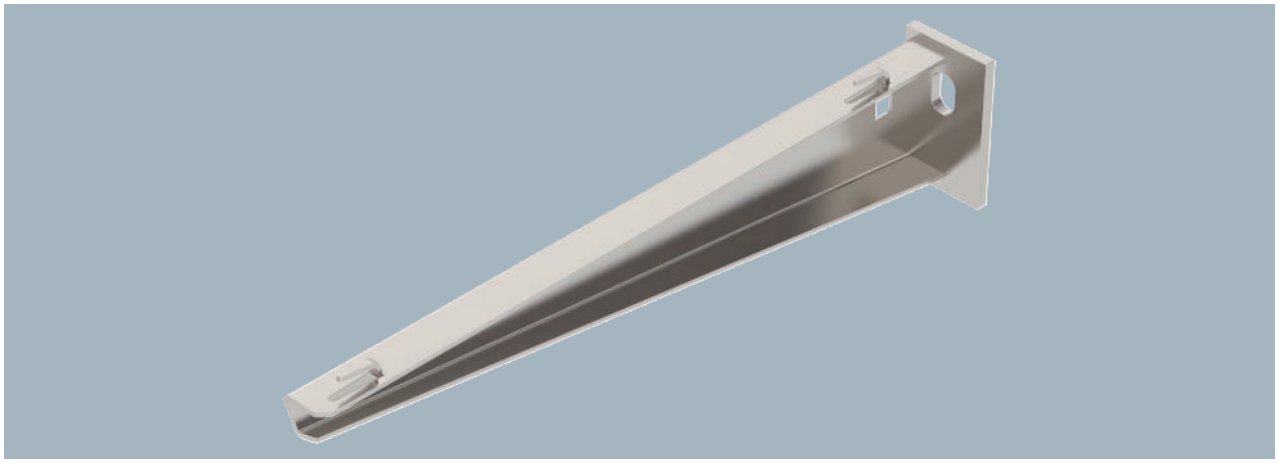
**Characteristic anchor load values for AW G 15 wall bracket – wall fastening**

| Load [kN] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 110% | 160 | 210 | 310 | 410 | 510 | 560 | 610 |
| Anchor type | | | | | | | | |
| BZ3 10x90/0-30 | 1.5 | 1.5 | 1.5 | 1.47 | 1.25 | 1.13 | 0.95 | 0.94 |

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

A4 2B

## Wall and support bracket AWG 15

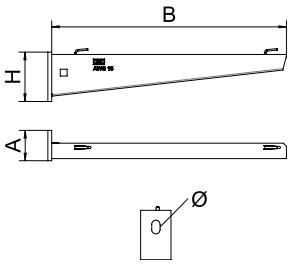


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

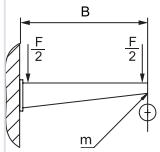
| Type | Width mm | F in kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **AWG 15 11 A4** | 110 | 1.5 | | 1 | 13.000 | **6420642** |
| **AWG 15 21 A4** | 210 | 1.5 | | 1 | 25.000 | **6420644** |
| **AWG 15 31 A4** | 310 | 1.5 | | 1 | 33.000 | **6420646** |
| **AWG 15 41 A4** | 410 | 1.5 | | 1 | 53.000 | **6420648** |
| **AWG 15 51 A4** | 510 | 1.5 | | 1 | 65.000 | **6420650** |
| **AWG 15 61 A4** | 610 | 1.5 | | 1 | 80.000 | **6420652** |

### Dimensions




| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AWG 15 11 A4 | 110 | 40 | 50 | 11 |
| AWG 15 21 A4 | 210 | 40 | 60 | 11 |
| AWG 15 31 A4 | 310 | 40 | 65 | 11 |
| AWG 15 41 A4 | 410 | 40 | 70 | 11 |
| AWG 15 51 A4 | 510 | 40 | 75 | 11 |
| AWG 15 61 A4 | 610 | 40 | 80 | 11 |

### Load




**Characteristic anchor load values for wall bracket AWG 15 - wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AWG 15 11 A4 | 0.15 kN | 110 mm |
| AWG 15 21 A4 | 0.15 kN | 210 mm |
| AWG 15 31 A4 | 0.15 kN | 310 mm |
| AWG 15 41 A4 | 0.15 kN | 410 mm |
| AWG 15 51 A4 | 0.15 kN | 510 mm |
| AWG 15 61 A4 | 0.15 kN | 610 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

**Characteristic anchor load values for AW G 15 wall bracket – wall fastening**

| Load [kN] | | | | |
|---|---|---|---|---|
| Bracket width [mm] | 110 | 210 | 310 | 410 |
| Anchor type | | | | |
| BZ-U 8-10-21/75 | 1.2 | 0.95 | 0.7 | 0.65 |
| BZ-U 10-10-30/90 | 1.2 | 1.2 | 1.2 | 1.2 |

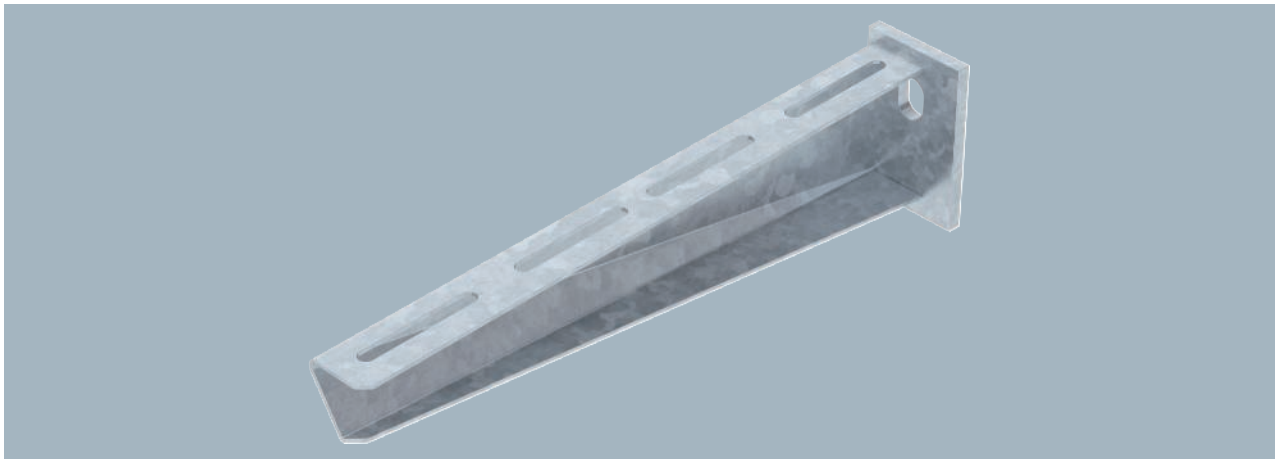
The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).



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## Wall and support bracket AW 30

St FT



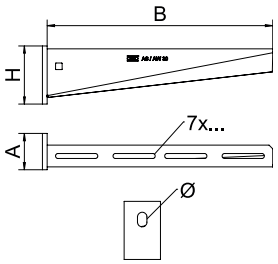
| Type | Width mm | F in kN | BS | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **AW 30 11 FT** | 110 | 3 | | 1 | 22.000 | **6419704** |
| **AW 30 16 FT** | 160 | 3 | | 1 | 33.000 | **6419712** |
| **AW 30 21 FT** | 210 | 3 | | 1 | 39.300 | **6419720** |
| **AW 30 31 FT** | 310 | 3 | | 1 | 63.000 | **6419747** |
| **AW 30 41 FT** | 410 | 3 | | 1 | 88.500 | **6419763** |
| **AW 30 51 FT** | 510 | 3 | | 1 | 129.000 | **6419798** |
| **AW 30 56 FT** | 560 | 3 | | 1 | 148.800 | **6419844** |
| **AW 30 61 FT** | 610 | 3 | | 1 | 157.000 | **6419828** |
| **AW 30 71 FT** | 710 | 3 | | 1 | 207.000 | **6419836** |

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Medium-duty wall and support bracket with welded head plate.

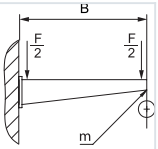
| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AW 30 11 FT | 110 | 50 | 60 | 11 |
| AW 30 16 FT | 160 | 50 | 65 | 11 |
| AW 30 21 FT | 210 | 50 | 70 | 13 |
| AW 30 31 FT | 310 | 50 | 80 | 13 |
| AW 30 41 FT | 410 | 50 | 80 | 13 |
| AW 30 51 FT | 510 | 50 | 90 | 13 |
| AW 30 56 FT | 560 | 50 | 100 | 13 |
| AW 30 61 FT | 610 | 50 | 100 | 13 |
| AW 30 71 FT | 710 | 50 | 100 | 13 |

**Dimensions**




**Characteristic anchor load values for wall bracket AW 30 - wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AW 30 11 FT | 3 kN | 110 mm |
| AW 30 16 FT | 3 kN | 160 mm |
| AW 30 21 FT | 3 kN | 210 mm |
| AW 30 31 FT | 3 kN | 310 mm |
| AW 30 41 FT | 3 kN | 410 mm |
| AW 30 51 FT | 3 kN | 510 mm |
| AW 30 61 FT | 3 kN | 610 mm |
| AW 30 71 FT | 3 kN | 710 mm |




Deformation measuring point m
According to IEC 61537, Chapter 10.8.1

Max. total load F = cable weight + cable tray + bracket

**Load**

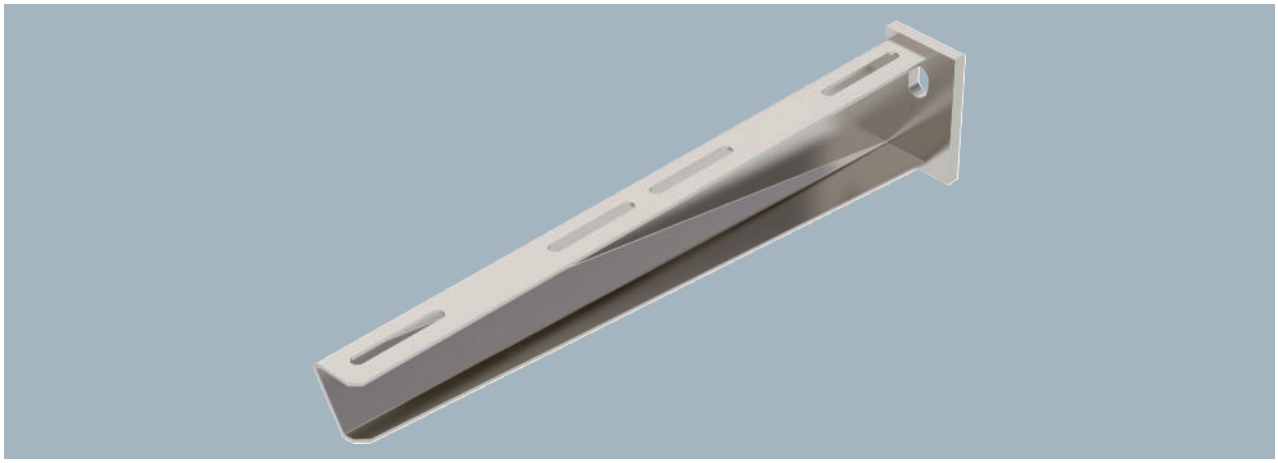
**Characteristic anchor load values for AW 30 wall and support bracket – wall fastening**

| Load [kN] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 110% | 160 | 210 | 310 | 410 | 510 | 560 | 610 | 710 |
| Anchor type | | | | | | | | | |
| BZ3 10x90/0-30 | 3.00 | 2.10 | | | | | | | |
| BZ3 12x110/0-35 | | | 3.00 | 2.71 | 2.07 | 2.02 | 1.98 | 1.98 | 1.51 |

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

A2 2B

# Wall and support bracket AW 30

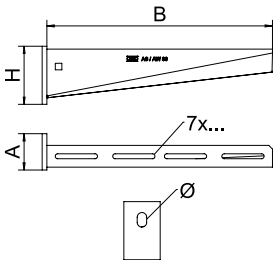


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Medium-duty wall and support bracket with welded head plate.

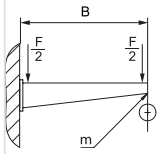
| Type | Width mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **AW 30 11 A2** | 110 | 3 | 1 | 21.000 | **6442803** |
| **AW 30 21 A2** | 210 | 3 | 1 | 37.500 | **6442838** |
| **AW 30 31 A2** | 310 | 3 | 1 | 60.500 | **6442854** |
| **AW 30 41 A2** | 410 | 3 | 1 | 85.200 | **6442870** |
| **AW 30 51 A2** | 510 | 3 | 1 | 124.800 | **6442897** |
| **AW 30 61 A2** | 610 | 3 | 1 | 154.000 | **6442919** |

## Dimensions




| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AW 30 11 A2 | 110 | 50 | 60 | 11 |
| AW 30 21 A2 | 210 | 50 | 70 | 13 |
| AW 30 31 A2 | 310 | 50 | 80 | 13 |
| AW 30 41 A2 | 410 | 50 | 80 | 13 |
| AW 30 51 A2 | 510 | 50 | 90 | 13 |
| AW 30 61 A2 | 610 | 50 | 100 | 13 |

## Load




**Characteristic anchor load values for wall bracket AW 30 - wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AW 30 11 A2 | 3 kN | 110 mm |
| AW 30 21 A2 | 3 kN | 210 mm |
| AW 30 31 A2 | 3 kN | 310 mm |
| AW 30 41 A2 | 3 kN | 410 mm |
| AW 30 51 A2 | 3 kN | 510 mm |
| AW 30 61 A2 | 3 kN | 610 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

**Characteristic anchor load values for AW 30 wall and support bracket – wall fastening**

| Load [kN] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 110% | 160 | 210 | 310 | 410 | 510 | 560 | 610 | 710 |
| Anchor type | | | | | | | | | |
| BZ3 10x90/0-30 | 3.00 | 2.10 | 1.65 | 1.4 | 1.5 | 1 | 1 | | |
| BZ3 12x110/0-35 | 3.00 | 2.65 | 3.00 | 2.71 | 2.07 | 2.02 | 1.98 | 1.98 | 1.51 |

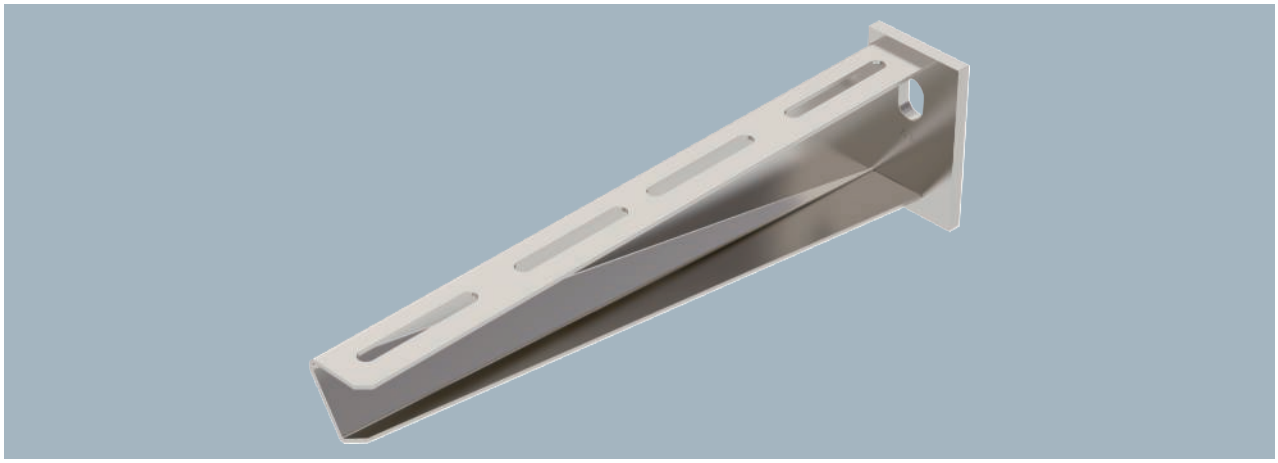
The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).



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A4 2B

## Wall and support bracket AW 30



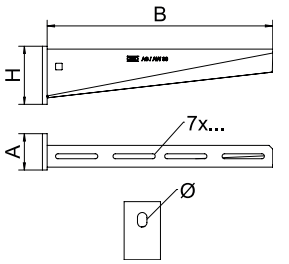
| Type | Width mm | F in kN kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **AW 30 11 A4** | 110 | 3 | | 1 | 21.000 | **6443615** |
| **AW 30 21 A4** | 210 | 3 | | 1 | 37.500 | **6443311** |
| **AW 30 31 A4** | 310 | 3 | | 1 | 60.500 | **6443621** |
| **AW 30 41 A4** | 410 | 3 | | 1 | 85.200 | **6443346** |
| **AW 30 51 A4** | 510 | 3 | | 1 | 124.800 | **6443625** |
| **AW 30 61 A4** | 610 | 3 | | 1 | 154.000 | **6443627** |

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Medium-duty wall and support bracket with welded head plate.

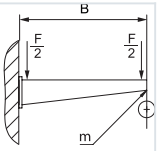
### Dimensions

| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AW 30 11 A4 | 110 | 50 | 60 | 11 |
| AW 30 21 A4 | 210 | 50 | 70 | 13 |
| AW 30 31 A4 | 310 | 50 | 80 | 13 |
| AW 30 41 A4 | 410 | 50 | 80 | 13 |
| AW 30 51 A4 | 510 | 50 | 90 | 13 |
| AW 30 61 A4 | 610 | 50 | 100 | 13 |




### Load

**Characteristic anchor load values for wall bracket AW 30 - wall fastening**




| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AW 30 11 A4 | 3 kN | 110 mm |
| AW 30 21 A4 | 3 kN | 210 mm |
| AW 30 31 A4 | 3 kN | 310 mm |
| AW 30 41 A4 | 3 kN | 410 mm |
| AW 30 51 A4 | 3 kN | 510 mm |
| AW 30 61 A4 | 3 kN | 610 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

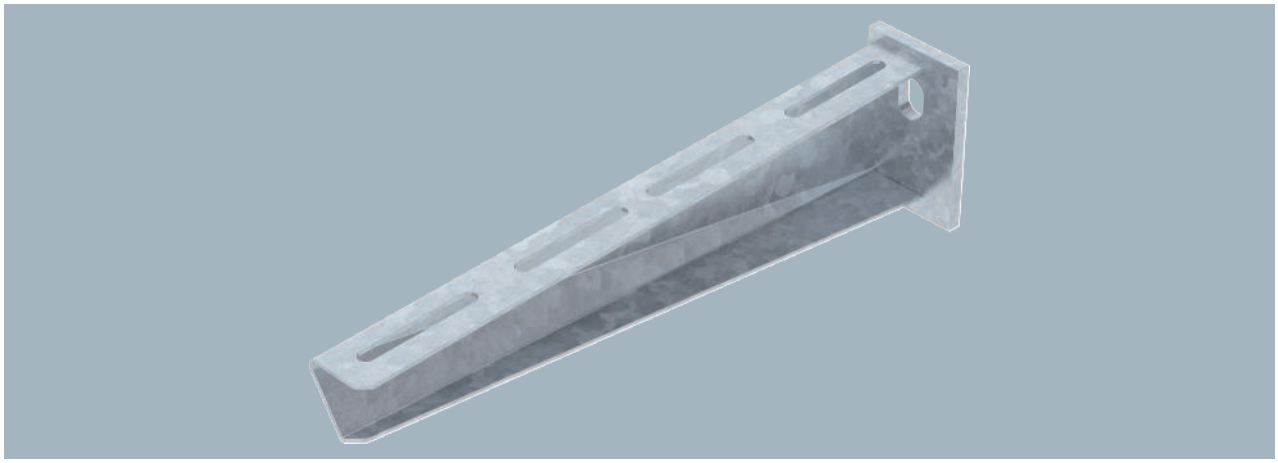
**Characteristic anchor load values for AW 30 wall and support bracket – wall fastening**

| Load [kN] | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 110 | 160 | 210 | 310 | 410 | 510 | 560 |
| Anchor type | | | | | | | |
| BZ-U 10-10-30/90 | 1.5 | 2.1 | 1.65 | 1.4 | 1.5 | 1 | 1 |
| BZ 12-15-35/110 | 3.00 | 2.65 | 2.9 | 1.5 | 1.9 | 1.8 | 1.75 |

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

St FT

## Wall and support bracket AW 30

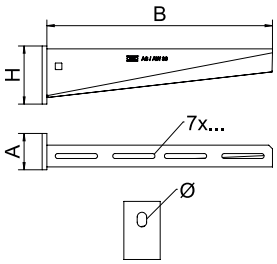


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Medium-duty wall and support bracket with welded head plate.

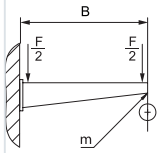
| Type | Width mm | F in kN kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **AW 30 26 FT** | 260 | 3 | | 1 | 53.000 | **6419739** |

### Dimensions




| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AW 30 26 FT | 260 | 50 | 70 | 13 |

### Load




**Characteristic anchor load values for wall bracket AW 30 - wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AW 30 11 FT | 3 kN | 110 mm |
| AW 30 16 FT | 3 kN | 160 mm |
| AW 30 21 FT | 3 kN | 210 mm |
| AW 30 31 FT | 3 kN | 310 mm |
| AW 30 41 FT | 3 kN | 410 mm |
| AW 30 51 FT | 3 kN | 510 mm |
| AW 30 61 FT | 3 kN | 610 mm |
| AW 30 71 FT | 3 kN | 710 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1

Max. total load F = cable weight + cable tray + bracket

**Characteristic anchor load values for AW 30 wall and support bracket – wall fastening**

| Load [kN] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 110% | 160 | 210 | 310 | 410 | 510 | 560 | 610 | 710 |
| Anchor type | | | | | | | | | |
| BZ3 10x90/0-30 | 3.00 | 2.10 | | | | | | | |
| BZ3 12x110/0-35 | | | 3.00 | 2.71 | 2.07 | 2.02 | 1.98 | 1.98 | 1.51 |

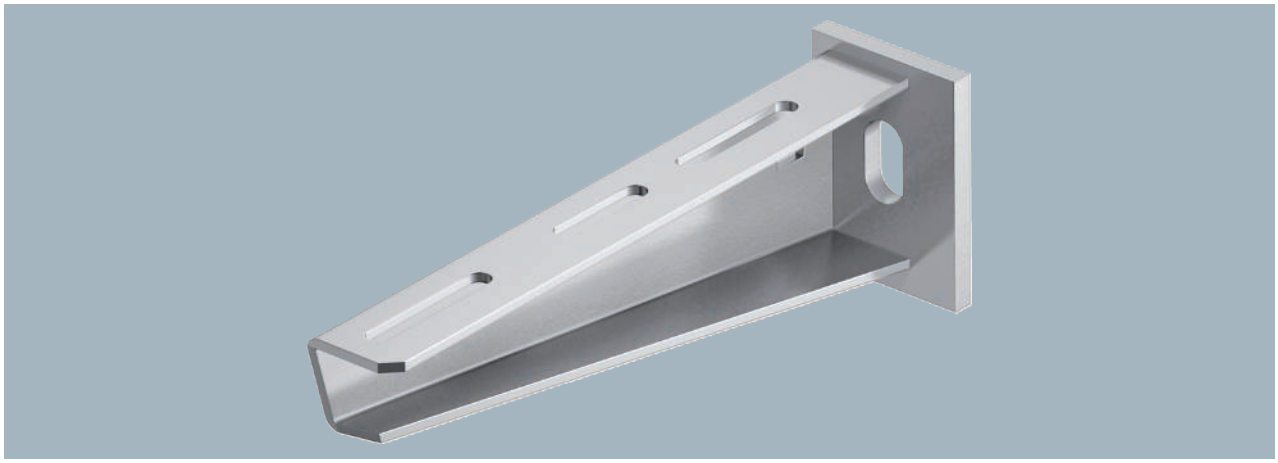
The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).



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VA

## Wall and support bracket AW 30

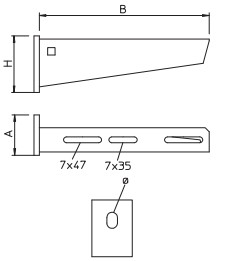


| Type | Width mm | F in kN kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **AW 30 21 VA4529** | 210 | 3 | | 1 | 37.500 | **6443632** |

Medium-duty wall and support bracket with welded head plate.
Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AW 30 21 VA4529 | – | 50 | 70 | 13 |

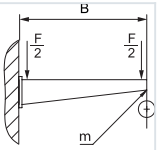
### Dimensions




### Load

**Characteristic anchor load values for AW30 wall bracket – wall fastening**

| Test item | Force F (SWL) | Width B |
|---|---|---|
| AW 30 21 VA4529 | 3 kN | 210 mm |



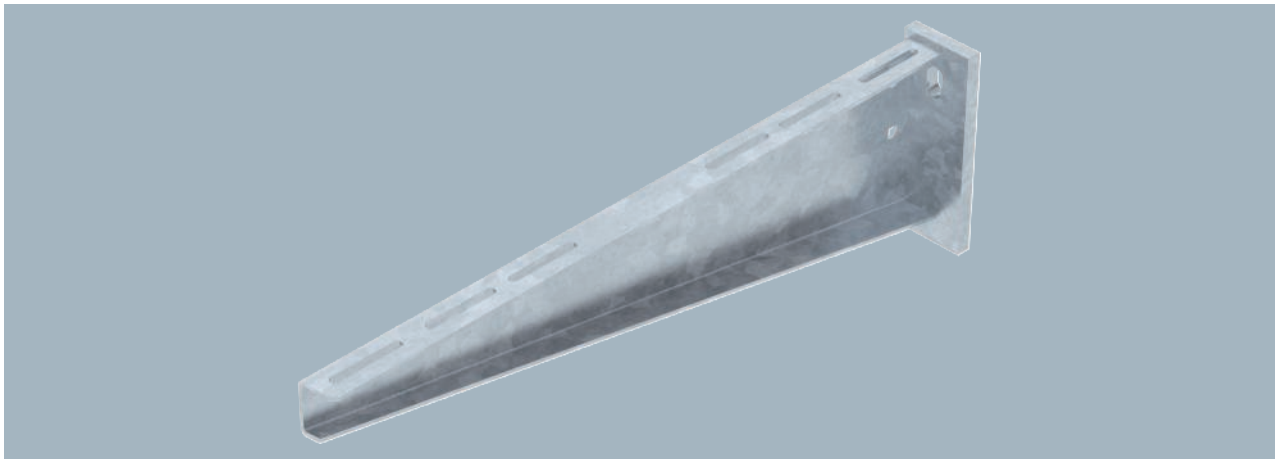

**Characteristic anchor load values for AW 30 wall and support bracket – wall fastening**

| Load [kN] | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 110 | 160 | 210 | 310 | 410 | 510 | 560 |
| Anchor type | | | | | | | |
| BZ-U 10-10-30/90 | 1.5 | 2.1 | 1.65 | 1.4 | 1.5 | 1 | 1 |
| BZ 12-15-35/110 | 3.00 | 2.65 | 2.9 | 1.5 | 1.9 | 1.8 | 1.75 |

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

St FT

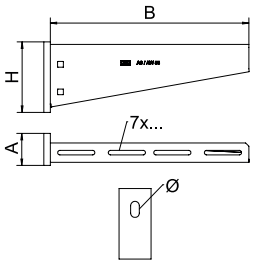
## Wall and support bracket AW 55



Heavy-duty wall and support bracket with welded head plate.
Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

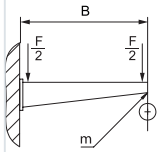
| Type | Width mm | F in kN | BS | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **AW 55 21 FT** | 210 | 5.5 | | 1 | 75.700 | **6418554** |
| **AW 55 31 FT** | 310 | 5.5 | | 1 | 122.000 | **6418570** |
| **AW 55 41 FT** | 410 | 5.5 | | 1 | 164.400 | **6418597** |
| **AW 55 51 FT** | 510 | 5.5 | | 1 | 238.200 | **6418619** |
| **AW 55 56 FT** | 560 | 5.5 | | 1 | 282.000 | **6418627** |
| **AW 55 61 FT** | 610 | 5.5 | | 1 | 305.000 | **6418635** |
| **AW 55 71 FT** | 710 | 5.5 | | 1 | 418.000 | **6418651** |
| **AW 55 81 FT** | 810 | 5.5 | | 1 | 477.000 | **6418686** |
| **AW 55 91 FT** | 910 | 5.5 | | 1 | 558.000 | **6418708** |
| **AW 55 101 FT** | 1010 | 5.5 | | 1 | 640.000 | **6418724** |

### Dimensions




| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AW 55 21 FT | 210 | 50 | 90 | 13.5 |
| AW 55 31 FT | 310 | 50 | 110 | 13.5 |
| AW 55 41 FT | 410 | 50 | 130 | 13.5 |
| AW 55 51 FT | 510 | 60 | 145 | 13.5 |
| AW 55 56 FT | 560 | 60 | 165 | 13.5 |
| AW 55 61 FT | 610 | 60 | 165 | 13.5 |
| AW 55 71 FT | 710 | 60 | 195 | 13.5 |
| AW 55 81 FT | 810 | 60 | 195 | 13.5 |
| AW 55 91 FT | 910 | 60 | 215 | 13.5 |
| AW 55 101 FT | 1010 | 60 | 230 | 13.5 |

### Load




**Characteristic anchor load values for wall bracket AW 55 - wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AW 55 21 FT | 0.950 kN | 210 mm |
| AW 55 31 FT | 0.950 kN | 310 mm |
| AW 55 41 FT | 0.950 kN | 410 mm |
| AW 55 51 FT | 0.950 kN | 510 mm |
| AW 55 56 FT | 0.950 kN | 560 mm |
| AW 55 61 FT | 0.950 kN | 610 mm |
| AW 55 71 FT | 0.950 kN | 710 mm |
| AW 55 81 FT | 0.950 kN | 810 mm |
| AW 55 91 FT | 0.950 kN | 910 mm |
| AW 55 101 FT | 0.950 kN | 1,010 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

**Characteristic anchor load values for AW 55 wall and support bracket – wall fastening**

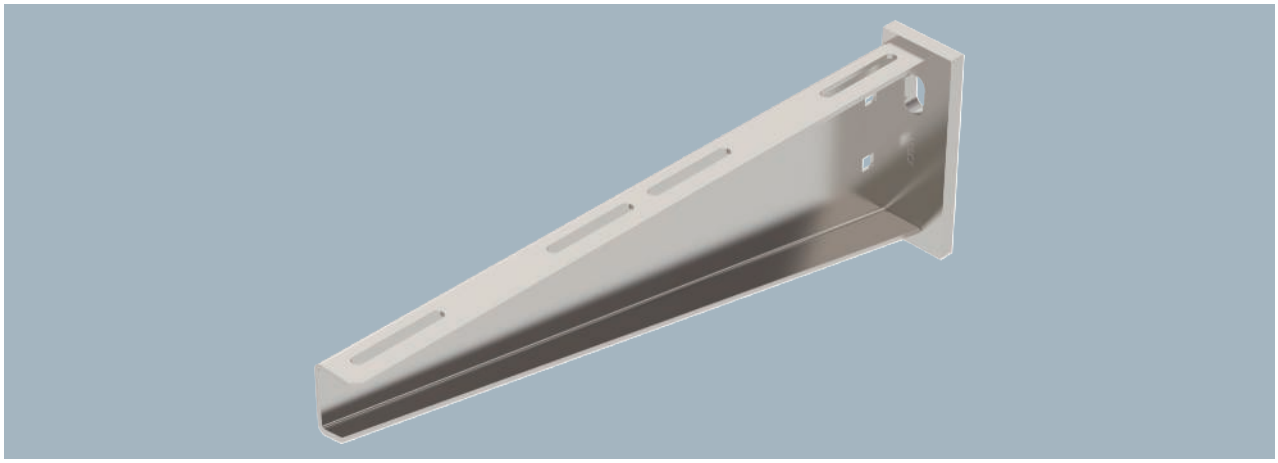
| Load [kN] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 210 | 310 | 410 | 510 | 560 | 610 | 710 | 810 | 910 | 1,010 |
| Anchor type | | | | | | | | | | |
| BZ3 12x110/0-35 | 3.92 | 3.83 | 3.79 | 3.46 | 3.30 | 3.30 | 3.15 | 2.53 | 2.38 | 2.23 |

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).



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## Wall and support bracket AW 55



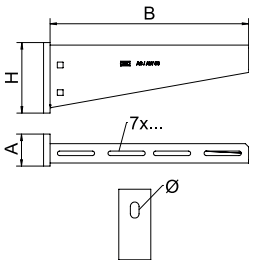
| Type | Width mm | F in kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **AW 55 21 A2** | 210 | 5.5 | | 1 | 77.000 | **6443063** |
| **AW 55 31 A2** | 310 | 5.5 | | 1 | 118.900 | **6443067** |
| **AW 55 41 A2** | 410 | 5.5 | | 1 | 162.800 | **6443071** |
| **AW 55 51 A2** | 510 | 5.5 | | 1 | 232.500 | **6443075** |
| **AW 55 61 A2** | 610 | 5.5 | | 1 | 305.000 | **6443079** |
| **AW 55 71 A2** | 710 | 5.5 | | 1 | 445.000 | **6443083** |

Heavy-duty wall and support bracket with welded head plate.

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

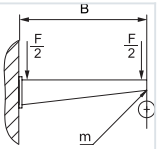
### Dimensions

| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AW 55 21 A2 | 210 | 50 | 90 | 13.5 |
| AW 55 31 A2 | 310 | 50 | 110 | 13.5 |
| AW 55 41 A2 | 410 | 50 | 130 | 13.5 |
| AW 55 51 A2 | 510 | 60 | 145 | 13.5 |
| AW 55 61 A2 | 610 | 60 | 165 | 13.5 |
| AW 55 71 A2 | 710 | 60 | 195 | 13.5 |




### Load

**Characteristic anchor load values for wall bracket AW 55 - wall fastening**




| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AW 55 21 A2 | 0.950 kN | 210 mm |
| AW 55 31 A2 | 0.950 kN | 310 mm |
| AW 55 41 A2 | 0.950 kN | 410 mm |
| AW 55 51 A2 | 0.950 kN | 510 mm |
| AW 55 61 A2 | 0.950 kN | 610 mm |
| AW 55 71 A2 | 0.950 kN | 710 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

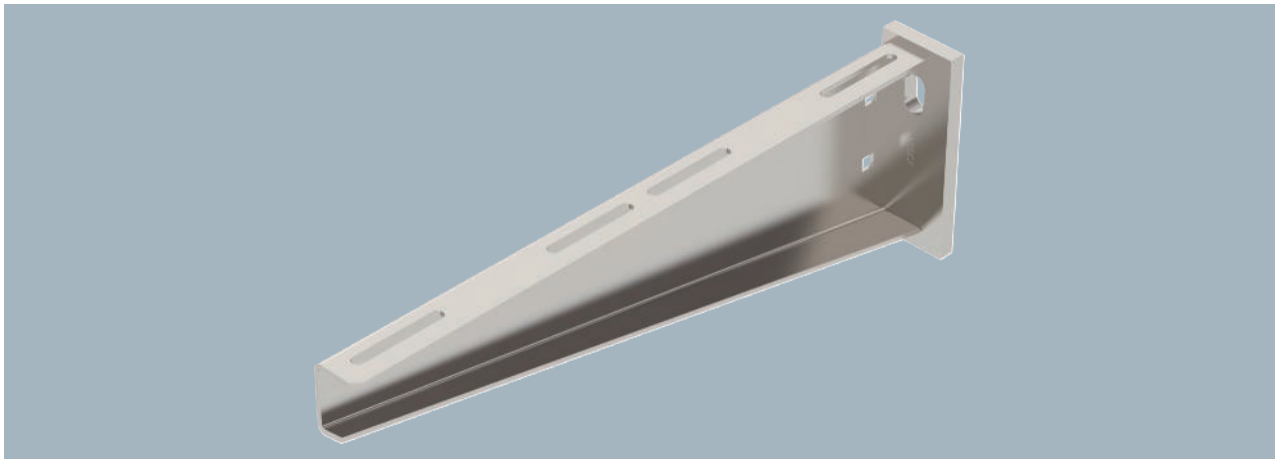
**Characteristic anchor load values for AW 55 wall and support bracket – wall fastening**

| Load [kN] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 210 | 310 | 410 | 510 | 560 | 610 | 710 | 810 | 910 | 1,010 |
| Anchor type | | | | | | | | | | |
| BZ3 12x110/0-35 | 3.92 | 3.83 | 3.79 | 3.46 | 3.30 | 3.30 | 3.15 | 2.53 | 2.38 | 2.23 |

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

A4 2B

## Wall and support bracket AW 55

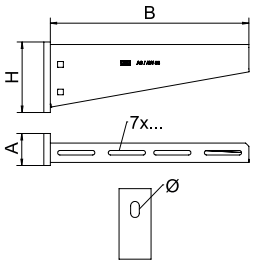


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Heavy-duty wall and support bracket with welded head plate.

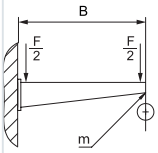
| Type | Width mm | F in kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **AW 55 21 A4** | 210 | 5.5 | 1 | 77.000 | **6418557** |
| **AW 55 31 A4** | 310 | 5.5 | 1 | 118.900 | **6418573** |
| **AW 55 41 A4** | 410 | 5.5 | 1 | 162.800 | **6418601** |
| **AW 55 51 A4** | 510 | 5.5 | 1 | 232.500 | **6418622** |
| **AW 55 61 A4** | 610 | 5.5 | 1 | 305.000 | **6418638** |

### Dimensions




| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AW 55 21 A4 | 210 | 50 | 90 | 13.5 |
| AW 55 31 A4 | 310 | 50 | 110 | 13.5 |
| AW 55 41 A4 | 410 | 50 | 130 | 13.5 |
| AW 55 51 A4 | 510 | 60 | 145 | 13.5 |
| AW 55 61 A4 | 610 | 60 | 165 | 13.5 |

### Load




**Characteristic anchor load values for wall bracket AW 55 - wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AW 55 21 A4 | 0.950 kN | 210 mm |
| AW 55 31 A4 | 0.950 kN | 310 mm |
| AW 55 41 A4 | 0.950 kN | 410 mm |
| AW 55 51 A4 | 0.950 kN | 510 mm |
| AW 55 61 A4 | 0.950 kN | 610 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

**Characteristic anchor load values for AW 55 wall and support bracket – wall fastening**

| Load [kN] | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 210 | 310 | 410 | 510 | 560 | 610 | 710 |
| Anchor type | | | | | | | |
| BZ-U 10-10-30/90 | 2.2 | 2.1 | 2 | 1.9 | 1.9 | 1.8 | 1.75 |
| BZ 12-15-35/110 | 3.8 | 3.5 | 3.5 | 3.25 | 3.3 | 3 | 3 |
| SZ-B 18/0x142 | 4.10 | 4.06 | 4.02 | 3.83 | 3.83 | 3.56 | 2.88 |

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).



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## Wall bracket AW 80

St FT



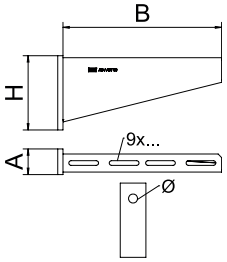
| Type | Width mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **AW 80 21 FT** | 210 | 8 | 1 | 104.000 | **6417752** |
| **AW 80 31 FT** | 310 | 8 | 1 | 160.000 | **6417779** |
| **AW 80 41 FT** | 410 | 8 | 1 | 213.000 | **6417795** |
| **AW 80 51 FT** | 510 | 8 | 1 | 355.000 | **6417817** |
| **AW 80 61 FT** | 610 | 8 | 1 | 433.000 | **6417833** |
| **AW 80 71 FT** | 710 | 8 | 1 | 525.000 | **6417868** |
| **AW 80 81 FT** | 810 | 8 | 1 | 623.000 | **6417884** |

When fastening cable trays and ladders with truss-head bolts of size M6, please order large washers separately (perforation in bracket 9 x ...).

Heavy-duty wall bracket with welded head plate.

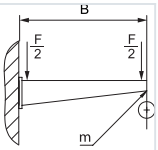
**Dimensions**

| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AW 80 21 FT | 210 | 50 | 110 | 17.5 |
| AW 80 31 FT | 310 | 50 | 145 | 17.5 |
| AW 80 41 FT | 410 | 50 | 165 | 17.5 |
| AW 80 51 FT | 510 | 60 | 195 | 17.5 |
| AW 80 61 FT | 610 | 60 | 210 | 17.5 |
| AW 80 71 FT | 710 | 60 | 235 | 17.5 |
| AW 80 81 FT | 810 | 60 | 260 | 17.5 |




**Load**

**Characteristic anchor load values for wall bracket AW 80 - wall fastening**




| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AW 80 21 FT | 8 kN | 210 mm |
| AW 80 31 FT | 8 kN | 310 mm |
| AW 80 41 FT | 8 kN | 410 mm |
| AW 80 51 FT | 8 kN | 510 mm |
| AW 80 61 FT | 8 kN | 610 mm |
| AW 80 71 FT | 8 kN | 710 mm |
| AW 80 81 FT | 8 kN | 810 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

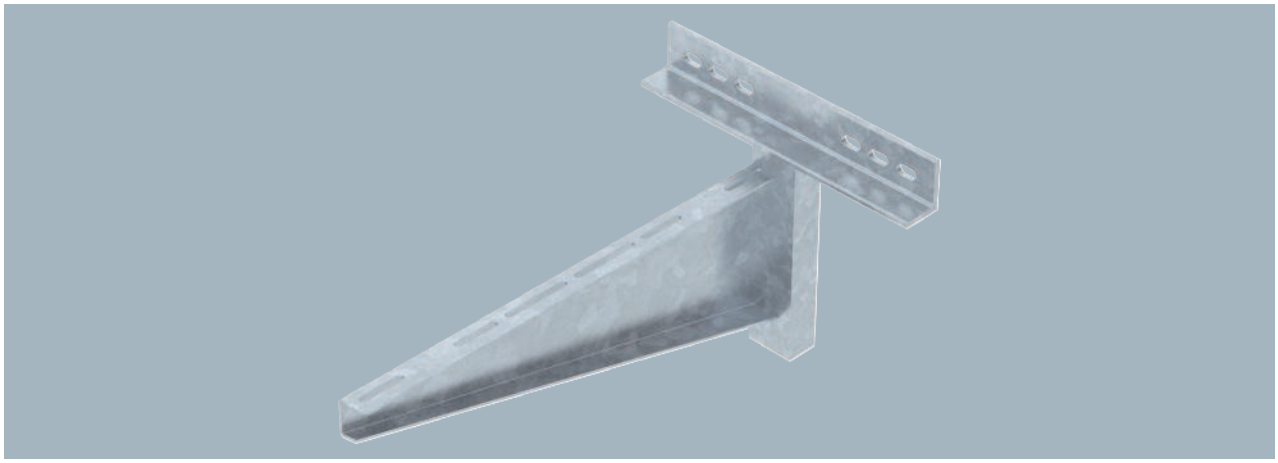
**Characteristic anchor load values for AW 80 wall and support bracket – wall fastening**

| Load [kN] | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 210 | 310 | 410 | 510 | 610 | 710 | 810 |
| Anchor type | | | | | | | |
| BZ3 16x135/0-35 | 7.31 | 7.66 | 6.87 | 6.38 | 5.90 | 5.17 | 4.69 |

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

St FT

# Wall and clamping bracket AWSS

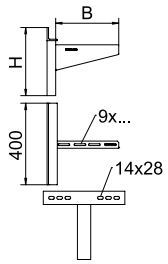


The heavy-duty wall bracket can be used in conjunction with wide span systems or for large support distances of cable tray or cable ladder systems.

Wall bracket, heavy duty.

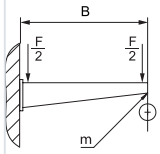
| Type | Width mm | F in kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **AWSS 21 FT** | 210 | 10 | | 1 | 305.100 | **6417906** |
| **AWSS 31 FT** | 310 | 10 | | 1 | 533.600 | **6417910** |
| **AWSS 41 FT** | 410 | 10 | | 1 | 584.400 | **6417914** |
| **AWSS 51 FT** | 510 | 10 | | 1 | 693.000 | **6417918** |
| **AWSS 61 FT** | 610 | 10 | | 1 | 742.300 | **6417922** |
| **AWSS 71 FT** | 710 | 8 | | 1 | 840.000 | **6417926** |
| **AWSS 81 FT** | 810 | 7 | | 1 | 923.000 | **6417930** |
| **AWSS 91 FT** | 910 | 6.5 | | 1 | 1,020.000 | **6417934** |
| **AWSS 101 FT** | 1010 | 6 | | 1 | 1,134.000 | **6417938** |

## Dimensions




| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AWSS 21 FT | 210 | 400 | 200 | 14 |
| AWSS 31 FT | 310 | 400 | 335 | 14 |
| AWSS 41 FT | 410 | 400 | 335 | 14 |
| AWSS 51 FT | 510 | 400 | 335 | 14 |
| AWSS 61 FT | 610 | 400 | 335 | 14 |
| AWSS 71 FT | 710 | 400 | 335 | 14 |
| AWSS 81 FT | 810 | 400 | 341 | 14 |
| AWSS 91 FT | 910 | 400 | 366 | 14 |
| AWSS 101 FT | 1010 | 400 | 391 | 14 |

## Load




**Characteristic anchor load values for wall and clamping bracket AWSS - wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AWSS 21 FT | 10 kN | 210 mm |
| AWSS 31 FT | 10 kN | 310 mm |
| AWSS 41 FT | 10 kN | 410 mm |
| AWSS 51 FT | 10 kN | 510 mm |
| AWSS 61 FT | 10 kN | 610 mm |
| AWSS 71 FT | 8 kN | 710 mm |
| AWSS 81 FT | 7 kN | 810 mm |
| AWSS 91 FT | 6.5 kN | 910 mm |
| AWSS 101 FT | 6 kN | 1,010 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

**Characteristic anchor load values for AWSS wall bracket – wall fastening**

| Load [kN] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 210 | 310 | 410 | 510 | 610 | 710 | 810 | 910 | 1,010 |
| Anchor type | | | | | | | | | |
| BZ3 12x110/0-35 | 9.31 | 10.0 | 9.47 | 8.55 | 7.60 | 5.98 | 5.01 | 4.56 | 3.90 |

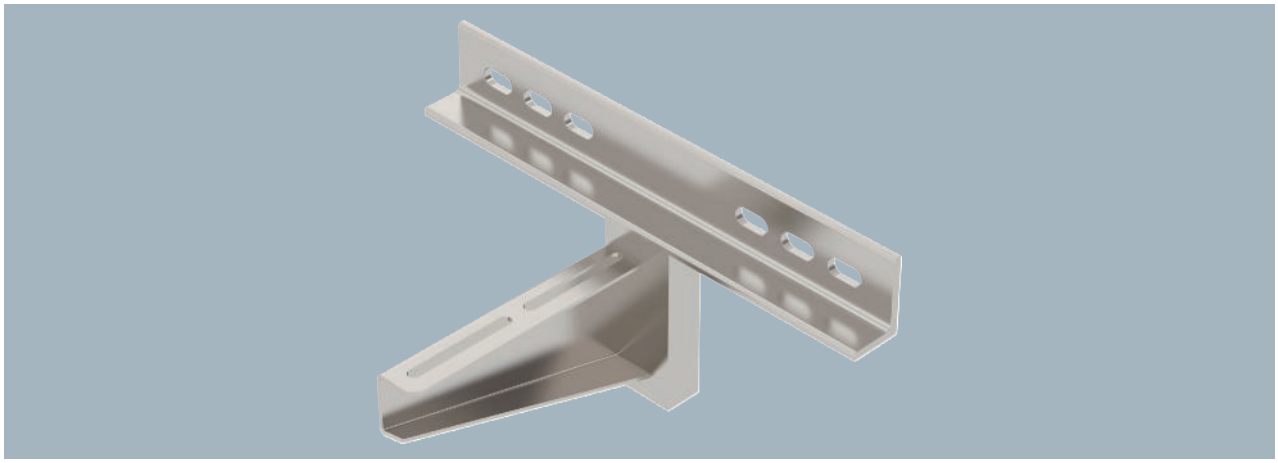
Max. total load F = Cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1,010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.



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## Wall and clamping bracket AWSS

A2 A4 2B



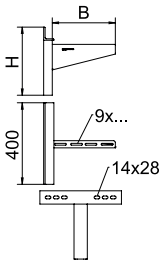
| Type | Width mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **AWSS 21 A2** | 210 | 10 | 1 | 302.000 | **6417941** |
| **AWSS 31 A2** | 310 | 10 | 1 | 528.000 | **6417943** |
| **AWSS 41 A2** | 410 | 10 | 1 | 57.400 | **6417945** |
| **AWSS 51 A2** | 510 | 10 | 1 | 666.000 | **6417947** |
| **AWSS 61 A2** | 610 | 10 | 1 | 733.000 | **6417949** |
| **AWSS 21 A4** | 210 | 10 | 1 | 306.000 | **6417971** |
| **AWSS 31 A4** | 310 | 10 | 1 | 535.000 | **6417973** |
| **AWSS 41 A4** | 410 | 10 | 1 | 58.100 | **6417975** |
| **AWSS 51 A4** | 510 | 10 | 1 | 67.500 | **6417977** |
| **AWSS 61 A4** | 610 | 10 | 1 | 74.200 | **6417979** |

The heavy-duty wall bracket can be used in conjunction with wide span systems or for large support distances of cable tray or cable ladder systems.

Wall bracket, heavy duty.

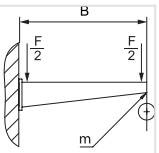
| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AWSS 21 A2 | 210 | 400 | 200 | 14 |
| AWSS 31 A2 | 310 | 400 | 335 | 14 |
| AWSS 41 A2 | 410 | 400 | 335 | 14 |
| AWSS 51 A2 | 510 | 400 | 335 | 14 |
| AWSS 61 A2 | 610 | 400 | 335 | 14 |

### Dimensions




### Load

**Characteristic anchor load values for wall and clamping bracket AWSS - wall fastening**




| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AWSS 21 A4 | 10 kN | 210 mm |
| AWSS 31 A2 | 10 kN | 310 mm |
| AWSS 41 A4 | 10 kN | 410 mm |
| AWSS 51 A2 | 10 kN | 510 mm |
| AWSS 61 A4 | 10 kN | 610 mm |
| AWSS 71 A2 | 8 kN | 710 mm |
| AWSS 81 A4 | 7 kN | 810 mm |
| AWSS 91 A2 | 6.5 kN | 910 mm |
| AWSS 101 A4 | 6 kN | 1,010 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

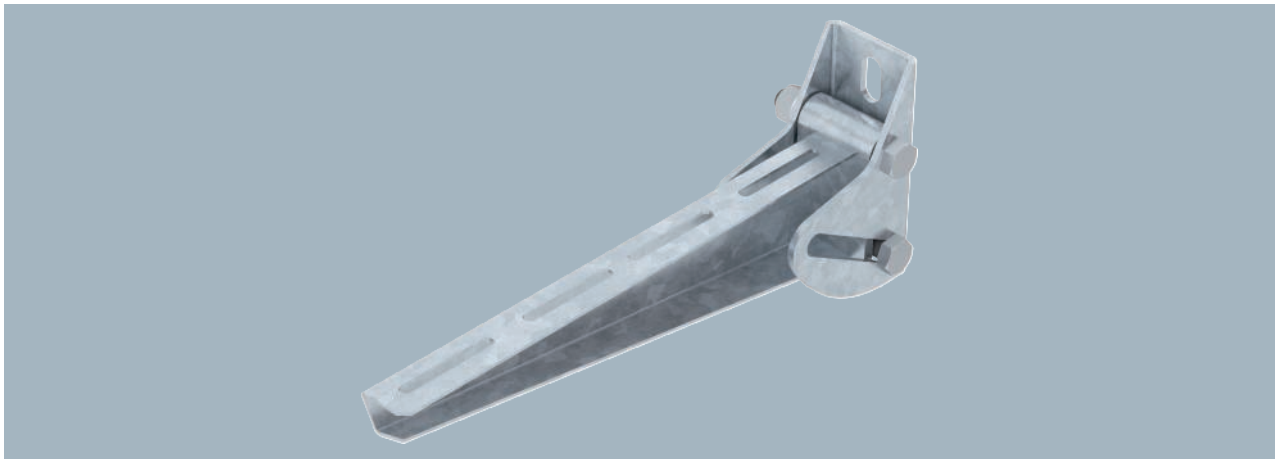
**Characteristic anchor load values for AWSS wall and support bracket - wall fastening**

| Load [kN] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Bracket width [mm] | 210 | 310 | 410 | 510 | 610 | 710 | 810 | 910 | 1,010 |
| Anchor type | | | | | | | | | |
| BZ 12-15-35/110 | 10th | 10th | 10th | 10th | 10th | 8 | 7 | 6.5 | 6 |

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1,010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

St FT

## Wall bracket, variable AWV

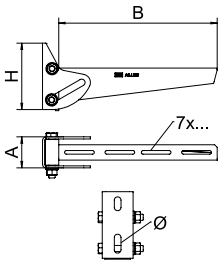


Usable bracket length dependent on adjustment angle. The largest possible adjustment angle is 30°.

Variable wall bracket for fixing to sloping or vaulted walls.

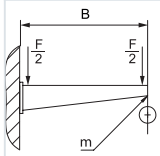
| Type | Width mm | F in kN kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **AWV 21 FT** | 210 | 0.9 | | 1 | 129.000 | **6419534** |
| **AWV 31 FT** | 310 | 0.9 | | 1 | 149.000 | **6419550** |
| **AWV 41 FT** | 410 | 0.9 | | 1 | 171.000 | **6419577** |
| **AWV 51 FT** | 510 | 0.9 | | 1 | 209.000 | **6419593** |
| **AWV 61 FT** | 610 | 0.9 | | 1 | 239.000 | **6419615** |

### Dimensions




| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---|---|---|---|---|
| AWV 21 FT | 210 | 60 | 130 | 13 |
| AWV 31 FT | 310 | 60 | 130 | 13 |
| AWV 41 FT | 410 | 60 | 130 | 13 |
| AWV 51 FT | 510 | 60 | 130 | 13 |
| AWV 61 FT | 610 | 60 | 130 | 13 |

### Load




**Characteristic anchor load values for AWV wall bracket – wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AWV 21 FT | 0.9 kN | 210 mm |
| AWV 31 FT | 0.9 kN | 310 mm |
| AWV 41 FT | 0.9 kN | 410 mm |
| AWV 51 FT | 0.9 kN | 510 mm |
| AWV 61 FT | 0.9 kN | 610 mm |

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket



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## Adapter plate KA-AW 30

St FT

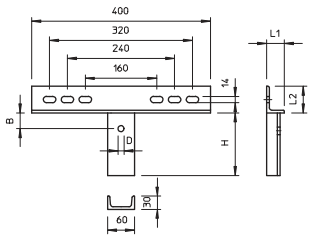


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **KA-AW 30 FT** | 1 | 247.000 | **6346715** |
| **KA-AW 80 FT** | 1 | 424.000 | **6346731** |

The bracket types AW 30, AW 55 and AW 80 can be screwed to the adapter plate.
Please order the hexagonal bolt for bracket mounting (type SKS 12 x 40 GF) separately.

Adapter plate with slots for universal fastening to vertical steel girders and walls.

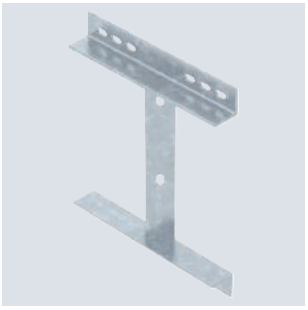
### Dimensions




| Type | Height mm | Width mm |
|---|---|---|
| KA-AW 30 FT | 140 | 400 |
| KA-AW 80 FT | 270 | 400 |

## Adapter plate 45°

St FT

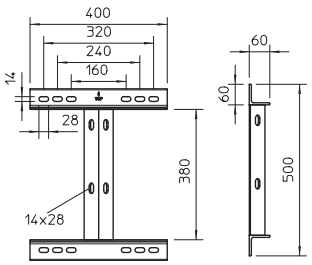


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **KA-E 45 FT** | 1 | 618.000 | **6346758** |

To support cable support systems in building corners and jumps. The hexagonal bolts, type SKS 12 x 40 GF, are used to fasten the brackets to the adapter plate. Please order the appropriate quantity.

Adapter plate with slots for universal fastening to vertical steel girders and walls. Wall and support brackets are screwed to the adapter plate at a 45° angle.

### Dimensions



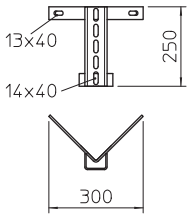

| Type | Height mm | Width mm |
|---|---|---|
| KA-E 45 FT | 500 | 400 |

St FT

## Corner seat

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KA-EA FT | 1 | 201.000 | 6346763 |

Corner seat with welded U profile for fastening to 90° external corners. Wall and support brackets are screwed to the U profile.



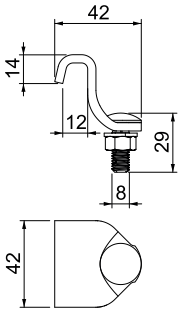


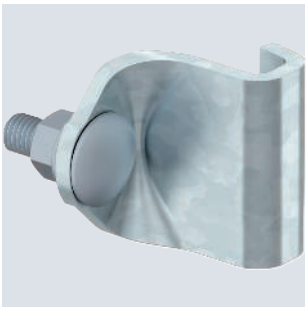

St FT

## Clamping lug for AS15 / AS 30

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KLAS 15 30 FT | 25 | 7.900 | 6419015 |

Individual clamping strap for the fastening of the AS 15 brackets in the width 110–160 mm and AS 30 in the width 110 mm on the IS 8 suspended support.



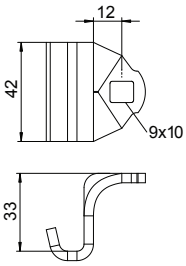



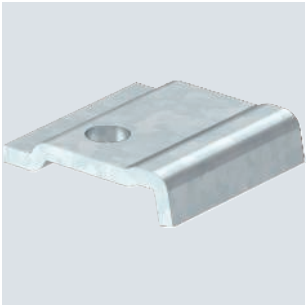
St FT

## Clamping lug for AS30 / AS 55

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KLAS 30 55 FT | 1 | 8.900 | 6419007 |

Individual clamping strap for the fastening of the bracket AS 30 in the width 260 - 710 mm and AS 55 in the width 110 - 210 mm on the suspended support IS 8.



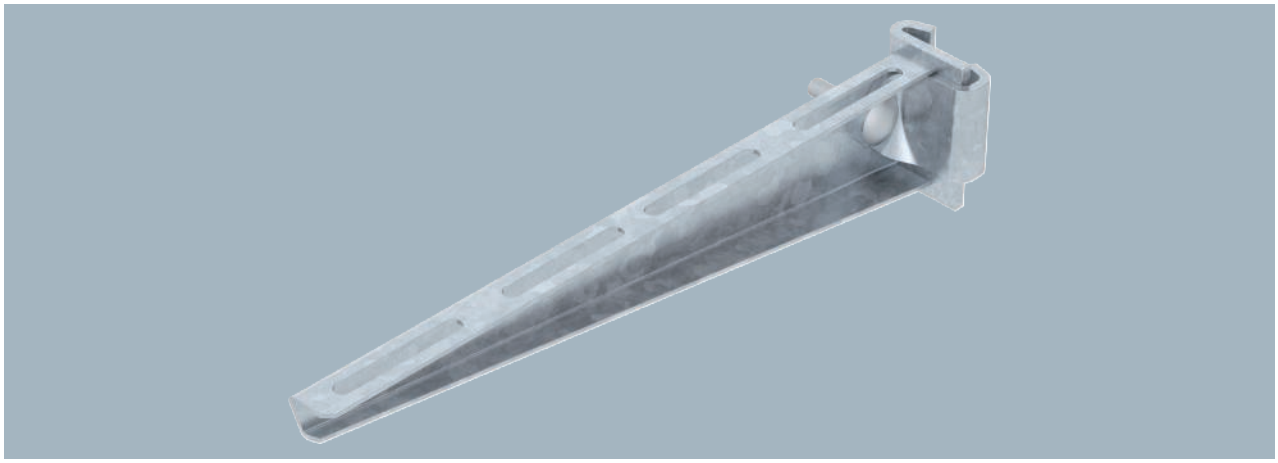





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## Support bracket AS 15

St FT



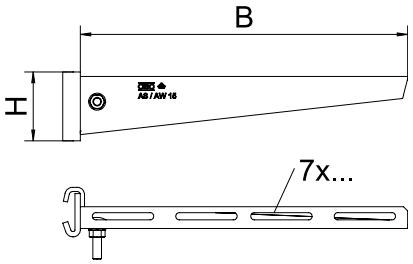
| Type | Width mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **AS 15 11 FT** | 110 | 1.5 | 1 | 27.400 | **6421326** |
| **AS 15 16 FT** | 160 | 1.5 | 1 | 32.800 | **6421334** |
| **AS 15 21 FT** | 210 | 1.5 | 1 | 39.400 | **6421350** |
| **AS 15 31 FT** | 310 | 1.5 | 1 | 46.500 | **6421385** |
| **AS 15 41 FT** | 410 | 1.5 | 1 | 66.000 | **6421423** |
| **AS 15 51 FT** | 510 | 1.5 | 1 | 79.600 | **6421466** |
| **AS 15 61 FT** | 610 | 1.5 | 1 | 87.100 | **6421490** |

The support bracket can be fastened to both sides of the I support.
The necessary clamping lug (item no. 6419015), including bolt and nut can be ordered individually for bracket widths 110–160 mm.

Light-duty support bracket for infinitely adjustable fastening on IS 8 support.

| Type | Dim. B mm | Dim. H mm |
|---|---|---|
| AS 15 11 FT | 110 | 50 |
| AS 15 16 FT | 160 | 55 |
| AS 15 21 FT | 210 | 60 |
| AS 15 31 FT | 310 | 65 |
| AS 15 41 FT | 410 | 70 |
| AS 15 51 FT | 510 | 75 |
| AS 15 61 FT | 610 | 80 |

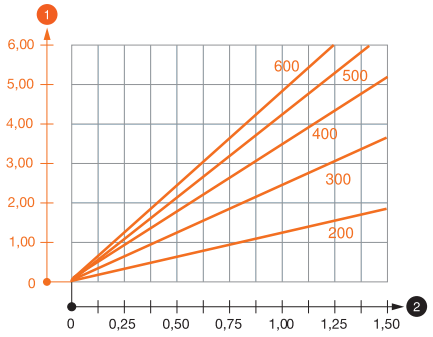
**Dimensions**




### Load diagram, bracket type AS 15

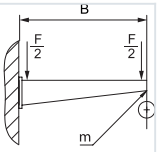
1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm

**Load**




**Characteristic anchor load values for AS 15 wall and support bracket – wall fastening**

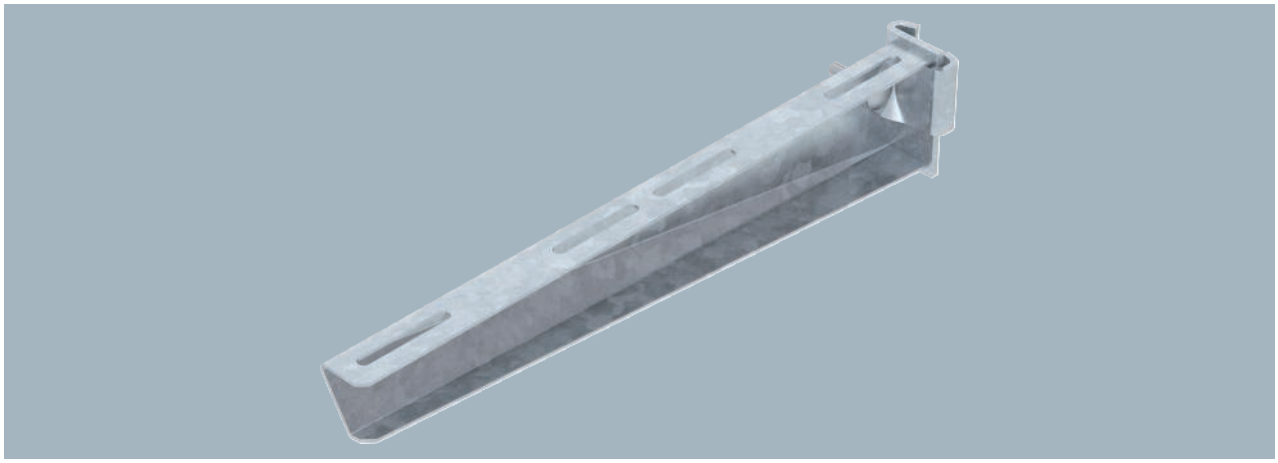
| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AS 15 11 FT | 0.15 kN | 110 mm |
| AS 15 16 FT | 0.15 kN | 160 mm |
| AS 15 21 FT | 0.15 kN | 210 mm |
| AS 15 31 FT | 0.15 kN | 310 mm |
| AS 15 41 FT | 0.15 kN | 410 mm |
| AS 15 51 FT | 0.15 kN | 510 mm |
| AS 15 61 FT | 0.15 kN | 610 mm |




Max. total load F = Cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1,010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

St FT

# Support bracket AS 30

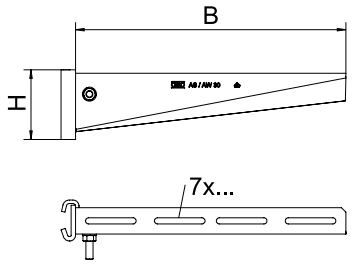


The support bracket can be fastened to both sides of the I support.
The individual clamping lug, including bolt, nut and washer can also be ordered separately under the item no. 6419007.

Medium-duty support bracket for infinitely adjustable fastening on IS 8 support.

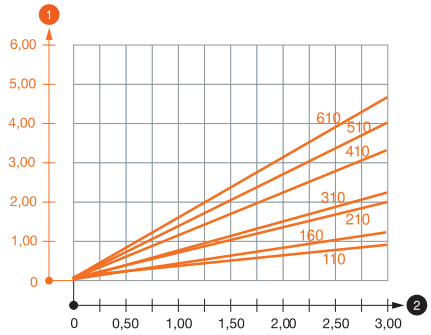
| Type | Width mm | F in kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **AS 30 11 FT** | 110 | 3 | 1 | 30.000 | **6419370** |
| **AS 30 16 FT** | 160 | 3 | 1 | 37.000 | **6419376** |
| **AS 30 21 FT** | 210 | 3 | 1 | 44.000 | **6419382** |
| **AS 30 31 FT** | 310 | 3 | 1 | 73.000 | **6419388** |
| **AS 30 41 FT** | 410 | 3 | 1 | 100.000 | **6419394** |
| **AS 30 51 FT** | 510 | 3 | 1 | 140.000 | **6419400** |
| **AS 30 56 FT** | 560 | 3 | 1 | 155.000 | **6419406** |
| **AS 30 61 FT** | 610 | 3 | 1 | 168.000 | **6419412** |
| **AS 30 71 FT** | 710 | 3 | 1 | 214.000 | **6419418** |

## Dimensions



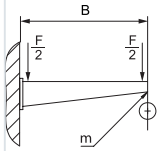

| Type | Dim. B mm | Dim. H mm |
|---|---|---|
| AS 30 11 FT | 110 | 60 |
| AS 30 16 FT | 160 | 65 |
| AS 30 21 FT | 210 | 70 |
| AS 30 31 FT | 310 | 80 |
| AS 30 41 FT | 410 | 80 |
| AS 30 51 FT | 510 | 90 |
| AS 30 56 FT | 560 | 100 |
| AS 30 61 FT | 610 | 100 |
| AS 30 71 FT | 710 | 100 |

## Load




### Load diagram, bracket type AS 30

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm




**Characteristic anchor load values for AS30 support bracket**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AS 30 11 FT | 3 kN | 110 mm |
| AS 30 16 FT | 3 kN | 160 mm |
| AS 30 21 FT | 3 kN | 210 mm |
| AS 30 31 FT | 3 kN | 310 mm |
| AS 30 41 FT | 3 kN | 410 mm |
| AS 30 51 FT | 3 kN | 510 mm |
| AS 30 56 FT | 3 kN | 560 mm |
| AS 30 61 FT | 3 kN | 610 mm |
| AS 30 71 FT | 3 kN | 710 mm |

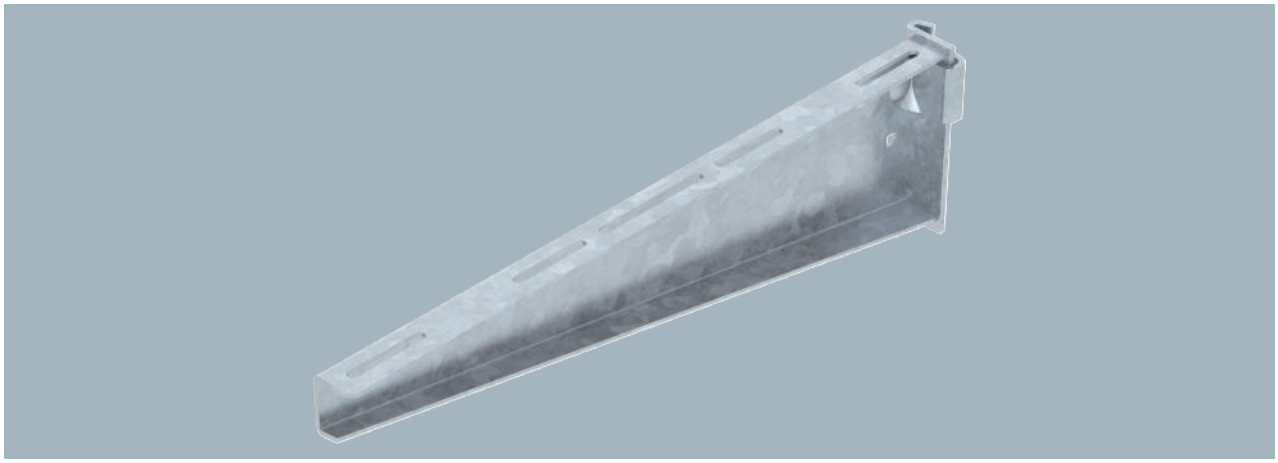
Max. total load F = Cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.



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## Support bracket AS 55

St FT



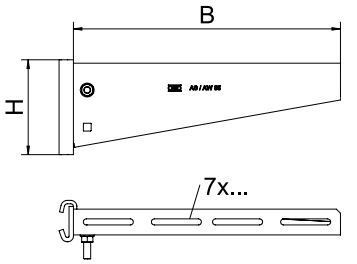
| Type | Width mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **AS 55 21 FT** | 210 | 5.5 | 1 | 74.200 | **6419286** |
| **AS 55 31 FT** | 310 | 5.5 | 1 | 133.000 | **6419292** |
| **AS 55 41 FT** | 410 | 5.5 | 1 | 153.000 | **6419298** |
| **AS 55 51 FT** | 510 | 5.5 | 1 | 233.000 | **6419304** |
| **AS 55 56 FT** | 560 | 5.5 | 1 | 260.000 | **6419310** |
| **AS 55 61 FT** | 610 | 5.5 | 1 | 283.000 | **6419316** |
| **AS 55 71 FT** | 710 | 5.5 | 1 | 385.000 | **6419322** |
| **AS 55 81 FT** | 810 | 5.5 | 1 | 409.200 | **6419328** |
| **AS 55 91 FT** | 910 | 5.5 | 1 | 517.000 | **6419334** |
| **AS 55 101 FT** | 1010 | 5.5 | 1 | 557.600 | **6419340** |

The support bracket can be fastened to both sides of the I support.
The individual clamping lug, including bolt, nut and washer can also be ordered separately under the item no. 6419007.

Heavy-duty support bracket for infinitely adjustable fastening on IS 8 support.

| Type | Dim. B mm | Dim. H mm |
|---|---|---|
| AS 55 21 FT | 210 | 90 |
| AS 55 31 FT | 310 | 110 |
| AS 55 41 FT | 410 | 130 |
| AS 55 51 FT | 510 | 145 |
| AS 55 56 FT | 560 | 165 |
| AS 55 61 FT | 610 | 165 |
| AS 55 71 FT | 710 | 195 |
| AS 55 81 FT | 810 | 195 |
| AS 55 91 FT | 910 | 195 |
| AS 55 101 FT | 1010 | 195 |

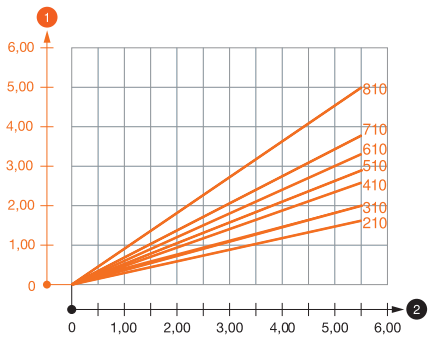
**Dimensions**




### Load diagram, bracket type AS 55

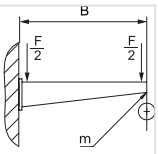
**Load**

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm




**Characteristic anchor load values for AS55 support bracket**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| AS 55 21 FT | 0.950 kN | 210 mm |
| AS 55 31 FT | 0.950 kN | 310 mm |
| AS 55 41 FT | 0.950 kN | 410 mm |
| AS 55 51 FT | 0.950 kN | 510 mm |
| AS 55 56 FT | 0.950 kN | 560 mm |
| AS 55 61 FT | 0.950 kN | 610 mm |
| AS 55 71 FT | 0.950 kN | 710 mm |
| AS 55 81 FT | 0.950 kN | 810 mm |
| AS 55 91 FT | 0.950 kN | 910 mm |
| AS 55 101 FT | 0.950 kN | 1,010 mm |

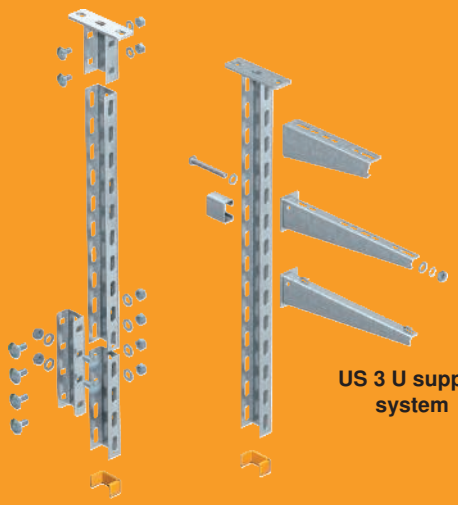



Max. total load F = Cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.



# U support family

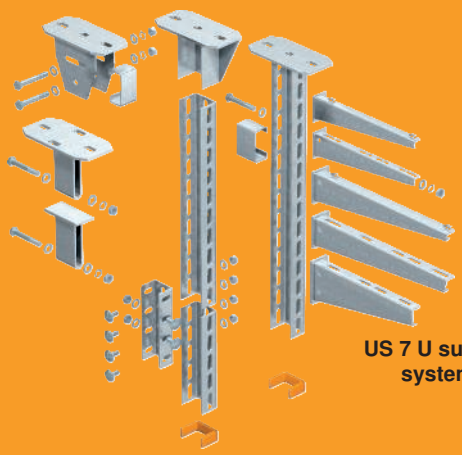
The perfectly matched U support family consists of US 3 (light-duty system), US 5 (medium-duty system) and US 7 (heavy-duty system). The U support range is particularly noted for its versatility. The U supports can be used as ceiling suspension, floor stand-off or as construction profiles.



**US 3 U support system**



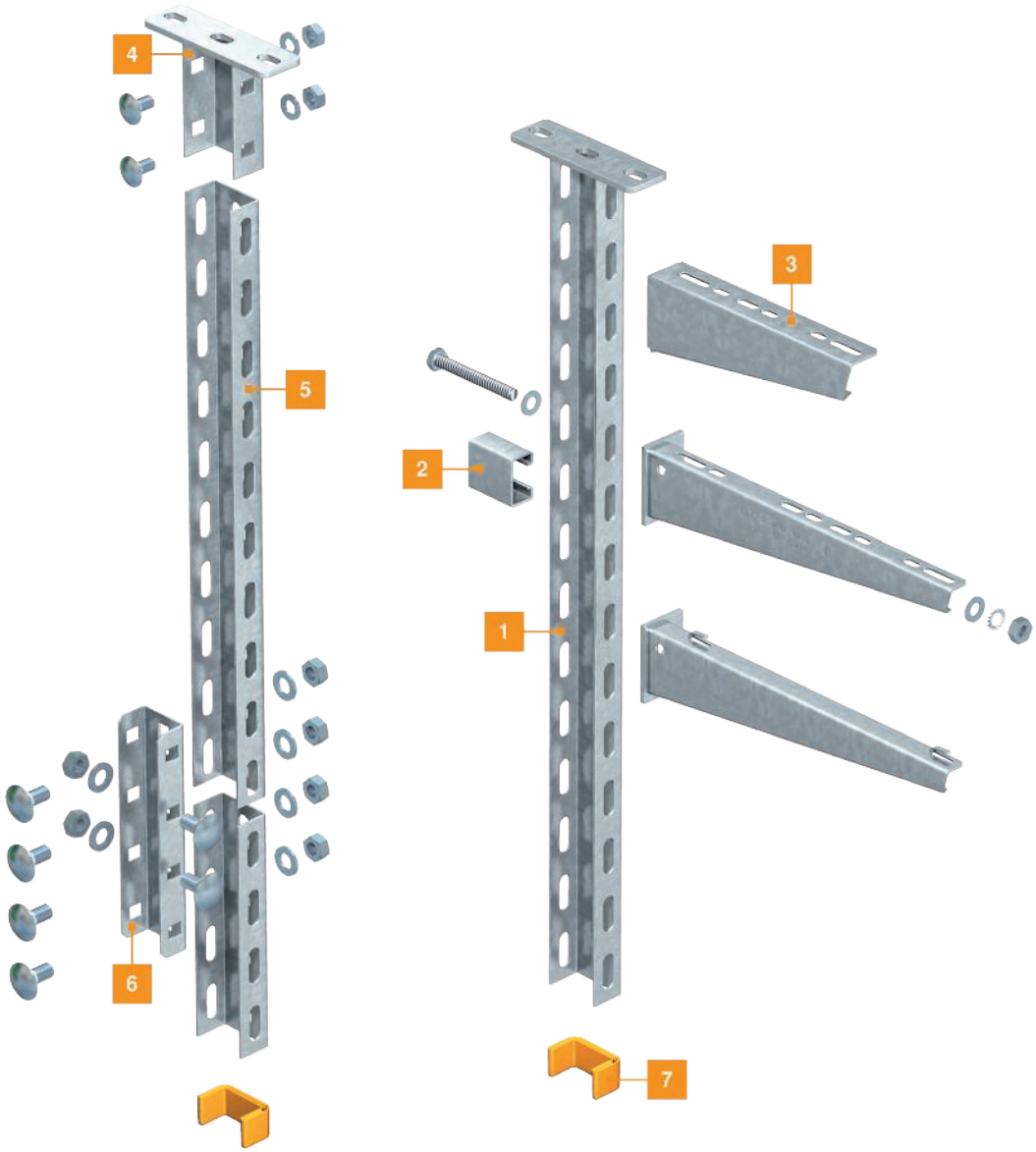
**US 5 U support system**



**US 7 U support system**

# US 3 U support system

## Installation principle




| | |
|---|---|
| 1 | US 3 suspended support |
| 2 | Spacer |
| 3 | Wall and support brackets |
| 4 | Head plate |
| 5 | US 3 support |
| 6 | U support connector |
| 7 | End cap |



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# Mounting aid

## U supports and brackets



**Standard mounting of suspended support with wall bracket, single-sided without spacer**
Ceiling fastening of a suspended support with single-sided bracket fastening. A spacer is not always required for widths up to and including 300 mm.



**Standard mounting of support with wall and support bracket, single-sided with spacer**
Cover fixing of a suspended support with single-sided bracket fixing. For widths of over 400 mm, we recommend using a spacer.



**Standard mounting of support with wall and support bracket, double-sided**
Cover fixing of a suspended support with double-sided bracket mounting.



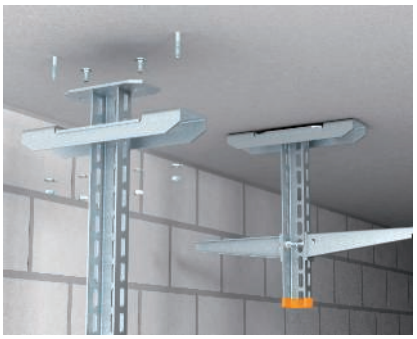
**Ceiling mounting**
Standard mounting of U supports US 3 K, US 5 K and US 7 K on the ceiling with fastening of the wall and support brackets.



**Head plate mounting**
Mounting of the standard head plate to support and ceiling. Use with spacer DSK 25 (US 3), DSK 45 (US 5) or DSK 61 (US 7).



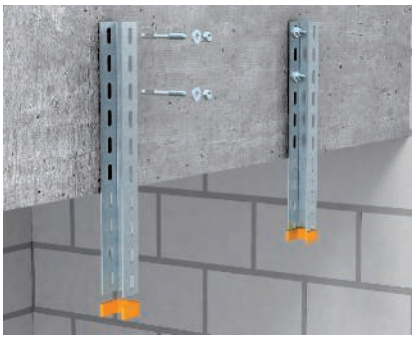
**Adapter head plate, asymmetrical**
Asymmetrical head plate KA-ASY to increase the load capacity for the combination with suspended supports, type US 7 K and IS 8 K.



**Adapter head plate, symmetrical**
Symmetrical head plate KA-SY to increase the load capacity for the conjunction with supports, types US 7 K and IS 8 K.



**Traverse**
Mounting of U suspended supports US 3 K, US 5 K and US 7 K under the ceiling using bolt ties and a trapeze, consisting of U profile US 3, US 5 or US 7.



**U support wall mounting**
U supports are mounted on walls or girders using bolt ties, directly through the system perforation in the U support.



**U support connection**
To connect U supports, use the appropriate U support connectors, types VUS 3, VUS 5 and VUS 7.



**Installation of spacer**
Installation of the spacer DSK 47 with US 5 supports or DSK 45 with US 7 supports in conjunction with a variable head plate KU 5 V or KU 7 VQP.



**Variable head plate with US 3 support**
Installation of the variable head plate, type KU 3 V on US 3 support.



**Variable head plate**
Fastening of the variable head plate KU 5 V to sloping concrete ceilings using bolt ties and spacer DSK 47.



**Variable head plate**
Fastening of the variable head plate KU 7 VQP to sloping concrete ceilings using bolt ties and spacer DSK 45.



**45° adapter plate, concrete mounting**
Installation of the 45° adapter plate, type KA-E, on a concrete wall. For additional support and implementation of trays at room corners.



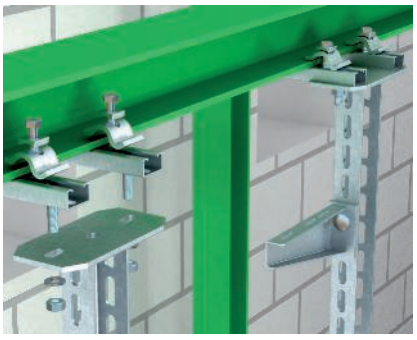
**45° adapter plate, steel clamping**
Mounting of the 45° adapter plate, type KA-E 45, on the steel girder using clamping angles or chuck jaws. For additional support of routes in angles and at room corners.



**Direct girder clamping**
Direct girder clamping of a U suspended support using KWS clamping angle. Route in longitudinal direction of steel girder.



**Steel clamping with C profile, route in longitudinal direction**
U suspended support mounting, clamped to steel girder with C profile, type MS 4022, and TKH-L-25 light-duty chuck jaw. Route along steel girder.



**Steel clamping with C profile, route in transverse direction**
U suspended support mounting, clamped to steel girder with C profile, type MS 4022, and TKH-L-25 light-duty chuck jaw. Route transverse to steel girder.



**Head plate mounting**
Installation of the head plate using the example KU 7 AOX for direct welding on steel girders.



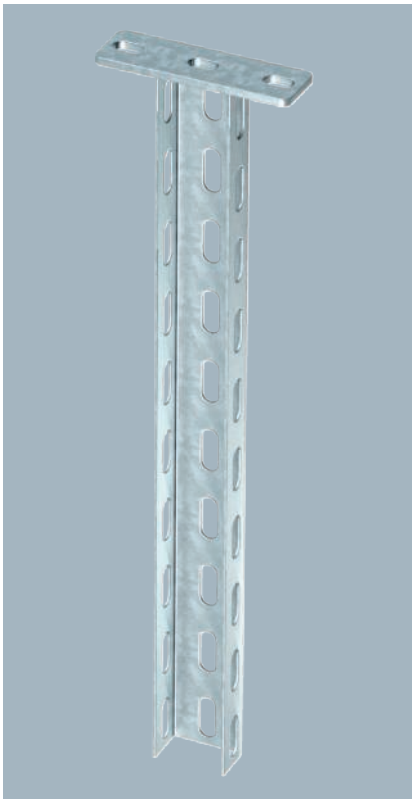
**Cantilever beam on steel**
U supports can be used as cantilever beams on steel girders with chuck jaws of type TKS-L-25. Use DSK spacers for safe functioning.



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## US 3 support

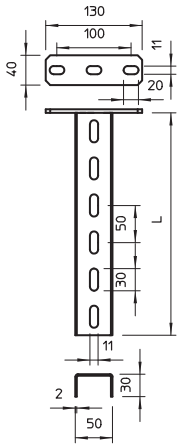
St FT



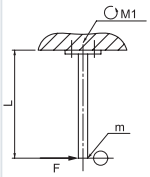
| Type | Length mm | Material thickness mm | Tensile load kN | BS | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **US 3 K 20 FT** | 200 | 2 | 5 | | 1 | 50.500 | **6342351** |
| **US 3 K 30 FT** | 300 | 2 | 5 | | 1 | 64.400 | **6342353** |
| **US 3 K 40 FT** | 400 | 2 | 5 | | 1 | 78.300 | **6342355** |
| **US 3 K 50 FT** | 500 | 2 | 5 | | 1 | 92.300 | **6342357** |
| **US 3 K 60 FT** | 600 | 2 | 5 | | 1 | 106.200 | **6342359** |
| **US 3 K 70 FT** | 700 | 2 | 5 | | 1 | 120.200 | **6342362** |
| **US 3 K 80 FT** | 800 | 2 | 5 | | 1 | 134.100 | **6342364** |
| **US 3 K 90 FT** | 900 | 2 | 5 | | 1 | 147.800 | **6342366** |
| **US 3 K 100 FT** | 1000 | 2 | 5 | | 1 | 162.000 | **6342368** |
| **US 3 K 110 FT** | 1100 | 2 | 5 | | 1 | 175.900 | **6342370** |
| **US 3 K 120 FT** | 1200 | 2 | 5 | | 1 | 189.900 | **6342372** |

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

Suspended support (U profile) of dimensions 50 x 30 mm with welded head plate.



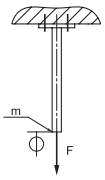

### Load




**Testing of the bending torque on the ceiling plate**

| Item on test | US 3 K 80 |
|---|---|
| Deformation measuring point m | |
| Length L | 800 mm |
| Force F | 0.462 kN |
| Bending torque M1 (SWL) | 370 Nm |

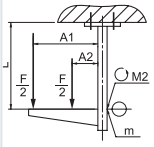
According to IEC 61537, Chapter 10.8.2.1




**Testing of the tensile strength**

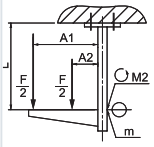
| Item on test | US 3 K 80 |
|---|---|
| Deformation measuring point m | |
| Force F (SWL) | 20 kN |

According to IEC 61537, Chapter 10.8.2.2




**Testing of the bending torque on the support with bracket**

| Item on test | US 3 K 80 | US 3 K 120 |
|---|---|---|
| | AW 15 31 | AW 15 31 |
| Deformation measuring point m | | |
| A1 lever arm | 310 mm | 310 mm |
| A2 lever arm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm |
| Force F | 0.947 kN | 0.790 kN |
| Bending torque M2 (SWL) | 180 Nm | 150 Nm |




**Testing of the bending torque on the support with bracket with spacer**

| Item on test | US 3 K 80 | US 3 K 120 |
|---|---|---|
| | **AW 15 61** | **AW 15 61** |
| Deformation measuring point m | | |
| A1 lever arm | **610 mm** | **610 mm** |
| A2 lever arm | **10 mm** | **10 mm** |
| Length L | **500 mm** | **1,000 mm** |
| Force F | **0.850 kN** | **0.850 kN** |
| Bending torque M2 (SWL) | **290 Nm** | **290 Nm** |

According to IEC 61537, Chapter 10.8.2.3, without spacer

A2 2B

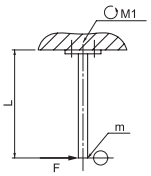
## US 3 support

| Type | Length mm | Material thickness mm | Tensile load kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **US 3 K 20 A2** | 200 | 2 | 5 | | 1 | 44.000 | **6342401** |
| **US 3 K 30 A2** | 300 | 2 | 5 | | 1 | 58.000 | **6342403** |
| **US 3 K 40 A2** | 400 | 2 | 5 | | 1 | 71.000 | **6342405** |
| **US 3 K 50 A2** | 500 | 2 | 5 | | 1 | 84.000 | **6342407** |
| **US 3 K 60 A2** | 600 | 2 | 5 | | 1 | 97.000 | **6342409** |
| **US 3 K 70 A2** | 700 | 2 | 5 | | 1 | 110.000 | **6342411** |
| **US 3 K 80 A2** | 800 | 2 | 5 | | 1 | 123.000 | **6342413** |
| **US 3 K 90 A2** | 900 | 2 | 5 | | 1 | 137.000 | **6342415** |
| **US 3 K 100 A2** | 1000 | 2 | 5 | | 1 | 150.000 | **6342417** |

### Load

**Testing of the bending torque on the ceiling plate**

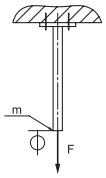
| Item on test | US 3 K 80 |
|---|---|
| Deformation measuring point m | |
| Length L | 800 mm |
| Force F | 0.462 kN |
| Bending torque M1 (SWL) | 370 Nm |




According to IEC 61537, Chapter 10.8.2.1

**Testing of the tensile strength**

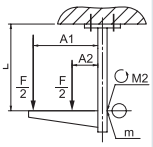
| Item on test | US 3 K 80 |
|---|---|
| Deformation measuring point m | |
| Force F (SWL) | 20 kN |




According to IEC 61537, Chapter 10.8.2.2

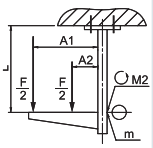
**Testing of the bending torque on the support with bracket**

| Item on test | US 3 K 80 | US 3 K 120 |
|---|---|---|
| | AW 15 31 | AW 15 31 |
| Deformation measuring point m | | |
| A1 lever arm | 310 mm | 310 mm |
| A2 lever arm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm |
| Force F | 0.947 kN | 0.790 kN |
| Bending torque M2 (SWL) | 180 Nm | 150 Nm |

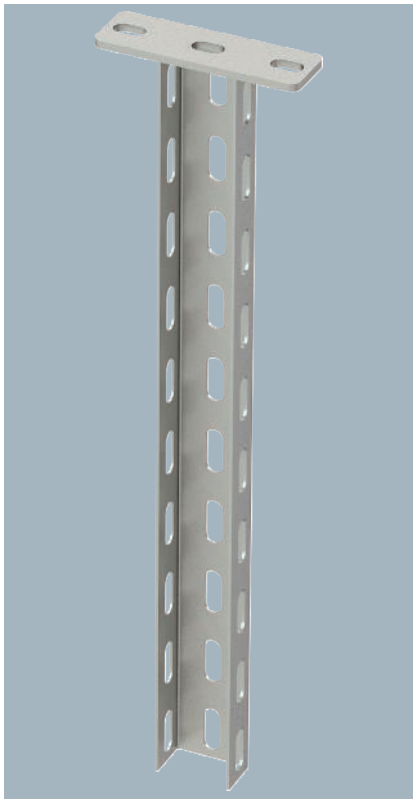



**Testing of the bending torque on the support with bracket with spacer**

| Item on test | US 3 K 80 | US 3 K 120 |
|---|---|---|
| | AW 15 61 | AW 15 61 |
| Deformation measuring point m | | |
| A1 lever arm | 610 mm | 610 mm |
| A2 lever arm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm |
| Force F | 0.850 kN | 0.850 kN |
| Bending torque M2 (SWL) | 290 Nm | 290 Nm |

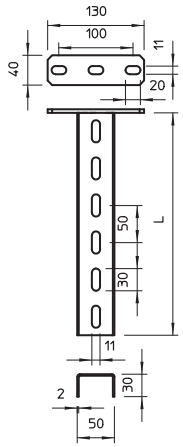



According to IEC 61537, Chapter 10.8.2.3, without spacer



For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

Suspended support (U profile) of dimensions 50 x 30 mm with welded head plate.

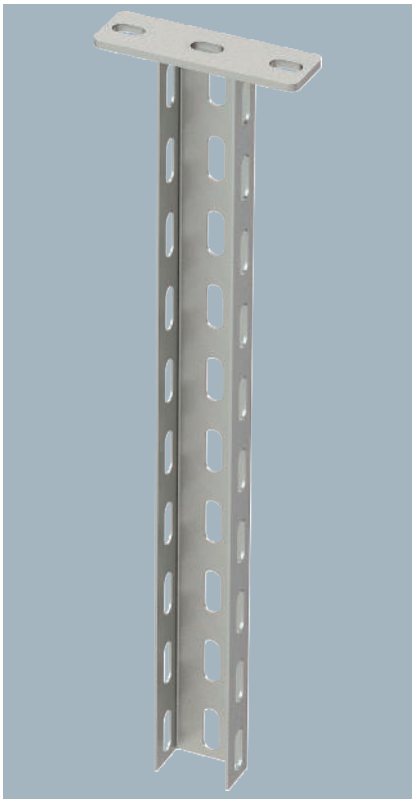





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## US 3 support

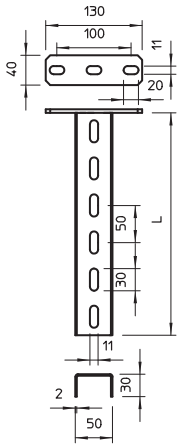
A4 2B



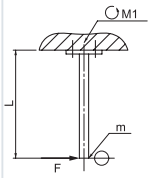
| Type | Length mm | Material thickness mm | Tensile load kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **US 3 K 20 A4** | 200 | 2 | 5 | | 1 | 44.000 | **6342375** |
| **US 3 K 30 A4** | 300 | 2 | 5 | | 1 | 58.000 | **6342530** |
| **US 3 K 40 A4** | 400 | 2 | 5 | | 1 | 71.000 | **6342379** |
| **US 3 K 50 A4** | 500 | 2 | 5 | | 1 | 84.000 | **6342381** |
| **US 3 K 60 A4** | 600 | 2 | 5 | | 1 | 97.000 | **6342389** |
| **US 3 K 70 A4** | 700 | 2 | 5 | | 1 | 110.000 | **6342391** |
| **US 3 K 80 A4** | 800 | 2 | 5 | | 1 | 123.000 | **6342393** |
| **US 3 K 90 A4** | 900 | 2 | 5 | | 1 | 137.000 | **6342395** |
| **US 3 K 100 A4** | 1000 | 2 | 5 | | 1 | 150.000 | **6342397** |
| **US 3 K 110 A4** | 1100 | 2 | 5 | | 1 | 166.000 | **6342396** |
| **US 3 K 120 A4** | 1200 | 2 | 5 | | 1 | 178.000 | **6342398** |

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

Suspended support (U profile) of dimensions 50 x 30 mm with welded head plate.



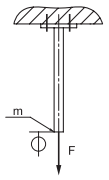

### Load




**Testing of the bending torque on the ceiling plate**

| Item on test | US 3 K 80 |
|---|---|
| Deformation measuring point m | |
| Length L | 800 mm |
| Force F | 0.462 kN |
| Bending torque M1 (SWL) | 370 Nm |

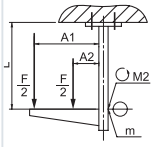
According to IEC 61537, Chapter 10.8.2.1




**Testing of the tensile strength**

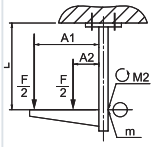
| Item on test | US 3 K 80 |
|---|---|
| Deformation measuring point m | |
| Force F (SWL) | 20 kN |

According to IEC 61537, Chapter 10.8.2.2




**Testing of the bending torque on the support with bracket**

| Item on test | US 3 K 80 | US 3 K 120 |
|---|---|---|
| | AW 15 31 | AW 15 31 |
| Deformation measuring point m | | |
| A1 lever arm | 310 mm | 310 mm |
| A2 lever arm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm |
| Force F | 0.947 kN | 0.790 kN |
| Bending torque M2 (SWL) | 180 Nm | 150 Nm |



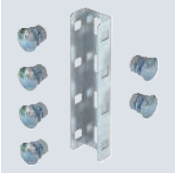

**Testing of the bending torque on the support with bracket with spacer**

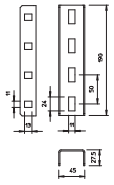
| Item on test | US 3 K 80 | US 3 K 120 |
|---|---|---|
| | AW 15 61 | AW 15 61 |
| Deformation measuring point m | | |
| A1 lever arm | 610 mm | 610 mm |
| A2 lever arm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm |
| Force F | 0.850 kN | 0.850 kN |
| Bending torque M2 (SWL) | 290 Nm | 290 Nm |

According to IEC 61537, Chapter 10.8.2.3, without spacer

## VUS 3 U support connector

St FT





| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **VUS 3 FT** | | 10 | 48.300 | **6018513** |

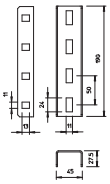
U support connector to connect US 3 supports.
Including appropriate fastening material.

A2 A4 2B

## VUS 3 U support connector

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| VUS 3 A2 | | 1 | 48.200 | 6018517 |
| VUS 3 A4 | | 1 | 48.200 | 6018520 |

U support connector to connect US 3 supports.
Including appropriate fastening material.



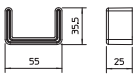


PE

## Protective cap

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| US 3 KS OR | Pastel orange | 20 | 1.068 | 6338458 |

Protective cap to cover the ends of US 3 supports.



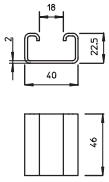



St FT

## DSK 25 spacer

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| DSK 25 FT | | 20 | 7.500 | 6416446 |

Spacer for use in US 3 supports.



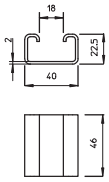



A2 A4 2B

## DSK 25 spacer

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| DSK 25 A2 | | 10 | 7.500 | 6416448 |
| DSK 25 A4 | | 10 | 7.500 | 6416450 |

Spacer for use in US 3 supports.



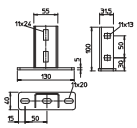



St FT

## Head plate

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| KU 3 FT | | 1 | 42.300 | 6348874 |

The head plate can be mounted to fixed lengths of the U support, type US 3.
Including appropriate fastening material.
Head plate for mounting on US 3 supports.





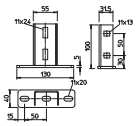



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## Head plate

A2 A4 2B





| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KU 3 A2 | 1 | 41.000 | 6348876 |
| KU 3 A4 | 1 | 40.700 | 6348877 |

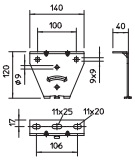
The head plate can be mounted to fixed lengths of the U support, type US 3.
Including appropriate fastening material.

Head plate for mounting on US 3 supports.

## Head plate, variable

St FS FT





| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KU 3 V FS | 1 | 40.000 | 6348881 |
| KU 3 V FT | 1 | 41.300 | 6348883 |

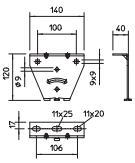
The variable head plate can be mounted to fixed lengths of the U support, type US 3, or profile rails, type AML3518/AMS3518 and CML3518/CMS3518. The maximum angle adjustment is 20° on one side.

Variable head plate for installation on US 3 supports and profile rails, type AML3518/AMS3518 and CML3518/CMS3518.

## Head plate, variable

A2 2B





| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KU 3 V A2 | 1 | 40.000 | 6348884 |

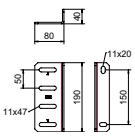
The variable head plate can be mounted to fixed lengths of the U support, type US 3, or profile rails, type AML3518/AMS3518 and CML3518/CMS3518.

Head plate for the installation on US 3 supports and profile rails, type AML3518/AMS3518 and CML3518/CMS3518.

## Fastening bracket for US 3/US 5 support

St FT



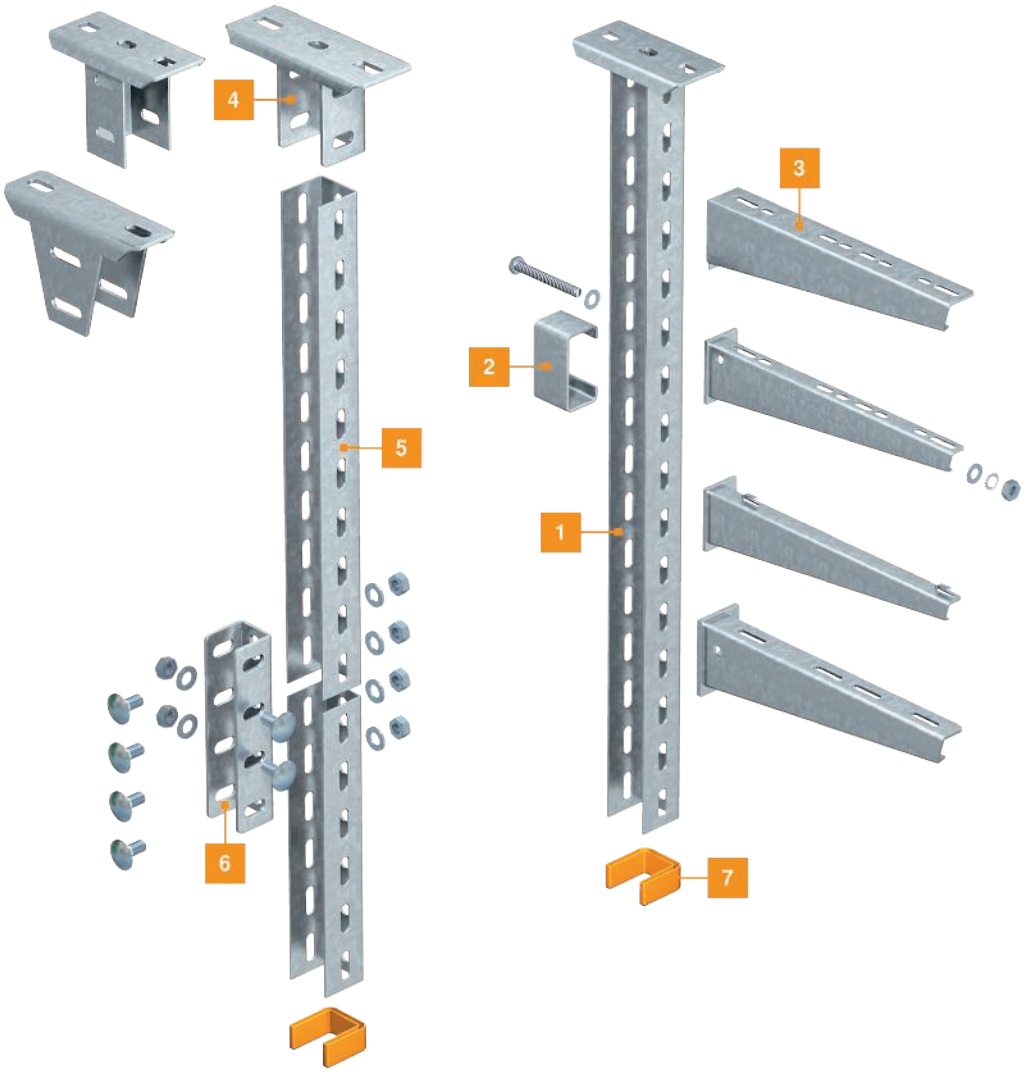


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| BW US 3/5 FT | 5 | 71.100 | 6019534 |

Suitable for U support, type US 3 and US 5.

Fastening bracket for the creation of individual support structures with U supports.

## Installation principle




| | |
|---|---|
| 1 | US 5 suspended support |
| 2 | Spacer |
| 3 | Wall and support brackets |
| 4 | Head plate |
| 5 | US 5 support |
| 6 | U support connector |
| 7 | End cap |



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## US 5 support

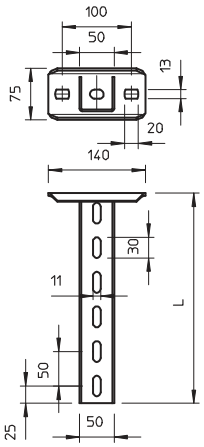
St FT



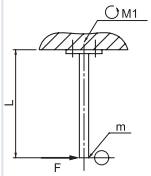
| Type | Length mm | Material thickness mm | Tensile load kN | BS | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **US 5 K 20 FT** | 200 | 2.5 | 10 | | 1 | 85.000 | **6341527** |
| **US 5 K 30 FT** | 300 | 2.5 | 10 | | 1 | 110.000 | **6341535** |
| **US 5 K 40 FT** | 400 | 2.5 | 10 | | 1 | 136.000 | **6341543** |
| **US 5 K 50 FT** | 500 | 2.5 | 10 | | 1 | 161.000 | **6341551** |
| **US 5 K 60 FT** | 600 | 2.5 | 10 | | 1 | 185.000 | **6341578** |
| **US 5 K 70 FT** | 700 | 2.5 | 10 | | 1 | 210.000 | **6341586** |
| **US 5 K 80 FT** | 800 | 2.5 | 10 | | 1 | 236.000 | **6341594** |
| **US 5 K 90 FT** | 900 | 2.5 | 10 | | 1 | 261.000 | **6341608** |
| **US 5 K 100 FT** | 1000 | 2.5 | 10 | | 1 | 286.000 | **6341616** |
| **US 5 K 110 FT** | 1100 | 2.5 | 10 | | 1 | 311.000 | **6341624** |
| **US 5 K 120 FT** | 1200 | 2.5 | 10 | | 1 | 337.000 | **6341632** |
| **US 5 K 150 FT** | 1500 | 2.5 | 10 | | 1 | 397.100 | **6341640** |

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

U support of dimensions 50 x 50 mm with welded head plate.



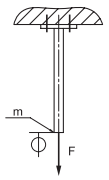

### Load




**Testing of the bending torque on the ceiling plate**

| Item on test | US 5 K 80 |
|---|---|
| Deformation measuring point m | |
| Length L | 800 mm |
| Force F | 0.950 kN |
| Bending torque M1 (SWL) | 760 Nm |

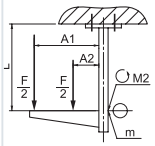
According to IEC 61537, Chapter 10.8.2.1




**Testing of the tensile strength**

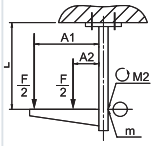
| Item on test | US 5 K 80 |
|---|---|
| Deformation measuring point m | |
| Force F (SWL) | 26 kN |

According to IEC 61537, Chapter 10.8.2.2




**Testing of the bending torque on the support with bracket**

| Item on test | US 5 K 80 | US 5 K 120 |
|---|---|---|
| | AW 30 31 FT | AW 30 31 FT |
| Deformation measuring point m | | |
| A1 lever arm | 310 mm | 310 mm |
| A2 lever arm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm |
| Force F | 1.253 kN | 1.358 kN |
| Bending torque M2 (SWL) | 240 Nm | 260 Nm |




**Testing of the bending torque on the support with bracket with spacer**

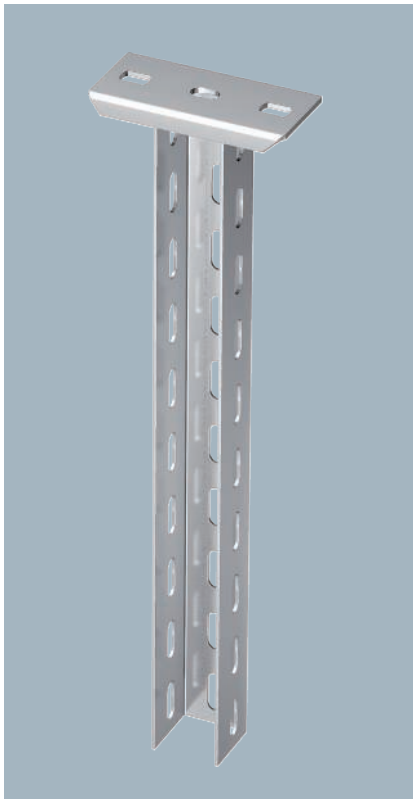
| Item on test | US 5 K 80 | US 5 K 120 |
|---|---|---|
| | AW 30 71 FT | AW 30 71 FT |
| Deformation measuring point m | | |
| A1 lever arm | 710 mm | 710 mm |
| A2 lever arm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm |
| Force F | 1.272 kN | 1.094 kN |
| Bending torque M2 (SWL) | 500 Nm | 430 Nm |

According to IEC 61537, Chapter 10.8.2.3

A2 2B

## US 5 support

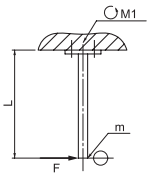
| Type | Length mm | Material thickness mm | Tensile load kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **US 5 K 20 A2** | 200 | 2.5 | 10 | | 1 | 100.000 | **6341358** |
| **US 5 K 30 A2** | 300 | 2.5 | 10 | | 1 | 125.000 | **6341362** |
| **US 5 K 40 A2** | 400 | 2.5 | 10 | | 1 | 150.000 | **6341366** |
| **US 5 K 50 A2** | 500 | 2.5 | 10 | | 1 | 175.000 | **6341370** |
| **US 5 K 60 A2** | 600 | 2.5 | 10 | | 1 | 200.000 | **6341374** |
| **US 5 K 70 A2** | 700 | 2.5 | 10 | | 1 | 225.000 | **6341378** |
| **US 5 K 80 A2** | 800 | 2.5 | 10 | | 1 | 255.000 | **6341382** |
| **US 5 K 90 A2** | 900 | 2.5 | 10 | | 1 | 280.000 | **6341386** |
| **US 5 K 100 A2** | 1000 | 2.5 | 10 | | 1 | 300.000 | **6341390** |
| **US 5 K 110 A2** | 1100 | 2.5 | 10 | | 1 | 330.000 | **6341394** |
| **US 5 K 120 A2** | 1200 | 2.5 | 10 | | 1 | 360.000 | **6341398** |



### Load

**Testing of the bending torque on the ceiling plate**

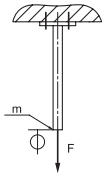
| Item on test | US 5 K 80 |
|---|---|
| Deformation measuring point m | |
| Length L | 800 mm |
| Force F | 0.950 kN |
| Bending torque M1 (SWL) | 760 Nm |




According to IEC 61537, Chapter 10.8.2.1

**Testing of the tensile strength**

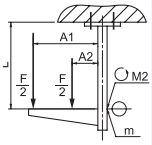
| Item on test | US 5 K 80 |
|---|---|
| Deformation measuring point m | |
| Force F (SWL) | 26 kN |




According to IEC 61537, Chapter 10.8.2.2

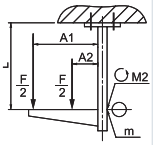
**Testing of the bending torque on the support with bracket**

| Item on test | US 5 K 80 | US 5 K 120 |
|---|---|---|
| | AW 30 31 | AW 30 31 |
| Deformation measuring point m | | |
| A1 lever arm | 310 mm | 310 mm |
| A2 lever arm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm |
| Force F | 1.253 kN | 1.358 kN |
| Bending torque M2 (SWL) | 240 Nm | 260 Nm |




**Testing of the bending torque on the support with bracket with spacer**

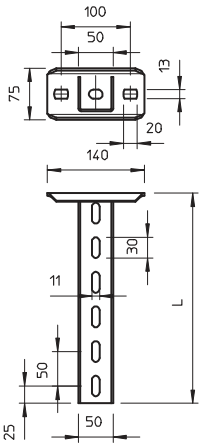
| Item on test | US 5 K 80 | US 5 K 120 |
|---|---|---|
| | AW 30 71 | AW 30 71 |
| Deformation measuring point m | | |
| A1 lever arm | 710 mm | 710 mm |
| A2 lever arm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm |
| Force F | 1.272 kN | 0.950 kN |
| Bending torque M2 (SWL) | 500 Nm | 430 Nm |




According to IEC 61537, Chapter 10.8.2.3

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

Suspended support (U profile) with welded head plate.

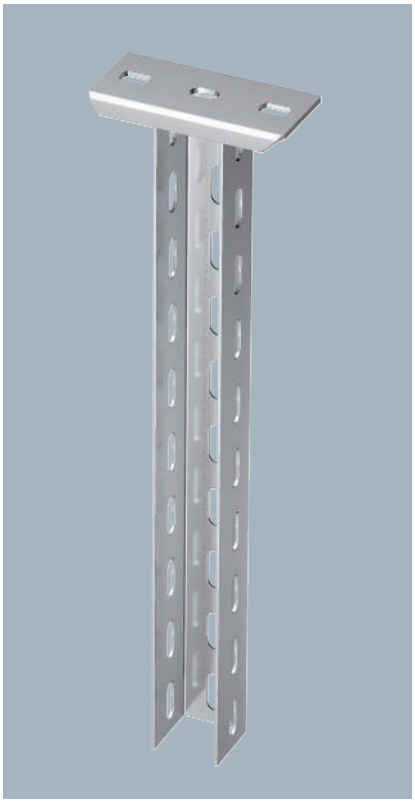





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A4 2B

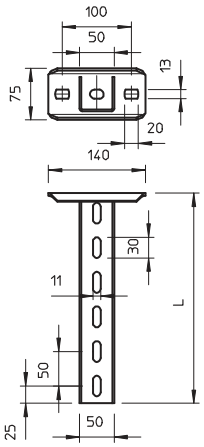
## US 5 support



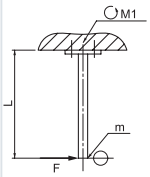
| Type | Length mm | Material thickness mm | Tensile load kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **US 5 K 20 A4** | 200 | 2.5 | 10 | | 1 | 100.000 | **6341209** |
| **US 5 K 30 A4** | 300 | 2.5 | 10 | | 1 | 125.000 | **6341213** |
| **US 5 K 40 A4** | 400 | 2.5 | 10 | | 1 | 150.000 | **6341217** |
| **US 5 K 50 A4** | 500 | 2.5 | 10 | | 1 | 175.000 | **6341221** |
| **US 5 K 60 A4** | 600 | 2.5 | 10 | | 1 | 180.000 | **6341225** |
| **US 5 K 70 A4** | 700 | 2.5 | 10 | | 1 | 225.000 | **6341228** |
| **US 5 K 80 A4** | 800 | 2.5 | 10 | | 1 | 255.000 | **6341233** |
| **US 5 K 90 A4** | 900 | 2.5 | 10 | | 1 | 280.000 | **6341237** |
| **US 5 K 100 A4** | 1000 | 2.5 | 10 | | 1 | 300.000 | **6341241** |
| **US 5 K 110 A4** | 1100 | 2.5 | 10 | | 1 | 330.000 | **6341245** |
| **US 5 K 120 A4** | 1200 | 2.5 | 10 | | 1 | 360.000 | **6341249** |

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

Suspended support (U profile) with welded head plate.



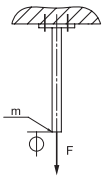

### Load




**Testing of the bending torque on the ceiling plate**

| Item on test | US 5 K 80 |
|---|---|
| Deformation measuring point m | |
| Length L | 800 mm |
| Force F | 0.950 kN |
| Bending torque M1 (SWL) | 760 Nm |

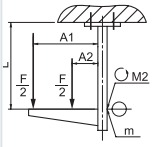
According to IEC 61537, Chapter 10.8.2.1




**Testing of the tensile strength**

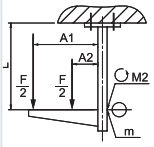
| Item on test | US 5 K 80 |
|---|---|
| Deformation measuring point m | |
| Force F (SWL) | 26 kN |

According to IEC 61537, Chapter 10.8.2.2




**Testing of the bending torque on the support with bracket**

| Item on test | US 5 K 80 | US 5 K 120 |
|---|---|---|
| | AW 30 31 | AW 30 31 |
| Deformation measuring point m | | |
| A1 lever arm | 310 mm | 310 mm |
| A2 lever arm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm |
| Force F | 1.253 kN | 1.358 kN |
| Bending torque M2 (SWL) | 240 Nm | 260 Nm |




**Testing of the bending torque on the support with bracket with spacer**

| Item on test | US 5 K 80 | US 5 K 120 |
|---|---|---|
| | AW 30 71 | AW 30 71 |
| Deformation measuring point m | | |
| A1 lever arm | 710 mm | 710 mm |
| A2 lever arm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm |
| Force F | 1.272 kN | 0.950 kN |
| Bending torque M2 (SWL) | 500 Nm | 430 Nm |

According to IEC 61537, Chapter 10.8.2.3

St FT SO

## US 5 suspended support FT SOMY

| Type | Length mm | Material thickness mm | Tensile load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **US 5 K 30 FT SO** | 300 | 2.5 | 10 | 1 | 106.000 | **7193509** |
| **US 5 K 50 FT SO** | 500 | 2.5 | 10 | 1 | 161.000 | **7193511** |
| **US 5 K 60 FT SO** | 600 | 2.5 | 10 | 1 | 189.000 | **7193516** |
| **US 5 K 100 FT SO** | 1000 | 2.5 | 10 | 1 | 286.000 | **7193524** |
| **US 5 K 120 FT SO** | 1200 | 2.5 | 10 | 1 | 344.000 | **7193527** |

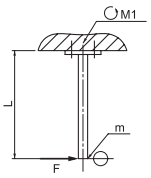


### Load

**Testing of the bending torque on the ceiling plate**

| Item on test | US 5 K 80 |
|---|---|
| Deformation measuring point m | |
| Length L | 800 mm |
| Force F | 0.950 kN |
| Bending torque M1 (SWL) | 760 Nm |

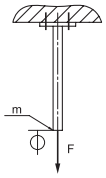
According to IEC 61537, Chapter 10.8.2.1




**Testing of the tensile strength**

| Item on test | US 5 K 80 |
|---|---|
| Deformation measuring point m | |
| Force F (SWL) | 26 kN |

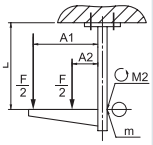
According to IEC 61537, Chapter 10.8.2.2




**Testing of the bending torque on the support with bracket**

| Item on test | US 5 K 80 AW 30 71 FT | US 5 K 120 AW 30 71 FT |
|---|---|---|
| Deformation measuring point m | | |
| A1 lever arm | 710 mm | 710 mm |
| A2 lever arm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm |
| Force F | 0.789 kN | 0.711 kN |
| Bending torque M2 (SWL) | 300 Nm | 270 Nm |

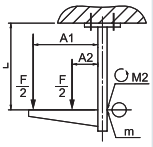
According to IEC 61537, Chapter 10.8.2.3, without spacer




**Testing of the bending torque on the support with bracket with spacer**

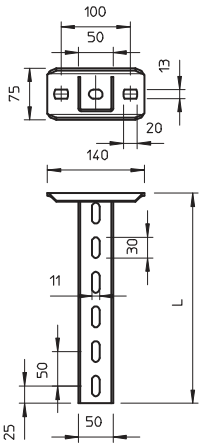
| Item on test | US 5 K 80 AW 30 71 FT | US 5 K 120 AW 30 71 FT |
|---|---|---|
| Deformation measuring point m | | |
| A1 lever arm | 710 mm | 710 mm |
| A2 lever arm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm |
| Force F | 1.272 kN | 0.950 kN |
| Bending torque M2 (SWL) | 500 Nm | 430 Nm |

According to IEC 61537, Chapter 10.8.2.3




For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

Suspended support (U profile) with welded head plate.

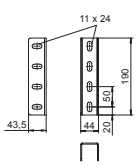



St FT

## VUS 5 U support connector

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **VUS 5 FT** | 10 | 61.000 | **6018505** |

U support connector to connect US 5 supports.
Including appropriate fastening material.





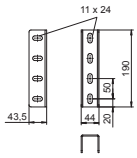



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## U support connector VUS 5

A4 2B





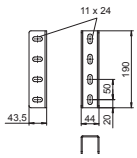

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| VUS 5 A4 | | 1 | 64.800 | 6018509 |

U support connector to connect US 5 supports.
Including appropriate fastening material.

## U support connector VUS 5

A2 2B





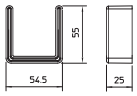

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| VUS 5 A2 | | 1 | 64.800 | 6018512 |

U support connector to connect US 5 supports.
Including appropriate fastening material.

## Protective cap

PE





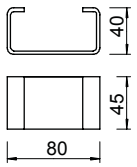

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| US 5 KS OR | Pastel orange | 20 | 1.300 | 6338462 |

Protective cap to cover the ends of US 5 supports.

## Spacer DSK 45

St FT





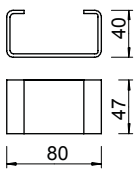

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| DSK 45 FT | | 20 | 18.000 | 6416500 |

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.
Spacer for use in US 5 support and in the head plate, type KU 7 VQP.

## Spacer DSK 47

St FT






| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| DSK 47 FT | | 20 | 19.000 | 6416504 |

For static reasons, the spacer is always used to increase stability to prevent the head plate from deforming when the bolts are tightened.
Spacer for use in head plate, type KU 5 V.

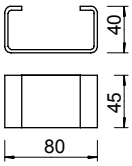
A2 A4 2B

## Spacer DSK 45

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| DSK 45 A2 | 10 | 14.600 | 6416489 |
| DSK 45 A4 | 10 | 14.600 | 6416462 |

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.

Spacer for use in US 5 supports.





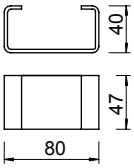

A2 A4 2B

## Spacer DSK 47

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| DSK 47 A2 | 10 | 15.600 | 6416507 |
| DSK 47 A4 | 10 | 15.600 | 6416511 |

For static reasons, the spacer is always used to increase stability to prevent the head plate from deforming when the bolts are tightened.

Spacer for use in head plate, type KU 5 V.





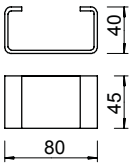

St FT SO

## DSK 45 spacer FT SOMY

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| DSK 45 FT SO | 1 | 19.000 | 7192503 |

For static reasons, the spacer is always used to prevent the support from deforming when the hexagonal bolts are used to fasten the bracket or head plate.

Spacer for use in U 5 supports.





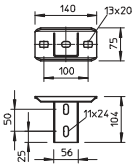

St FT

## Head plate US 5

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KUS 5 FT | 1 | 61.900 | 6348904 |

When installing the head plate, please use the spacer, type DSK 45.

Head plate for installation in US 5 support.





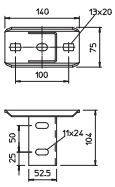

St FT

## Head plate US 5 NOK

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KUS 5 NOK FT | 1 | 75.000 | 6348939 |

Head plate with U support mounting rotated 90°.

When installing the head plate, please use the spacer, type DSK 45.





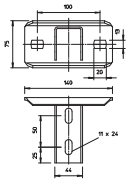



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## Head plate US 5 NOK

A2 2B





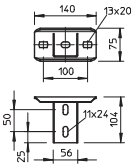
| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| KUS 5 NOK A2 | | 1 | 61.000 | 6348947 |

When installing the head plate, please use the spacer, type DSK 45.
Head plate with U support mounting rotated 90°.

## Head plate US 5 FT SOMY

St FT SO





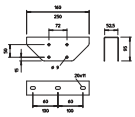

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| KUS 5 FT SO | | 1 | 63.000 | 7193547 |

Head plate for installation in US 5 support.
When installing the head plate, please use the spacer, type DSK 45.

## Head plate KU 5 16

St FS





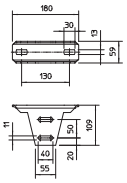
| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| KU 5 16 FS | | 10 | 50.300 | 6344380 |

Head plate for the mounting on supports type USL and USM.

## KU 5 head plate, variable

St FT





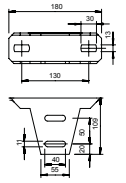

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| KU 5 V FT | | 1 | 82.000 | 6348920 |

The spacer, type DSK 47, is used for stabilisation when mounting the head plate. The maximum angle adjustment is approx. 30° on one side.
Variable head plate for installation on US 5 support.

## KU 5 head plate, variable

A2 A4 2B






| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| KU 5 V A2 | | 1 | 81.000 | 6348925 |
| KU 5 V A4 | | 1 | 81.000 | 6348927 |

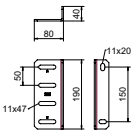
The spacer, type DSK 47, is used to install the head plate.
Variable head plate for installation on US 5 support.

St FT

## Fastening bracket for US 3/US 5 support

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **BW US 3/5 FT** | | 5 | 71.100 | **6019534** |

Suitable for U support, type US 3 and US 5.
Fastening bracket for the creation of individual support structures with U supports.






St G

## Fastening splint G 8X71 G

| Type | Length mm | Fit mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **G 8X71 G** | 91 | 8 | | 25 | 2.800 | **6344569** |

Fastening splint for screwless fastening of head plates and bracket.



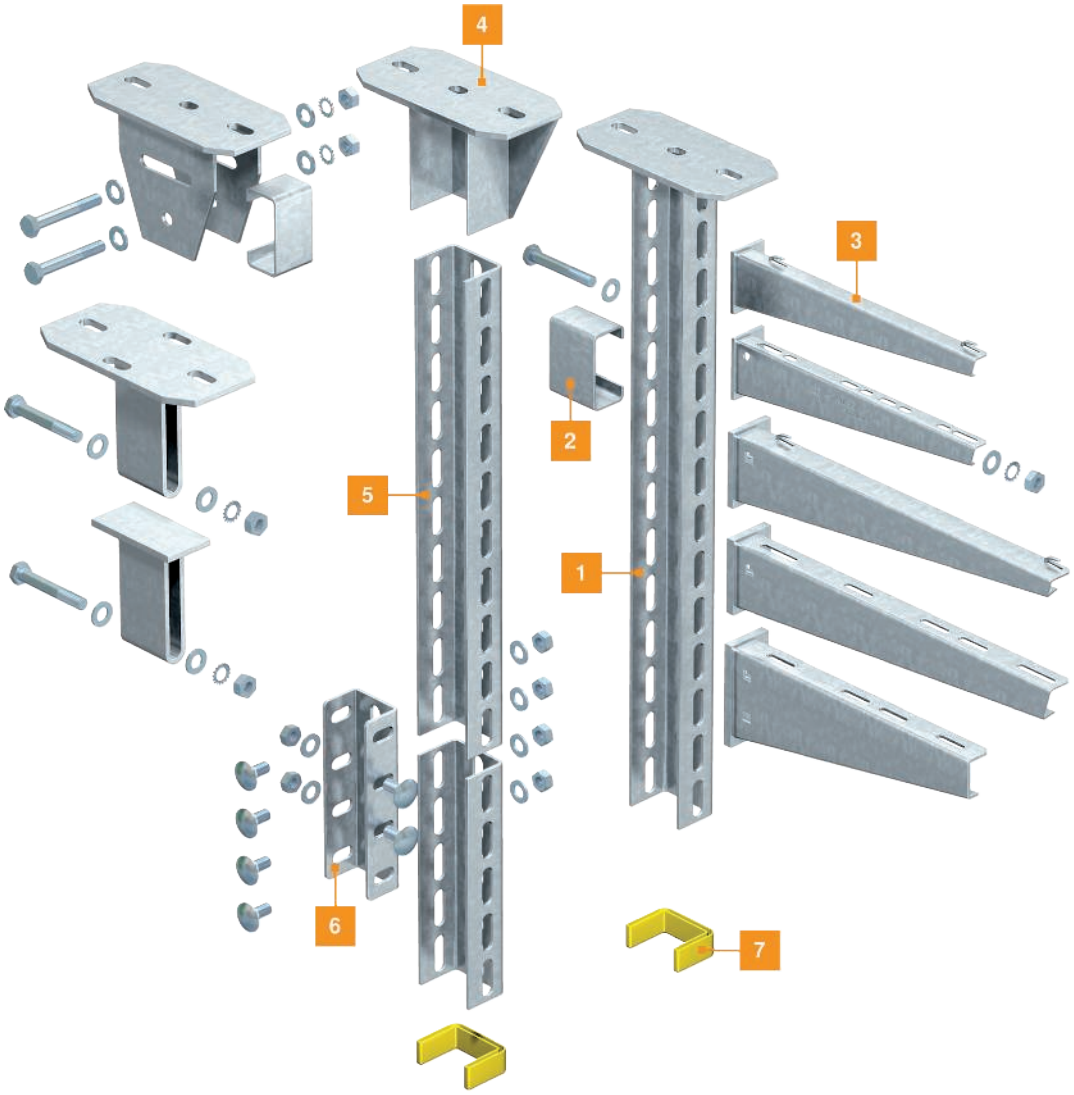




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# US 7 U support system

## Installation principle

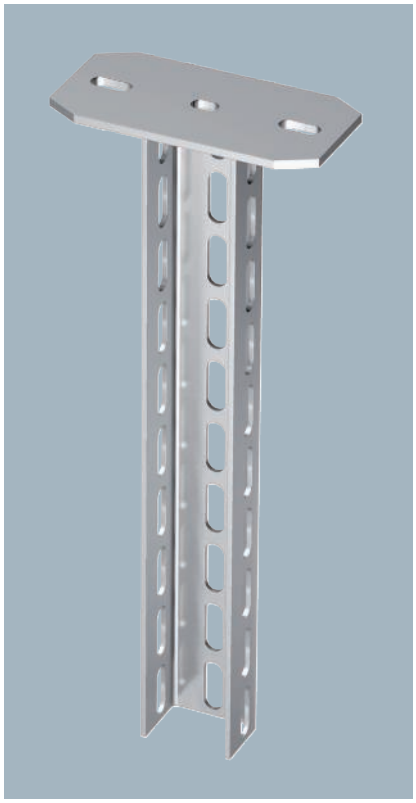



| | |
|---|---|
| 1 | US 7 suspended support |
| 2 | Spacer |
| 3 | Wall and support brackets |
| 4 | Head plate |
| 5 | US 7 support |
| 6 | U support connector |
| 7 | Protective cap |

A2 2B

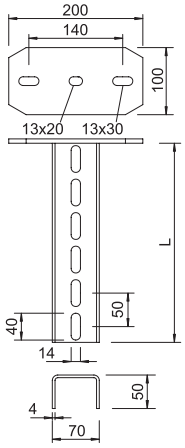
## US 7 support

| Type | Length mm | Material thickness mm | Tensile load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **US 7 K 20 A2** | 200 | 4 | 11 | 1 | 173.000 | **6338607** |
| **US 7 K 30 A2** | 300 | 4 | 11 | 1 | 213.000 | **6338615** |
| **US 7 K 40 A2** | 400 | 4 | 11 | 1 | 256.000 | **6338623** |
| **US 7 K 50 A2** | 500 | 4 | 11 | 1 | 296.000 | **6338631** |
| **US 7 K 60 A2** | 600 | 4 | 11 | 1 | 337.000 | **6338658** |
| **US 7 K 70 A2** | 700 | 4 | 11 | 1 | 377.000 | **6338666** |
| **US 7 K 80 A2** | 800 | 4 | 11 | 1 | 410.000 | **6338674** |
| **US 7 K 90 A2** | 900 | 4 | 11 | 1 | 459.000 | **6338682** |
| **US 7 K 100 A2** | 1000 | 4 | 11 | 1 | 491.000 | **6338690** |
| **US 7 K 110 A2** | 1100 | 4 | 11 | 1 | 531.000 | **6338704** |
| **US 7 K 120 A2** | 1200 | 4 | 11 | 1 | 571.000 | **6338712** |
| **US 7 K 140 A2** | 1400 | 4 | 11 | 1 | 650.000 | **6338739** |
| **US 7 K 150 A2** | 1500 | 4 | 11 | 1 | 690.000 | **6338747** |
| **US 7 K 200 A2** | 2000 | 4 | 11 | 1 | 889.000 | **6338801** |



For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

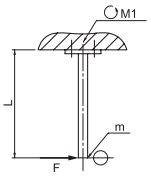
Suspended support (U profile) with welded head plate.




### Load

**Testing of the bending torque on the ceiling plate**

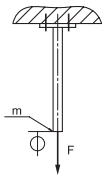
| Item on test | US 7 K 80 |
|---|---|
| Deformation measuring point m | |
| Length L | 800 mm |
| Force F | 2.250 kN |
| Bending torque M1 (SWL) | 1,800 Nm |




According to IEC 61537, Chapter 10.8.2.1

**Testing of the tensile strength**

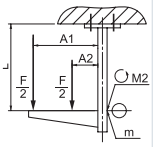
| Item on test | US 7 K 80 |
|---|---|
| Deformation measuring point m | |
| Force F (SWL) | 45 kN |




According to IEC 61537, Chapter 10.8.2.2

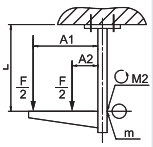
**Testing of the bending torque on the support with bracket**

| Item on test | US 7 K 80 AW 30 31 | US 7 K 120 AW 30 31 | US 7 K 170 AW 30 31 |
|---|---|---|---|
| Deformation measuring point m | | | |
| A1 lever arm | 310 mm | 310 mm | 310 mm |
| A2 lever arm | 10 mm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm | 1,500 mm |
| Force F | 2.169 kN | 2.169 kN | 1.985 kN |
| Bending torque M2 (SWL) | 437 Nm | 437 Nm | 400 Nm |




**Testing of the bending torque on the support with bracket with spacer**

| Item on test | US 7 K 80 AW 55 81 | US 7 K 120 AW 55 81 | US 7 K 170 AW 55 81 |
|---|---|---|---|
| Deformation measuring point m | | | |
| A1 lever arm | 810 mm | 810 mm | 810 mm |
| A2 lever arm | 10 mm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm | 1,500 mm |
| Force F | 3.348 kN | 2.659 kN | 2.079 kN |
| Bending torque M2 (SWL) | 1,530 Nm | 1,530 Nm | 1,530 Nm |



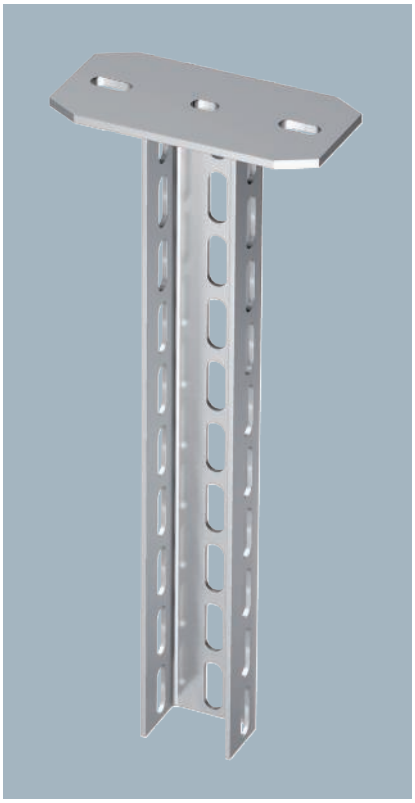

According to IEC 61537, Chapter 10.8.2.3



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## US 7 support

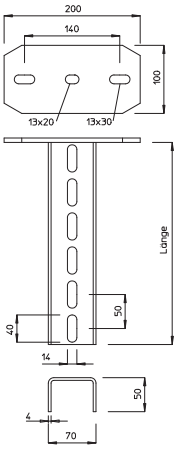
A4 2B



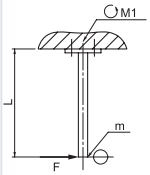
| Type | Length mm | Material thickness mm | Tensile load kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **US 7 K 100 A4** | 1000 | 4 | 11 | | 1 | 500.000 | **6338872** |
| **US 7 K 200 A4** | 2000 | 4 | 11 | | 1 | 905.000 | **6338881** |

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

Suspended support (U profile) with welded head plate.



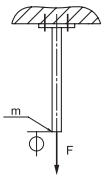

### Load




**Testing of the bending torque on the ceiling plate**

| Item on test | US 7 K 80 |
|---|---|
| Deformation measuring point m | |
| Length L | 800 mm |
| Force F | 2.250 kN |
| Bending torque M1 (SWL) | 1,800 Nm |

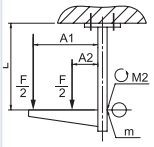
According to IEC 61537, Chapter 10.8.2.1




**Testing of the tensile strength**

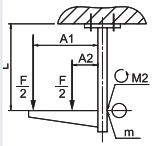
| Item on test | US 7 K 80 |
|---|---|
| Deformation measuring point m | |
| Force F (SWL) | 45 kN |

According to IEC 61537, Chapter 10.8.2.2




**Testing of the bending torque on the support with bracket**

| Item on test | US 7 K 80 | US 7 K 120 | US 7 K 170 |
|---|---|---|---|
| | AW 30 31 | AW 30 31 | AW 30 31 |
| Deformation measuring point m | | | |
| A1 lever arm | 310 mm | 310 mm | 310 mm |
| A2 lever arm | 10 mm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm | 1,500 mm |
| Force F | 2.169 kN | 2.169 kN | 1.985 kN |
| Bending torque M2 (SWL) | 437 Nm | 437 Nm | 400 Nm |




**Testing of the bending torque on the support with bracket with spacer**

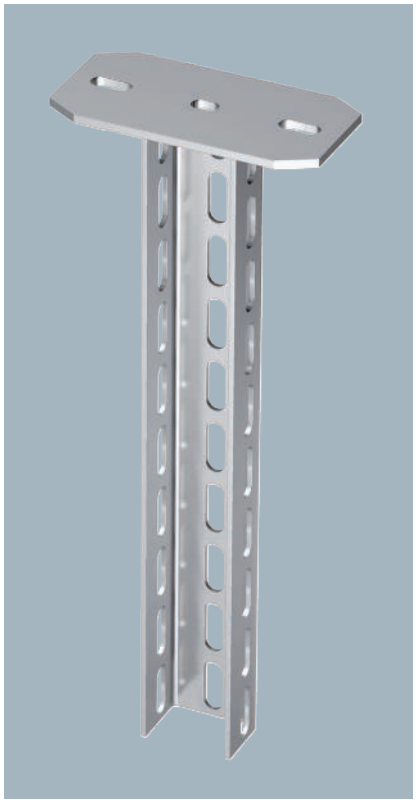
| Item on test | US 7 K 80 | US 7 K 120 | US 7 K 170 |
|---|---|---|---|
| | **AW 55 81** | **AW 55 81** | **AW 55 81** |
| Deformation measuring point m | | | |
| A1 lever arm | **810 mm** | **810 mm** | **810 mm** |
| A2 lever arm | **10 mm** | **10 mm** | **10 mm** |
| Length L | **500 mm** | **1,000 mm** | **1,500 mm** |
| Force F | **3.348 kN** | **2.659 kN** | **2.079 kN** |
| Bending torque M2 (SWL) | **1,530 Nm** | **1,530 Nm** | **1,530 Nm** |

According to IEC 61537, Chapter 10.8.2.3

A4 2B

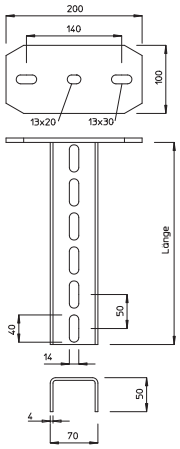
## US 7 support

| Type | Length mm | Material thickness mm | Tensile load kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **US 7 K 30 A4** | 300 | 4 | 11 | | 1 | 216.000 | **6338858** |
| **US 7 K 40 A4** | 400 | 4 | 11 | | 1 | 256.000 | **6338860** |
| **US 7 K 60 A4** | 600 | 4 | 11 | | 1 | 337.000 | **6338864** |
| **US 7 K 80 A4** | 800 | 4 | 11 | | 1 | 417.000 | **6338868** |
| **US 7 K 120 A4** | 1200 | 4 | 11 | | 1 | 578.000 | **6338876** |



For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

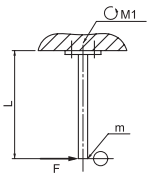
Suspended support (U profile) with welded head plate.




### Load

**Testing of the bending torque on the ceiling plate**

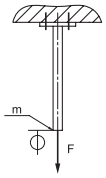
| Item on test | US 7 K 80 |
|---|---|
| Deformation measuring point m | |
| Length L | 800 mm |
| Force F | 2.250 kN |
| Bending torque M1 (SWL) | 1,800 Nm |




According to IEC 61537, Chapter 10.8.2.1

**Testing of the tensile strength**

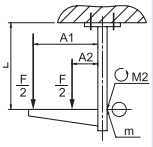
| Item on test | US 7 K 80 |
|---|---|
| Deformation measuring point m | |
| Force F (SWL) | 45 kN |




According to IEC 61537, Chapter 10.8.2.2

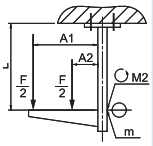
**Testing of the bending torque on the support with bracket**

| Item on test | US 7 K 80 AW 30 31 | US 7 K 120 AW 30 31 | US 7 K 170 AW 30 31 |
|---|---|---|---|
| Deformation measuring point m | | | |
| A1 lever arm | 310 mm | 310 mm | 310 mm |
| A2 lever arm | 10 mm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm | 1,500 mm |
| Force F | 2.169 kN | 2.169 kN | 1.985 kN |
| Bending torque M2 (SWL) | 437 Nm | 437 Nm | 400 Nm |




**Testing of the bending torque on the support with bracket with spacer**

| Item on test | US 7 K 80 AW 55 81 | US 7 K 120 AW 55 81 | US 7 K 170 AW 55 81 |
|---|---|---|---|
| Deformation measuring point m | | | |
| A1 lever arm | 810 mm | 810 mm | 810 mm |
| A2 lever arm | 10 mm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm | 1,500 mm |
| Force F | 3.348 kN | 2.659 kN | 2.079 kN |
| Bending torque M2 (SWL) | 1,530 Nm | 1,530 Nm | 1,530 Nm |




According to IEC 61537, Chapter 10.8.2.3



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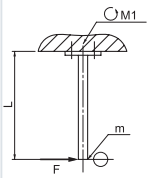
## US 7 suspended support FT SOMY

St FT SO



| Type | Length mm | Material thickness mm | Tensile load kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **US 7 K 100 FT SO** | 1000 | 4 | 11 | | 1 | 518.000 | **7193661** |

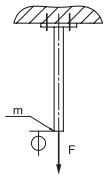
### Load




**Testing of the bending torque on the ceiling plate**

| Item on test | US 7 K 80 |
|---|---|
| Deformation measuring point m | |
| Length L | 800 mm |
| Force F | 2.250 kN |
| Bending torque M1 (SWL) | 1,800 Nm |

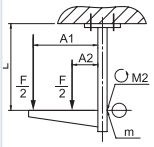
According to IEC 61537, Chapter 10.8.2.1




**Testing of the tensile strength**

| Item on test | US 7 K 80 |
|---|---|
| Deformation measuring point m | |
| Force F (SWL) | 45 kN |

According to IEC 61537, Chapter 10.8.2.2



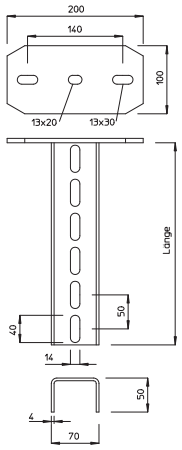

**Testing of the bending torque on the support with bracket**

| Item on test | US 7 K 80 FT | |
|---|---|---|
| | AW 30 31 FT | AW 30 71 FT |
| Deformation measuring point m | | |
| A1 lever arm | 310 mm | 710 mm |
| Lever arm A2 | 10 mm | 10 mm |
| Length L | 500 mm | 500 mm |
| Force F | 0.950 kN | 1.7 kN |
| Bending torque M2 (SWL) | 432 Nm | 612 Nm |

According to IEC 61537, Chapter 10.8.2.3, without spacer

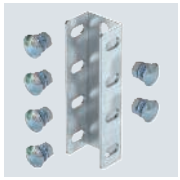
The surface coating is a coating created in a single-dip method with extra-high zinc thicknesses. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

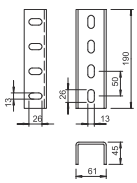
Suspended support (U profile) with welded head plate.
For fastening to horizontal concrete ceilings and steel girders.




## VUS 7 U support connector

St FT






| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **VUS 7 FT** | | 10 | 112.800 | **6018378** |

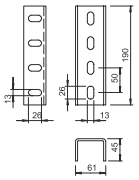
U support connector to connect US 7 supports.
Including appropriate fastening material.

A2 2B

## VUS 7 U support connector

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| VUS 7 A2 | | 1 | 110.900 | 6018408 |

U support connector to connect US 7 supports.
Including appropriate fastening material.



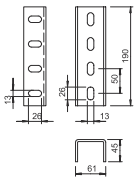



A4 2B

## VUS 7 U support connector

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| VUS 7 A4 | | 1 | 115.800 | 6018412 |

U support connector to connect US 7 supports.
Including appropriate fastening material.



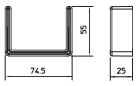



PE

## End cap

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| US 7 KS OR | Pastel orange | 20 | 1.806 | 6338497 |

Protective cap to cover the ends of US 7 supports.



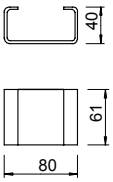



St FT

## DSK 61 spacer

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| DSK 61 FT | | 20 | 25.000 | 6416519 |

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.
Spacer for use in US 7 supports.



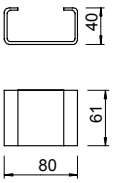


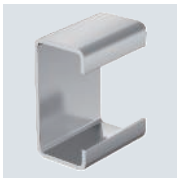

A2 A4 2B

## DSK 61 spacer

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| DSK 61 A2 | | 10 | 20.200 | 6416527 |
| DSK 61 A4 | | 10 | 20.200 | 6416533 |

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.
Spacer for use in US 7 supports.



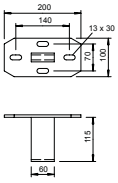


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## Head plate, light-duty version

St FT



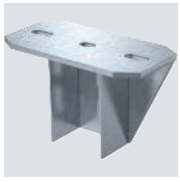


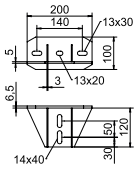

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KU 7 FT | 1 | 144.600 | 6349102 |

Please order fastening material (two hexagonal bolts SKS 12 x 100) separately.
Light-duty head plate for mounting on US 7 support.

## Head plate, heavy duty

St FT





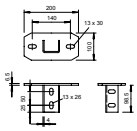

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KU 7 NOX FT | 1 | 184.000 | 6349056 |

Please order fastening material (two truss-head bolts FRS 12 x 25) separately.
Heavy duty head plate for installation in US 7 support.

## Head plate, heavy duty

A2 A4 2B





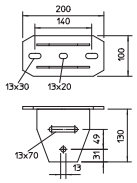
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KUS 7 A2 | 1 | 140.000 | 6349277 |
| KUS 7 A4 | 1 | 140.000 | 6349279 |

Please order fastening material (two truss-head bolts FRS 12 x 25) separately.
Heavy duty head plate for installation in US 7 supports.

## Head plate, variable

St FT





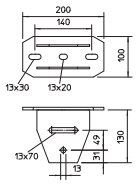

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KU 7 VQP FT | 1 | 181.600 | 6349153 |

Please order fastening material (two hexagonal bolts SKS 12 x 80 and spacer DSK 45) separately. The maximum angle adjustment is 30° on one side.
Variable head plate for installation on US 7 support.

## Head plate, variable

A2 2B






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KU 7 VQP A2 | 1 | 180.700 | 6349196 |

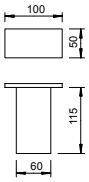
Please order fastening material (two hexagonal bolts SKS 12 x 100 and spacer DSK 45) separately.
Variable head plate for installation on US 7 support.

St FT

## Head plate for welding

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KU 7 AOX FT | 1 | 82.000 | 6349218 |

Please order fastening material (two hexagonal bolts SKS 12 x 100) separately.
Head plate for US 7 support for welding on steel girder.



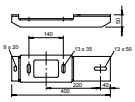



St FT

## Adapter head plate, asymmetrical

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KA-ASY FT | 1 | 280.000 | 6346820 |

The adapter head plate increases the load capacity of the IS 8 K and US 7 K supports, taking the characteristic anchor values into account.
Adapter head plate, asymmetrical, to increase the load capacity of supports, type US 7 K and IS 8 K.



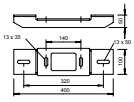


St FT

## Adapter head plate, symmetrical

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KA-SY FT | 1 | 276.000 | 6346804 |

The adapter head plate increases the load capacity of the IS 8 K and US 7 K supports, taking the characteristic anchor values into account.
Adapter head plate, symmetrical, to increase the load capacity of supports, type US 7 K and IS 8 K.



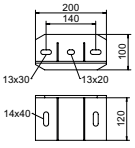


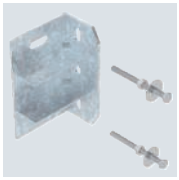
St FT

## BW US 7 fastening bracket

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| BW US 7 FT | 5 | 249.000 | 6019532 |

Suitable for U support, type US 7.
Fastening bracket for the creation of individual support structures with U supports.



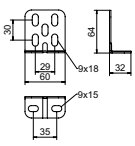



St FS

## Fastening bracket BW 64

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| BW 64 32 FS | 10 | 7.090 | 6019680 |

Light-duty fastening bracket of limb dimension 64 x 32 mm.





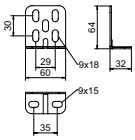



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## Fastening bracket BW 64

St FT





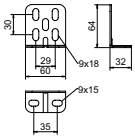

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **BW 64 32 FT** | 10 | 7.700 | **6019682** |

Light-duty fastening bracket of limb dimension 64 x 32 mm.

## Fastening bracket BW 64

A2





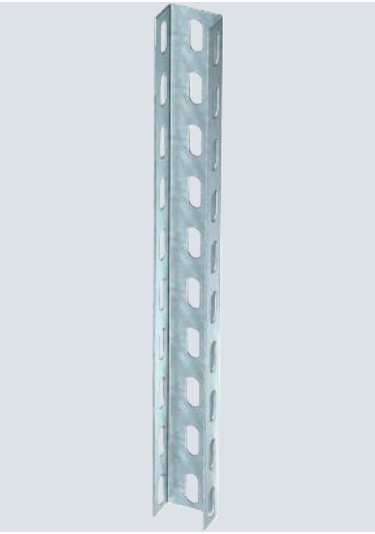

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **BW 64 32 A2** | 10 | 7.090 | **6019686** |

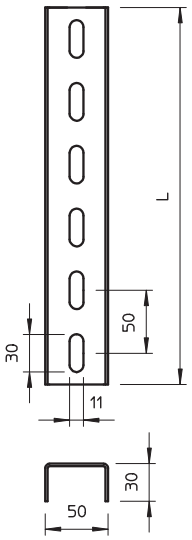
Light-duty fastening bracket of limb dimension 64 x 32 mm.

# U supports

## US 3 support

St FS FT






| Type | Length mm | Material thickness mm | BS | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **US 3 20 FS** | 200 | 2 | | 1 | 27.000 | **6342302** |
| **US 3 30 FS** | 300 | 2 | | 1 | 40.000 | **6342304** |
| **US 3 40 FS** | 400 | 2 | | 1 | 53.000 | **6342306** |
| **US 3 50 FS** | 500 | 2 | | 1 | 67.000 | **6342308** |
| **US 3 60 FS** | 600 | 2 | | 1 | 80.000 | **6342310** |
| **US 3 70 FS** | 700 | 2 | | 1 | 93.000 | **6342312** |
| **US 3 80 FS** | 800 | 2 | | 1 | 107.000 | **6342314** |
| **US 3 100 FS** | 1000 | 2 | | 1 | 133.000 | **6342318** |
| **US 3 150 FS** | 1500 | 2 | | 1 | 200.000 | **6342328** |
| **US 3 200 FS** | 2000 | 2 | | 1 | 266.000 | **6342338** |
| **US 3 300 FS** | 3000 | 2 | | 1 | 399.000 | **6342340** |
| **US 3 600 FS** | 6000 | 2 | | 1 | 798.000 | **6342345** |
| **US 3 90 FS** | 900 | 2 | | 1 | 120.000 | **6342316** |
| **US 3 600 FT** | 6000 | 2 | | 1 | 834.000 | **6342450** |

U support in fixed lengths. Dimensions 30 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

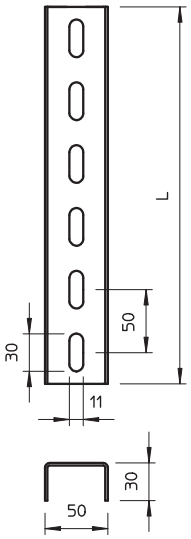
A2 A4 2B

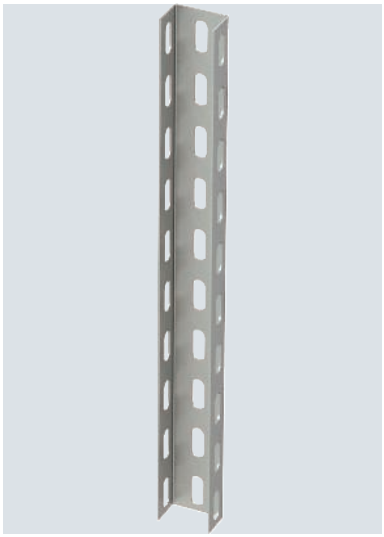
## US 3 support

| Type | Length mm | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **US 3 30 A2** | 300 | 2 | | 1 | 42.200 | **6342455** |
| **US 3 50 A2** | 500 | 2 | | 1 | 66.000 | **6342457** |
| **US 3 100 A2** | 1000 | 2 | | 1 | 132.000 | **6342460** |
| **US 3 150 A2** | 1500 | 2 | | 1 | 198.000 | **6342463** |
| **US 3 200 A2** | 2000 | 2 | | 1 | 263.000 | **6342466** |
| **US 3 600 A2** | 6000 | 2 | | 1 | 790.000 | **6342468** |
| **US 3 30 A4** | 300 | 2 | | 1 | 40.000 | **6342485** |
| **US 3 50 A4** | 500 | 2 | | 1 | 66.000 | **6342488** |
| **US 3 100 A4** | 1000 | 2 | | 1 | 132.000 | **6342491** |
| **US 3 150 A4** | 1500 | 2 | | 1 | 198.000 | **6342494** |
| **US 3 200 A4** | 2000 | 2 | | 1 | 263.000 | **6342497** |

U support in fixed lengths. Dimensions 30 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.



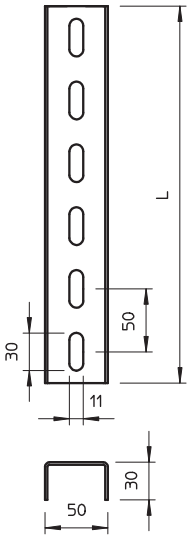
A4 2B

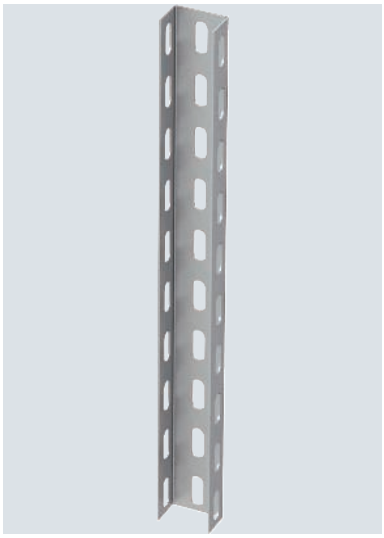
## US 3 support

| Type | Length mm | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **US 3 600 A4** | 6000 | 2 | | 1 | 790.000 | **6342505** |

U support in fixed lengths. Dimensions 30 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.



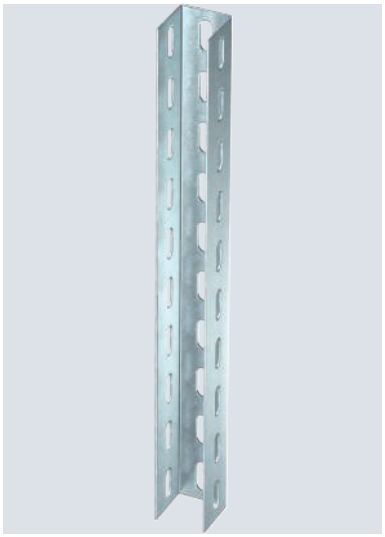



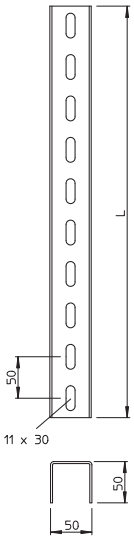


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## US 5 support

St FT





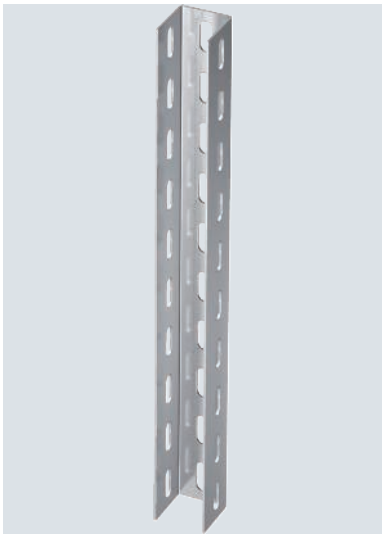

| Type | Length mm | Material thickness mm | BS | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **US 5 20 FT** | 200 | 2.5 | | 1 | 51.000 | **6340881** |
| **US 5 30 FT** | 300 | 2.5 | | 1 | 79.000 | **6340903** |
| **US 5 40 FT** | 400 | 2.5 | | 1 | 106.000 | **6340911** |
| **US 5 50 FT** | 500 | 2.5 | | 1 | 133.000 | **6340938** |
| **US 5 60 FT** | 600 | 2.5 | | 1 | 160.000 | **6340946** |
| **US 5 70 FT** | 700 | 2.5 | | 1 | 175.000 | **6340950** |
| **US 5 80 FT** | 800 | 2.5 | | 1 | 200.000 | **6340954** |
| **US 5 90 FT** | 900 | 2.5 | | 1 | 227.000 | **6340958** |
| **US 5 100 FT** | 1000 | 2.5 | | 1 | 265.000 | **6340962** |
| **US 5 110 FT** | 1100 | 2.5 | | 1 | 278.000 | **6340964** |
| **US 5 150 FT** | 1500 | 2.5 | | 1 | 395.000 | **6340966** |
| **US 5 200 FT** | 2000 | 2.5 | | 1 | 506.000 | **6340970** |
| **US 5 300 FT** | 3000 | 2.5 | | 1 | 795.000 | **6340989** |
| **US 5 600 FT** | 6000 | 2.5 | | 1 | 1,578.000 | **6340997** |

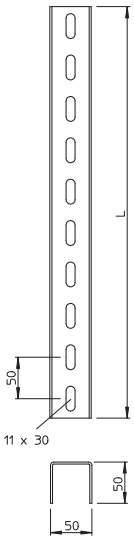
U support in fixed lengths. Dimensions 50 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

## US 5 support

A2 A4 2B






| Type | Length mm | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **US 5 20 A2** | 200 | 2.5 | | 1 | 48.000 | **6341101** |
| **US 5 30 A2** | 300 | 2.5 | | 1 | 72.000 | **6341105** |
| **US 5 40 A2** | 400 | 2.5 | | 1 | 97.000 | **6341109** |
| **US 5 50 A2** | 500 | 2.5 | | 1 | 121.000 | **6341113** |
| **US 5 60 A2** | 600 | 2.5 | | 1 | 145.000 | **6341117** |
| **US 5 70 A2** | 700 | 2.5 | | 1 | 169.000 | **6341121** |
| **US 5 80 A2** | 800 | 2.5 | | 1 | 193.000 | **6341125** |
| **US 5 90 A2** | 900 | 2.5 | | 1 | 217.000 | **6341129** |
| **US 5 100 A2** | 1000 | 2.5 | | 1 | 242.000 | **6341133** |
| **US 5 110 A2** | 1100 | 2.5 | | 1 | 266.000 | **6341137** |
| **US 5 120 A2** | 1200 | 2.5 | | 1 | 290.000 | **6341141** |
| **US 5 300 A2** | 3000 | 2.5 | | 1 | 737.000 | **6341152** |
| **US 5 30 A4** | 300 | 2.5 | | 1 | 73.000 | **6341053** |
| **US 5 40 A4** | 400 | 2.5 | | 1 | 97.000 | **6341055** |
| **US 5 50 A4** | 500 | 2.5 | | 1 | 121.000 | **6341057** |
| **US 5 60 A4** | 600 | 2.5 | | 1 | 145.000 | **6341059** |
| **US 5 80 A4** | 800 | 2.5 | | 1 | 193.000 | **6341063** |
| **US 5 90 A4** | 900 | 2.5 | | 1 | 217.000 | **6341065** |
| **US 5 300 A4** | 3000 | 2.5 | | 1 | 737.000 | **6341073** |

U support in fixed lengths. Dimensions 50 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

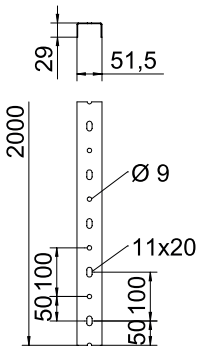
St FS

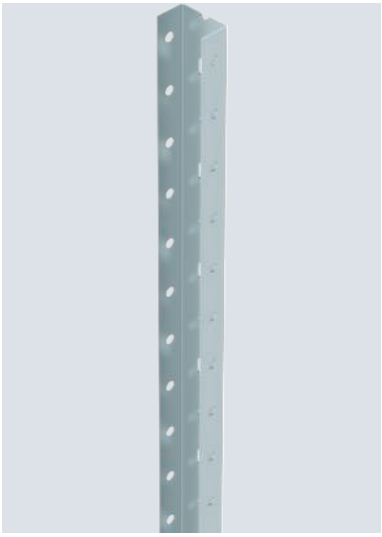
## U support USL 5

| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **USL 5 200 FS** | 2000 | 1.75 | 1 | 270.600 | **6344305** |

U support with perforations on three sides.

Screwless support bracket system. The connection between the head plate and the support and between the support and the brackets is implemented using splints. Rear perforation = 20 x 11 mm and slot and round hole d = 9 mm. Side perforation = Round hole 9 mm.



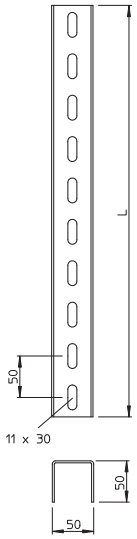
St FT SO

## US 5 support FT SOMY

| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **US 5 50 FT SO** | 500 | 2.5 | 1 | 126.000 | **7193560** |
| **US 5 100 FT SO** | 1000 | 2.5 | 1 | 265.000 | **7193580** |

U support in fixed lengths. Dimensions 50 x 50 mm.

The surface coating is a coating created in a single-dip method with extra-high zinc thicknesses. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.





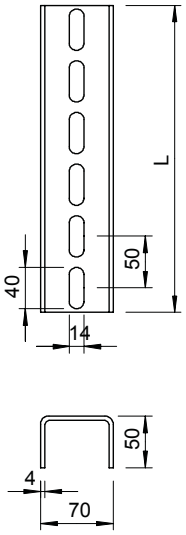



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## US 7 support

St FT





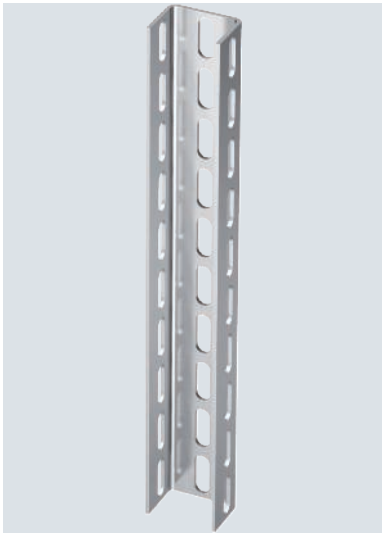

| Type | Length mm | Material thickness mm | BS | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **US 7 20 FT** | 200 | 4 | | 1 | 81.000 | **6340016** |
| **US 7 30 FT** | 300 | 4 | | 1 | 121.000 | **6340032** |
| **US 7 40 FT** | 400 | 4 | | 1 | 160.700 | **6340059** |
| **US 7 50 FT** | 500 | 4 | | 1 | 200.900 | **6340075** |
| **US 7 60 FT** | 600 | 4 | | 1 | 241.100 | **6340091** |
| **US 7 70 FT** | 700 | 4 | | 1 | 281.300 | **6340113** |
| **US 7 80 FT** | 800 | 4 | | 1 | 323.000 | **6340148** |
| **US 7 90 FT** | 900 | 4 | | 1 | 361.700 | **6340164** |
| **US 7 100 FT** | 1000 | 4 | | 1 | 416.000 | **6340180** |
| **US 7 110 FT** | 1100 | 4 | | 1 | 457.000 | **6340199** |
| **US 7 120 FT** | 1200 | 4 | | 1 | 484.000 | **6340202** |
| **US 7 130 FT** | 1300 | 4 | | 1 | 540.000 | **6340210** |
| **US 7 140 FT** | 1400 | 4 | | 1 | 580.000 | **6340229** |
| **US 7 150 FT** | 1500 | 4 | | 1 | 620.000 | **6340237** |
| **US 7 160 FT** | 1600 | 4 | | 1 | 660.000 | **6340245** |
| **US 7 170 FT** | 1700 | 4 | | 1 | 686.000 | **6340253** |
| **US 7 180 FT** | 1800 | 4 | | 1 | 750.000 | **6340261** |
| **US 7 190 FT** | 1900 | 4 | | 1 | 790.000 | **6340288** |
| **US 7 200 FT** | 2000 | 4 | | 1 | 803.700 | **6340296** |
| **US 7 250 FT** | 2500 | 4 | | 1 | 1,009.000 | **6340385** |
| **US 7 300 FT** | 3000 | 4 | | 1 | 1,250.000 | **6340377** |
| **US 7 400 FT** | 4000 | 4 | | 1 | 1,660.000 | **6340393** |
| **US 7 600 FT** | 6000 | 4 | | 1 | 2,490.000 | **6340318** |

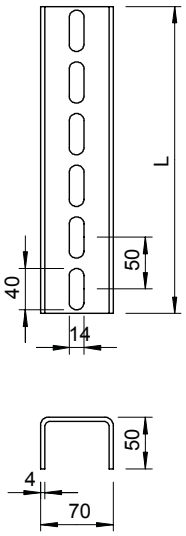
U support in fixed lengths. Dimensions 70 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

## US 7 support

A2 A4 2B






| Type | Length mm | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **US 7 50 A2** | 500 | 4 | | 1 | 196.100 | **6341764** |
| **US 7 100 A2** | 1000 | 4 | | 1 | 392.100 | **6341810** |
| **US 7 200 A2** | 2000 | 4 | | 1 | 784.200 | **6341950** |
| **US 7 300 A2** | 3000 | 4 | | 1 | 1,176.300 | **6341969** |
| **US 7 600 A2** | 6000 | 4 | | 1 | 2,433.000 | **6341993** |
| **US 7 600 A4** | 6000 | 4 | | 1 | 2,433.000 | **6341995** |
| **US 7 30 A4** | 300 | 4 | | 1 | 121.000 | **6341750** |
| **US 7 40 A4** | 400 | 4 | | 1 | 161.000 | **6341758** |
| **US 7 50 A4** | 500 | 4 | | 1 | 201.000 | **6341766** |
| **US 7 60 A4** | 600 | 4 | | 1 | 242.000 | **6341774** |
| **US 7 80 A4** | 800 | 4 | | 1 | 322.000 | **6341800** |
| **US 7 90 A4** | 900 | 4 | | 1 | 363.000 | **6341804** |
| **US 7 300 A4** | 3000 | 4 | | 1 | 1,176.300 | **6341970** |

U support in fixed lengths. Dimensions 70 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

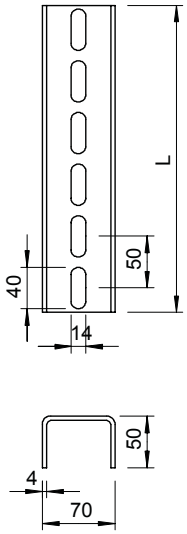
A2 2B

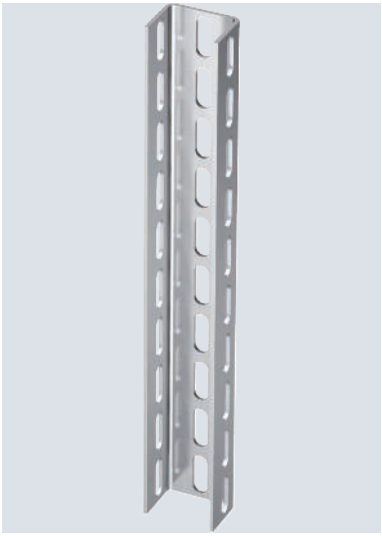
## US 7 support

| Type | Length mm | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **US 7 150 A2** | 1500 | 4 | | 1 | 588.200 | **6341861** |

U support in fixed lengths. Dimensions 70 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.



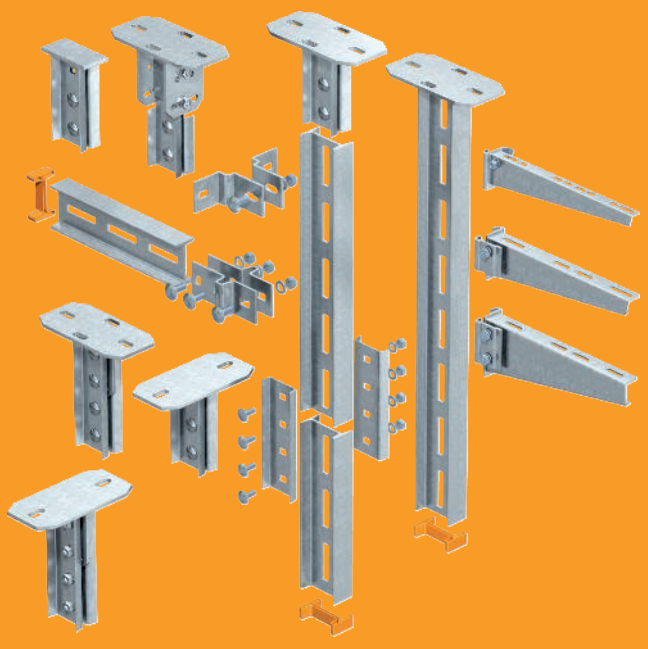


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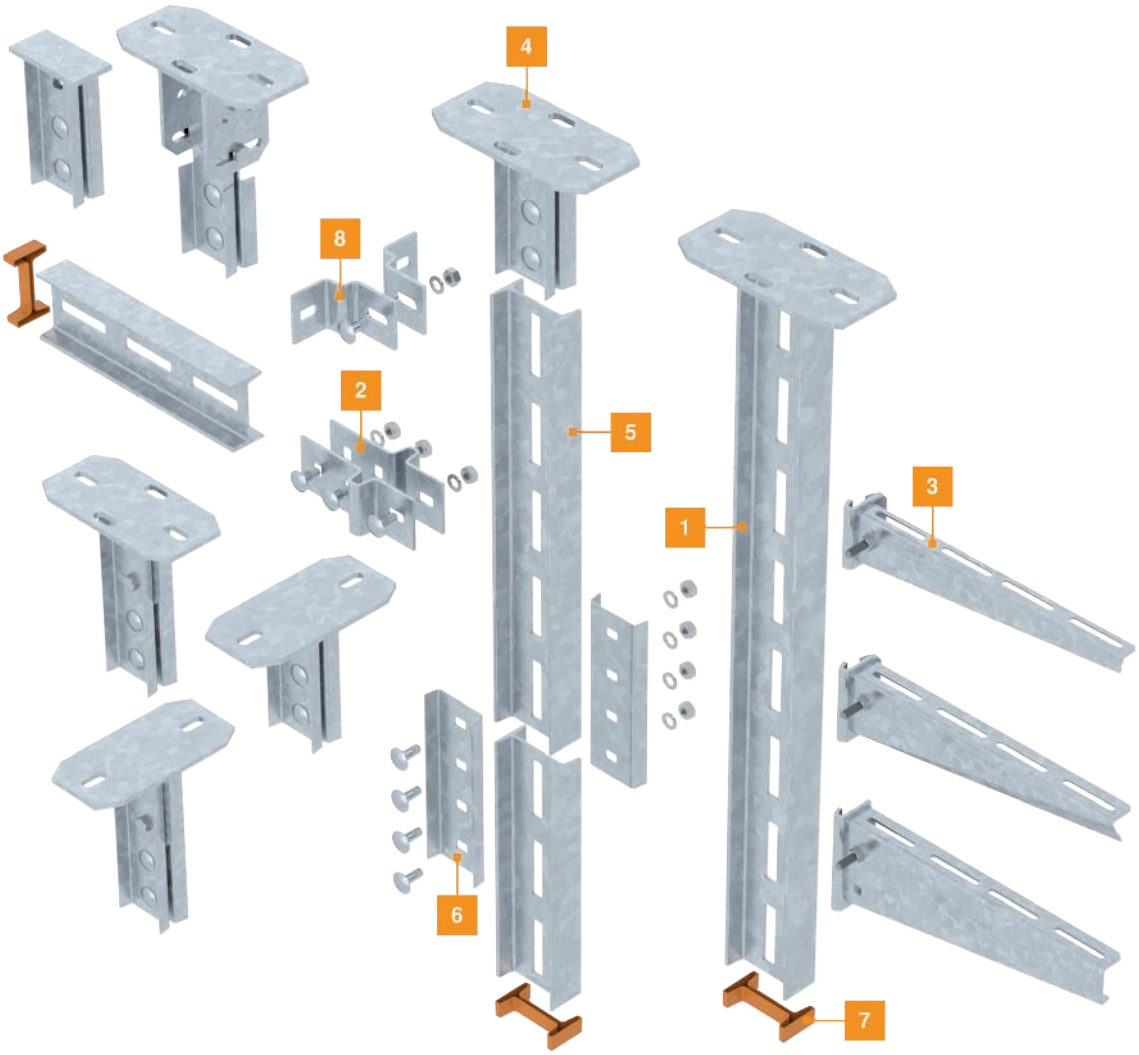


# I support family

The I support system from OBO Bettermann really comes into its own in situations where high loads must be carried, large distances must be bridged and difficult routes must be implemented. The I support system fulfils all the requirements of a heavy-duty cable mounting system. The high load capacities of all the system components permit the mounting of complex structures. The comprehensive range of head plates allows the implementation of all conceivable solutions. This heavy-duty system is used with large support spacings of wide span systems or for multi-layer set-ups of standard cable trays and cable ladder systems. The combination of I supports and support brackets of type AS 15, AS 30 and AS 55 form a perfectly matched product range, the height of which can be infinitely adjusted.



# Installation principle




| | |
|---|---|
| 1 | Luminaire support tray |
| 2 | Luminaire support channel |
| 3 | 90° bend |
| 4 | Cover with turn buckle |
| 5 | Edge protection ring |
| 6 | Suspension bracket |
| 7 | Suspension chain |
| 8 | Centre suspension |
| 9 | Threaded rod |
| 10 | Trapezoidal fastening |



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# Mounting aid

## I supports and brackets



**Application on the ceiling**
Standard mounting of suspended supports to concrete ceilings using bolt ties.



**Head plate mounting**
Fastening of the standard head plate, KI 8, for I suspended supports to concrete ceilings using bolt ties.



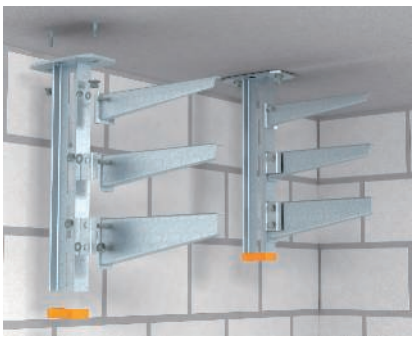
**Head plate, variable (rotated through 90°)**
Mounting of the variable head plate, type KI 8 VLK, rotated through 90°, to sloping concrete ceilings using bolt ties.



**Variable head plate**
Mounting of the variable head plate, type KI 8 VQP, to sloping concrete ceilings using bolt ties.



**I support connection**
Installation of the I support connector VIS 8 to connect IS 8 supports.



**Bracket mounting**
Installation of a three-layer cable support system on the concrete ceiling using support bracket mounting, AS 15, AS 30 and AS 55.



**Adapter head plate, asymmetrical**
Asymmetrical head plate KA-ASY to increase the load capacity for the combination with suspended supports, type US 7 K and IS 8 K.



**Adapter head plate, symmetrical**
Symmetrical adapter head plate KA-SY to increase the load capacity for the conjunction with supports, types US 7 K and IS 8 K.



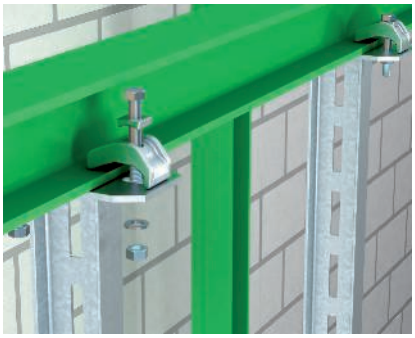
**Wall mounting, I support**
Mounting of an I support on the wall using fastening brackets, type BW 80/55, and bolt ties to accept multiple support brackets, type AS.



**Special structure**
Example of installing of a special structure, consisting of I supports (ceiling/wall mounting) with transverse profile and various support brackets, type AS.



**Application on steel girder**
Clamp fastening of suspended supports on steel girders using various chuck jaws, lengthwise or transverse to the steel girder.



**Direct girder clamping**
Direct girder clamping of an I suspended support with heavy-duty chuck jaw, type TKS-S-30. Route in longitudinal direction of steel girder.



**Steel clamping with C profile, route in longitudindal direction**
I support with welded head plate mounting, clamped to steel girder with C profile and TKH-L-25 chuck jaw. Tray route along steel girder.



**Steel clamping with C profile, route in transverse direction**
I support with welded head plate mounting, clamped to steel girder with C profile and TKH-L-25 chuck jaw. Tray route transverse to steel girder.



**Head plate, variable (transverse)**
Mounting of the variable, transversely adjustable head plate, type KI 8 VLP, on rising or falling steel structures with profile rail, type MS 5030, and clamping angles, type KWH.



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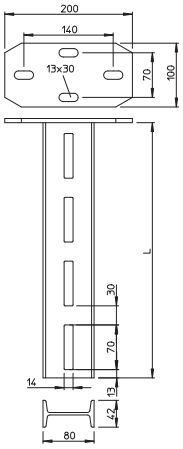
## IS 8 support

St FT



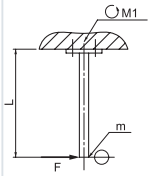
I support with welded head plate. For fastening to horizontal concrete ceilings and steel girders.

Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 K suspended support. The height of the brackets is infinitely adjustable.




| Type | Length mm | Material thickness mm | Tensile load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **IS 8 K 20 FT** | 200 | 4 | 12 | 1 | 205.900 | **6361021** |
| **IS 8 K 30 FT** | 300 | 4 | 12 | 1 | 263.900 | **6361056** |
| **IS 8 K 40 FT** | 400 | 4 | 12 | 1 | 321.900 | **6361072** |
| **IS 8 K 50 FT** | 500 | 4 | 12 | 1 | 379.900 | **6361099** |
| **IS 8 K 60 FT** | 600 | 4 | 12 | 1 | 437.900 | **6361110** |
| **IS 8 K 70 FT** | 700 | 4 | 12 | 1 | 495.900 | **6361137** |
| **IS 8 K 80 FT** | 800 | 4 | 12 | 1 | 553.900 | **6361153** |
| **IS 8 K 90 FT** | 900 | 4 | 12 | 1 | 611.900 | **6361188** |
| **IS 8 K 100 FT** | 1000 | 4 | 12 | 1 | 669.800 | **6361218** |
| **IS 8 K 110 FT** | 1100 | 4 | 12 | 1 | 727.800 | **6361234** |
| **IS 8 K 120 FT** | 1200 | 4 | 12 | 1 | 785.800 | **6361250** |
| **IS 8 K 130 FT** | 1300 | 4 | 12 | 1 | 843.800 | **6361277** |
| **IS 8 K 140 FT** | 1400 | 4 | 12 | 1 | 901.800 | **6361293** |
| **IS 8 K 150 FT** | 1500 | 4 | 12 | 1 | 959.800 | **6361315** |
| **IS 8 K 160 FT** | 1600 | 4 | 12 | 1 | 1,017.800 | **6361331** |
| **IS 8 K 170 FT** | 1700 | 4 | 12 | 1 | 1,075.800 | **6361366** |
| **IS 8 K 180 FT** | 1800 | 4 | 12 | 1 | 1,133.800 | **6361382** |
| **IS 8 K 200 FT** | 2000 | 4 | 12 | 1 | 1,249.700 | **6361420** |

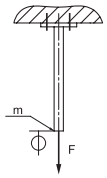
### Load




**Testing of the bending torque on the ceiling plate**

| Item on test | IS 8 K 80 |
|---|---|
| Deformation measuring point m | |
| Length L | 800 mm |
| Force F | 3.000 kN |
| Bending torque M1 (SWL) | 2,400 Nm |

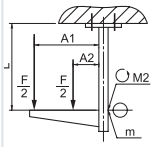
According to IEC 61537, Chapter 10.8.2.1




**Testing of the tensile strength**

| Item on test | IS 8 K 80 |
|---|---|
| Deformation measuring point m | |
| Force F (SWL) | 50 kN |

According to IEC 61537, Chapter 10.8.2.2




**Testing of the bending torque on the support with bracket**

| Item on test | IS 8 K 80 | IS 8 K 140 | IS 8 K 180 |
|---|---|---|---|
| | AS 55 101 | AS 55 101 | AS 55 101 |
| Deformation measuring point m | | | |
| A1 lever arm | 1,010 mm | 1,010 mm | 1,010 mm |
| A2 lever arm | 10 mm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm | 1,500 mm |
| Force F | 2.847 kN | 3.025 kN | 3.025 kN |
| Bending torque M2 (SWL) | 1,600 Nm | 1,700 Nm | 1,700 Nm |

According to IEC 61537, Chapter 10.8.2.3

St FT

## IS 8 support

| Type | Length mm | Material thickness mm | Tensile load kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **IS 8 K 300 FT** | 3000 | 4 | 12 | | 1 | 1,833.000 | **6361692** |



Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 K suspended support. The height of the brackets is infinitely adjustable.

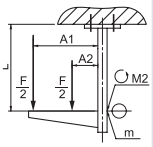
I support with welded head plate. For fastening to horizontal concrete ceilings and steel girders.

### Load

**Testing of the bending torque on the support with bracket**

| Item on test | IS 8 K 80 | IS 8 K 140 | IS 8 K 180 |
|---|---|---|---|
| | AS 55 101 | AS 55 101 | AS 55 101 |
| Deformation measuring point m | | | |
| A1 lever arm | 1,010 mm | 1,010 mm | 1,010 mm |
| A2 lever arm | 10 mm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm | 1,500 mm |
| Force F | 2.847 kN | 3.025 kN | 3.025 kN |
| Bending torque M2 (SWL) | 1,600 Nm | 1,700 Nm | 1,700 Nm |

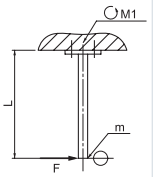
According to IEC 61537, Chapter 10.8.2.3




**Testing of the bending torque on the ceiling plate**

| Item on test | IS 8 K 80 |
|---|---|
| Deformation measuring point m | |
| Length L | 800 mm |
| Force F | 3.000 kN |
| Bending torque M1 (SWL) | 2,400 Nm |

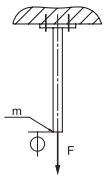
According to IEC 61537, Chapter 10.8.2.1




**Testing of the tensile strength**

| Item on test | IS 8 K 80 |
|---|---|
| Deformation measuring point m | |
| Force F (SWL) | 50 kN |

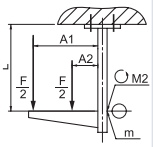
According to IEC 61537, Chapter 10.8.2.2



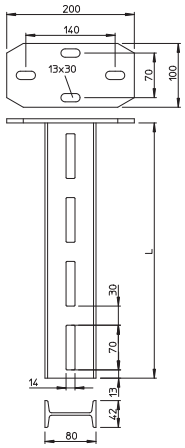

**Testing of the bending torque on the support with bracket**

| Item on test | IS 8 K 80 | IS 8 K 140 | IS 8 K 180 |
|---|---|---|---|
| | AS 55 101 | AS 55 101 | AS 55 101 |
| Deformation measuring point m | | | |
| A1 lever arm | 1,010 mm | 1,010 mm | 1,010 mm |
| A2 lever arm | 10 mm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm | 1,500 mm |
| Force F | 2.847 kN | 3.025 kN | 3.025 kN |
| Bending torque M2 (SWL) | 1,600 Nm | 1,700 Nm | 1,700 Nm |

According to IEC 61537, Chapter 10.8.2.3




### Dimensions

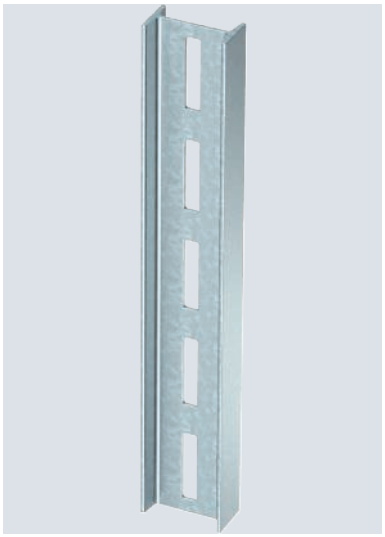


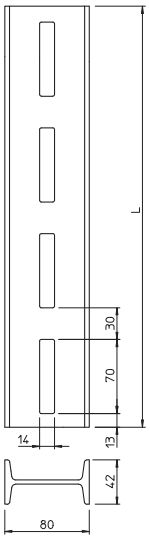



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## IS 8 support

St FT





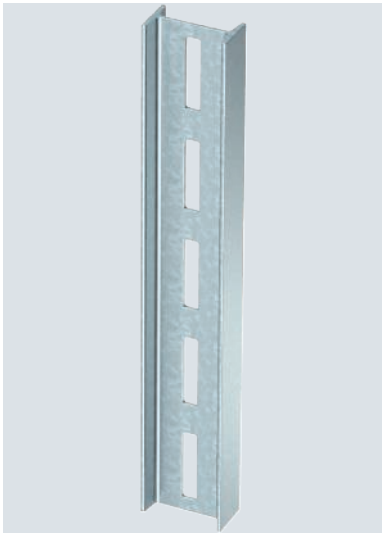

| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **IS 8 30 FT** | 300 | 4 | 1 | 171.000 | **6337031** |
| **IS 8 40 FT** | 400 | 4 | 1 | 229.000 | **6337058** |
| **IS 8 50 FT** | 500 | 4 | 1 | 286.000 | **6337066** |
| **IS 8 60 FT** | 600 | 4 | 1 | 344.000 | **6337074** |
| **IS 8 70 FT** | 700 | 4 | 1 | 402.000 | **6337082** |
| **IS 8 80 FT** | 800 | 4 | 1 | 459.000 | **6337090** |
| **IS 8 90 FT** | 900 | 4 | 1 | 517.000 | **6337104** |
| **IS 8 100 FT** | 1000 | 4 | 1 | 575.000 | **6337112** |
| **IS 8 110 FT** | 1100 | 4 | 1 | 632.000 | **6337120** |
| **IS 8 120 FT** | 1200 | 4 | 1 | 690.000 | **6337139** |
| **IS 8 130 FT** | 1300 | 4 | 1 | 748.000 | **6337147** |
| **IS 8 140 FT** | 1400 | 4 | 1 | 806.000 | **6337155** |
| **IS 8 150 FT** | 1500 | 4 | 1 | 863.000 | **6337163** |
| **IS 8 160 FT** | 1600 | 4 | 1 | 921.000 | **6337171** |
| **IS 8 170 FT** | 1700 | 4 | 1 | 979.000 | **6337198** |
| **IS 8 180 FT** | 1800 | 4 | 1 | 1,036.000 | **6337201** |
| **IS 8 190 FT** | 1900 | 4 | 1 | 1,094.000 | **6337228** |
| **IS 8 200 FT** | 2000 | 4 | 1 | 1,152.000 | **6337236** |
| **IS 8 300 FT** | 3000 | 4 | 1 | 1,730.000 | **6337244** |
| **IS 8 600 FT** | 6000 | 4 | 1 | 3,460.000 | **6337252** |

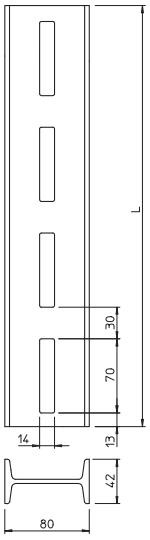
I support in fixed lengths. Dimensions 80 x 42 mm.

Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 I support. The height of the brackets is infinitely adjustable.

## IS 8 support

St FT






| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **IS 8 250 FT** | 2500 | 4 | 1 | 1,440.000 | **6337240** |

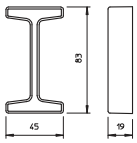
Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 I support. The height of the brackets is infinitely adjustable.

I support in fixed lengths. Dimensions 80 x 42 mm.

## End cap

PE






| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **IS 8 KS OR** | Pastel orange | 20 | 0.705 | **6338519** |

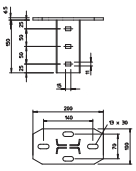
End cap to cover the ends of IS 8 supports.

St FT

## Head plate, longitudinal

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KI 8 FT | 1 | 155.000 | 6347053 |

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.
Head plate for mounting on IS 8 support. The cable trays and ladders run in a straight direction.



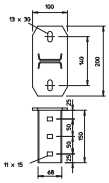


St FT

## Head plate, transverse

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KI 8 NOK FT | 1 | 158.400 | 6347061 |

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.
Head plate for installation in IS 8 support. The cable trays and ladders run in a transverse direction.



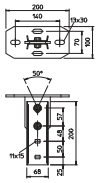


St FT

## Head plate, variable

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KI 8 VQP FT | 1 | 219.000 | 6348106 |

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.
Variable head plate, adjustable in straight direction, for installation on IS 8 support.



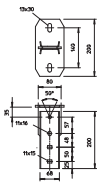


St FT

## Head plate, variable

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KI 8 VLK FT | 1 | 227.000 | 6348157 |

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.
Variable head plate, adjustable in straight direction, for installation on IS 8 support.



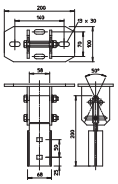


St FT

## Head plate, variable

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KI 8 VLP FT | 1 | 275.000 | 6347843 |

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.
Variable head plate, adjustable in transverse direction, for installation on IS 8 support.





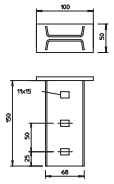


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## Head plate for welding

St FT





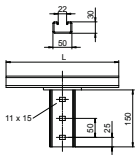
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| KI 8 AOX FT | 1 | 84.000 | 6347088 |

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.
Head plate for welded mounting on IS 8 support.

## Head plate with welded CPS 5 rail

St FT





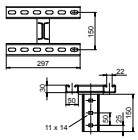
| Type | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| KI8 CPS5-1-300FT | 300 | 1 | 166.000 | 6347026 |
| KI8 CPS5-1-400FT | 400 | 1 | 195.000 | 6347030 |
| KI8 CPS5-1-500FT | 500 | 1 | 224.000 | 6347028 |

Including appropriate fastening material.
Head plate with a welded-on MS5030 profile rail for mounting to an IS 8 support.
The fastening to the T support is done using the appropriate chuck jaws. The rail route is in the longitudinal direction.

## Head plate with 2 welded-on CPS 5 rails

St FT



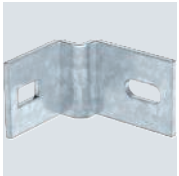


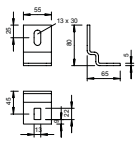
| Type | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| KI8 CPS5-2-300FT | 300 | 1 | 281.000 | 6347036 |
| KI8 CPS5-2-400FT | 400 | 1 | 345.300 | 6347032 |
| KI8 CPS5-2-500FT | 500 | 1 | 397.000 | 6347038 |

Including appropriate fastening material.
Head plate with two welded-on MS5030 profile rails for the mounting to the IS 8 support.
The fastening to the T support is done using the appropriate chuck jaws. The rail route is in the longitudinal direction.

## Mounting angle BW 80

St FT





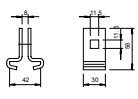
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| BW 80 55 FT | 10 | 32.900 | 6019528 |

The mounting angle can also be used in conjunction with the heavy-duty vertical ladder, type SLS 80.
Including fastening bolt M12x30.
Mounting angle for mounting IS 8 supports on the wall.

## Support claw

St FT





| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| TGK 30 42 FT | 10 | 17.000 | 6018963 |

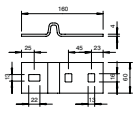
The support claw can also be used in conjunction with the heavy-duty ladder, type SLS 80.
Support claw with truss-head bolt, type FRS M10 x 25 for mounting on the IS 8 support.

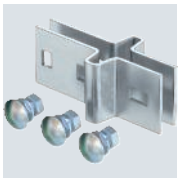
St FT

## Support strap

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| AHIS 8 FT | | 10 | 89.900 | 6019064 |

Including appropriate fastening material.
Support strap for right-angled connection of I supports.



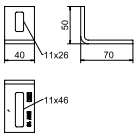


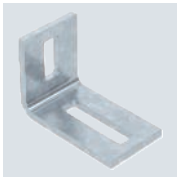
St FT

## BW 10 fastening bracket

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| BW 10 FT | | 10 | 14.500 | 6019480 |

Fastening bracket for fastening supports, vertical ladders and constructions on walls, ceilings or steel scaffolding.



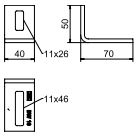



A2 2B

## BW 10 fastening bracket

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| BW 10 A2 | | 10 | 20.100 | 6019484 |

Fastening bracket for fastening supports, vertical ladders and constructions on walls, ceilings or steel scaffolding.



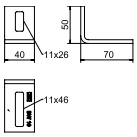



A4 2B

## BW 10 fastening bracket

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| BW 10 A4 | | 10 | 20.100 | 6019486 |

Fastening bracket for fastening supports, vertical ladders and constructions on walls, ceilings or steel scaffolding.



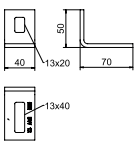


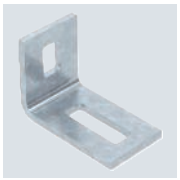

St FT

## BW 12 fastening bracket

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| BW 12 FT | | 10 | 23.000 | 6019500 |

Fastening bracket for fastening supports, vertical ladders and constructions on walls, ceilings or steel scaffolding.



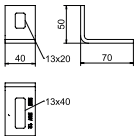


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## BW 12 fastening bracket

A4 2B






| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **BW 12 A4** | | 10 | 23.000 | **6019506** |

Fastening bracket for fastening supports, vertical ladders and constructions on walls, ceilings or steel scaffolding.

# System description

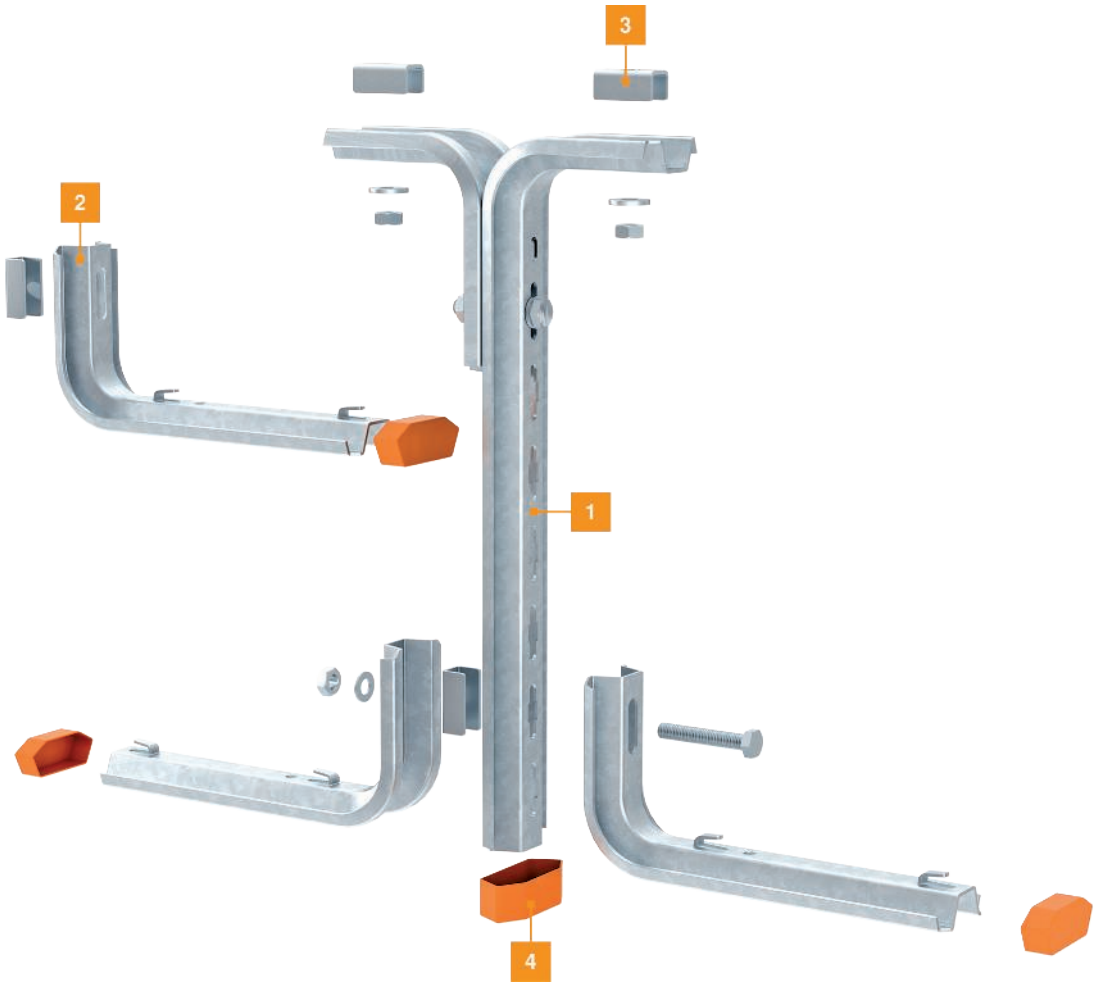
## TP supports and brackets



The TP system is a range of light supports and brackets. This product range, which consists of TP suspended supports and brackets, can be used universally as ceiling and wall mounting.

# Installation principle

## TP supports and brackets



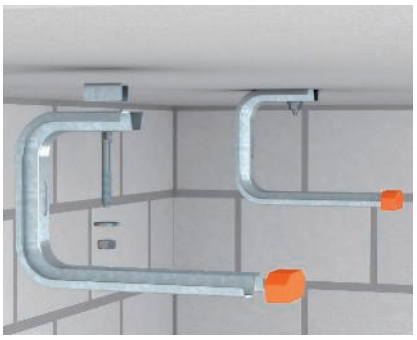

| | |
|---|---|
| 1 | TP suspended support |
| 2 | TP support/wall and support brackets |
| 3 | Spacer |
| 4 | End cap |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Mounting aid

## TP supports and brackets



**Ceiling mounting of TP wall and ceiling bracket**
Universal mounting of the TPD wall and ceiling bracket on the ceiling (with DS 4 spacer). Maximum tray width 300 mm.



**Installation of TP support with single-sided bracket fixing**
Ceiling mounting of a TP support with spacer DS 4 and one-sided bracket mounting. Maximum tray width 300 mm.



**Complete mounting of a TP system**
Installation of the TP support with head reinforcement and double-sided bracket mounting and mounting directly on the wall.

St FS

## TP support

| Type | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **TPS 445 FS** | 445 | 1 | 73.000 | **6364322** |
| **TPS 545 FS** | 545 | 1 | 80.000 | **6364349** |
| **TPS 645 FS** | 645 | 1 | 99.000 | **6364365** |

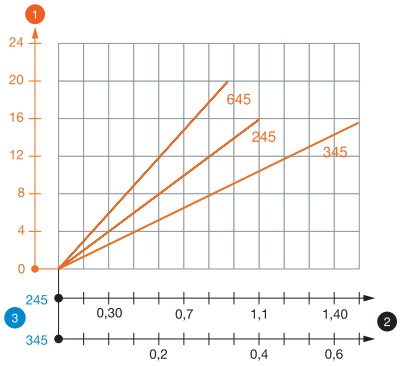


If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.
Important: only use brackets of length 345 mm or less.

TP support for fastening to horizontal concrete ceilings.

### Load

#### Load diagram, TP supports, type TPS




1. Bending of the end of the suspended support at permitted bracket load
2. Permitted bracket load in kN without man load
3. Bracket length in mm

— Load curves with support lengths in mm

#### Characteristic anchor load values for TP support



**Single-sided load**

| Anchor type | Max. load [kN] Bracket width [mm] 145 | 245 | 345 |
|---|---|---|---|
| BZ3 8x75/0-20 | 1,48 | 0,93 | 0,68 |
| BZ3 10x90/0-30 | 1,48 | 0,93 | 0,68 |



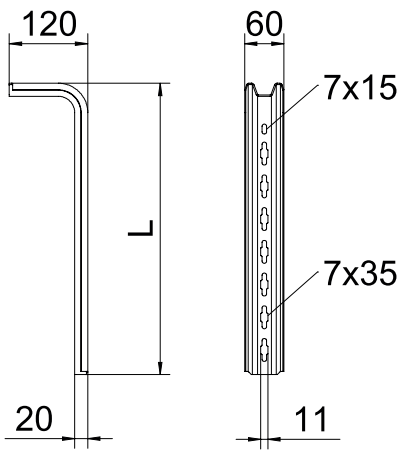
**Double-sided load**

| Anchor type | Max. load [kN] Bracket width [mm] 145 | 245 | 345 |
|---|---|---|---|
| BZ3 8x75/0-20 | 2,38 | 1,84 | 1,55 |
| BZ3 10x90/0-30 | 2,38 | 1,50 | 1,50 |

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing ai = 17 cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

| Type | Dim. L mm |
|---|---|
| TPS 445 FS | 445 |
| TPS 545 FS | 545 |
| TPS 645 FS | 645 |

**Dimensions**






Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## TP support

St FT



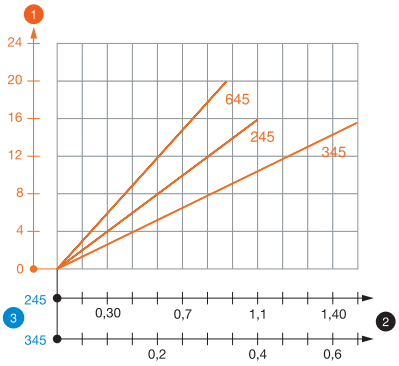
| Type | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **TPS 445 FT** | 445 | 1 | 75.000 | **6364403** |
| **TPS 545 FT** | 545 | 1 | 89.000 | **6364500** |
| **TPS 645 FT** | 645 | 1 | 103.000 | **6364608** |

If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.
Important: only use brackets of length 345 mm or less.

TP support for fastening to horizontal concrete ceilings.

### Load

#### Load diagram, TP support, type TPS




1 Bending of the end of the suspended support at permitted bracket load
2 Permitted bracket load in kN without man load
3 Bracket length in mm
— Load curves with support lengths in mm

#### Characteristic anchor load values for TP support

**Single-sided load**

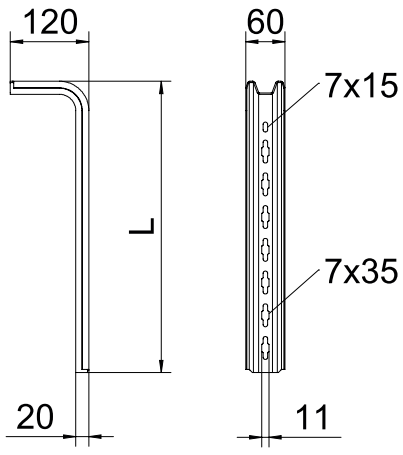
| Anchor type | Max. load [kN] Bracket width [mm] 145 | 245 | 345 |
|---|---|---|---|
| BZ3 8x75/0-20 | 1,48 | 0,93 | 0,68 |
| BZ3 10x90/0-30 | 1,48 | 0,93 | 0,68 |

**Double-sided load**

| Anchor type | Max. load [kN] Bracket width [mm] 145 | 245 | 345 |
|---|---|---|---|
| BZ3 8x75/0-20 | 2,38 | 1,84 | 1,55 |
| BZ3 10x90/0-30 | 2,38 | 1,50 | 1,50 |

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing ai = 17 cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

### Dimensions




| Type | Dim. L mm |
|---|---|
| TPS 445 FT | 445 |
| TPS 545 FT | 545 |
| TPS 645 FT | 645 |

A2 2B

## TP support

| Type | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **TPS 445 A2** | 445 | 1 | 72.000 | **6364848** |
| **TPS 545 A2** | 545 | 1 | 85.000 | **6364850** |
| **TPS 645 A2** | 645 | 1 | 99.000 | **6364852** |

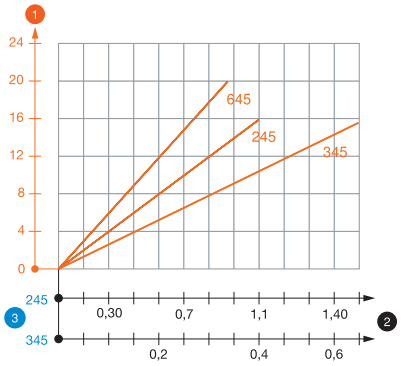


If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.
Important: only use brackets of length 345 mm or less.

TP support for fastening to horizontal concrete ceilings.

### Load

#### Load diagram, TP supports, type TPS




1 Bending of the end of the suspended support at permitted bracket load
2 Permitted bracket load in kN without man load
3 Bracket length in mm
— Load curves with support lengths in mm

#### Characteristic anchor load values for TP support

**Single-sided load**



| Anchor type | Max. load [kN] Bracket width [mm] 145 | 245 | 345 |
|---|---|---|---|
| BZ3 8x75/0-20 | 1,48 | 0,93 | 0,68 |
| BZ3 10x90/0-30 | 1,48 | 0,93 | 0,68 |

**Double-sided load**

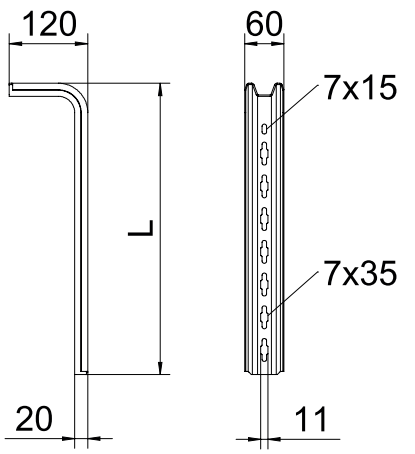


| Anchor type | Max. load [kN] Bracket width [mm] 145 | 245 | 345 |
|---|---|---|---|
| BZ3 8x75/0-20 | 2,38 | 1,84 | 1,55 |
| BZ3 10x90/0-30 | 2,38 | 1,50 | 1,50 |

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing ai = 17 cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

| Type | Dim. L mm |
|---|---|
| TPS 445 A2 | 445 |
| TPS 545 A2 | 545 |
| TPS 645 A2 | 645 |

#### Dimensions



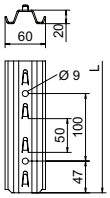



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## TP profile



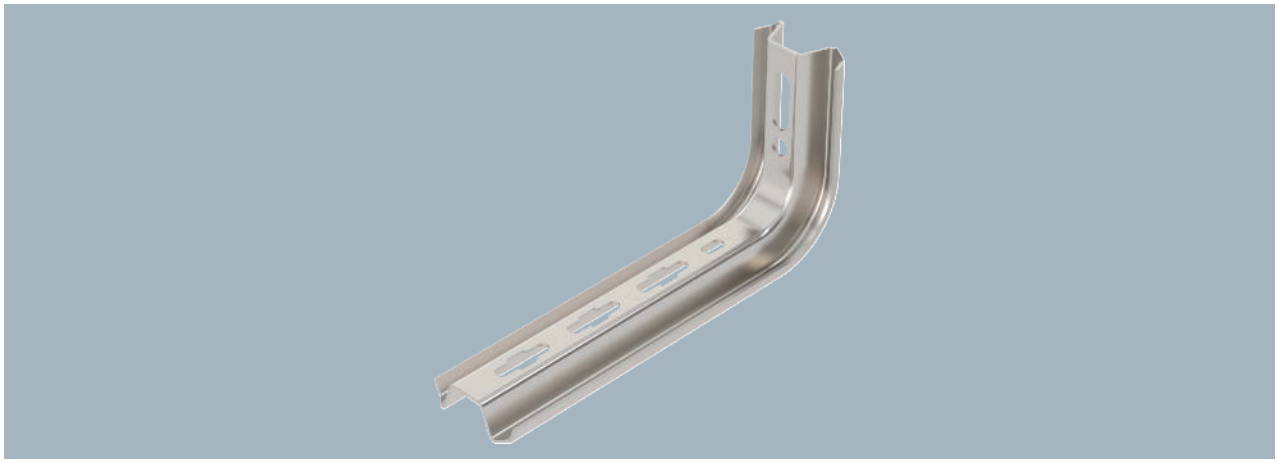



| Type | Length mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **TPSG 150L FS** | 150 | | 1 | 19.800 | **6366533** |
| **TPSG 200L FS** | 200 | | 1 | 26.700 | **6366536** |
| **TPSG 250L FS** | 250 | | 1 | 33.700 | **6366539** |
| **TPSG 400L FS** | 400 | | 1 | 54.600 | **6366545** |
| **TPSG 500L FS** | 500 | | 1 | 68.500 | **6366548** |
| **TPSG 600L FS** | 600 | | 1 | 82.400 | **6366551** |
| **TPSG 700L FS** | 700 | | 1 | 96.300 | **6366554** |

TP profile with clamping lugs.

A2 2B

# TP support/wall and support bracket

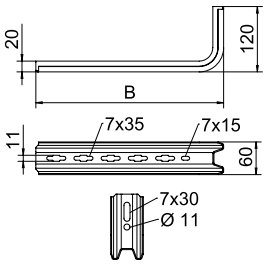


If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

TP support / bracket for the fastening to horizontal concrete ceilings and walls.

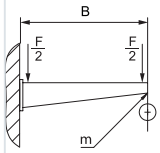
| Type | for width mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **TPSA 145 A2** | 100 | | 1 | 32.000 | **6364871** |
| **TPSA 245 A2** | 200 | | 1 | 45.000 | **6364876** |
| **TPSA 345 A2** | 300 | | 1 | 59.000 | **6364881** |

## Dimensions




| Type | Dim. B mm |
|---|---|
| TPSA 145 A2 | 145 |
| TPSA 245 A2 | 245 |
| TPSA 345 A2 | 345 |

## Load




**Characteristic anchor load values for TP bracket - Wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| TPSA 145 A2 | 0.15 kN | 145 mm |
| TPSA 245 A2 | 0.950 kN | 245 mm |
| TPSA 345 A2 | 0.55 kN | 345 mm |

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

**Characteristic anchor load values for TP brackets**

| Wall fastening | | | | |
|---|---|---|---|---|
| | Max. load F [kN] Bracket width [mm] | | | |
| Anchor type | 145 | 195 | 245 | 345 |
| BZ-U 8-30-41/95 | 1 | 1.3 | 0.7 | 2.4 |
| BZ-U 10-30-50/110 | 1.5 | 1 | 0.9 | 0.55 |



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## TPSA TP support/wall and support bracket

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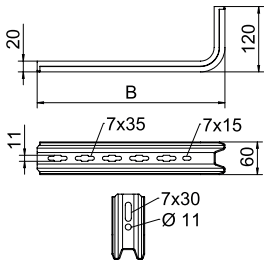
| Type | for width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **TPSA 145 FS** | 100 | 1 | 32.300 | **6364101** |
| **TPSA 245 FS** | 200 | 1 | 46.000 | **6364209** |
| **TPSA 345 FS** | 300 | 1 | 60.000 | **6364306** |

If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

TP support/bracket for fastening to horizontal concrete ceilings and walls.

| Type | Dim. B mm |
|---|---|
| TPSA 145 FS | 145 |
| TPSA 245 FS | 245 |
| TPSA 345 FS | 345 |

### Dimensions

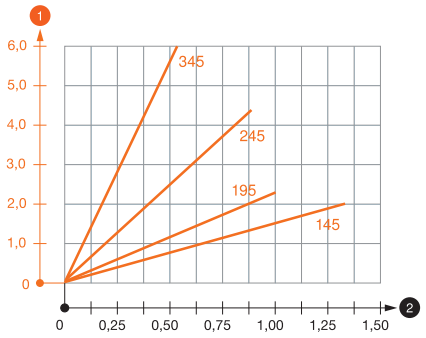



### Load diagram, bracket TPSA

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

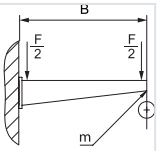
— Load curve with bracket lengths in mm

### Load




**Characteristic anchor load values for TP bracket - wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| TPSA 145 FS | 1.5 kN | 145 mm |
| TPSA 245 FS | 0.9 kN | 245 mm |
| TPSA 345 FS | 0.55 kN | 345 mm |
| TPSA 245 FS SP | 0.9 kN | 245 mm |




Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

**Characteristic anchor load values for TP brackets**

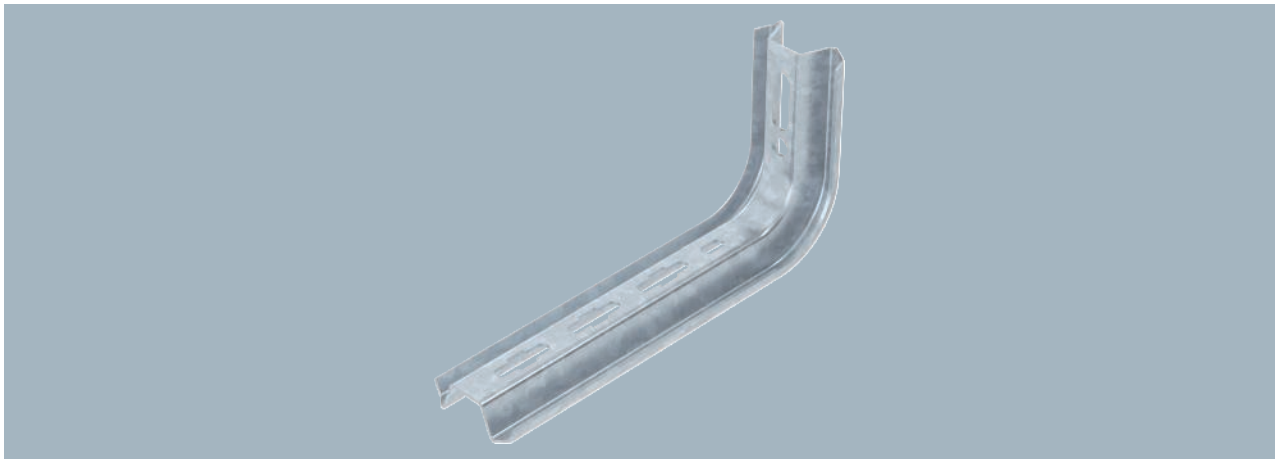
| Wall fastening | | | | |
|---|---|---|---|---|
| | Max. load F [kN] | | | |
| | Bracket width [mm] | | | |
| Anchor type | 145 | 195 | 245 | 345 |
| BZ-U 8-30-41/95 | 1 | 1.3 | 0.7 | 2.4 |
| BZ-U 10-30-50/110 | 1.5 | 1 | 0.9 | 0.55 |

**Characteristic anchor load values for TP bracket**

| Wall fastening | | | | |
|---|---|---|---|---|
| | Max. load [kN] | | | |
| | Bracket width [mm] | | | |
| Anchor type | 145 | 195 | 245 | 345 |
| BZ3 10x90/0-30 | 1,30 | 0,93 | 0,60 | 0,55 |

St FT

# TPSA TP support/wall and support bracket

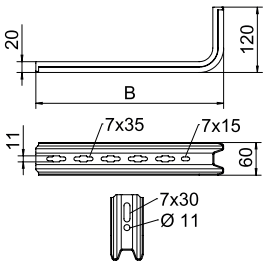


If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

TP support/bracket for fastening to horizontal concrete ceilings and walls.

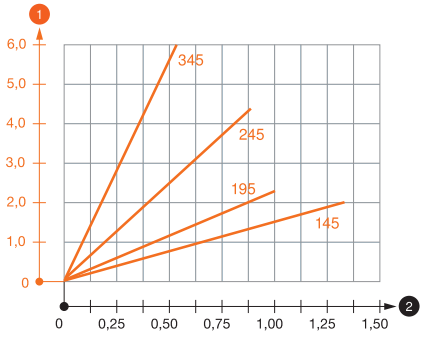
| Type | for width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **TPSA 145 FT** | 100 | 1 | 33.000 | **6364659** |
| **TPSA 195 FT** | 150 | 1 | 40.000 | **6364683** |
| **TPSA 245 FT** | 200 | 1 | 47.000 | **6364667** |
| **TPSA 345 FT** | 300 | 1 | 62.000 | **6364675** |

## Dimensions




| Type | Dim. B mm |
|---|---|
| TPSA 145 FT | 145 |
| TPSA 195 FT | 195 |
| TPSA 245 FT | 245 |
| TPSA 345 FT | 345 |

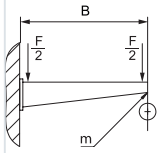
## Load




1 Bending of the bracket tip at permitted bracket load

2 Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm




**Characteristic anchor load values for TP bracket - wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| TPSA 145 FT | 0.15 kN | 145 mm |
| TPSA 195 FT | 1 kN | 195 mm |
| TPSA 245 FT | 0.950 kN | 245 mm |
| TPSA 345 FT | 0.55 kN | 345 mm |

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

**Characteristic anchor load values for TP brackets**

| Wall fastening | | | | |
|---|---|---|---|---|
| | Max. load F [kN] | | | |
| | Bracket width [mm] | | | |
| Anchor type | 145 | 195 | 245 | 345 |
| BZ-U 8-30-41/95 | 1 | 1.3 | 0.7 | 2.4 |
| BZ-U 10-30-50/110 | 1.5 | 1 | 0.9 | 0.55 |

**Characteristic anchor load values for TP bracket**

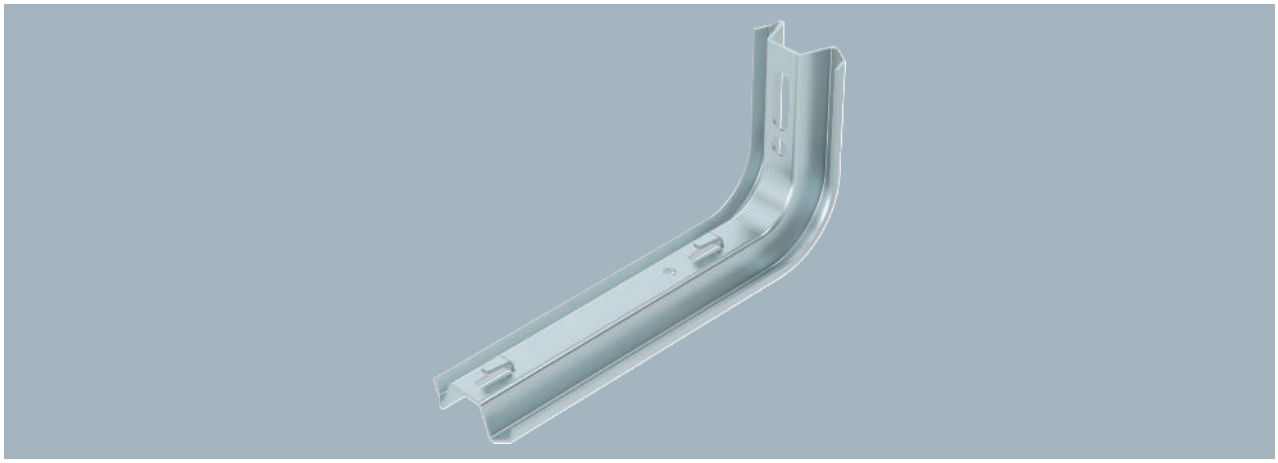
| | Wall fastening | | | |
|---|---|---|---|---|
| | Max. load [kN] | | | |
| | Bracket width [mm] | | | |
| Anchor type | 145 | 195 | 245 | 345 |
| BZ3 10x90/0-30 | 1,30 | 0,93 | 0,60 | 0,68 |



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## TPSAG TP support/wall and support bracket

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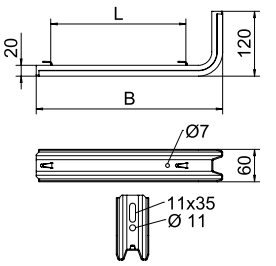
| Type | for width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **TPSAG 145 FS** | 100 | 1 | 30.540 | **6366015** |
| **TPSAG 195 FS** | 150 | 1 | 41.000 | **6366023** |
| **TPSAG 245 FS** | 200 | 1 | 48.000 | **6366031** |
| **TPSAG 345 FS** | 300 | 1 | 61.000 | **6366066** |

If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.

TP bracket with clamping lugs for screwless mesh cable tray fastening.

| Type | Dim. B mm | Dim. L mm |
|---|---|---|
| TPSAG 145 FS | 145 | 50 |
| TPSAG 195 FS | 195 | 100 |
| TPSAG 245 FS | 245 | 150 |
| TPSAG 345 FS | 345 | 250 |

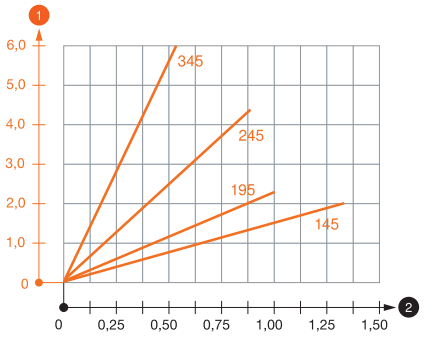
**Dimensions**




### Load diagram, bracket TPSAG

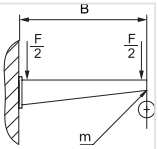
**Load**

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm




**Characteristic anchor load values for TP bracket - wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| TPSA 145 FT | 0.15 kN | 145 mm |
| TPSA 195 FT | 1 kN | 195 mm |
| TPSA 245 FT | 0.950 kN | 245 mm |
| TPSA 345 FT | 0.55 kN | 345 mm |




Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

**Characteristic anchor load values for TP brackets**

| Wall fastening | | | | |
|---|---|---|---|---|
| | Max. load F [kN] | | | |
| | Bracket width [mm] | | | |
| Anchor type | 145 | 195 | 245 | 345 |
| BZ-U 8-30-41/95 | 1 | 1.3 | 0.7 | 2.4 |
| BZ-U 10-30-50/110 | 1.5 | 1 | 0.9 | 0.55 |

**Characteristic anchor load values for TP bracket**

| | Wall fastening | | | |
|---|---|---|---|---|
| | Max. load [kN] | | | |
| | Bracket width [mm] | | | |
| Anchor type | 145 | 195 | 245 | 345 |
| BZ3 10x90/0-30 | 1,30 | 0,93 | 0,60 | 0,55 |

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# TPSAG TP support/wall and support bracket

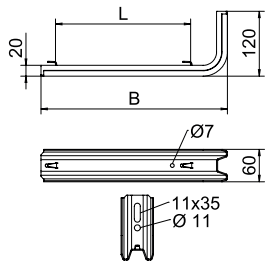


If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.

TP bracket with clamping lugs.

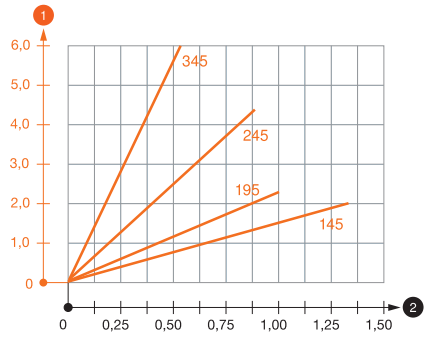
| Type | for width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **TPSAG 145 FT** | 100 | 1 | 33.000 | **6366131** |
| **TPSAG 195 FT** | 150 | 1 | 42.000 | **6366135** |
| **TPSAG 245 FT** | 200 | 1 | 49.000 | **6366139** |
| **TPSAG 345 FT** | 300 | 1 | 65.000 | **6366143** |

## Dimensions




| Type | Dim. B mm | Dim. L mm |
|---|---|---|
| TPSAG 145 FT | 145 | 50 |
| TPSAG 195 FT | 195 | 100 |
| TPSAG 245 FT | 245 | 150 |
| TPSAG 345 FT | 345 | 250 |

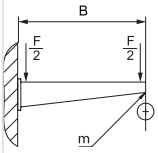
## Load




### Load diagram, bracket TPSAG

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm




**Characteristic anchor load values for TP bracket - wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| TPSAG 145 FT | 0.15 kN | 145 mm |
| TPSAG 195 FT | 1 kN | 195 mm |
| TPSAG 245 FT | 0.950 kN | 245 mm |
| TPSAG 345 FT | 0.55 kN | 345 mm |

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

**Characteristic anchor load values for TP brackets**

| Wall fastening | | | | |
|---|---|---|---|---|
| | Max. load F [kN] | | | |
| | Bracket width [mm] | | | |
| Anchor type | 145 | 195 | 245 | 345 |
| BZ-U 8-30-41/95 | 1 | 1.3 | 0.7 | 2.4 |
| BZ-U 10-30-50/110 | 1.5 | 1 | 0.9 | 0.55 |

**Characteristic anchor load values for TP bracket**

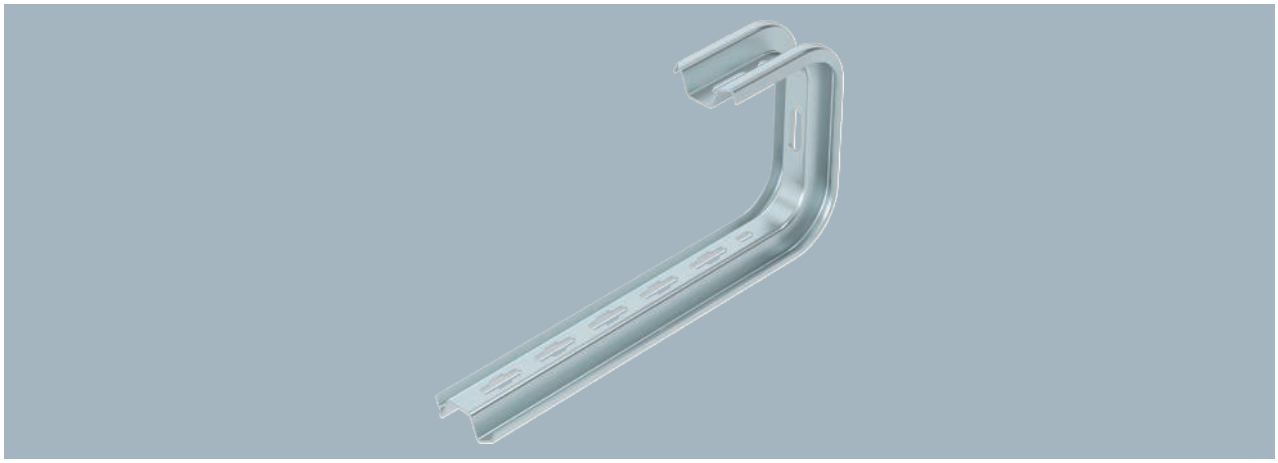
| Wall fastening | | | | |
|---|---|---|---|---|
| | Max. load [kN] | | | |
| | Bracket width [mm] | | | |
| Anchor type | 145 | 195 | 245 | 345 |
| BZ3 10x90/0-30 | 1,30 | 0,93 | 0,60 | 0,55 |



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## TP wall and ceiling bracket

St FS



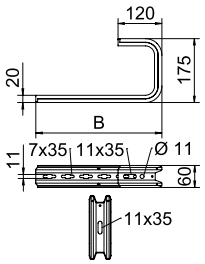
| Type | for width mm | F in kN ceiling kN | F in kN wall kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **TPD 145 FS** | 100 | 1.3 | 1.4 | | 1 | 48.000 | **6363806** |
| **TPD 245 FS** | 200 | 0.8 | 0.87 | | 1 | 66.000 | **6363814** |
| **TPD 345 FS** | 300 | 0.5 | 0.55 | | 1 | 78.000 | **6363822** |
| **TPD 445 FS** | 400 | 0.35 | 0.45 | | 1 | 93.300 | **6363826** |
| **TPD 545 FS** | 500 | 0.25 | 0.35 | | 1 | 107.000 | **6363829** |

Important! If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket for universal use.

| Type | Dim. B mm |
|---|---|
| TPD 145 FS | 145 |
| TPD 245 FS | 245 |
| TPD 345 FS | 345 |
| TPD 445 FS | 445 |
| TPD 545 FS | 545 |

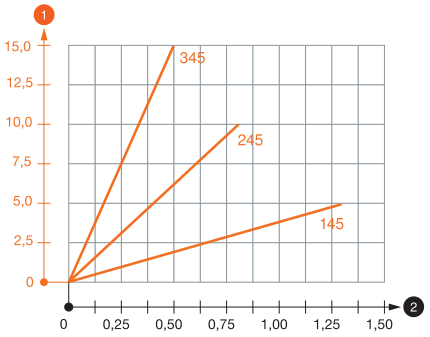
**Dimensions**




### Load diagram, ceiling bracket TPD

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm

**Load**




### Characteristic anchor load values for TPD wall and ceiling bracket

**Wall fastening**



| Anchor type | Max. load [kN] Bracket length [mm] 145 | 245 | 345 | 445 | 545 |
|---|---|---|---|---|---|
| BZ3 8x95/0-40 | 0,56 | 0,53 | 0,50 | 0,47 | 0,44 |
| BZ3 10x90/0-30 | 1,03 | 0,96 | 0,68 | | 0,54 |

**Ceiling fastening**



| Anchor type | Max. load [kN] Bracket width [mm] 145 | 245 | 345 | 445 | 545 |
|---|---|---|---|---|---|
| BZ-U 8-30-41/95 | 1,48 | 0,93 | 2,40 | 0,35 | 0,25 |
| BZ3 10x90/0-30 | 1,45 | 0,93 | 2,40 | 0,35 | 0,25 |

Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

St FT

# TP wall and ceiling bracket

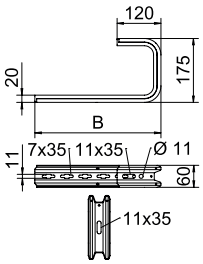


Important! If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket for universal structural fastening.

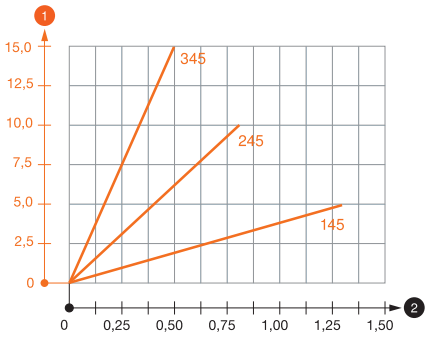
| Type | for width mm | F in kN ceiling kN | F in kN wall kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **TPD 145 FT** | 100 | 1.3 | 1.4 | 1 | 54.000 | **6363861** |
| **TPD 245 FT** | 200 | 0.8 | 0.87 | 1 | 69.000 | **6363865** |
| **TPD 345 FT** | 300 | 0.5 | 0.55 | 1 | 83.000 | **6363869** |

## Dimensions




| Type | Dim. B mm | Dim. H mm |
|---|---|---|
| TPD 145 FT | 145 | 175 |
| TPD 245 FT | 245 | 175 |
| TPD 345 FT | 345 | 175 |

## Load




### Load diagram, ceiling bracket TPD

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm

### Characteristic anchor load values for TPD wall and ceiling bracket

**Wall fastening**

| Anchor type | Max. load [kN] Bracket length [mm] 145 | 245 | 345 | 445 | 545 |
|---|---|---|---|---|---|
| BZ3 8x95/0-40 | 0,56 | 0,53 | 0,50 | 0,47 | 0,44 |
| BZ3 10x90/0-30 | 1,03 | 0,96 | 0,68 | 0,54 | |

**Ceiling fastening**

| Anchor type | Max. load [kN] Bracket width [mm] 145 | 245 | 345 | 445 | 545 |
|---|---|---|---|---|---|
| BZ-U 8-30-41/95 | 1,48 | 0,93 | 2,40 | 0,35 | 0,25 |
| BZ3 10x90/0-30 | 1,45 | 0,93 | 2,40 | 0,35 | 0,25 |

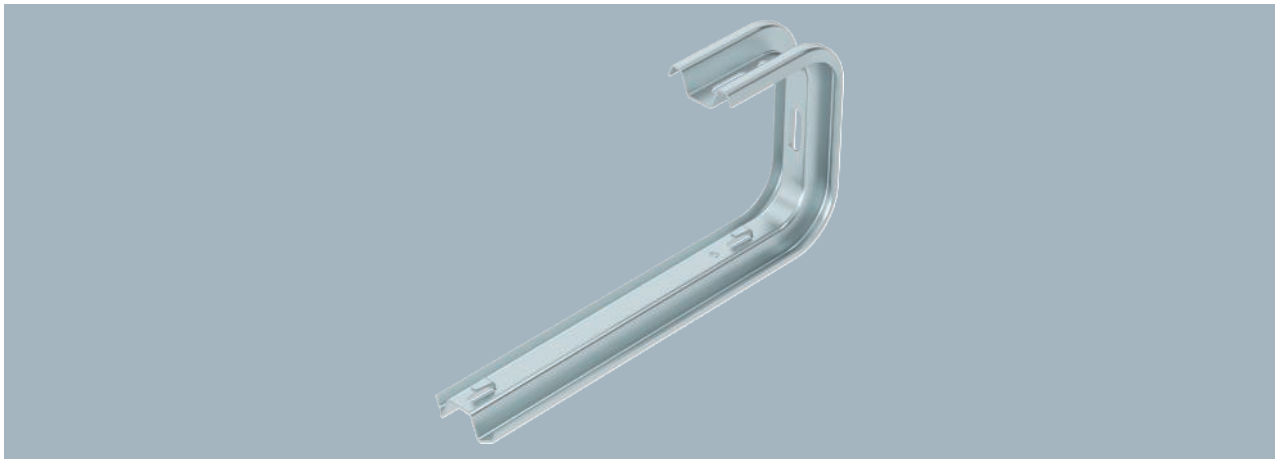
Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.



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## TP wall and ceiling bracket

St FS



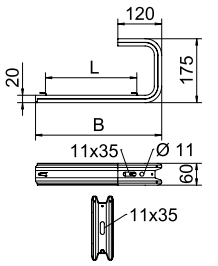
| Type | for width mm | F in kN ceiling kN | F in kN wall kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **TPDG 145 FS** | 100 | 1.3 | 1.4 | 6 | 52.000 | **6365906** |
| **TPDG 195 FS** | 150 | 0.95 | 1.05 | 6 | 60.000 | **6365914** |
| **TPDG 245 FS** | 200 | 0.8 | 0.87 | 5 | 67.000 | **6365922** |
| **TPDG 345 FS** | 300 | 0.5 | 0.55 | 5 | 81.000 | **6365949** |

If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

| Type | Dim. B mm | Dim. L mm |
|---|---|---|
| TPDG 145 FS | 145 | 50 |
| TPDG 195 FS | 195 | 100 |
| TPDG 245 FS | 245 | 150 |
| TPDG 345 FS | 345 | 250 |

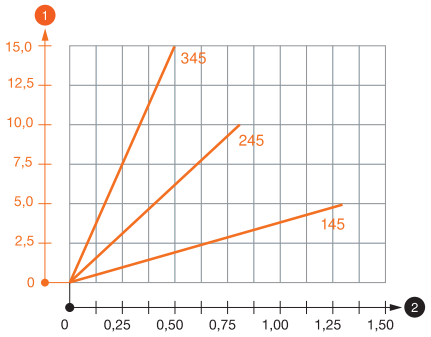
**Dimensions**




### Load diagram, ceiling bracket TPDG

**Load**

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm




### Characteristic anchor load values for TPDG wall and ceiling bracket

**Wall fastening**

| Anchor type | Max. load [kN] Bracket length [mm] 145 | 245 | 345 | 445 | 545 |
|---|---|---|---|---|---|
| BZ3 8x95/0-40 | 0,56 | 0,53 | 0,50 | 0,47 | 0,44 |
| BZ3 10x90/0-30 | 1,03 | 0,96 | 0,68 | 0,54 | |

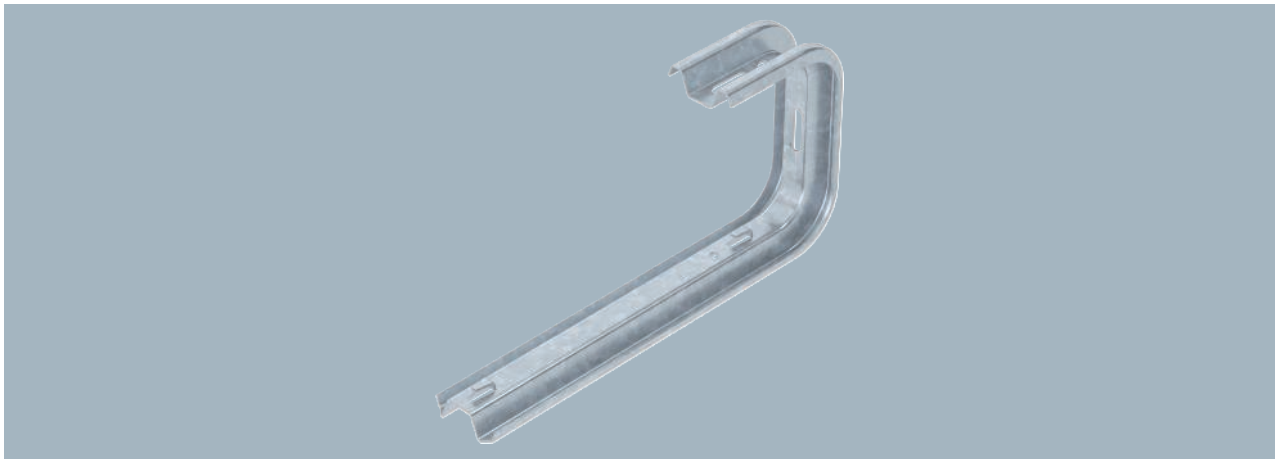
**Ceiling fastening**

| Anchor type | Max. load [kN] Bracket width [mm] 145 | 245 | 345 | 445 | 545 |
|---|---|---|---|---|---|
| BZ-U 8-30-41/95 | 1,48 | 0,93 | 0,50 | 0,35 | 0,25 |
| BZ3 10x90/0-30 | 1,45 | 0,93 | 0,50 | 0,35 | 0,25 |

Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

St FT

# TP wall and ceiling bracket

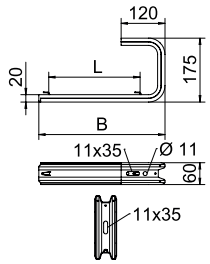


If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

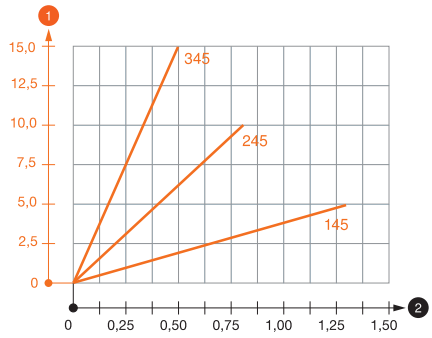
| Type | for width mm | F in kN ceiling kN | F in kN wall kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **TPDG 145 FT** | 100 | 1.3 | 1.4 | 6 | 55.000 | **6365977** |
| **TPDG 245 FT** | 200 | 0.8 | 0.87 | 5 | 70.000 | **6365981** |
| **TPDG 345 FT** | 300 | 0.5 | 0.55 | 5 | 85.000 | **6365985** |

## Dimensions




| Type | Dim. B mm | Dim. L mm |
|---|---|---|
| TPDG 145 FT | 145 | 50 |
| TPDG 245 FT | 245 | 150 |
| TPDG 345 FT | 345 | 250 |

## Load




### Load diagram, ceiling bracket TPDG

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm

### Characteristic anchor load values for TPDG wall and ceiling bracket

**Wall fastening**

| Anchor type | Max. load [kN] Bracket length [mm] 145 | 245 | 345 | 445 | 545 |
|---|---|---|---|---|---|
| BZ3 8x95/0-40 | 0,56 | 0,53 | 0,50 | 0,47 | 0,44 |
| BZ3 10x90/0-30 | 1,03 | 0,96 | 0,68 | 0,54 | |

**Ceiling fastening**

| Anchor type | Max. load [kN] Bracket width [mm] 145 | 245 | 345 | 445 | 545 |
|---|---|---|---|---|---|
| BZ-U 8-30-41/95 | 1,48 | 0,93 | 0,50 | 0,35 | 0,25 |
| BZ3 10x90/0-30 | 1,45 | 0,93 | 0,50 | 0,35 | 0,25 |

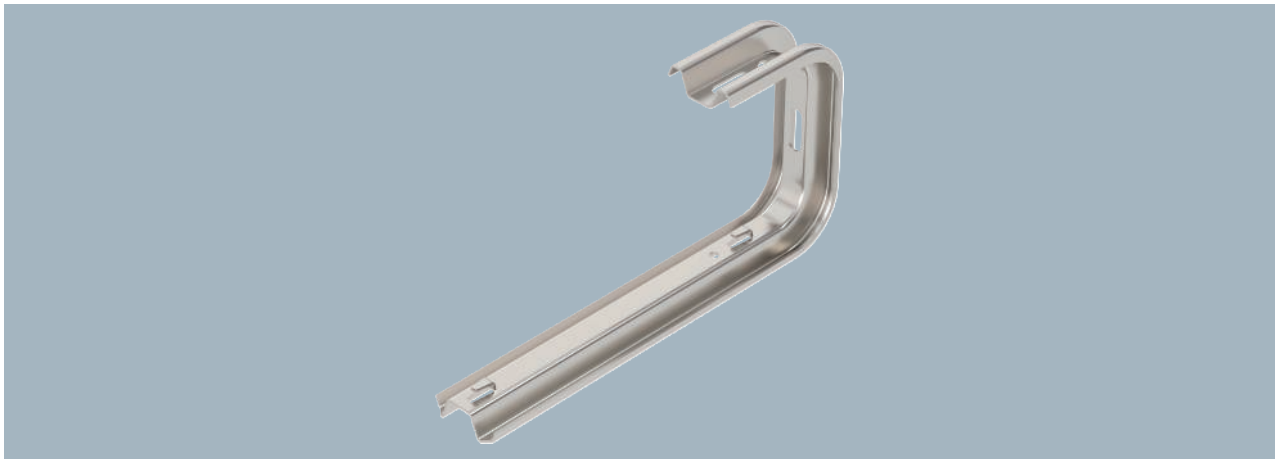
Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.



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## TP wall and ceiling bracket

A2 2B



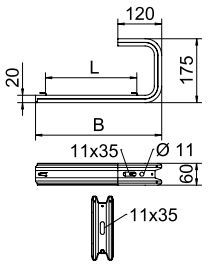
| Type | for width mm | F in kN ceiling kN | F in kN wall kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **TPDG 145 A2** | 100 | 1.3 | 1.4 | 6 | 52.000 | **6365989** |
| **TPDG 195 A2** | 150 | 0.95 | 1.05 | 6 | 60.000 | **6365991** |
| **TPDG 245 A2** | 200 | 0.8 | 0.87 | 5 | 67.000 | **6365993** |
| **TPDG 345 A2** | 300 | 0.5 | 0.55 | 5 | 81.000 | **6365995** |

If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

| Type | Dim. B mm | Dim. L mm |
|---|---|---|
| TPDG 145 A2 | 145 | 50 |
| TPDG 195 A2 | 195 | 100 |
| TPDG 245 A2 | 245 | 150 |
| TPDG 345 A2 | 345 | 250 |

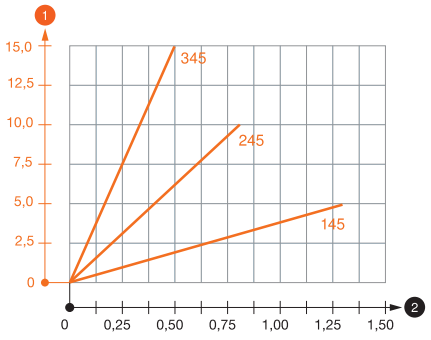
**Dimensions**




### Load diagram, ceiling bracket TPDG

**Load**

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm




### Characteristic anchor load values for TPDG wall and ceiling bracket

**Wall fastening**

| Anchor type | Max. load [kN] Bracket length [mm] 145 | 245 | 345 | 445 | 545 |
|---|---|---|---|---|---|
| BZ3 8x95/0-40 | 0,56 | 0,53 | 0,50 | 0,47 | 0,44 |
| BZ3 10x90/0-30 | 1,03 | 0,96 | 0,68 | 0,54 | |

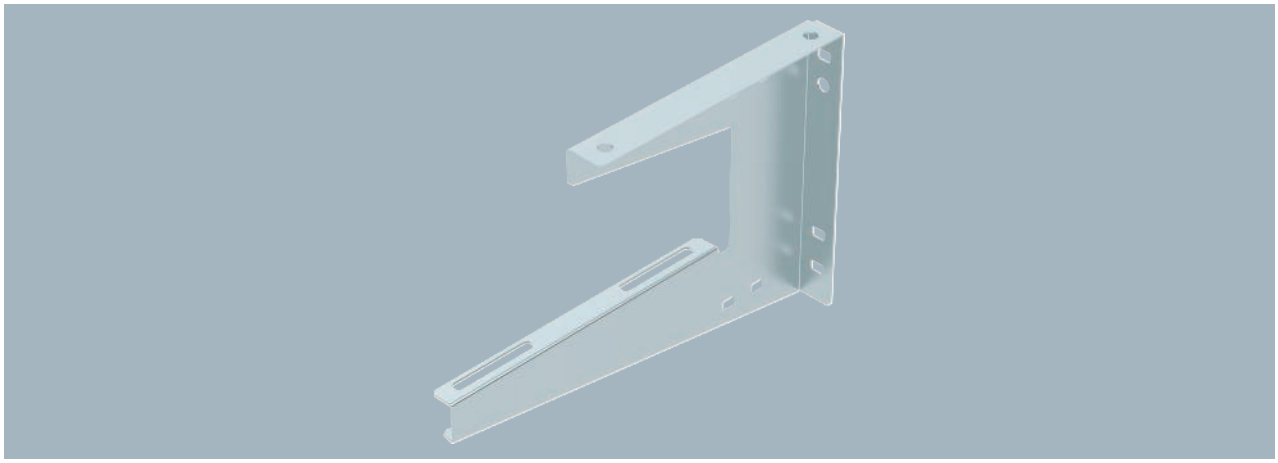
**Ceiling fastening**

| Anchor type | Max. load [kN] Bracket width [mm] 145 | 245 | 345 | 445 | 545 |
|---|---|---|---|---|---|
| BZ-U 8-30/95 | 1,48 | 0,93 | 0,50 | 0,35 | 0,25 |
| BZ3 10x90/0-30 | 1,45 | 0,93 | 0,50 | 0,35 | 0,25 |

Max. total load F = cable weight + cable tray + ceiling clamp. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

St FS

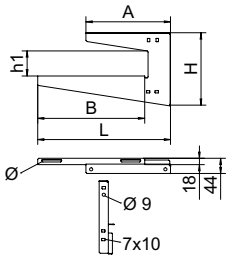
## Wall and ceiling bracket



Wall and ceiling bracket for universal structural fastening.

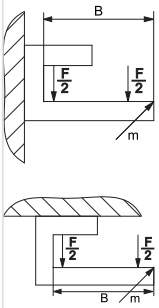
| Type | for width mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WDB L 50 FS** | 50 | | 1 | 11.000 | **6363700** |
| **WDB L 100 FS** | 100 | | 1 | 15.000 | **6363702** |
| **WDB L 150 FS** | 150 | | 1 | 24.000 | **6363704** |
| **WDB L 200 FS** | 200 | | 1 | 33.000 | **6363706** |
| **WDB L 300 FS** | 300 | | 1 | 52.000 | **6363708** |
| **WDB L 400 FS** | 400 | | 1 | 73.000 | **6363710** |

### Dimensions




| Type | Dim. A mm | Dim. B mm | Dim. H mm | Dim. h1 mm | Dim. L mm |
|---|---|---|---|---|---|
| WDB L 50 FS | 115 | 60 | 170 | 92 | 130 |
| WDB L 100 FS | 145 | 110 | 179 | 88 | 185 |
| WDB L 150 FS | 170 | 160 | 186 | 84 | 235 |
| WDB L 200 FS | 195 | 210 | 194 | 80 | 285 |
| WDB L 300 FS | 245 | 310 | 210 | 73 | 385 |
| WDB L 400 FS | 300 | 410 | 226 | 65 | 490 |

### Load



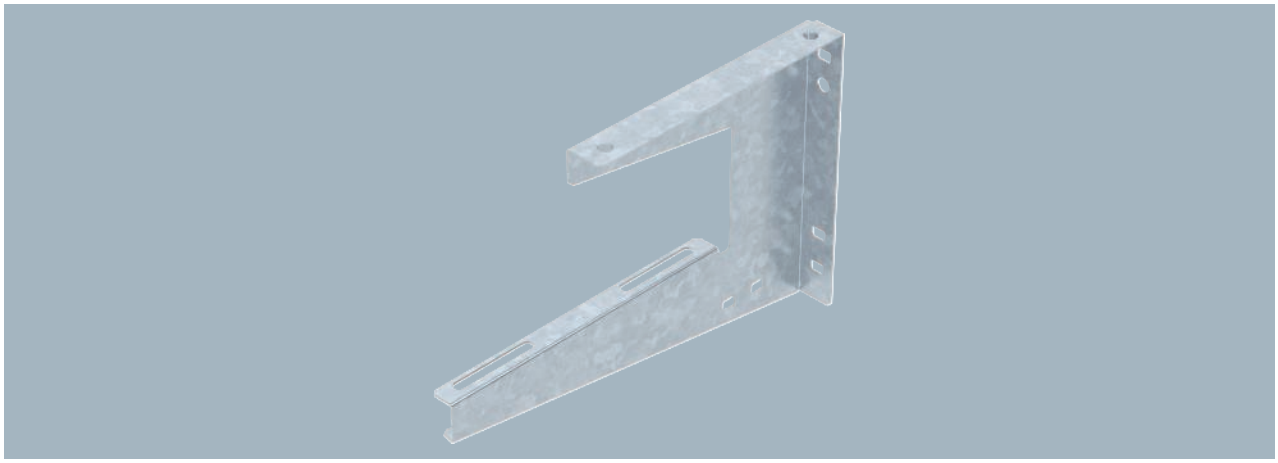

| Wall fastening | | | | | | |
|---|---|---|---|---|---|---|
| | Max. load [kN] | | | | | |
| | Bracket length [mm] | | | | | |
| Anchor type | 50 | 100 | 150 | 200 | 300 | 400 |
| BZ-U 8-30-41/95 | 0.40 | 0.25 | 0.22 | 0.30 | 0.20 | 0.12 |



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## Wall and ceiling bracket

St FT

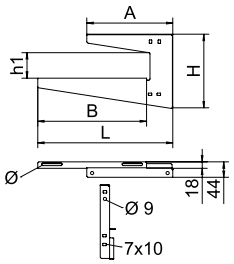


| Type | for width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **WDB L 50 FT** | 50 | 1 | 12.200 | **6363720** |
| **WDB L 100 FT** | 100 | 1 | 17.000 | **6363722** |
| **WDB L 150 FT** | 150 | 1 | 26.000 | **6363724** |
| **WDB L 200 FT** | 200 | 1 | 33.000 | **6363726** |
| **WDB L 300 FT** | 300 | 1 | 28.000 | **6363728** |
| **WDB L 400 FT** | 400 | 1 | 78.000 | **6363730** |

Wall and ceiling bracket for universal structural fastening.

| Type | Dim. A mm | Dim. B mm | Dim. H mm | Dim. h1 mm | Dim. L mm |
|---|---|---|---|---|---|
| WDB L 50 FT | 115 | 60 | 170 | 92 | 130 |
| WDB L 100 FT | 145 | 110 | 179 | 88 | 185 |
| WDB L 150 FT | 170 | 160 | 186 | 84 | 235 |
| WDB L 200 FT | 195 | 210 | 194 | 80 | 285 |
| WDB L 300 FT | 245 | 310 | 210 | 73 | 385 |
| WDB L 400 FT | 300 | 410 | 226 | 65 | 490 |

### Dimensions




### Load

**Wall fastening**



| Anchor type | Max. load [kN] Bracket length [mm] 50 | 100 | 150 | 200 | 300 | 400 |
|---|---|---|---|---|---|---|
| BZ-U 8-30-41/95 | 0,40 | 0,25 | 0,22 | 0,30 | 0,20 | 0,12 |

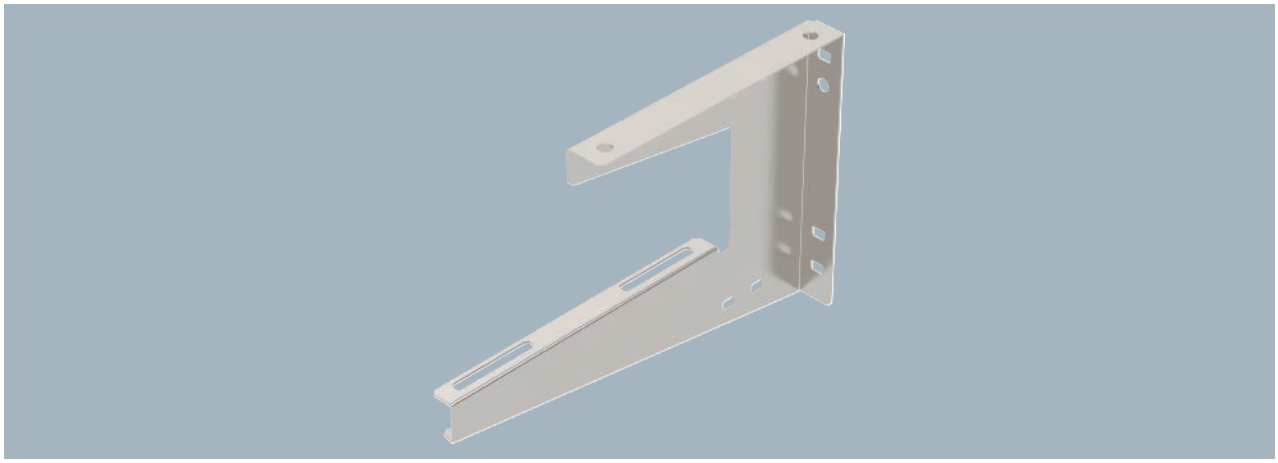
**Ceiling fastening**



| Anchor type | Max. load [kN] Bracket length [mm] 50 | 100 | 150 | 200 | 300 | 400 |
|---|---|---|---|---|---|---|
| BZ-U 8-30-41/95 | 0,40 | 0,25 | 0,22 | 0,30 | 0,20 | 0,12 |

A2 2B

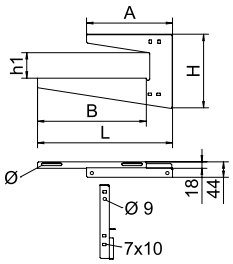
# Wall and ceiling bracket



Wall and ceiling clamp for universal structural fastening.

| Type | for width mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WDB L 50 A2** | 50 | | 1 | 11.000 | **6363740** |
| **WDB L 100 A2** | 100 | | 1 | 15.000 | **6363742** |
| **WDB L 150 A2** | 150 | | 1 | 24.000 | **6363744** |
| **WDB L 200 A2** | 200 | | 1 | 33.000 | **6363746** |
| **WDB L 300 A2** | 300 | | 1 | 52.000 | **6363748** |
| **WDB L 400 A2** | 400 | | 1 | 73.000 | **6363750** |

## Dimensions




| Type | Dim. A mm | Dim. B mm | Dim. H mm | Dim. h1 mm | Dim. L mm |
|---|---|---|---|---|---|
| WDB L 50 A2 | 115 | 60 | 170 | 92 | 130 |
| WDB L 100 A2 | 145 | 110 | 179 | 88 | 185 |
| WDB L 150 A2 | 170 | 160 | 186 | 84 | 235 |
| WDB L 200 A2 | 195 | 210 | 194 | 80 | 285 |
| WDB L 300 A2 | 245 | 310 | 210 | 73 | 385 |
| WDB L 400 A2 | 300 | 410 | 226 | 65 | 490 |

## Load

**Wall fastening**



| Anchor type | Max. load [kN] Bracket length [mm] 50 | 100 | 150 | 200 | 300 | 400 |
|---|---|---|---|---|---|---|
| BZ-U 8-30-41/95 | 0,40 | 0,25 | 0,22 | 0,30 | 0,20 | 0,12 |

**Ceiling fastening**



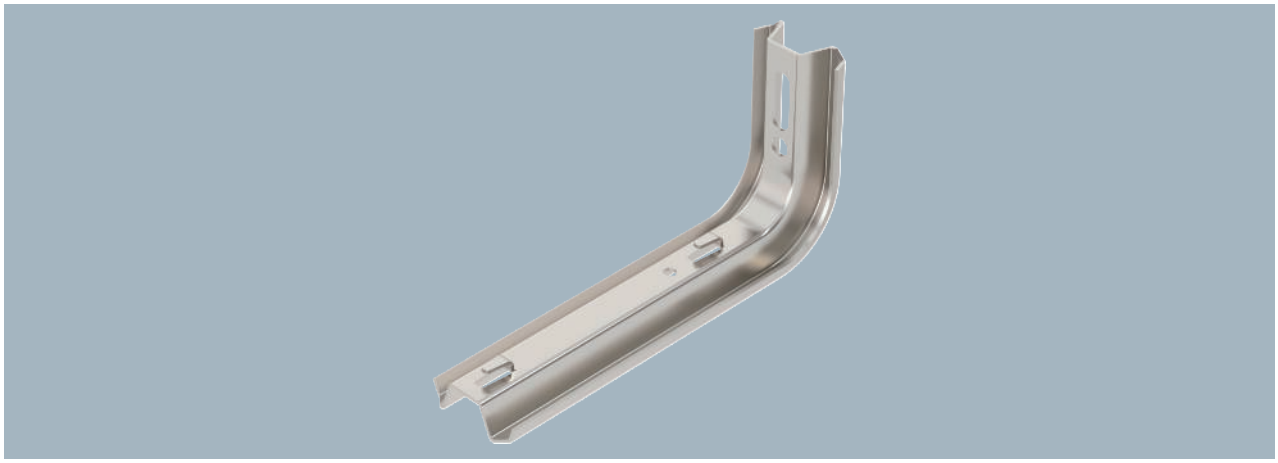
| Anchor type | Max. load [kN] Bracket length [mm] 50 | 100 | 150 | 200 | 300 | 400 |
|---|---|---|---|---|---|---|
| BZ-U 8-30-41/95 | 0,40 | 0,25 | 0,22 | 0,30 | 0,20 | 0,12 |



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## TP support / wall and support bracket

A2 2B



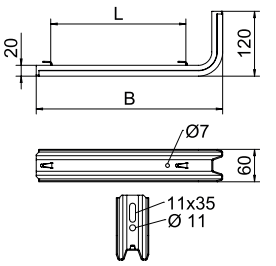
| Type | for width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **TPSAG 145 A2** | 100 | 50 | 32.000 | **6366145** |
| **TPSAG 195 A2** | 150 | 20 | 40.000 | **6366146** |
| **TPSAG 245 A2** | 200 | 20 | 47.000 | **6366148** |
| **TPSAG 345 A2** | 300 | 20 | 61.000 | **6366149** |

If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.

TP bracket with clamping lugs for screwless mesh cable tray fastening.

| Type | Dim. B mm | Dim. L mm |
|---|---|---|
| TPSAG 145 A2 | 145 | 50 |
| TPSAG 195 A2 | 195 | 100 |
| TPSAG 245 A2 | 245 | 150 |
| TPSAG 345 A2 | 345 | 250 |

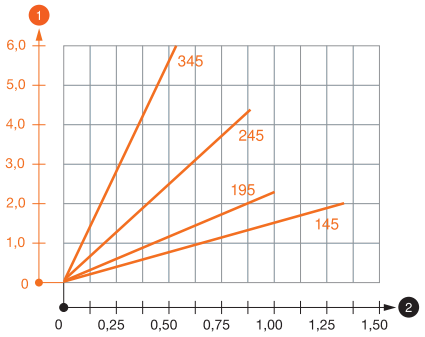
### Dimensions




### Load diagram, bracket TPSAG

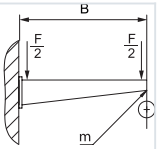
Load

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm




**Characteristic anchor load values for TP bracket - wall fastening**

| Item on test | Force F (SWL) | Width B |
|---|---|---|
| TPSA 145 FT | 0.15 kN | 145 mm |
| TPSA 195 FT | 1 kN | 195 mm |
| TPSA 245 FT | 0.950 kN | 245 mm |
| TPSA 345 FT | 0.55 kN | 345 mm |




Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

**Characteristic anchor load values for TP brackets**

| Wall fastening | | | | |
|---|---|---|---|---|
| | Max. load [kN] | | | |
| | Bracket width [mm] | | | |
| Anchor type | 145 | 195 | 245 | 345 |
| BZ3 10x90/0-30 | 1.3 | 0.93 | 0.60 | 0.68 |

**Characteristic anchor load values for TP bracket**

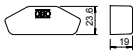
| Bracket load | | | | |
|---|---|---|---|---|
|  | anchors | Max. total load F in kN | | |
| | Approved | Bracket length in mm | | |
| | F kN | 145 | 245 | 345 |
| | 2.4 | 1,50 | 0,90 | 0,55 |
| | 4.3 | 1,50 | 1,20 | 0,80 |

PE

## End cap

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| TPS KS OR | Pastel orange | 10 | 0.700 | 6364625 |

End cap to cover ends of TP supports.





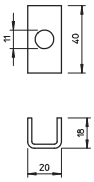

St FS FT

## Spacer

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| DS 4 FS | 20 | 3.390 | 6416551 |
| DS 4 FT | 20 | 3.800 | 6416586 |

For static reasons, the spacer is always used to prevent the profile from deforming when the fastening bolts are tightened.

Spacer for use in profiles, type TP.





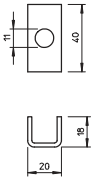

A2 2B

## Spacer

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| DS 4 A2 | 10 | 3.700 | 6416594 |

For static reasons, the spacer is always used to prevent the profile from deforming when the fastening bolts are tightened.

Spacer for use in profiles, type TP.





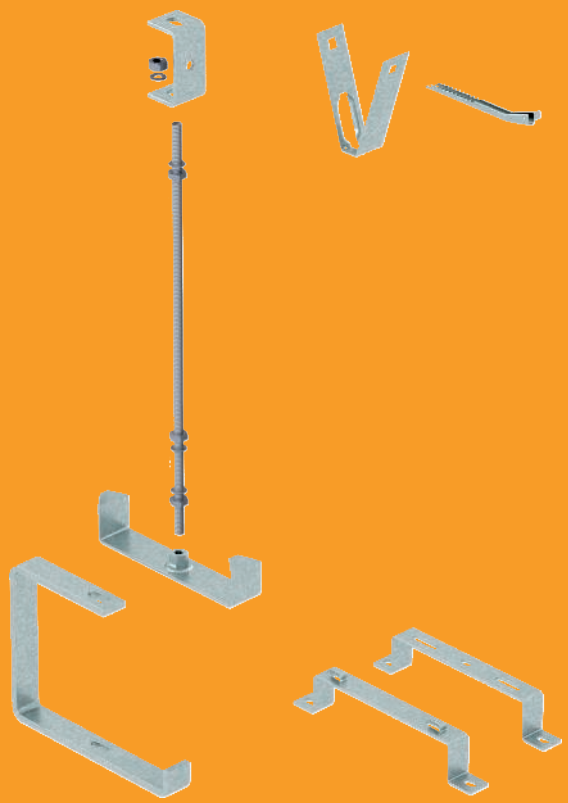



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# Universal systems

Universal systems for cable support structures are used for small loads. Whether the installation is to be a ceiling fastening, wall fastening or a floor stand-off: In the universal systems, you can find functional fastenings with matching system accessories for any application.



- Simple suspension
- Centre suspension
- Suitable for mesh cable trays and cable trays
- Floor mounting
- Matching system accessories

# System description

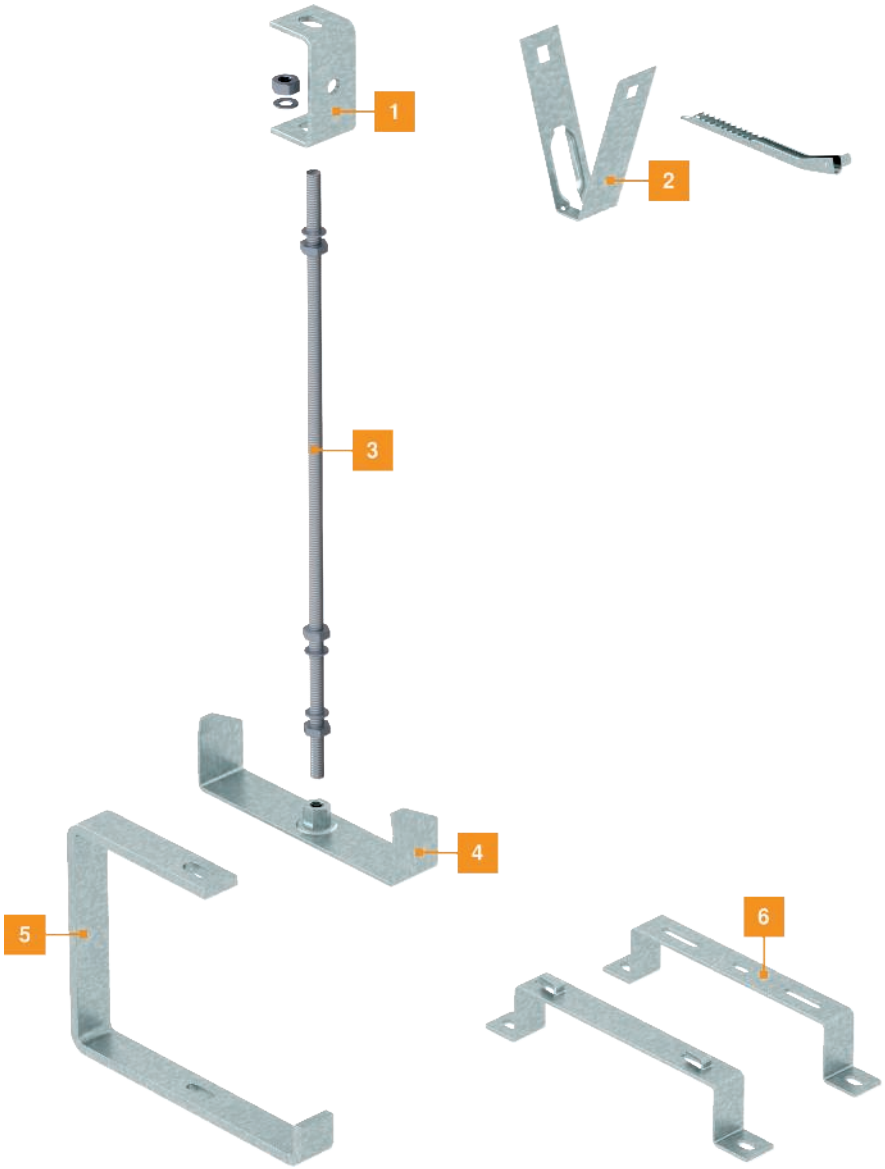


The universal systems are used for small loads. Whether the installation is to be a ceiling fastening, wall fastening or as a floor stand-off: in the Universal systems, you can find functional fittings with matching system accessories for any application.
These suspension systems, which can be called basic installations, include centrally loaded ceiling clamps or trapezoidal fastenings, which are used with threaded rods and centre suspensions. When using central suspensions, the load should be even on both sides of the system. If an even load cannot be guaranteed, then other systems should be used.



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# Installation principle




| | |
|---|---|
| 1 | Ceiling bracket |
| 2 | Trapezoidal fastening |
| 3 | Threaded rod |
| 4 | Centre suspension |
| 5 | Suspension clamp |
| 6 | Stand-off bracket |

# Mounting aid



**Installation of centre suspension**
Installation of the centre suspension MAH 60 on the ceiling using threaded rod 2078/M10 and ceiling bracket 12050. Maximum cable tray width 300 mm.



**Universal mounting on the ceiling**
The variable ceiling bracket, type DBV, allows threaded rod suspensions on straight and sloping ceilings.



**Centre suspension with threaded rod**
Direct centre suspension at low loads of a cable tray with threaded rod 2078/M10.



**Installation of centre suspension**
Insertion and alignment of the centre suspension, MAH, in the cable tray.



**Threaded rod suspension RKSM > 400 mm**
The threaded rod suspension of RKSM cable trays > 400 mm can take place using two threaded rods.



**Cable ladder centre suspension with threaded rod**
Installation of a cable ladder with centre suspension MAHU and a threaded rod.



**Trapezoidal plate application**
Simple, quick fastening of a cable support system to trapezoidal metal roofs.



**Installation of trapeze suspension**
Installation of a cable tray on a trapezoidal ceiling using a ceiling bracket, type TPB 100 and centre suspension, type MAH 60. Maximum cable tray width 300 mm. The trapezoidal fastening is mounted using the lock, type TPB R.



**Threaded rod suspension with ceiling bracket**
Ceiling mounting of a cable tray with AHB ceiling bracket and threaded rod 2078/M10. Maximum cable tray width 400 mm.



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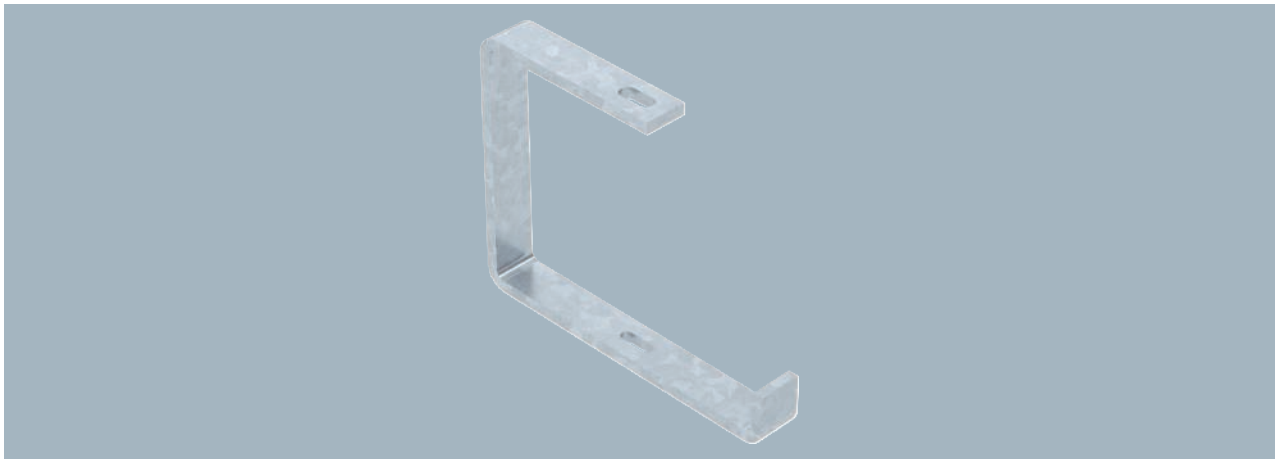
**Floor fastening at a distance**
Mounting of a cable tray at a distance using the DBL stand-off bracket. Maximum cable tray width 600 mm.



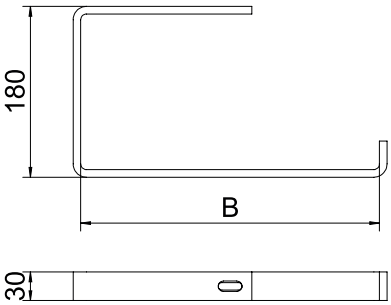
**Stand-off of mesh cable trays**
Floor stand-off of mesh cable trays with the stand-off bracket, type DBLG 20/... Screwless fastening of the mesh cable tray on the stand-off bracket using clamping lugs.

St FT

## Ceiling bracket



Suspension bracket for cable support systems.



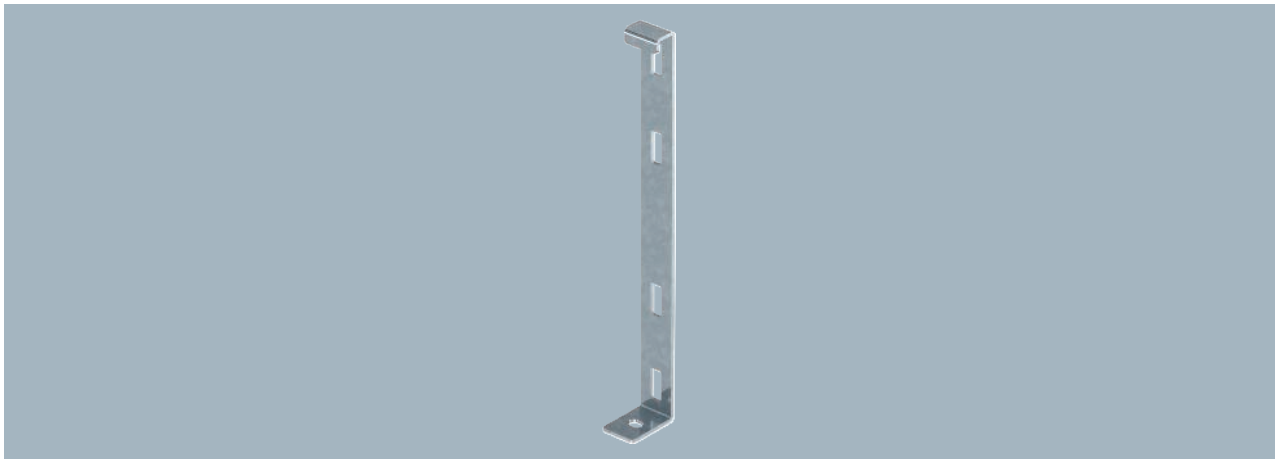

| Type | for width mm | Dim. B mm | Hole Ø mm | F in kN ceiling kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **AHB 100 FT** | 100 | 115 | 11 | 0.6 | | 1 | 54.000 | **6363903** |
| **AHB 150 FT** | 150 | 165 | 11 | 0.6 | | 1 | 87.000 | **6363907** |
| **AHB 200 FT** | 200 | 215 | 11 | 0.6 | | 1 | 101.000 | **6363911** |
| **AHB 300 FT** | 300 | 315 | 11 | 0.35 | | 1 | 130.000 | **6363938** |
| **AHB 400 FT** | 400 | 415 | 11 | 0.2 | | 1 | 157.000 | **6363946** |



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## Suspension bracket for cable tray and cable ladder

St FT

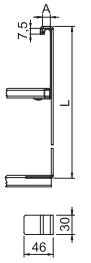


| Type | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **AHB 14 314 FT** | 314 | 4 | 24.900 | **6363884** |

Cable trays or cable ladders can be mounted both in a length-wise and a transverse direction beneath previously installed cable sections. Optional mounting in conjunction with C profile rail or U profile.
For the suspension on cable trays and cable ladders with rounded rail top edge.
The statics and the load limit values of the cable supports, on which the additional cable trays or cable ladders are suspended, must be taken into account.

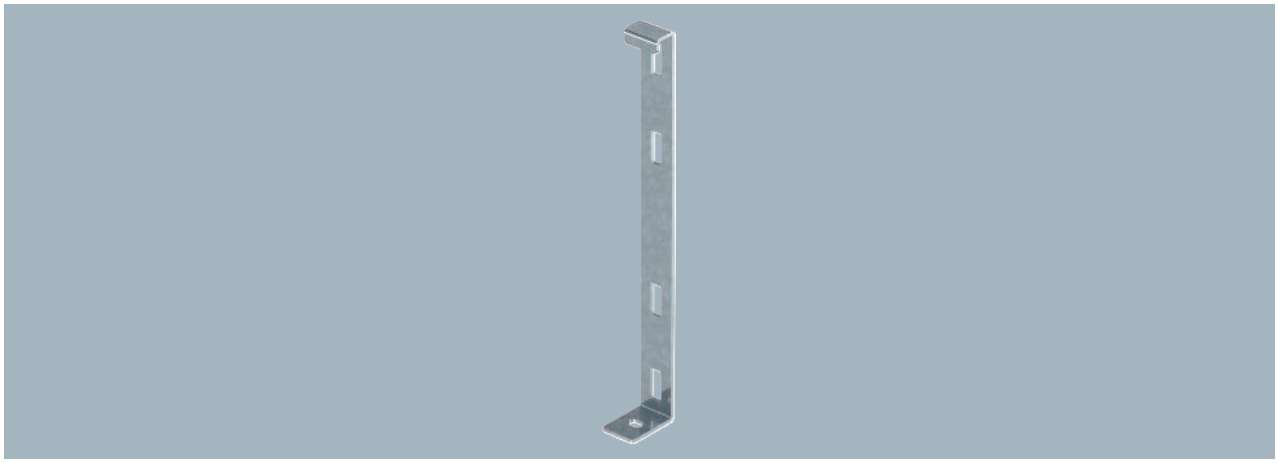
Suspension bracket to suspend cable trays and cable ladders to previously installed cable support systems. Can be used indoors and outdoors.

**Dimensions**



St FT

## Suspension bracket for wide span systems



Cable trays or cable ladders can be mounted both in a length-wise and a transverse direction beneath previously installed wide span systems. Optional mounting in conjunction with C profile rail or U profile.
For suspension on wide span cable trays or cable ladders with rectangular rail top edge.
The statics and the load limit values of the cable supports, on which the additional cable trays or cable ladders are suspended, must be taken into account.

Suspension bracket to suspend cable trays and cable ladders to previously installed wide span systems. Can be used indoors and outdoors.

| Type | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **AHB 22 314 FT** | 314 | 4 | 25.500 | **6363886** |

### Dimensions





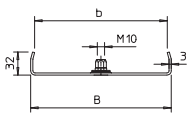

St FS

## Centre suspension for cable tray, 35

| Type | for width mm | For threaded rod | Dim. B mm | Dim. b mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **MAH 35 100 FS** | 100 | M10 | 95 | 84 | 1.3 | 1 | 9.400 | **6358690** |
| **MAH 35 200 FS** | 200 | M10 | 195 | 184 | 0.35 | 1 | 18.600 | **6358692** |
| **MAH 35 300 FS** | 300 | M10 | 295 | 284 | 0.2 | 1 | 27.700 | **6358694** |

The centre suspension possesses a rotatable M10 threaded sleeve. When filling, ensure an even distribution of the load (avoid one-sided filling).

Centre suspension for cable trays with rolled side rail of side height 35 mm.



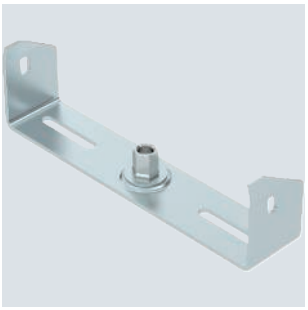


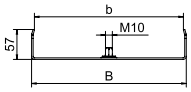



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## Centre suspension for cable tray, 60

St FS FT






| Type | for width mm | For threaded rod | Dim. B mm | Dim. b mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **MAH 60 100 FS** | 100 | M10 | 94 | 84 | 1.3 | 1 | 17.250 | **6358705** |
| **MAH 60 150 FS** | 150 | M10 | 144 | 134 | 0.5 | 1 | 23.000 | **6358709** |
| **MAH 60 200 FS** | 200 | M10 | 195 | 184 | 0.2 | 1 | 24.500 | **6358713** |
| **MAH 60 300 FS** | 300 | M10 | 295 | 284 | 0.2 | 1 | 36.700 | **6358717** |
| **MAH 60 400 FS** | 400 | M10 | 395 | 384 | 0.1 | 1 | 46.000 | **6358720** |
| **MAH 60 100 FT** | 100 | M10 | 94 | 84 | 1.3 | 1 | 18.500 | **6358752** |
| **MAH 60 150 FT** | 150 | M10 | 144 | 134 | 0.5 | 1 | 23.000 | **6358756** |
| **MAH 60 200 FT** | 200 | M10 | 195 | 184 | 0.2 | 1 | 27.600 | **6358760** |
| **MAH 60 300 FT** | 300 | M10 | 295 | 284 | 0.2 | 1 | 36.700 | **6358764** |

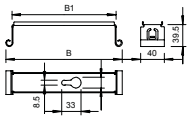
The centre suspension possesses a rotatable M10 threaded sleeve. When filling, ensure an even distribution of the load (avoid one-sided filling).
The widths 100, 150 and 200 mm have additional base perforations, in order to screw the centre suspensions to the tray base when used for the maintenance of electrical functionality according to DIN 4102 Part 12.

Centre suspension for cable trays with rolled side rail of side height 60 mm.

## Centre suspension for cable trays with rolled side rail

St FS





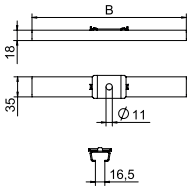

| Type | for width mm | Dim. B mm | Dimension B1 mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **MAH 050 FS** | 50 | 47 | 26 | | 1 | 5.000 | **6358500** |
| **MAH 075 FS** | 75 | 72 | 51 | | 1 | 6.500 | **6358510** |
| **MAH 100 FS** | 100 | 97 | 76 | | 1 | 7.500 | **6358527** |
| **MAH 150 FS** | 150 | 147 | 126 | | 1 | 8.000 | **6358535** |
| **MAH 200 FS** | 200 | 197 | 176 | | 1 | 12.500 | **6358543** |

Centre suspension for cable trays for attachment from the side rail of the cable tray.

## Centre suspension mesh cable tray

St FS





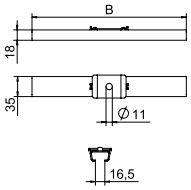

| Type | Dim. B mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **GMS 170 FS** | 170 | | 25 | 20.000 | **6015400** |
| **GMS 270 FS** | 270 | | 25 | 32.000 | **6015402** |
| **GMS 370 FS** | 370 | | 25 | 43.000 | **6015404** |
| **GMS 470 FS** | 470 | | 10 | 55.000 | **6015406** |
| **GMS 570 FS** | 570 | | 10 | 67.000 | **6015408** |

Centre suspension including hold-down clamp for mesh cable tray suspensions.

## Centre suspension mesh cable tray

VA 2B






| Type | Dim. B mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **GMS 170 A4** | 170 | | 25 | 20.000 | **6015418** |
| **GMS 270 A4** | 270 | | 25 | 32.000 | **6015419** |
| **GMS 370 A4** | 370 | | 25 | 43.000 | **6015420** |
| **GMS 470 A4** | 470 | | 10 | 55.000 | **6015421** |
| **GMS 570 A4** | 570 | | 10 | 67.000 | **6015422** |

Centre suspension including hold-down clamp for mesh cable tray suspensions.

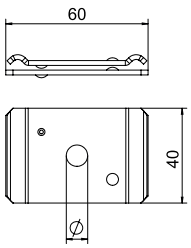
St FS FT

## Centre suspension mesh cable tray

| Type | Hole Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GMA M8 FS | 9 | 25 | 7.270 | 6015239 |
| GMA M10 FS | 11 | 25 | 6.830 | 6015247 |
| GMA M6 FS | 7 | 25 | 8.000 | 6015220 |
| GMA M6 FT | 7 | 25 | 8.400 | 6015224 |
| GMA M8 FT | 9 | 25 | 8.300 | 6015243 |
| GMA M10 FT | 11 | 25 | 8.400 | 6015255 |

When filling with cables, please ensure an even distribution. The maximum recommended mesh cable tray width is 200 mm.

Two-part centre suspension of mesh cable trays.





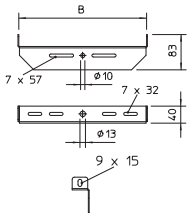

St FS

## Centre suspension, universal

| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| MAHU 200 FS | 200 | 1 | 27.500 | 6358853 |
| MAHU 300 FS | 300 | 1 | 39.300 | 6358856 |
| MAHU 400 FS | 400 | 1 | 68.800 | 6358860 |
| MAHU 500 FS | 500 | 1 | 85.800 | 6358864 |
| MAHU 600 FS | 600 | 1 | 103.300 | 6358868 |

Preferred use of this centre suspension in combination with cable ladders and mesh cable trays.

Universal centre suspension for fastening to threaded rods and supports.





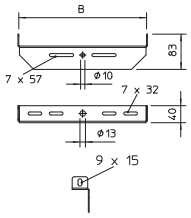

St FT

## Centre suspension, universal

| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| MAHU 200 FT | 200 | 1 | 28.700 | 6358884 |
| MAHU 300 FT | 300 | 1 | 43.300 | 6358888 |
| MAHU 400 FT | 400 | 1 | 71.300 | 6358892 |
| MAHU 500 FT | 500 | 1 | 89.100 | 6358896 |
| MAHU 600 FT | 600 | 1 | 107.000 | 6358900 |

Preferred use of this centre suspension in combination with cable ladders and mesh cable trays.

Universal centre suspension for fastening to threaded rods and supports.





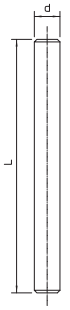

# Threaded rods

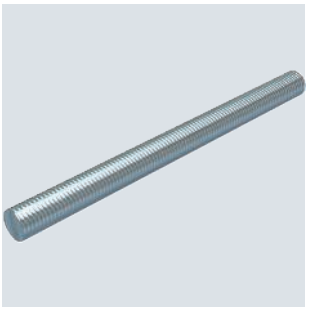
St G

## Threaded rod

| Type | Thread | Dim. d mm | Dim. L mm | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| TR M6 1M G | M6 | 6 | 1000 | 8.04 | 10 | 18.300 | 3141047 |
| TR M8 1M G | M8 | 8 | 1000 | 14.6 | 10 | 30.000 | 3141128 |
| TR M10 1M G | M10 | 10 | 1000 | 23.2 | 10 | 49.000 | 3141209 |
| TR M12 1M G | M12 | 12 | 1000 | 33.7 | 10 | 62.000 | 3141306 |
| TR M6 2M G | M6 | 6 | 2000 | 8.04 | 10 | 36.600 | 3141048 |
| TR M8 2M G | M8 | 8 | 2000 | 14.6 | 10 | 60.000 | 3141136 |
| TR M10 2M G | M10 | 10 | 2000 | 23.2 | 10 | 98.000 | 3141140 |
| TR M12 2M G | M12 | 12 | 2000 | 33.7 | 10 | 140.000 | 3141144 |
| TR M10 3M G | M10 | 10 | 3000 | 23.2 | 20 | 147.000 | 3141233 |

Threaded rod to DIN 976.





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# Threaded rods

## Threaded rod

A2 A4 2B






| Type | Thread | Dim. d mm | Dim. L mm | Break load kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **TR M6 1M A2** | M6 | 6 | 1000 | 19.78 | | 10 | 18.300 | **3141327** |
| **TR M8 1M A2** | M8 | 8 | 1000 | 35.17 | | 10 | 30.000 | **3141310** |
| **TR M10 1M A2** | M10 | 10 | 1000 | 54.95 | | 10 | 49.000 | **3141312** |
| **TR M12 1M A2** | M12 | 12 | 1000 | 79.13 | | 10 | 70.000 | **3141314** |
| **TR M6 2M A2** | M6 | 6 | 2000 | 19.78 | | 10 | 36.600 | **3141328** |
| **TR M8 2M A2** | M8 | 8 | 2000 | 35.17 | | 10 | 60.000 | **3141330** |
| **TR M10 2M A2** | M10 | 10 | 2000 | 54.95 | | 10 | 98.000 | **3141339** |
| **TR M6 1M A4** | M6 | 6 | 1000 | 22.61 | | 1 | 18.300 | **3141482** |
| **TR M8 1M A4** | M8 | 8 | 1000 | 40.19 | | 1 | 30.000 | **3141492** |
| **TR M10 1M A4** | M10 | 10 | 1000 | 62.8 | | 1 | 49.000 | **3141502** |
| **TR M6 2M A4** | M6 | 6 | 2000 | 22.61 | | 1 | 36.600 | **3141484** |
| **TR M8 2M A4** | M8 | 8 | 2000 | 40.19 | | 1 | 60.000 | **3141494** |

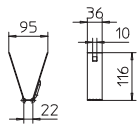
Threaded rod to DIN 976.

# Trapezoidal fastening

## Ceiling bracket, trapezoidal

St FS






| Type | Material thickness mm | F in kN kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **TPB 100 FS** | 1.5 | 0.8 | | 20 | 9.900 | **6357506** |

Important: Observe the statics of the trapezoidal metal ceiling.

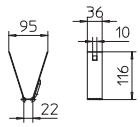
Trapezoidal fastening for suspended mounting of cable support systems on standard trapezoidal ceilings.

When using the holes provided, the trapezoidal fastening can be mounted onto a trapezoidal profile width of up to approx. 80 mm. Fastening takes place with the type TPB R lock or a hexagonal bolt of type SKS 10x110.

## Ceiling bracket, trapezoidal

A2 2B






| Type | Material thickness mm | F in kN kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **TPB 100 A2** | 1.5 | 0.8 | | 20 | 9.900 | **6357516** |

Important: Observe the statics of the trapezoidal metal ceiling.

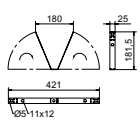
Trapezoidal fastening for suspended mounting of cable support systems on standard trapezoidal ceilings.

When using the holes provided, the trapezoidal fastening can be mounted onto a trapezoidal profile width of up to approx. 80 mm. Fastening takes place with the type TPB R lock or a hexagonal bolt of type SKS 10x110.

## Trapezoidal fastening

St FS



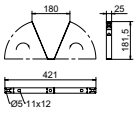



| Type | Material thickness mm | F in kN kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **TPB 180 FS** | 1.5 | 0.8 | | 20 | 11.400 | **6357522** |

A2 2B

## Trapezoidal fastening

| Type | Material thickness mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **TPB 180 A2** | 1.5 | 0.8 | 20 | 11.400 | **6357524** |



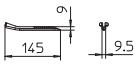



St FS

## Splint for trapezoidal ceiling bracket

| Type | Material thickness mm | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **TPB R FS** | 1.5 | 0.8 | 20 | 3.100 | **6357536** |

Important: Observe the statics of the trapezoidal metal ceiling.
Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.



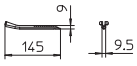



A2 2B

## Splint for trapezoidal ceiling bracket

| Type | Material thickness mm | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **TPB R A2** | 1.5 | 0.8 | 20 | 3.100 | **6357538** |

Important: Observe the statics of the trapezoidal metal ceiling.
Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.





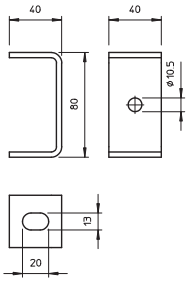

# Bracket

St FT

## Ceiling bracket

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **DB FT** | 20 | 16.000 | **6356109** |

Ceiling bracket for threaded rod suspension.



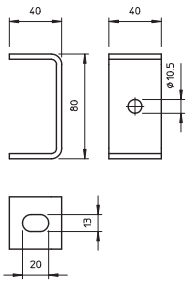



A4 2B

## Ceiling bracket

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **DB A4** | 10 | 16.000 | **6356113** |

Ceiling bracket for threaded rod suspension.





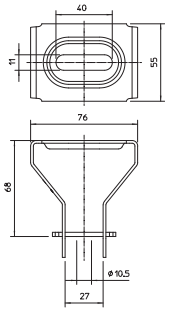



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## Ceiling clamp, variable

St FS





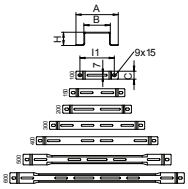

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **DBV FS** | 20 | 18.200 | **6356055** |

The locked threaded rod seat offers the option of infinite angle adjustment.
Ceiling bracket for suspension with threaded rods. The variable adjustment permits universal use.

## Stand-off bracket

St FS FT





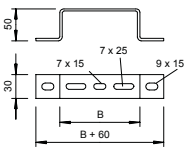

| Type | Dim. A mm | Dim. B mm | Dim. H mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **DBL 50 100 FS** | 160 | 100 | 50 | 20 | 15.500 | **6015506** |
| **DBL 50 150 FS** | 210 | 150 | 50 | 20 | 18.800 | **6015514** |
| **DBL 50 200 FS** | 260 | 200 | 50 | 20 | 21.000 | **6015522** |
| **DBL 50 300 FS** | 360 | 300 | 50 | 20 | 36.900 | **6015530** |
| **DBL 50 400 FS** | 460 | 400 | 50 | 20 | 46.300 | **6015549** |
| **DBL 50 500 FS** | 560 | 500 | 50 | 25 | 57.200 | **6015552** |
| **DBL 50 600 FS** | 660 | 600 | 50 | 20 | 65.800 | **6015555** |
| **DBL 50 100 FT** | 160 | 100 | 50 | 20 | 16.000 | **6015565** |
| **DBL 50 150 FT** | 210 | 150 | 50 | 20 | 19.400 | **6015573** |
| **DBL 50 200 FT** | 260 | 200 | 50 | 20 | 22.000 | **6015581** |
| **DBL 50 300 FT** | 360 | 300 | 50 | 20 | 38.000 | **6015603** |
| **DBL 50 400 FT** | 460 | 400 | 50 | 20 | 47.700 | **6015611** |
| **DBL 50 500 FT** | 560 | 500 | 50 | 25 | 58.900 | **6015614** |
| **DBL 50 600 FT** | 660 | 600 | 50 | 20 | 67.800 | **6015617** |

Stand-off bracket for cable trays and mesh cable trays.

## Stand-off bracket

A4 2B





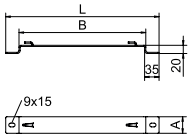

| Type | Dim. A mm | Dim. B mm | Dim. H mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **DBL 50 100 A4** | 160 | 100 | 50 | 10 | 15.500 | **6015630** |
| **DBL 50 200 A4** | 260 | 200 | 50 | 10 | 22.800 | **6015632** |
| **DBL 50 300 A4** | 360 | 300 | 50 | 10 | 36.900 | **6015633** |
| **DBL 50 400 A4** | 460 | 400 | 50 | 10 | 46.300 | **6015634** |

Stand-off bracket for cable trays and mesh cable trays.

St FS FT

## Stand-off bracket

| Type | Height mm | Dim. A mm | Dim. B mm | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **DBLG 20 050 FS** | 20 | 30 | 56 | 120 | 20 | 10.300 | **6015646** |
| **DBLG 20 100 FS** | 20 | 30 | 106 | 170 | 20 | 12.076 | **6015654** |
| **DBLG 20 150 FS** | 20 | 30 | 156 | 220 | 20 | 17.400 | **6015658** |
| **DBLG 20 200 FS** | 20 | 30 | 206 | 270 | 20 | 20.900 | **6015662** |
| **DBLG 20 300 FS** | 20 | 40 | 306 | 370 | 20 | 37.300 | **6015670** |
| **DBLG 20 400 FS** | 20 | 40 | 406 | 470 | 20 | 46.700 | **6015689** |
| **DBLG 20 500 FS** | 20 | 40 | 506 | 570 | 25 | 56.900 | **6015693** |
| **DBLG 20 600 FS** | 20 | 40 | 606 | 670 | 25 | 66.400 | **6015697** |
| **DBLG 20 050 FT** | 20 | 30 | 56 | 120 | 20 | 10.700 | **6015648** |
| **DBLG 20 100 FT** | 20 | 30 | 106 | 170 | 20 | 14.300 | **6015656** |
| **DBLG 20 200 FT** | 20 | 30 | 206 | 270 | 20 | 21.700 | **6015664** |
| **DBLG 20 300 FT** | 20 | 40 | 306 | 370 | 20 | 38.800 | **6015672** |
| **DBLG 20 400 FT** | 20 | 40 | 406 | 470 | 20 | 48.600 | **6015691** |
| **DBLG 20 500 FT** | 20 | 40 | 506 | 570 | 25 | 54.702 | **6015695** |
| **DBLG 20 600 FT** | 20 | 40 | 606 | 670 | 25 | 69.100 | **6015699** |
| **DBLG 20 150 FT** | 20 | 30 | 156 | 220 | 20 | 18.100 | **6015660** |






Screwless fastening of the mesh cable tray on the stand-off bracket.

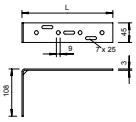
Stand-off bracket for stand-off of mesh cable trays on the floor or on the wall.
GRM mesh cable tray types with side heights of 35, 55 and 105 mm can be mounted onto the stand-off bracket.

Bracket

St FS

## Wall bracket WW

| Type | Dim. L mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WW 100 15 FS** | 158 | 0.12 | 25 | 25.000 | **6015360** |
| **WW 100 20 FS** | 208 | 0.09 | 25 | 30.000 | **6015379** |



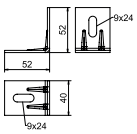


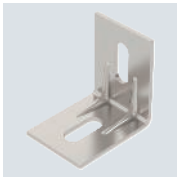

Wall bracket for fastening to masonry and concrete to accept low loads.

A2 2B

## Ceiling bracket K6

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **K 6 101 A2** | 20 | 7.000 | **6016391** |

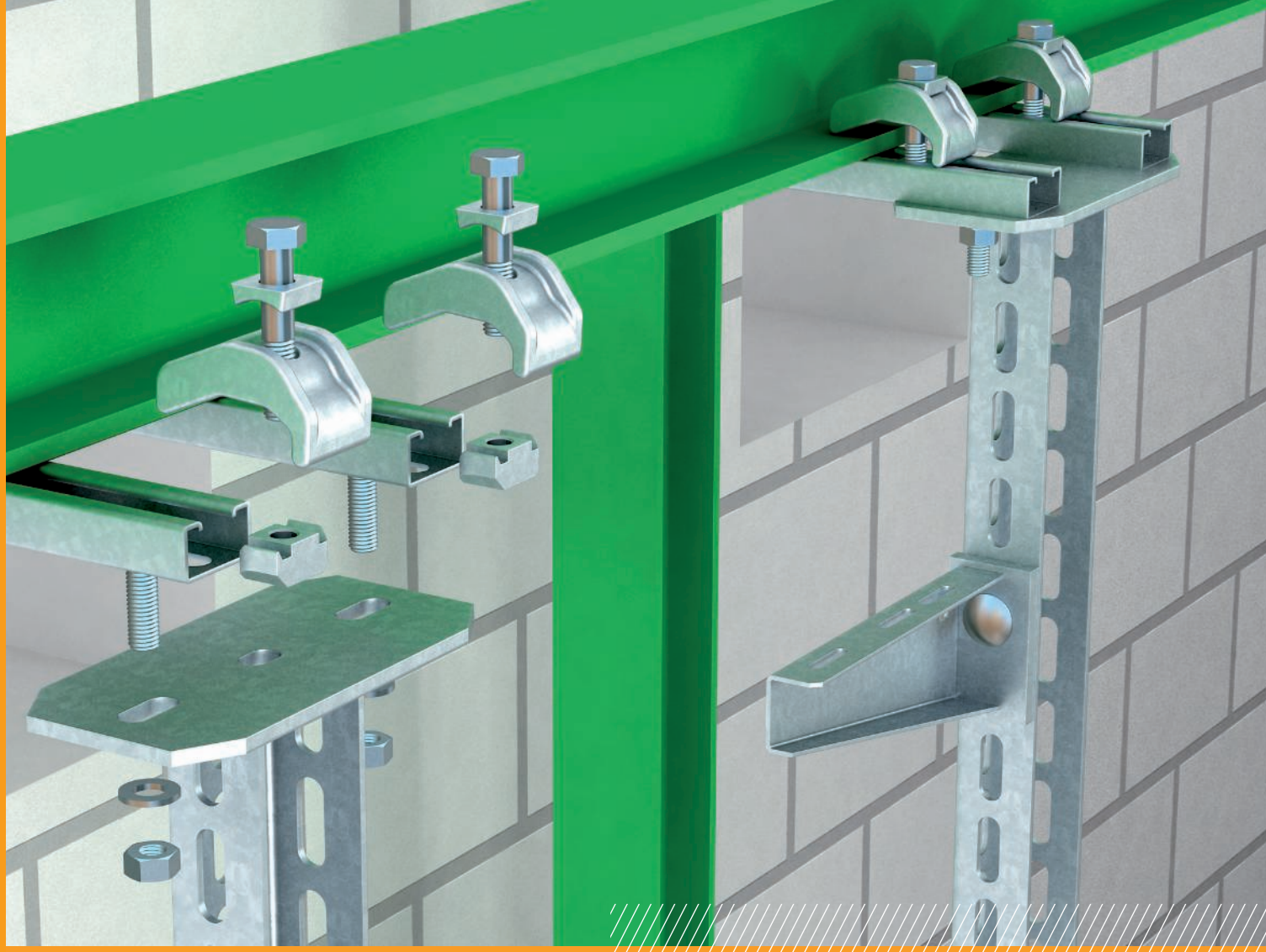


Ceiling bracket for universal fixing to ceiling and wall, or on suspension profile type AP 45.



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# Beam clamp systems

The beam clamp systems with reduced installation times and work are a clear argument for the use of this system in all areas of professional electrical installations. The beam clamp can be attached without difficult, often unpermitted, drilling. The load range runs from light-duty clamping angles to heavy-duty chuck jaws.

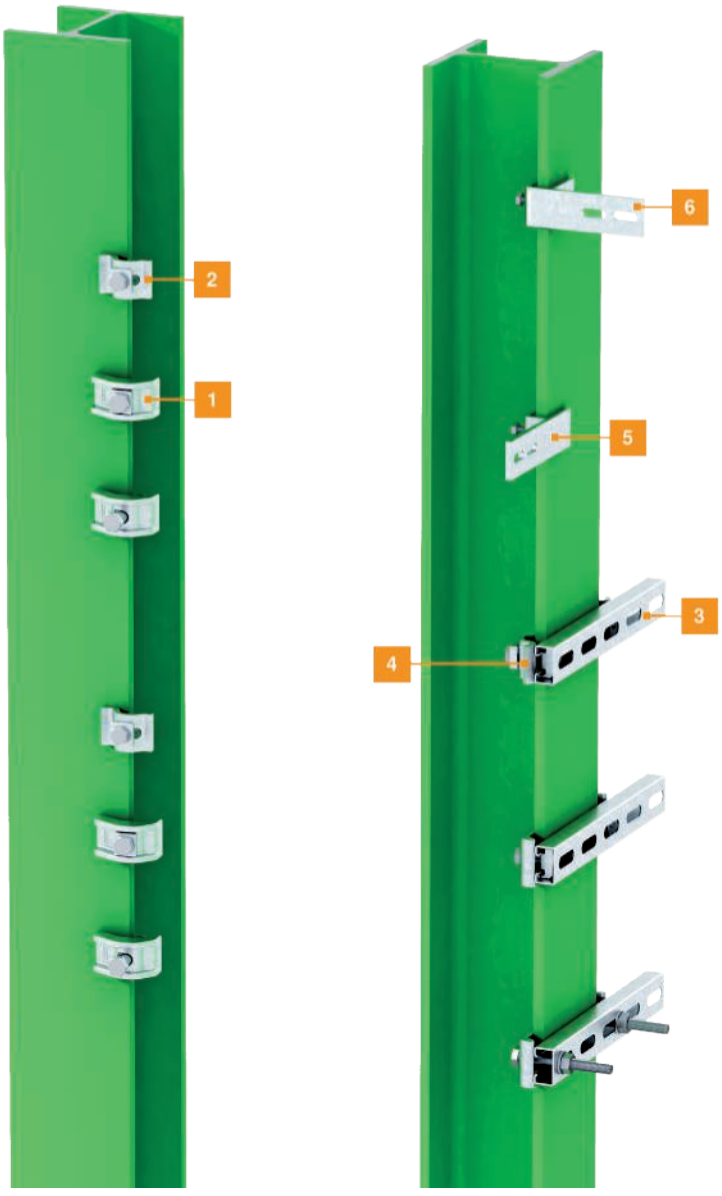


**Large support spacings possible**

**Infinite height adjustment**

## Installation principle






| | |
|---|---|
| 1 | Chuck jaw, heavy duty |
| 2 | Chuck jaw, light duty |
| 3 | Profile rail |
| 4 | Clamping angle |
| 5 | Beam clamp, horizontal |
| 6 | Beam clamp, vertical |

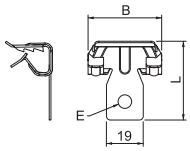


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## Beam clamp, with fastening hole

St ZL





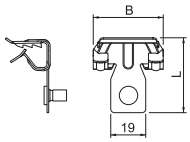

| Type | Flange thickness mm | Fastening hole mm | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **BCVH 2-4** | 2-4 | 6.5 | 450 | 100 | 1.350 | **1483601** |
| **BCVH 4-8** | 4-8 | 6.5 | 950 | 100 | 1.660 | **1483603** |
| **BCVH 8-14** | 8-14 | 6.5 | 950 | 100 | 1.800 | **1483605** |
| **BCVH 14-20** | 14-20 | 6.5 | 950 | 100 | 1.950 | **1483607** |

Beam clamp for knocking in with fastening hole as individual fastening solution on the beam.

## Beam clamp, with threaded bolt

St ZL



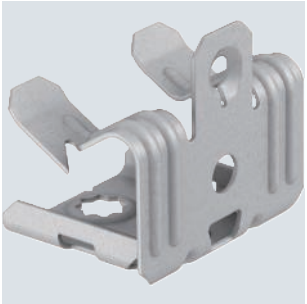


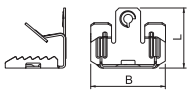

| Type | Flange thickness mm | Thread | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **BCVTB 2-4 M6** | 2-4 | M6x9mm | 450 | 100 | 0.900 | **1483611** |
| **BCVTB 4-8 M6** | 4-8 | M6x9mm | 450 | 100 | 1.600 | **1483613** |
| **BCVTB 8-14 M6** | 8-14 | M6x9mm | 450 | 100 | 1.800 | **1483615** |
| **BCVTB 14-20 M6** | 14-20 | M6x9mm | 450 | 100 | 2.000 | **1483617** |

Beam clamp for knocking in with threaded bolt as individual fastening solution on the beam.

## Beam clamp, with female thread

St ZL



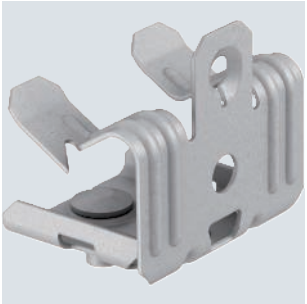


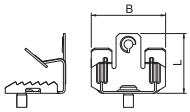

| Type | Flange thickness mm | Thread | Fastening hole mm | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **BCUIT 3-7 M6** | 3-7 | M6 | 7 | 350 | 100 | 2.100 | **1483621** |
| **BCUIT 8-12,5 M6** | 8-12 | M6 | 7 | 500 | 100 | 2.450 | **1483623** |
| **BCUIT 14-20 M6** | 14-20 | M6 | 7 | 500 | 100 | 2.700 | **1483625** |

Beam clamp for knocking in with internal thread as individual fastening solution on the beam.

## Beam clamp, with threaded bolt

St ZL





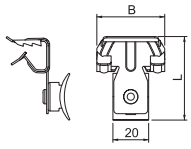

| Type | Flange thickness mm | Thread | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **BCUTB 3-7 M6** | 3-7 | M6x9mm | 350 | 100 | 2.850 | **1483631** |
| **BCUTB 8-12,5 M6** | 8-12.5 | M6x9mm | 500 | 100 | 2.900 | **1483633** |
| **BCUTB 14-20 M6** | 14-20 | M6x9mm | 500 | 100 | 3.200 | **1483635** |

Beam clamp for knocking in with threaded bolt as individual fastening solution on the beam.

St ZL

## Beam clamp, with cable tie

| Type | Flange thickness mm | Cable strip length mm | Max. D Ø | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **BCCT 2-4 L240** | 2-4 | 240 | 70 | 220 | 50 | 1.600 | **1483641** |
| **BCCT 4-8 L240** | 4-8 | 240 | 70 | 220 | 50 | 1.900 | **1483643** |
| **BCCT 4-8 L365** | 4-8 | 365 | 110 | 220 | 50 | 2.000 | **1483645** |
| **BCCT 8-14 L240** | 8-14 | 240 | 70 | 220 | 50 | 2.100 | **1483647** |
| **BCCT 8-14 L365** | 8-14 | 365 | 110 | 220 | 50 | 2.200 | **1483649** |
| **BCCT 14-20 L240** | 14-20 | 240 | 70 | 220 | 50 | 2.250 | **1483651** |
| **BCCT 14-20 L365** | 14-20 | 365 | 110 | 220 | 50 | 2.250 | **1483653** |



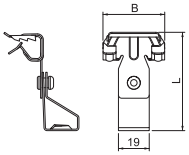



Beam clamp for knocking in with cable tie as individual fastening solution on the support.

St ZL

## Beam clamp, for threaded rod

| Type | Flange thickness mm | Thread | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **BCTR 4-8 M6** | 4-8 | M6 | 650 | 50 | 3.100 | **1483661** |
| **BCTR 8-14 M6** | 8-14 | M6 | 650 | 50 | 3.300 | **1483663** |
| **BCTR 4-8 M8** | 4-8 | M8 | 700 | 50 | 3.100 | **1483665** |
| **BCTR 8-14 M8** | 8-14 | M8 | 700 | 50 | 3.100 | **1483667** |
| **BCTR 4-8 M10** | 4-8 | M10 | 750 | 50 | 3.100 | **1483669** |
| **BCTR 8-14 M10** | 8-14 | M10 | 750 | 50 | 3.200 | **1483671** |



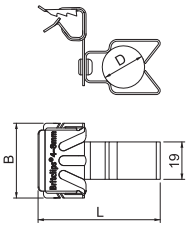



Beam clamp for knocking in with threaded rod seat as individual fastening solution on the beam.

St ZL

## Beam clamp, for pipes

| Type | Flange thickness mm | Pipe size D mm | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **BCHPO 2-4 D20** | 2-4 | 20 | 110 | 50 | 2.950 | **1483811** |
| **BCHPO 2-4 D25** | 2-4 | 25 | 110 | 50 | 2.000 | **1483813** |
| **BCHPO 2-4 D32** | 2-4 | 32 | 110 | 50 | 2.400 | **1483815** |
| **BCHPO 4-8 D20** | 4-8 | 20 | 110 | 50 | 3.000 | **1483821** |
| **BCHPO 4-8 D25** | 4-8 | 25 | 110 | 50 | 3.200 | **1483823** |
| **BCHPO 4-8 D32** | 4-8 | 32 | 110 | 50 | 3.000 | **1483825** |
| **BCHPO 8-14 D20** | 8-14 | 20 | 110 | 50 | 3.200 | **1483831** |
| **BCHPO 8-14 D25** | 8-14 | 25 | 110 | 50 | 3.100 | **1483833** |
| **BCHPO 8-14 D32** | 8-14 | 32 | 110 | 50 | 3.300 | **1483835** |
| **BCHPO 14-20 D20** | 14-20 | 20 | 110 | 50 | 3.200 | **1483841** |
| **BCHPO 14-20 D25** | 14-20 | 25 | 110 | 50 | 3.100 | **1483843** |
| **BCHPO 14-20 D32** | 14-20 | 32 | 110 | 50 | 3.300 | **1483845** |



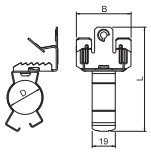


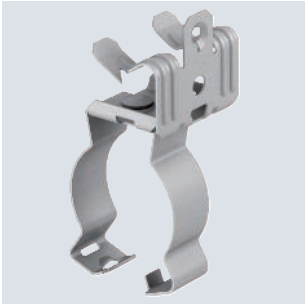

Beam clamp for knocking in with open pipe seat as individual fastening solution on the beam.

St ZL

## Beam clamp, for pipes

| Type | Flange thickness mm | Clamping range D mm | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **BCVPC 3-7 D20** | 3-7 | 19-22 | 350 | 50 | 4.100 | **1483781** |
| **BCVPC 3-7 D25** | 3-7 | 23-25 | 450 | 50 | 4.500 | **1483783** |
| **BCVPC 3-7 D32** | 3-7 | 26-32 | 450 | 50 | 4.700 | **1483785** |
| **BCVPC 3-7 D40** | 3-7 | 33-40 | 450 | 50 | 5.600 | **1483787** |
| **BCVPC 8-12,5 D20** | 8-12.5 | 19-22 | 350 | 50 | 4.200 | **1483791** |
| **BCVPC 8-12,5 D25** | 8-12.5 | 23-25 | 450 | 50 | 4.700 | **1483793** |
| **BCVPC 8-12,5 D32** | 8-12.5 | 26-32 | 450 | 50 | 4.900 | **1483795** |
| **BCVPC 8-12,5 D40** | 8-12.5 | 33-40 | 450 | 50 | 5.800 | **1483797** |
| **BCVPC 14-20 D20** | 14-20 | 19-22 | 350 | 50 | 4.600 | **1483801** |
| **BCVPC 14-20 D25** | 14-20 | 23-25 | 450 | 50 | 5.200 | **1483803** |
| **BCVPC 14-20 D32** | 14-20 | 26-32 | 450 | 50 | 5.400 | **1483805** |
| **BCVPC 14-20 D40** | 14-20 | 33-40 | 450 | 50 | 6.300 | **1483807** |



Beam clamp for knocking in with closed pipe seat as individual fastening solution on the beam.

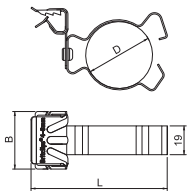


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## Beam clamp, for pipes

St ZL



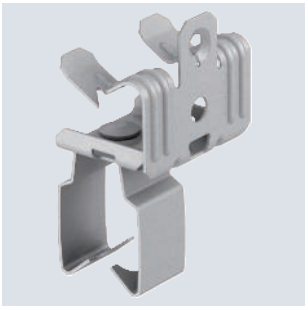


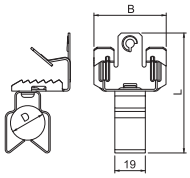

| Type | Flange thickness mm | Clamping range D mm | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **BCHPC 2-4 D20** | 2-4 | 18-24 | 450 | 50 | 2.900 | **1483681** |
| **BCHPC 2-4 D25** | 2-4 | 22-26 | 450 | 50 | 3.200 | **1483683** |
| **BCHPC 2-4 D32** | 2-4 | 30-32 | 450 | 50 | 3.850 | **1483685** |
| **BCHPC 4-8 D20** | 4-8 | 18-24 | 450 | 50 | 3.400 | **1483687** |
| **BCHPC 4-8 D25** | 4-8 | 22-26 | 450 | 50 | 3.600 | **1483689** |
| **BCHPC 4-8 D32** | 4-8 | 30-32 | 450 | 50 | 3.900 | **1483691** |
| **BCHPC 4-8 D40** | 4-8 | 36-40 | 450 | 50 | 4.800 | **1483693** |
| **BCHPC 8-14 D20** | 8-14 | 18-24 | 450 | 50 | 3.800 | **1483701** |
| **BCHPC 8-14 D25** | 8-14 | 22-26 | 450 | 50 | 3.800 | **1483703** |
| **BCHPC 8-14 D32** | 8-14 | 30-32 | 450 | 50 | 4.200 | **1483705** |
| **BCHPC 8-14 D40** | 8-14 | 36-40 | 450 | 50 | 4.500 | **1483707** |
| **BCHPC 14-20 D20** | 14-20 | 18-24 | 450 | 50 | 3.500 | **1483711** |
| **BCHPC 14-20 D25** | 14-20 | 22-26 | 450 | 50 | 4.100 | **1483713** |
| **BCHPC 14-20 D32** | 14-20 | 30-32 | 450 | 50 | 4.700 | **1483715** |
| **BCHPC 14-20 D40** | 14-20 | 36-40 | 450 | 50 | 5.600 | **1483717** |

Beam clamp for knocking in with closed pipe seat as individual fastening solution on the beam.

## Beam clamp, for pipes

St ZL



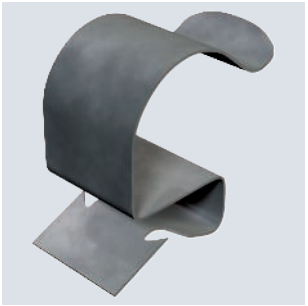


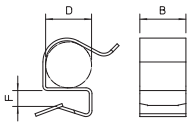

| Type | Flange thickness mm | Pipe size D mm | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **BCVPO 3-7 D20** | 3-7 | 20 | 110 | 50 | 3.400 | **1483751** |
| **BCVPO 3-7 D25** | 3-7 | 25 | 110 | 50 | 3.500 | **1483753** |
| **BCVPO 3-7 D32** | 3-7 | 32 | 110 | 50 | 3.800 | **1483757** |
| **BCVPO 8-12,5 D20** | 8-12.5 | 20 | 110 | 50 | 4.100 | **1483761** |
| **BCVPO 8-12,5 D25** | 8-12.5 | 25 | 110 | 50 | 4.100 | **1483763** |
| **BCVPO 8-12,5 D32** | 8-12.5 | 32 | 110 | 50 | 4.100 | **1483765** |
| **BCVPO 14-20 D20** | 14-20 | 20 | 110 | 50 | 4.000 | **1483771** |
| **BCVPO 14-20 D25** | 14-20 | 25 | 110 | 50 | 4.250 | **1483773** |
| **BCVPO 14-20 D32** | 14-20 | 32 | 110 | 50 | 4.300 | **1483775** |

Beam clamp for knocking in with open pipe seat as individual fastening solution on the beam.

## Beam clamp, for pipes

St ZL






| Type | Flange thickness mm | Clamping range D mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **BCC 2-4 D5,5** | 2-4 | 4.5-5.5 | 100 | 0.400 | **1483901** |
| **BCC 2-4 D7** | 2-4 | 6-7 | 100 | 0.400 | **1483903** |
| **BCC 2-4 D9** | 2-4 | 7-9 | 100 | 0.450 | **1483905** |
| **BCC 2-4 D11** | 2-4 | 10-12 | 100 | 0.500 | **1483907** |
| **BCC 2-4 D14** | 2-4 | 12-14 | 100 | 0.550 | **1483911** |
| **BCC 2-4 D18** | 2-4 | 15-18 | 100 | 0.700 | **1483915** |
| **BCC 2-4 D24** | 2-4 | 19-24 | 100 | 0.800 | **1483919** |
| **BCC 2-4 D30** | 2-4 | 25-30 | 100 | 0.900 | **1483923** |
| **BCC 4-7 D5,5** | 4-7 | 4.5-5.5 | 100 | 0.500 | **1483931** |
| **BCC 4-7 D7** | 4-7 | 6-7 | 100 | 0.550 | **1483933** |
| **BCC 4-7 D9** | 4-7 | 7-9 | 100 | 0.600 | **1483935** |
| **BCC 4-7 D11** | 4-7 | 10-11 | 100 | 0.700 | **1483937** |
| **BCC 4-7 D14** | 4-7 | 12-14 | 100 | 0.700 | **1483941** |
| **BCC 4-7 D18** | 4-7 | 15-18 | 100 | 0.800 | **1483945** |
| **BCC 4-7 D24** | 4-7 | 19-24 | 100 | 0.900 | **1483951** |
| **BCC 4-7 D30** | 4-7 | 25-30 | 100 | 1.100 | **1483955** |
| **BCC 8-12 D5,5** | 8-12 | 4.5-5.5 | 100 | 0.500 | **1483960** |
| **BCC 8-12 D7** | 8-12 | 6-7 | 100 | 0.600 | **1483961** |
| **BCC 8-12 D9** | 8-12 | 7-9 | 100 | 0.700 | **1483963** |
| **BCC 8-12 D11** | 8-12 | 10-11 | 100 | 0.700 | **1483965** |
| **BCC 8-12 D14** | 8-12 | 12-14 | 100 | 0.800 | **1483969** |
| **BCC 8-12 D18** | 8-12 | 15-18 | 100 | 0.900 | **1483973** |
| **BCC 8-12 D24** | 8-12 | 19-24 | 100 | 1.100 | **1483977** |
| **BCC 8-12 D30** | 8-12 | 25-30 | 100 | 1.100 | **1483981** |

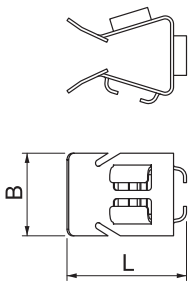
Beam clamp for knocking in for cables as individual fastening solution on the beam.

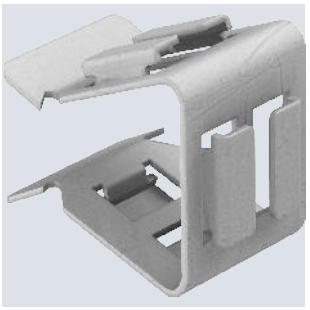
St ZL

## Beam clamp, for pipes

| Type | Flange thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **BCCA** | 12-20 | 100 | 1.700 | **1483999** |

Beam clamp adapter for knocking in. Seat for BCC beam clamps for flange thicknesses of 2–4 mm.



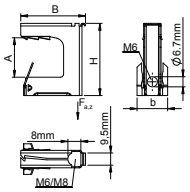



St ZDM

## Beam clamp, multifunctional

| Type | Flange thickness mm | Height mm | Width mm | Dim. A mm | Dim. B mm | Dim. H mm | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|---|---|
| **TK MULTI 8** | 2-8 | 30 | 30 | 8 | 30 | 30 | 1.2 | 100 | 0.100 | **1485140** |
| **TK MULTI 16** | 8-16 | 38 | 32 | 16 | 32 | 38 | 1.2 | 100 | 0.120 | **1485144** |
| **TK MULTI 24** | 16-24 | 48 | 42 | 24 | 42 | 48 | 1.2 | 50 | 0.170 | **1485148** |

The multifunctional beam clamp is suitable for fastening cables, protective pipes and cable sections on steel girders of any size (one clip for every application). Here, the beam clamp is very versatile thanks to various fastening options. Mounting of the beam clamp is quick and efficient, with no need for welding or drilling. It is simply mounted by hammering or pushing into place. The beam clamp can be used in both internal and external areas.



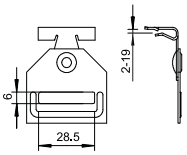



St ZL

## Support clamp, for installation strip

| Type | Flange thickness mm | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **TKR 9** | 5-9 | 0.9 | 100 | 2.400 | **1481711** |

With seat for installation strip.



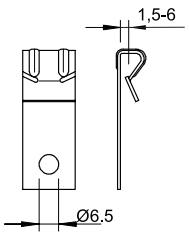



St ZL

## Profile suspensions

| Type | Flange thickness mm | Height mm | Width mm | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **TKL 4** | 1.5-4 | 52 | 10 | 0.72 | 100 | 0.860 | **1485105** |
| **TKL 6** | 4-6 | 54 | 12 | 0.72 | 100 | 1.090 | **1485113** |

Profile suspension with drill hole to accept S hooks.



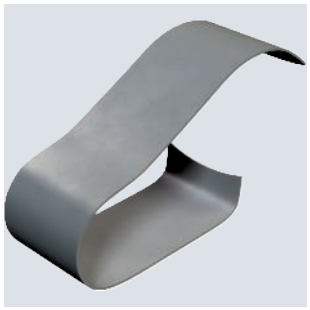


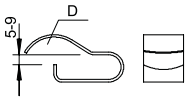



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## Support clip

St ZL






| Type | Flange thickness mm | Pipe size D mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **BCCF 8-9 D20** | 8-9 | 20 | | 100 | 1.100 | **1483985** |

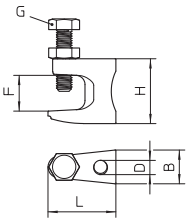
Support clamp for cables of 7–20 mm.

TG

## Screw-in beam clamp, with gland hole

| Type | Flange thickness mm | Height mm | Fastening hole mm | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **FL 1 TG** | 0-18 | 35 | 9 | 1.2 | 50 | 8.500 | **1488015** |
| **FL 2 TG** | 0-20 | 42 | 11 | 2.5 | 50 | 14.000 | **1488023** |
| **FL 3 TG** | 0-26 | 54 | 13 | 3.5 | 25 | 18.000 | **1488031** |

With gland hole.



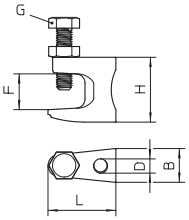



TG

## Screw-in beam clamp, with thread

| Type | Flange thickness mm | Height mm | For threaded rod | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **FL1-G M8 TG** | 0-18 | 35 | M8 | 1.2 | 50 | 8.500 | **1488074** |
| **FL2-G M10 TG** | 0-20 | 42 | M10 | 2.5 | 50 | 14.000 | **1488082** |
| **FL3-G M12 TG** | 0-26 | 54 | M12 | 3.5 | 25 | 22.000 | **1488090** |

With thread.



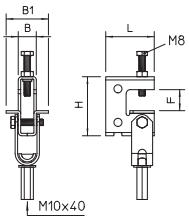



St ZL

## Screw-in beam clamp, with hinge

| Type | Flange thickness mm | For threaded rod | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **TK FL G** | 0-24 | M10 | 2.8 | 10 | 34.000 | **1488111** |

Two-hinge beam clamp for fastening on beams without welding and drilling. The maximum load is dependent on the load direction.



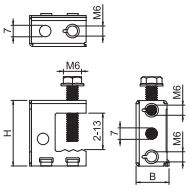



St ZL

## Screw-in beam clamp, universal

| Type | Flange thickness mm | Height mm | Fastening hole mm | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **TK 213** | 2-13 | 35 | 6.5 | 0.55 | 100 | 2.720 | **1484702** |

Various fastening options (horizontal and vertical).





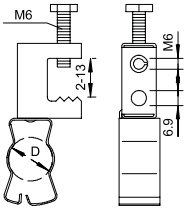



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## Screw-in beam clamp, for pipes and cables

St ZL



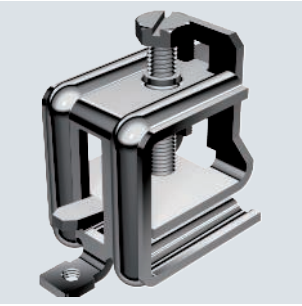


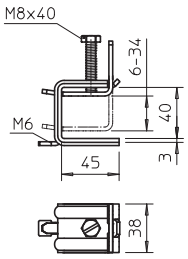

| Type | Flange thickness mm | Clamping range D mm | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **TKS 213-25** | 2-17 | 23-25 | 0.45 | 50 | 3.990 | **1484818** |
| **TKS 213-32** | 2-17 | 26-32 | 0.45 | 50 | 4.170 | **1484826** |
| **TKS 213-42** | 2-17 | 33-40 | 0.45 | 50 | 5.450 | **1484838** |

With rotating clip to accept pipes and cables, lockable.

## Beam clamp for screwing on, light-duty

St G






| Type | Flange thickness mm | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|---|
| **339 2** | 6-34 | 5 | 37.000 | **1408534** |

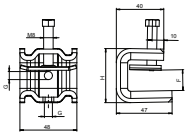
For rapid fastening on steel profiles during the mounting of cable tracks, clamp clips, luminaire suspensions, etc. A complete system consists of two beam clamps and a piece of C profile rail of any length, as well as two end caps.

## Beam clamp SSP 6-21

St FT

CE



| Type | Flange thickness mm | For threaded rod | Breaking load F1 kN | Breaking load F2 kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **SSP 6-21 M6 FT** | 6-21 | M6 | 1.75 | 1.5 | 25 | 23.900 | **1486232** |
| **SSP 6-21 M8 FT** | 6-21 | M8 | 1.75 | 1.5 | 25 | 23.900 | **1486282** |

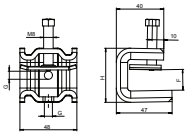
This type of beam clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.

## Beam clamp SSP 6-21

A2 VA A2 2B

CE



| Type | Flange thickness mm | For threaded rod | Breaking load F1 kN | Breaking load F2 kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **SSP 6-21 M6 A2** | 6-21 | M6 | 1.75 | 1.5 | 25 | 23.200 | **1486234** |
| **SSP 6-21 M6 A4** | 6-21 | M6 | 1.75 | 1.5 | 25 | 23.200 | **1486236** |
| **SSP 6-21 M8 A2** | 6-21 | M8 | 1.75 | 1.5 | 25 | 23.200 | **1486284** |
| **SSP 6-21 M8 A4** | 6-21 | M8 | 1.75 | 1.5 | 25 | 23.200 | **1486286** |

This type of beam clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.

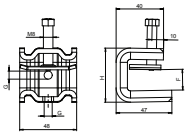
St FT

CE

## Beam clamp SSP 20-40

| Type | Flange thickness mm | For threaded rod | Breaking load F1 kN | Breaking load F2 kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **SSP 20-40 M6 FT** | 20-40 | M6 | 1.4 | 1.3 | 25 | 27.700 | **1486238** |
| **SSP 20-40 M8 FT** | 20-40 | M8 | 1.4 | 1.3 | 25 | 27.800 | **1486288** |

This type of beam clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.





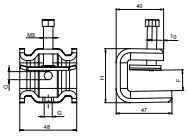
A2 VA A2 2B

CE

## Beam clamp SSP 20-40

| Type | Flange thickness mm | For threaded rod | Breaking load F1 kN | Breaking load F2 kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **SSP 20-40 M6 A2** | 20-40 | M6 | 1.4 | 1.3 | 25 | 27.700 | **1486242** |
| **SSP 20-40 M6 A4** | 20-40 | M6 | 1.4 | 1.3 | 25 | 27.700 | **1486244** |
| **SSP 20-40 M8 A2** | 20-40 | M8 | 1.4 | 1.3 | 25 | 27.800 | **1486292** |
| **SSP 20-40 M8 A4** | 20-40 | M8 | 1.4 | 1.3 | 25 | 27.800 | **1486294** |

This type of beam clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.



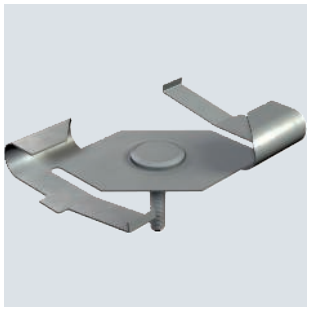


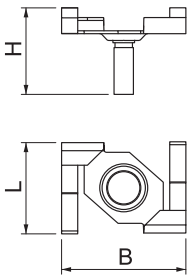


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## Ceiling profile clamp - CPC

St ZL



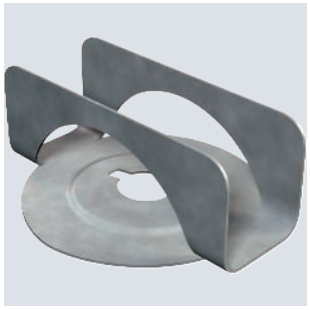


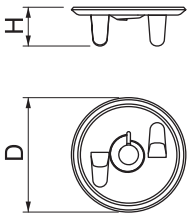

| Type | Thread | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **CPC M6x11** | M6 x 11 mm | 220 | 100 | 1.000 | **1483991** |
| **CPC M6x16** | M6 x 16 mm | 220 | 100 | 1.150 | **1483993** |
| **CPC M6x25** | M6 x 25 mm | 220 | 100 | 1.250 | **1483995** |

Ceiling profile clamp with threaded bolt

## Locknut - CPCN

St ZL





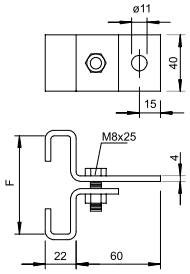

| Type | Thread | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **CPCN M6** | M6 | 220 | 100 | 0.650 | **1483997** |

Locknut for CPC ceiling profile clamp

## Beam clamp

St FT



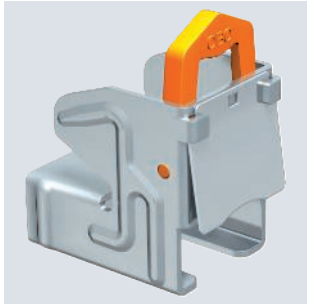


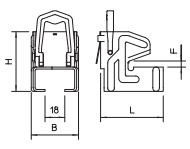

| Type | Flange thickness mm | Height mm | Fastening hole mm | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **325 70 FT** | 70 | 60 | 11 | 10 | 25 | 27.900 | **5327075** |
| **325 80 FT** | 80 | 60 | 11 | 6 | 25 | 32.000 | **5327083** |
| **325 100 FT** | 100 | 60 | 11 | 6 | 25 | 33.500 | **5327105** |
| **325 130 FT** | 130 | 60 | 11 | 6 | 25 | 36.500 | **5327121** |

The two brackets are clamped to the flange.
For individual component suspension.

## Beam clamp, for profile rail CM3518

St ZL






| Type | Flange thickness mm | Height mm | Width mm | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **328 1** | 5 - 11 | 54.3 | 39.5 | 57 | 50 | 10.800 | **1408011** |
| **328 2** | 10 - 19 | 54.3 | 39.5 | 67 | 50 | 12.500 | **1408046** |

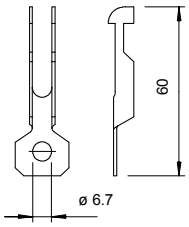
Screwless rustproof coated beam clamp, with blocking spring, suitable for profile rail, type CML3518 and CMS3518. For rapid fastening to steel profiles when installing cable tracks, clamp clips, light mounts, etc. A complete system consists of 2 beam clamps and one piece of C profile rail of any length, and 2 end caps.

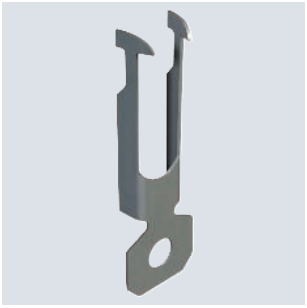
St ZL

## Profile ceiling suspensions

| Type | Height mm | Fastening hole mm | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| TKT | 60 | 6.7 | 0.45 | 100 | 0.900 | 1486861 |

Push-through fastening, with opening to accept S hooks or bolt and nut.

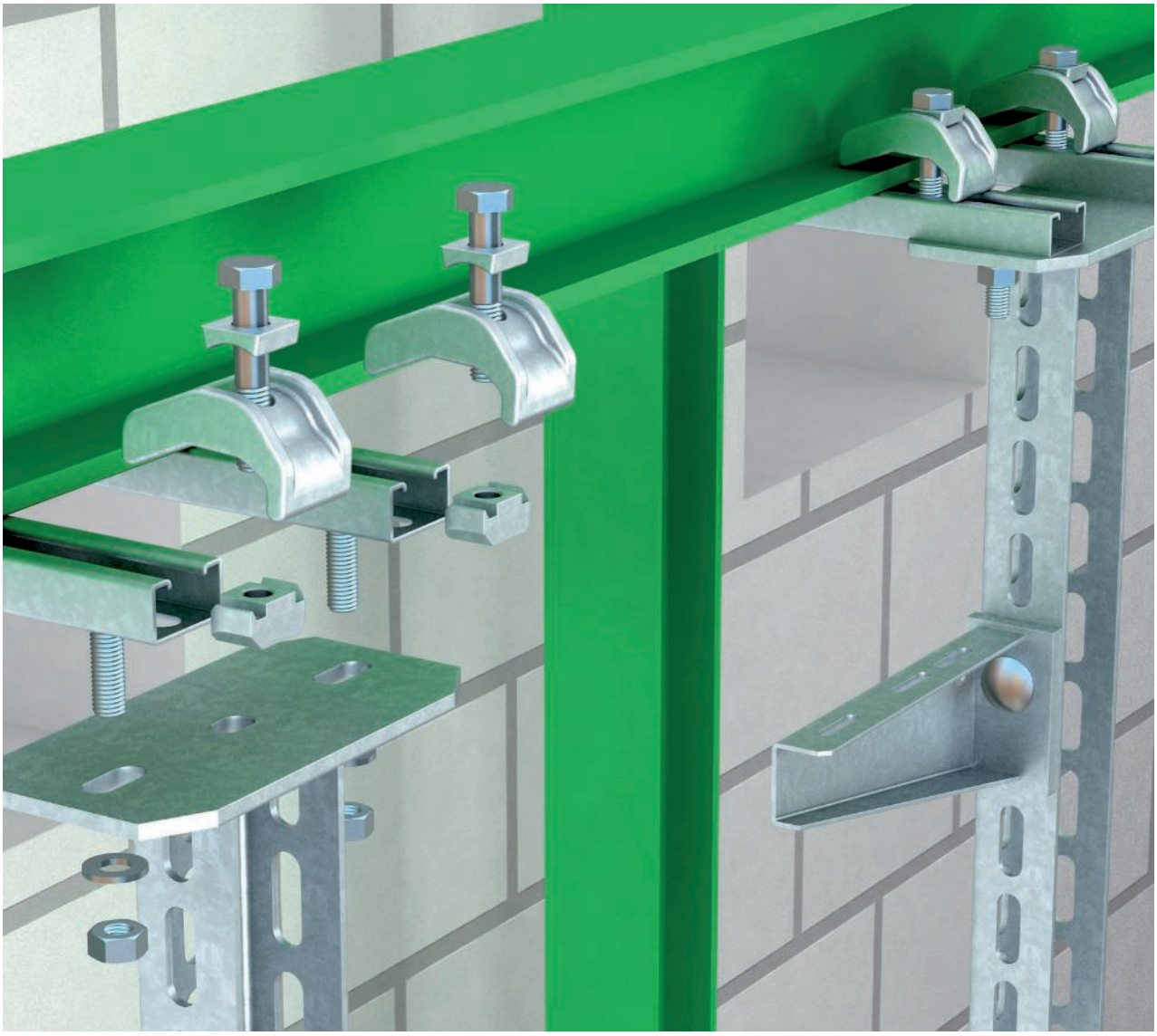




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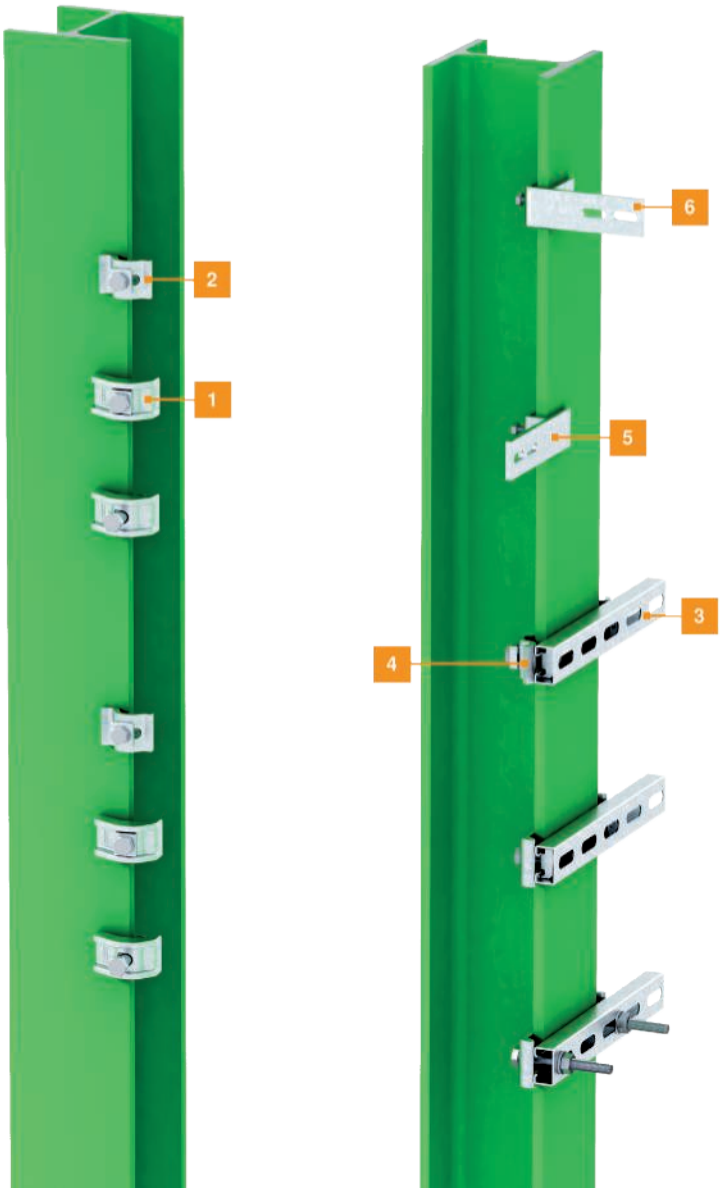
# System description



The beam clamp systems with reduced installation times and work are a clear argument for the use of this system in all areas of professional electrical installations. The beam clamp can be attached without difficult, often unpermitted, drilling. The load range runs from light-duty clamping angles to heavy-duty chuck jaws. The clamping lugs/clamping angles, type KL, KWH and KWS, and the chuck jaws, type TKH and TKS, permit excellent connections without drilling or welding, on account of the perfect matching to additional system articles.

# Installation principle






| | |
|---|---|
| 1 | Chuck jaw, heavy duty |
| 2 | Chuck jaw, light duty |
| 3 | Profile rail |
| 4 | Clamping angle |
| 5 | Beam clamp, horizontal |
| 6 | Beam clamp, vertical |



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# Mounting aid



**Application on horizontal steel girder**
Clamp fastenings using clamping angles and chuck jaws on horizontal steel girders.



**Application on sloping steel girder**
Clamp fastenings using clamping angles and chuck jaws on sloping steel girders.



**Steel clamping, C profile rail**
Fastening of a C profile, type MS 4022 or MS 5030, to steel girder using clamping angles, type KWS.



**Direct girder clamping**
Direct girder clamping of an I suspended support using chuck jaw (heavy duty), type TKS-S-30. Route along steel girder.



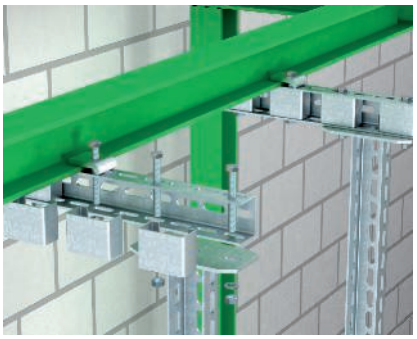
**Clamp fastening with addition C profile**
Use of an additional C profile rail, type MS, for wider steel girders. Route along steel girder.



**Clamping transverse to steel girder**
Use with two C profile rails for tray mounting transverse to the steel girder.



**Cantilever beam on steel**
Installation of U support as cantilever beam on steel girder. Fastening with clamping angles or chuck jaws depending on load. Fastening with spacers, type DSK.



**Cantilever beam with support**
Cantilever beams made of U support construction clamped to steel girder for installing supports.



**Clamp fastening on vertical steel girder**
Mounting of the adapter plate, type KA-AW, on the vertical steel girder using clamping angles or chuck jaws. Wall brackets of type AW are fastened to the adapter plate, using the hexagon head screw SKS 12x40 GF.



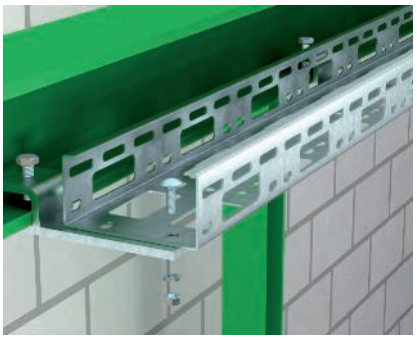
**45° adapter plate, steel clamping**
Mounting of the 45° adapter plate, type KA-E 45, on the steel girder using clamping angles or chuck jaws. For additional support of routes in angles and at room corners.



**Vertical clamp fastening**
Clamp fastening of a heavy-duty bracket with clamping angles or clamping lugs on a vertical steel girder.



**Vertical clamp fastening**
Installation of a mesh cable tray vertically on a steel girder, mounting with a beam clamp BFK and clamp GKS 50.



**Horizontal clamp fastening**
Installation of AZ small duct using BFK beam clamp in a longitudinal direction on the steel girder. Maximum cable tray width 100 mm.

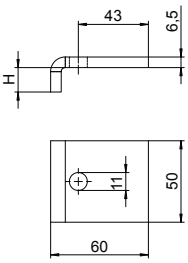


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## Clamping angle KL

St FT



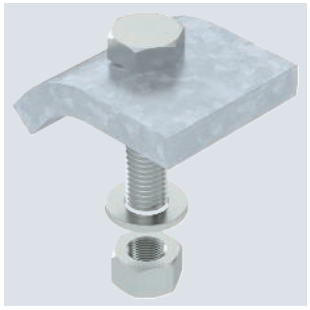


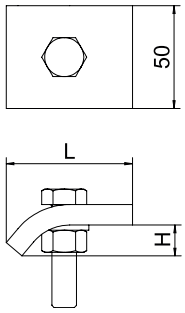

| Type | Height mm | Bolt | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **KL1 10 S FT** | 10 | M10x40 | 10 | 22.100 | **6354106** |
| **KL1 15 S FT** | 15 | M10x50 | 10 | 23.400 | **6354114** |
| **KL1 20 S FT** | 20 | M10x50 | 10 | 25.000 | **6354122** |

Clamping angle, type KL1, to fasten light support structures to steel girder flanges.
Choose the clamping lug according to the thickness of the flange.

## Clamping angle KWS

St FT



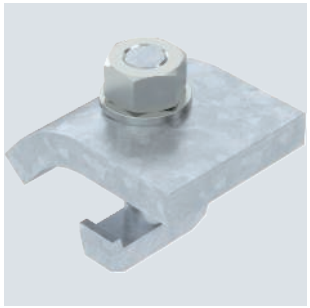


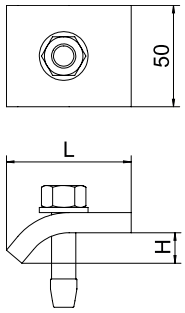

| Type | F in kN kN | Bolt | Dim. H mm | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|---|---|---|
| **KWS 5 FT** | 5.7 | M12x40 | 5 | 10 | 64.000 | **6355218** |
| **KWS 10 FT** | 5.7 | M12x50 | 10 | 10 | 70.000 | **6355226** |
| **KWS 15 FT** | 5.7 | M12x50 | 15 | 10 | 65.200 | **6355234** |
| **KWS 20 FT** | 5.7 | M12x60 | 20 | 10 | 79.000 | **6355242** |
| **KWS 25 FT** | 5.7 | M12x60 | 25 | 10 | 80.000 | **6355250** |

Clamping angle, with hexagonal bolt, type KWS, for direct fixing of constructions to steel girder flanges.
Choose the clamping angle according to the thickness of the flange.

## Clamping angle KWH

St FT





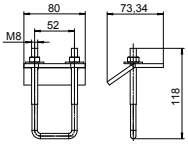

| Type | Height mm | F in kN kN | Bolt | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|---|---|---|
| **KWH 5 FT** | 5 | 5.7 | M12x40 | 10 | 67.000 | **6355021** |
| **KWH 10 FT** | 10 | 5.7 | M12x50 | 10 | 73.000 | **6355048** |
| **KWH 15 FT** | 15 | 5.7 | M12x50 | 10 | 76.000 | **6355056** |
| **KWH 20 FT** | 20 | 5.7 | M12x60 | 10 | 82.000 | **6355064** |
| **KWH 25 FT** | 25 | 5.7 | M12x60 | 10 | 87.000 | **6355072** |

Clamping angle, with hook-head bolt, type KWH, for fastening in the mounting rail, type MS5030.
Adapt the clamping angle to the material thickness of the flange.
The clamping angle is used in conjunction with profile rails of slot width 22 mm.

## Clamp

St FT






| Type | Length mm | Width mm | Height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **SB MS 41 M8 FT** | 118 | 80 | 74 | 20 | 32.300 | **1124679** |

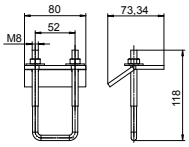
Connection element for two-sided fastening of profile rails to steel girders. Fastening is possible independently of the arrangement of the rail opening. The rail length should be at least the width of the steel girder + 2 x 50 mm. Always use in pairs for mounting. For use with profile rail MS4022, MS4141, MS4142, MS4124.

A4

## Clamp

| Type | Length mm | Width mm | Height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **SB MS 41 M8 A4** | 118 | 80 | 74 | 20 | 32.300 | **1124719** |

Connection element for two-sided fastening of profile rails to steel girders. Fastening is possible independently of the arrangement of the rail opening. The rail length should be at least the width of the steel girder + 2 x 50 mm. Always use in pairs for mounting. For use with profile rail MS4022, MS4141, MS4142, MS4124.





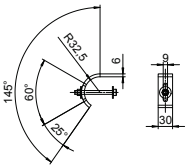

A2

## Chuck jaw, light-duty TKS

| Type | Height mm | Bolt | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **TKS-L36 M8 A2** | 36 | M8x80 | 10 | 50 | 16.000 | **6355834** |

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.

The clamping range of the chuck jaw is limited to the maximum fastening thickness of 36 mm.





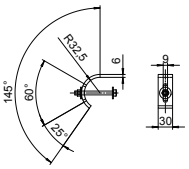

A4

## Chuck jaw, light-duty TKS

| Type | Height mm | Bolt | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **TKS-L36 M8 A4** | 36 | M8x80 | 10 | 1 | 16.000 | **6355835** |

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.

The clamping range of the chuck jaw is limited to the maximum fastening thickness of 36 mm.





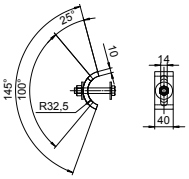

A2

## Chuck jaw, light duty TKS

| Type | Height mm | Bolt | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **TKS-L36 M12 A2** | 36 | M12x80 | 10 | 25 | 36.000 | **6355836** |

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.

The clamping range of the chuck jaw is limited to the maximum fastening thickness of 36 mm.





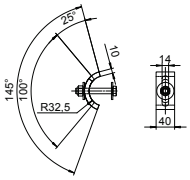



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## Chuck jaw, light-duty TKS

A4



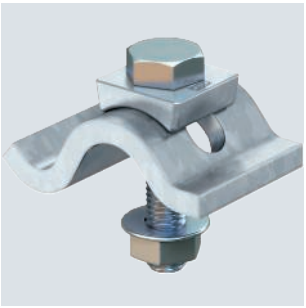


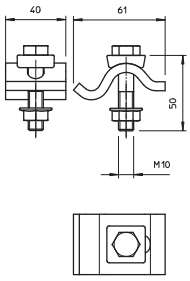

| Type | Height mm | Bolt | F in kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **TKS-L36 M12 A4** | 36 | M12x80 | 10 | 1 | 36.000 | **6355837** |

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness of 36 mm.

## Chuck jaw, light duty TKS

St FT





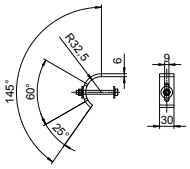

| Type | Height mm | F in kN | Bolt | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|---|---|---|
| **TKS-L-25 FT** | 25 | 10 | M10x50 | 10 | 39.200 | **6355808** |

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm.

## Chuck jaw, light-duty TKS

St FT





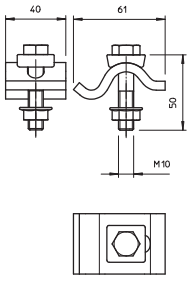

| Type | Height mm | Bolt | F in kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **TKS-L-36 M8 FT** | 36 | M8x80 | 10 | 50 | 16.000 | **6355828** |

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness of 36 mm.

## Chuck jaw, light-duty TKS

St FT






| Type | Height mm | Bolt | F in kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **TKS-L-36 M12 FT** | 36 | M12x80 | 10 | 25 | 36.000 | **6355829** |

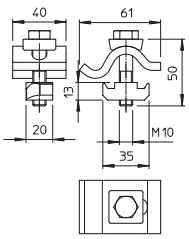
Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm.

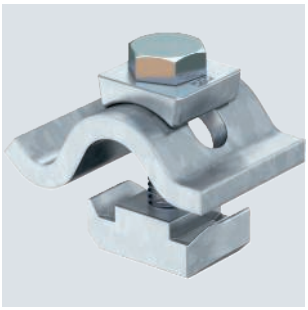
St FT

## Chuck jaw, light duty TKH

| Type | Height mm | F in kN kN | Bolt | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|---|---|---|
| **TKH-L-25 FT** | 25 | 10 | M10x25 | 10 | 46.000 | **6355812** |

Light-duty chuck jaw with slide nut for fixing profile rails to steel girder flanges.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm.
The chuck jaw is used in combination with profile rails of slot widths 18 mm and 22 mm.



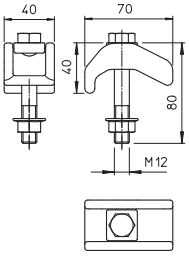



St ZL

## Chuck jaw, heavy duty TKS

| Type | Height mm | F in kN kN | Bolt | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|---|---|---|
| **TKS-S-30 ZL** | 30 | 21 | M12x75 | 10 | 82.800 | **6355798** |

Heavy-duty chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 30 mm.



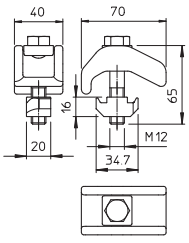


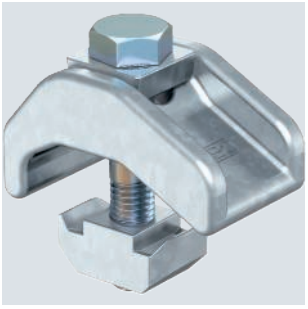

St ZL

## Chuck jaw, heavy duty TKH

| Type | Height mm | F in kN kN | Bolt | Pack Pair | Weight kg/100 pairs | Item no. |
|---|---|---|---|---|---|---|
| **TKH-S-30 ZL** | 30 | 21 | M12x65 | 10 | 88.600 | **6355805** |

Heavy-duty chuck jaw with slide nut for fastening profile rails to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 30 mm.
The chuck jaw is used in combination with profile rails of slot width 22 mm.



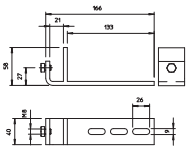



St FT

## Beam clamp, vertical BFK 166

| Type | Width mm | Dim. b mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **BFK 166 58 20 FT** | 166 | 133 | 10 | 45.000 | **6003888** |

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs vertically.





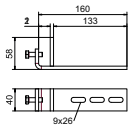


Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Beam clamp, vertical BFK 166

A2 2B



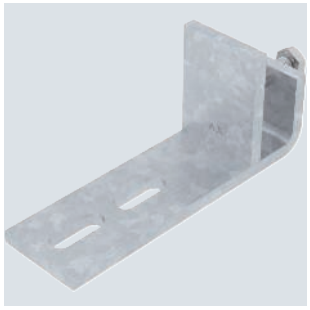


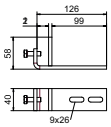

| Type | Width mm | Dim. b mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **BFK 166 58 20 A2** | 166 | 133 | 10 | 46.000 | **6003877** |

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs vertically.

## Beam clamp, vertical BFK 132

St FT





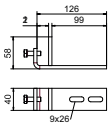

| Type | Width mm | Dim. b mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **BFK 132 58 FT** | 132 | 99 | 10 | 39.000 | **6003880** |

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs vertically.

## Beam clamp, vertical BFK 132

A2 2B





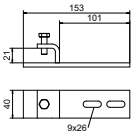

| Type | Width mm | Dim. b mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **BFK 132 58 A2** | 132 | 99 | 10 | 38.000 | **6003871** |

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs vertically.

## Beam clamp, horizontal BFK 153

St FT






| Type | Width mm | Dim. b mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **BFK 153 33 FT** | 153 | 101 | 10 | 37.000 | **6003884** |

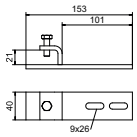
Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.

A2 2B

## Beam clamp, horizontal BFK 153

| Type | Width mm | Dim. b mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **BFK 153 33 A2** | 153 | 101 | 10 | 37.200 | **6003873** |

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.



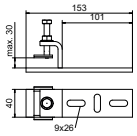



St FT

## Beam clamp with pressure plate, horizontal BFK 153

| Type | Width mm | Dim. b mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **BFKD 153 44 FT** | 153 | 101 | 10 | 41.400 | **6003885** |

Beam clamp with pressure plate for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.



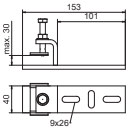



A2 2B

## Beam clamp with pressure plate, horizontal BFK 153

| Type | Width mm | Dim. b mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **BFKD 153 44 A2** | 153 | 101 | 10 | 42.400 | **6003887** |

Beam clamp with pressure plate for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.



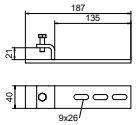


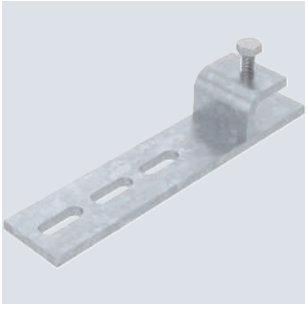

St FT

## Beam clamp, horizontal BFK 187

| Type | Width mm | Dim. b mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **BFK 187 33 FT** | 187 | 135 | 10 | 43.000 | **6003892** |

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.



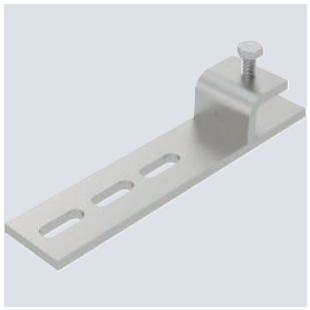



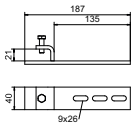


Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Beam clamp, horizontal BFK 187

A2 2B



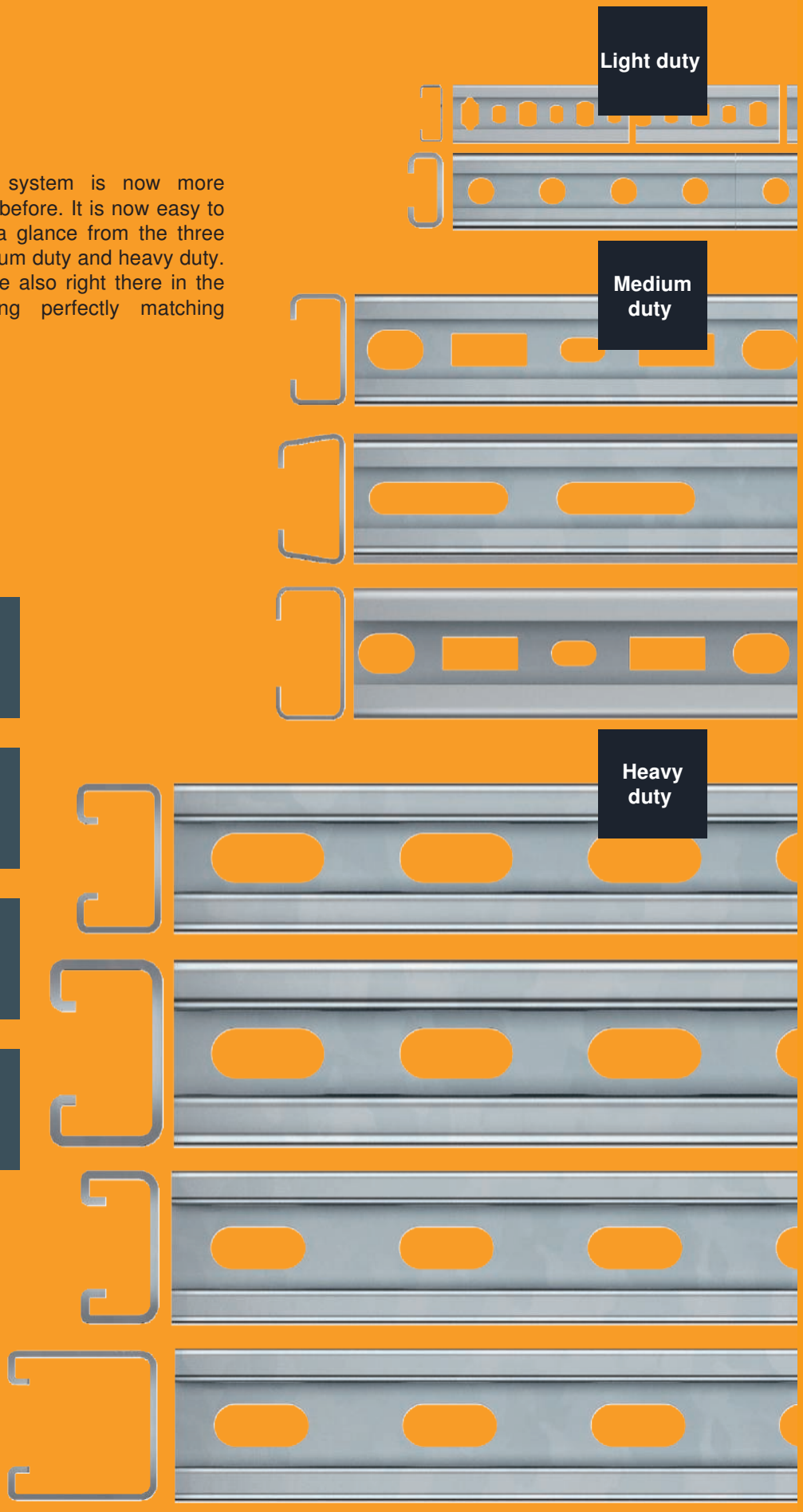



| Type | Width mm | Dim. b mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **BFK 187 33 A2** | 187 | 135 | | 10 | 42.000 | **6003879** |

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.

# Rail systems from OBO

OBO's tried-and-tested rail system is now more logically structured than ever before. It is now easy to choose the right product at a glance from the three load classes: Light duty, medium duty and heavy duty. The matching accessories are also right there in the selection aids. So choosing perfectly matching products is simply a breeze.




**Highly versatile**

**Different perforation patterns**

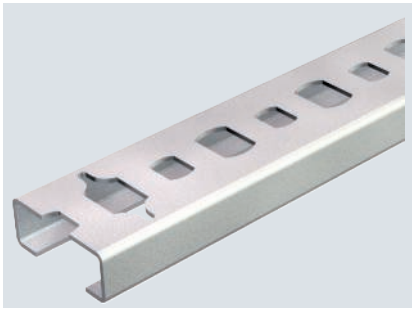
**Strip galvanised and hot-dip galvanised**

**Stainless steel grades V2A and V4A**



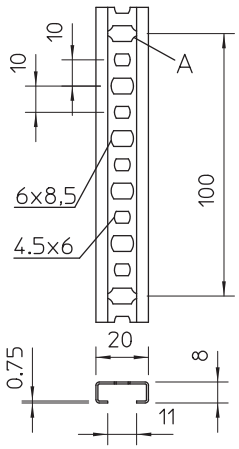
Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## CL2008 profile rail, slot 11 mm, perforated, breakable

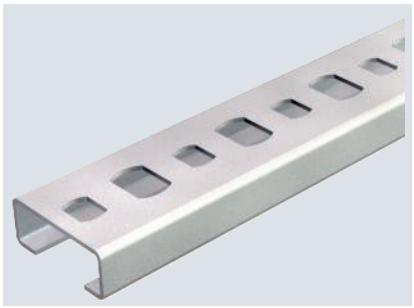


Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **CL2008BP2000FS** | 2000 | 0.75 | 2 | 21.100 | **1106120** |

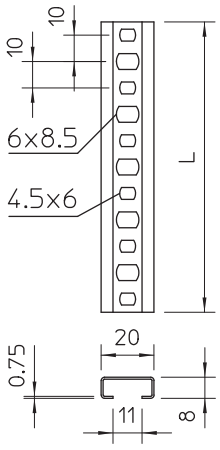



## CL2008 profile rail, slot 11 mm, perforated



Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

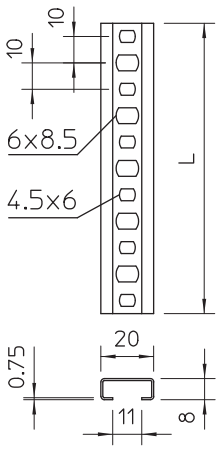
| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **CL2008P2000FS** | 2000 | 0.75 | 2 | 20.000 | **1106627** |
| **CL2008BP2000BK** | 2000 | 0.75 | 2 | 20.000 | **1106023** |
| **CL2008BP2000FS** | 2000 | 0.75 | 2 | 21.100 | **1106120** |
| **CL2008BP1000FS** | 1000 | 0.75 | 10 | 21.500 | **1105906** |



A2 2B

## CL2008 profile rail, slot 11 mm, perforated

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **CL2008P2000A2** | 2000 | 0.75 | 2 | 21.400 | **1106628** |



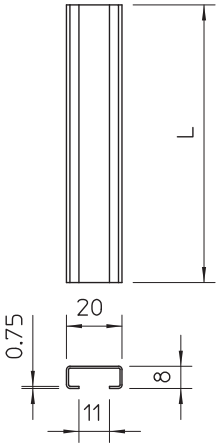


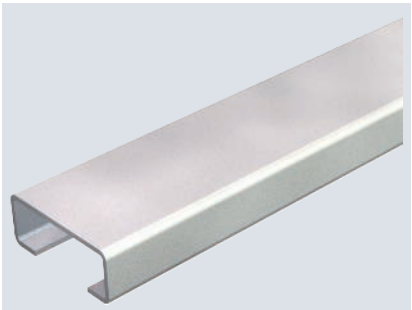

Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

St FS

## CL2008 profile rail, slot 11 mm, unperforated

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **CL2008UP2000FS** | 2000 | 0.75 | 2 | 20.000 | **1105124** |



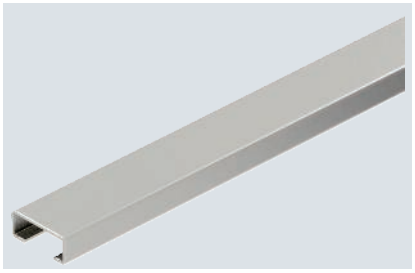



Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

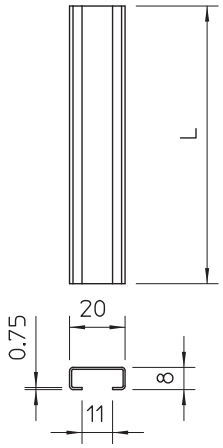
## CL2008 profile rail, slot 11 mm, unperforated



| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **CL2008UP2000A2** | 2000 | 0.75 | 2 | 23.550 | **1105125** |

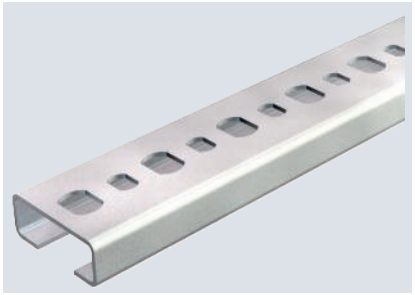
Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

**Dimensions**



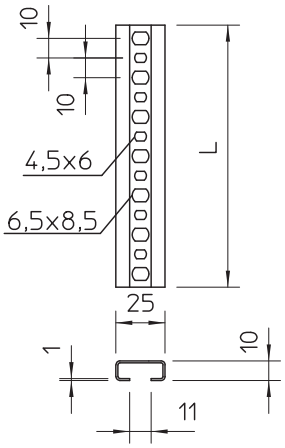

| Type | Dimension W x H mm | Dim. L mm |
|---|---|---|
| CL2008UP2000A2 | 20 x 8 | 2000 |

## CL2510 profile rail, slot 11 mm, perforated



| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **CL2510P2000FS** | 2000 | 1 | 2 | 36.800 | **1108123** |

Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

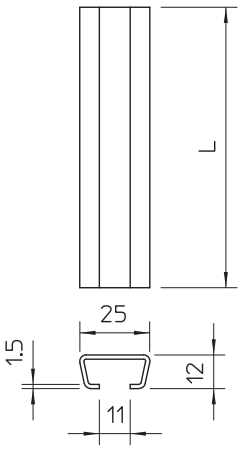


St FS

11 N

## Profile rail CL2512, slot 11 mm, unperforated

| Type | Length mm | Material thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **CL2512UP2000FS** | 2000 | 1.5 | | 2 | 58.300 | **1117033** |






Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

St A2 FS FT

11 N

## Profile rail CL2512, slot 11 mm, unperforated

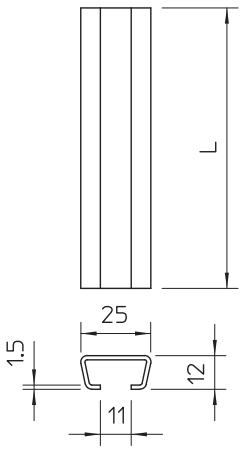
| Type | Length mm | Material thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **CL2512UP2000FT** | 2000 | 1.5 | | 2 | 65.000 | **1117025** |
| **CL2512UP2000FS** | 2000 | 1.5 | | 2 | 58.300 | **1117033** |
| **CL2512UP2000A2** | 2000 | 1.5 | | 2 | 58.300 | **1117068** |



Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

| Type | Dimension W x H mm | Dim. L mm |
|---|---|---|
| CL2512UP2000FT | 25 x 12 | 2000 |
| CL2512UP2000FS | 25 x 12 | 2000 |
| CL2512UP2000A2 | 25 x 12 | 2000 |

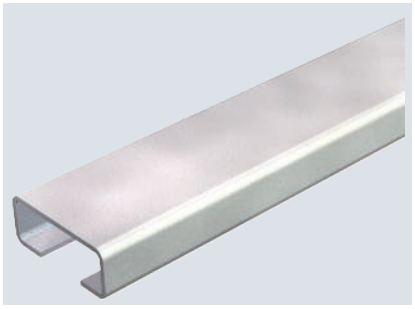
**Dimensions**





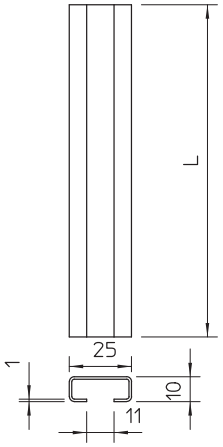

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## CL2510 profile rail, slot 11 mm, unperforated



Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **CL2510UP2000FS** | 2000 | 1 | 2 | 36.000 | **1107127** |
| **CL2510UP2000BK** | 2000 | 1 | 2 | 36.000 | **1107038** |

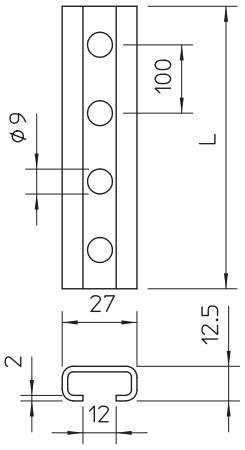



## CL2712 profile rail, slot 12 mm, perforated



Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **CL2712P2000FS** | 2000 | 2 | 2 | 85.000 | **1109525** |
| **CL2712P2000FT** | 2000 | 2 | 2 | 89.500 | **1109529** |

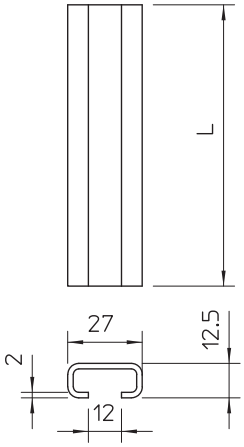


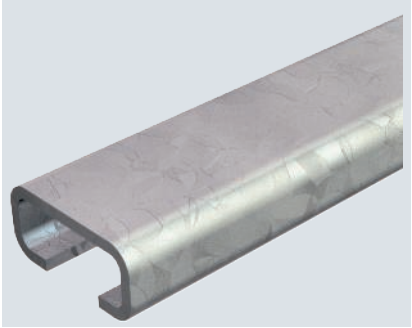
St BK FT

12 N

## Profile rail CL2712, slot 12 mm, unperforated

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| CL2712UP2000FT | 2000 | 2 | 2 | 90.000 | 1109022 |
| CL2712UP2000BK | 2000 | 2 | 2 | 90.000 | 1109014 |



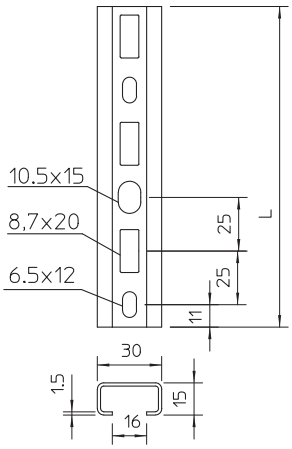
Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

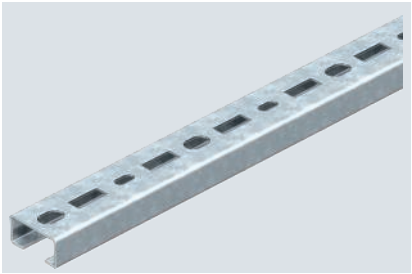
St FS FT

16 H

## CM3015 profile rail, slot 16 mm, perforated

| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| CM3015P0200FT | 200 | 1.5 | 25 | 15.000 | 1109782 |
| CM3015P0300FT | 300 | 1.5 | 25 | 22.000 | 1109790 |
| CM3015P0400FT | 400 | 1.5 | 10 | 30.000 | 1109804 |
| CM3015P0500FT | 500 | 1.5 | 10 | 37.000 | 1109812 |
| CM3015P0600FT | 600 | 1.5 | 10 | 44.000 | 1109820 |
| CM3015P0700FT | 700 | 1.5 | 10 | 50.000 | 1109839 |
| CM3015P0800FT | 800 | 1.5 | 10 | 56.000 | 1109847 |
| CM3015P1000FT | 1000 | 1.5 | 10 | 73.000 | 1109863 |
| CM3015P2000FT | 2000 | 1.5 | 2 | 73.000 | 1109871 |
| CM3015P2000FS | 2000 | 1.5 | 2 | 69.000 | 1110002 |



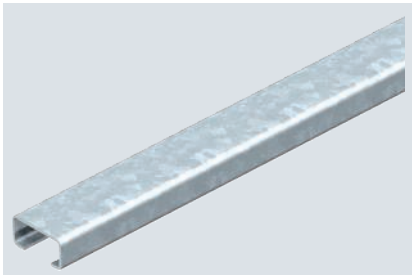



Profile rail, perforated, slot width 16 mm.



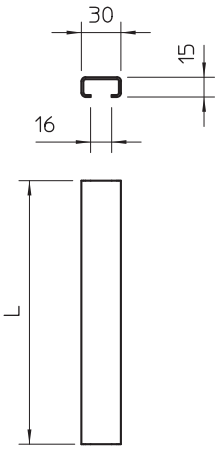
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## CM3015 profile rail, slot 16 mm, unperforated

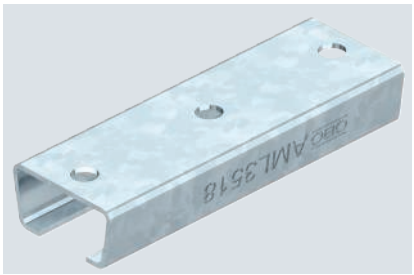


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **CM3015UP2000FS** | 2000 | 1.5 | 2 | 75.500 | **1110004** |



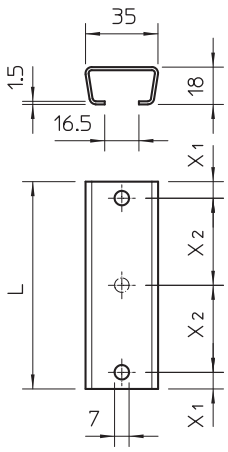

## AML3518P anchor rail, slot 16.5 mm, round-perforated



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **AML3518P0200SOFT** | 200 | 1.5 | 50 | 17.700 | **1119826** |
| **AML3518P0100SOFT** | 100 | 1.5 | 100 | 9.300 | **1119834** |

### Dimensions



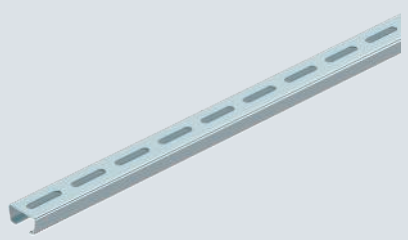

| Type | Dimension W x H mm | Dim. L mm |
|---|---|---|
| AML3518P0200SOFT | 35 x 18 | 200 |
| AML3518P0100SOFT | 35 x 18 | 100 |

St FS FT

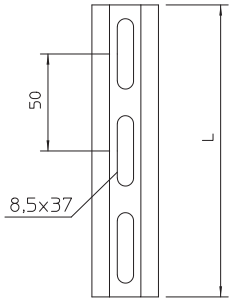
16,5 H

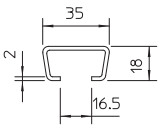
## Anchor rail AML3518, slot width 16.5 mm, perforated

| Type | Length mm | Material thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **AML3518P1000FS** | 1000 | 1.5 | | 1 | 82.000 | **1119646** |
| **AMS3518P1000FS** | 1000 | 2 | | 1 | 115.000 | **1112735** |
| **AML3518P2000FS** | 2000 | 1.5 | | 2 | 82.500 | **1119648** |
| **AML3518P1000FT** | 1000 | 1.5 | | 10 | 89.000 | **1119672** |
| **AML3518P2000FT** | 2000 | 1.5 | | 2 | 89.000 | **1119656** |
| **AMS3518P1000FT** | 1000 | 2 | | 1 | 122.000 | **1112755** |



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.



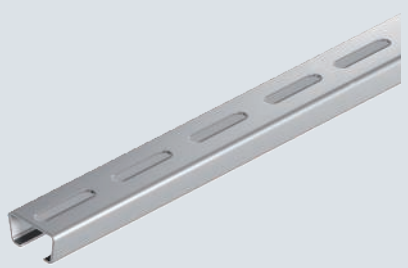




A2 2B

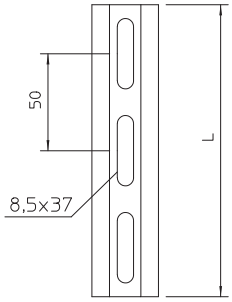
16,5 H

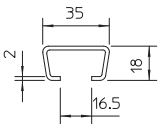
## AML3518 anchor rail, slot 16.5 mm, perforated

| Type | Length mm | Material thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **AML3518P1000A2** | 1000 | 1.5 | | 1 | 82.000 | **1119700** |
| **AML3518P2000A2** | 2000 | 1.5 | | 2 | 82.000 | **1119702** |
| **AML3518P6000A2** | 6000 | 1.5 | | 6 | 80.000 | **1119729** |



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

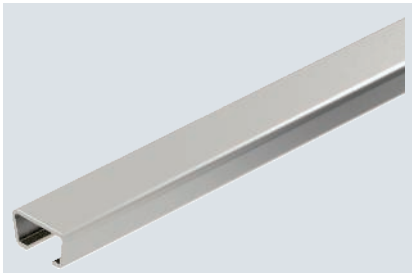





Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

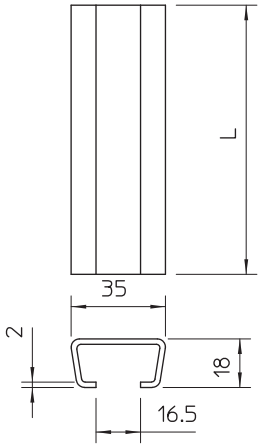
## AML3518 anchor rail, slot 16.5 mm, unperforated



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **AML3518UP2000A2** | 2000 | 1.5 | 2 | 90.000 | **1112007** |
| **AML3518UP2000A2** | 2000 | 2 | 2 | 116.000 | **1110005** |

### Dimensions



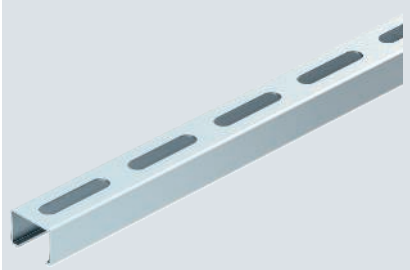

| Type | Dimension W x H mm | Dim. L mm |
|---|---|---|
| AML3518UP2000A2 | 35 x 18 | 2000 |
| AML3518UP2000A2 | 35 x 18 | 2000 |

St FS

16-17 H

## Profile rail CL2518, slot 17 mm, perforated

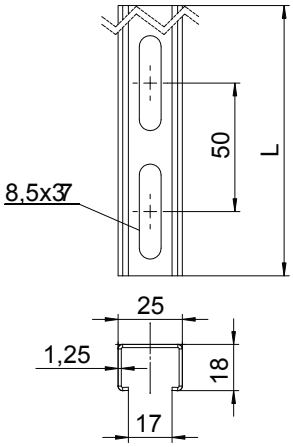
| Type | Length mm | Material thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **C2518** | 2000 | 1.25 | | 2 | 55.000 | **1111640** |



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

| Type | Dimension W x H mm | Dim. L mm |
|---|---|---|
| C2518 | 25 x 18 | 2000 |

**Dimensions**






Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

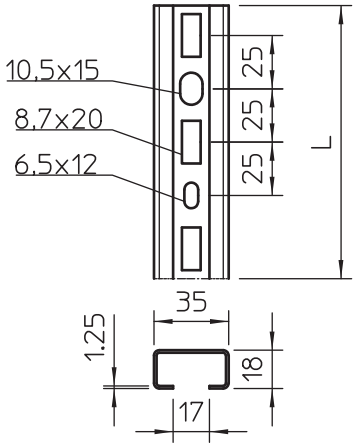
## CML3518 profile rail, slot 17 mm, perforated

St FS FT
17 H E30 E90



Light-duty profile rail, perforated, slot width 17 mm.

| Type | Length mm | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **CML3518P0150FS** | 150 | 1.25 | | 25 | 10.600 | **1104241** |
| **CML3518P0200FS** | 200 | 1.25 | | 25 | 14.200 | **1104268** |
| **CML3518P0300FS** | 300 | 1.25 | | 25 | 21.300 | **1104284** |
| **CML3518P0400FS** | 400 | 1.25 | | 10 | 28.400 | **1104292** |
| **CML3518P0500FS** | 500 | 1.25 | | 10 | 35.500 | **1104306** |
| **CML3518P0600FS** | 600 | 1.25 | | 10 | 42.600 | **1104310** |
| **CML3518P0700FS** | 700 | 1.25 | | 10 | 49.700 | **1104315** |
| **CML3518P0800FS** | 800 | 1.25 | | 10 | 56.800 | **1104320** |
| **CML3518P0900FS** | 900 | 1.25 | | 10 | 63.900 | **1104325** |
| **CML3518P0150FT** | 150 | 1.25 | | 25 | 11.400 | **1104550** |
| **CML3518P0200FT** | 200 | 1.25 | | 25 | 15.300 | **1104552** |
| **CML3518P0300FT** | 300 | 1.25 | | 25 | 22.900 | **1104554** |
| **CML3518P0400FT** | 400 | 1.25 | | 10 | 30.500 | **1104556** |
| **CML3518P0500FT** | 500 | 1.25 | | 10 | 38.200 | **1104558** |
| **CML3518P0600FT** | 600 | 1.25 | | 10 | 45.800 | **1104560** |
| **CML3518P0700FT** | 700 | 1.25 | | 10 | 53.400 | **1104562** |
| **CML3518P0800FT** | 800 | 1.25 | | 10 | 61.100 | **1104564** |
| **CML3518P0900FT** | 900 | 1.25 | | 10 | 68.700 | **1104566** |



St FS FT

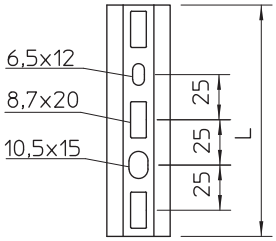
17 H E30 E90

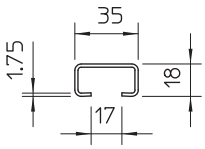
## CMS3518 profile rail, slot 17 mm, perforated

| Type | Length mm | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **CMS3518P0150FS** | 150 | 1.75 | | 25 | 14.670 | **1104349** |
| **CMS3518P0200FS** | 200 | 1.75 | | 25 | 19.560 | **1104357** |
| **CMS3518P0300FS** | 300 | 1.75 | | 25 | 29.340 | **1104373** |
| **CMS3518P0400FS** | 400 | 1.75 | | 10 | 39.120 | **1104391** |
| **CMS3518P0900FS** | 900 | 1.75 | | 10 | 88.020 | **1104435** |
| **CMS3518P0500FS** | 500 | 1.75 | | 10 | 48.900 | **1104403** |
| **CMS3518P0600FS** | 600 | 1.75 | | 10 | 58.680 | **1104411** |
| **CMS3518P0700FS** | 700 | 1.75 | | 10 | 68.460 | **1104422** |
| **CMS3518P0800FS** | 800 | 1.75 | | 10 | 78.240 | **1104427** |
| **CMS3518P0150FT** | 150 | 1.75 | | 25 | 15.435 | **1104581** |
| **CMS3518P0200FT** | 200 | 1.75 | | 25 | 20.580 | **1104583** |
| **CMS3518P0300FT** | 300 | 1.75 | | 25 | 30.870 | **1104585** |
| **CMS3518P0400FT** | 400 | 1.75 | | 10 | 41.160 | **1104587** |
| **CMS3518P0500FT** | 500 | 1.75 | | 10 | 51.450 | **1104589** |
| **CMS3518P0600FT** | 600 | 1.75 | | 10 | 61.740 | **1104591** |
| **CMS3518P0700FT** | 700 | 1.75 | | 10 | 72.030 | **1104593** |
| **CMS3518P0800FT** | 800 | 1.75 | | 10 | 82.320 | **1104595** |
| **CMS3518P0900FT** | 900 | 1.75 | | 10 | 92.610 | **1104597** |



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.




St FS FT

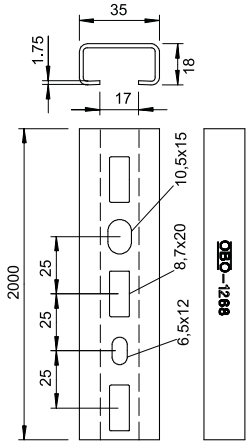
17 H E30 E90

## CML3518 profile rail, slot 17 mm, perforated

| Type | Length mm | Material thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **CML3518P1000FS** | 1000 | 1.25 | | 1 | 71.000 | **1104497** |
| **CML3518P2000FS** | 2000 | 1.25 | | 2 | 71.000 | **1104500** |
| **CML3518P1000FT** | 1000 | 1.25 | | 10 | 73.600 | **1104568** |
| **CML3518P2000FT** | 2000 | 1.25 | | 20 | 73.600 | **1104570** |
| **CMS3518P1000FS** | 1000 | 1.75 | | 10 | 97.800 | **1104445** |
| **CMS3518P2000FS** | 2000 | 1.75 | | 2 | 97.800 | **1104454** |



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.





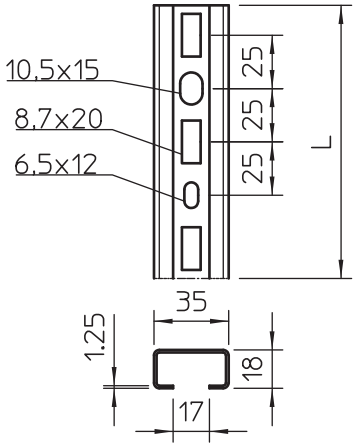

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## CML3518 profile rail, slot 17 mm, perforated



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **CML3518P1000A2** | 1000 | 1.25 | 1 | 71.000 | **1104498** |
| **CML3518P2000A2** | 2000 | 1.25 | 2 | 71.000 | **1104501** |



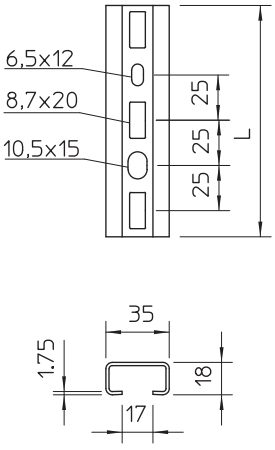

## CMS3518 profile rail, slot 17 mm, perforated



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **CMS3518P1000FT** | 1000 | 1.75 | 10 | 102.900 | **1104598** |
| **CMS3518P2000FT** | 2000 | 1.75 | 20 | 102.900 | **1104599** |

**Dimensions**



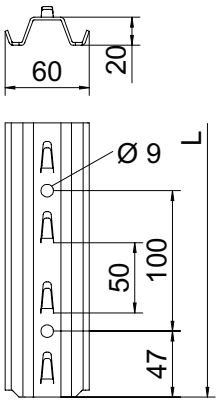

| Type | Dimension W x H mm | Dim. L mm |
|---|---|---|
| CMS3518P1000FT | 35 x 18 | 1000 |
| CMS3518P2000FT | 35 x 18 | 2000 |

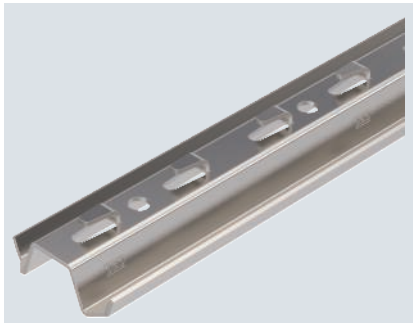
A2 2B

TP

## TP profile

| Type | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| TPSG 3000 A2 | 3000 | 1 | 440.000 | 6366094 |



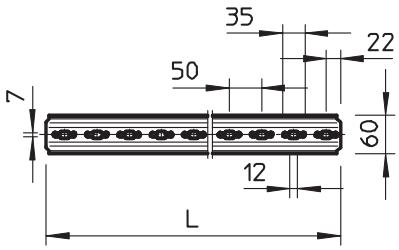
TP profile with clamping lugs.

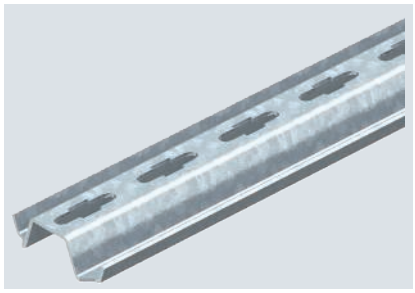
St FS

TP

## TP profile

| Type | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| TPS 3000 FS | 3000 | 1 | 441.000 | 6364802 |



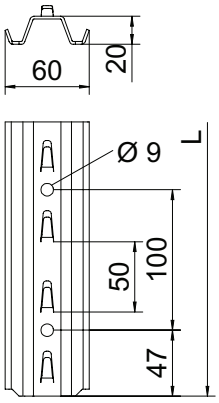
TP profile, perforated, in supply length 3,000 mm.

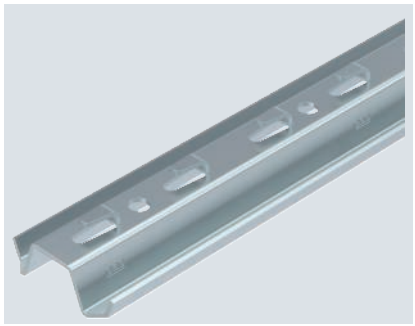
St FS FT

TP

## TP profile

| Type | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| TPSG 300L FS | 300 | 1 | 40.600 | 6366542 |
| TPSG 3000 FS | 3000 | 1 | 441.000 | 6366090 |
| TPSG 3000 FT | 3000 | 1 | 461.000 | 6366093 |



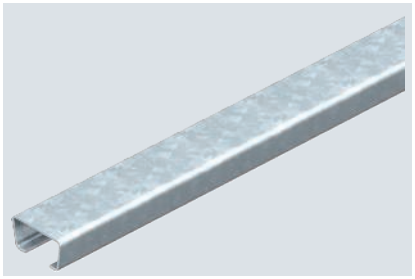



TP profile with clamping lugs.



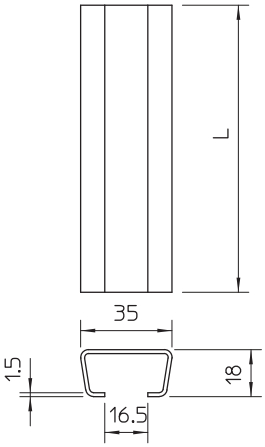
Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## AML3518 anchor rail, slot 16.5 mm, unperforated

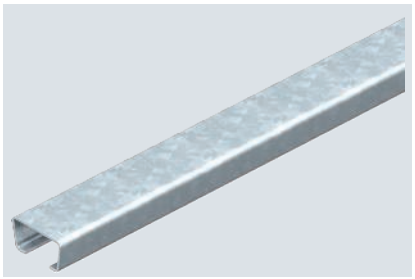


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **AML3518UP2000FS** | 2000 | 1.5 | 2 | 90.000 | **1118226** |

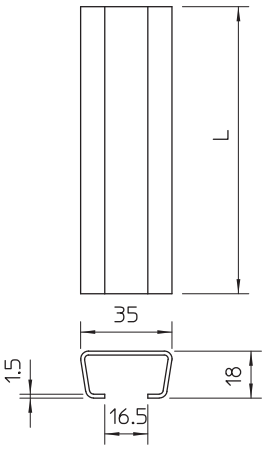



## AML3518 anchor rail, slot 16.5 mm, unperforated



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **AML3518UP2000FT** | 2000 | 1.5 | 2 | 89.400 | **1118129** |
| **AML3518UP6000FT** | 6000 | 1.5 | 6 | 94.840 | **1118153** |

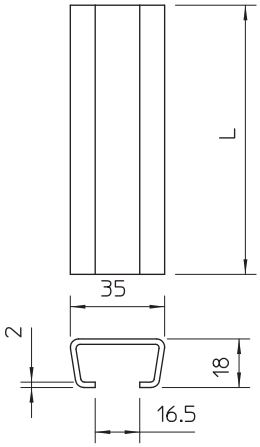


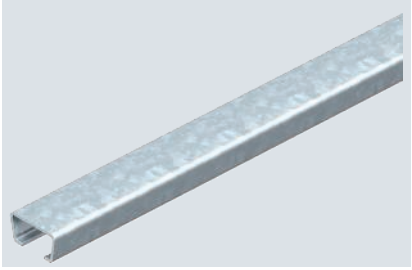
St FS

16,5 H

## AMS3518 anchor rail, slot 16.5 mm, unperforated

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **AMS3518UP2000FS** | 2000 | 2 | 2 | 116.000 | **1112120** |



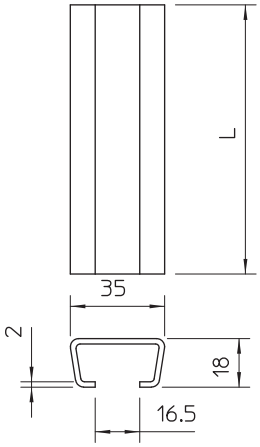
Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

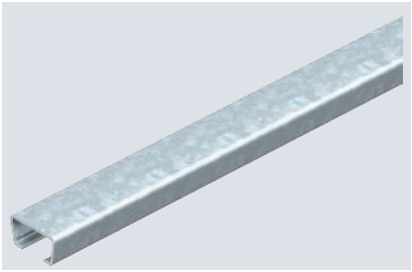
St FT

16,5 H

## AMS3518 anchor rail, slot 16.5 mm, unperforated

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **AMS3518UP2000FT** | 2000 | 2 | 2 | 121.350 | **1112228** |



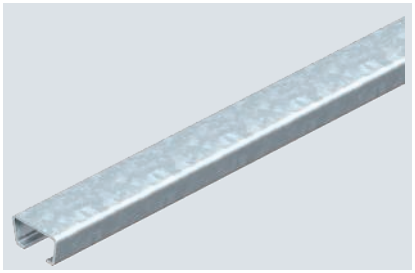



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.



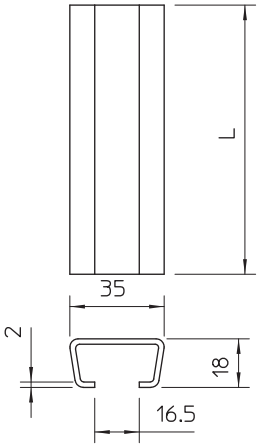
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## AMS3518 anchor rail, slot 16.5 mm, unperforated

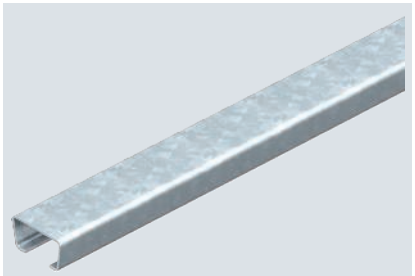


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

| Type | Length mm | Material thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **AMS3518UP2000BK** | 2000 | 2 | | 2 | 116.000 | **1112023** |
| **AMS3518UP2000FS** | 2000 | 2 | | 2 | 116.000 | **1112120** |
| **AMS3518UP2000FT** | 2000 | 2 | | 2 | 121.350 | **1112228** |
| **AMS3518UP6000FS** | 6000 | 2 | | 6 | 116.000 | **1112139** |
| **AMS3518UP6000FT** | 6000 | 2 | | 6 | 111.167 | **1112244** |
| **AMS3518UP6000BK** | 6000 | 2 | | 6 | 116.000 | **1112074** |

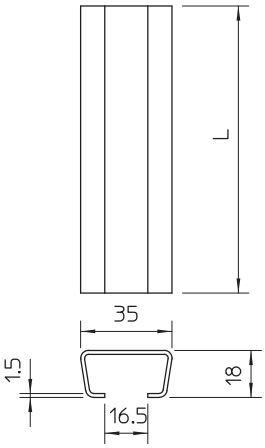



## AML3518 anchor rail, slot 16.5 mm, unperforated



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

| Type | Length mm | Material thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **AML3518UP2000BK** | 2000 | 1.5 | | 2 | 90.000 | **1118021** |

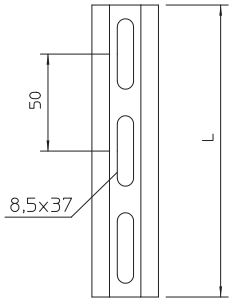


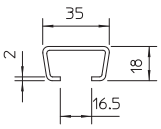
St FS

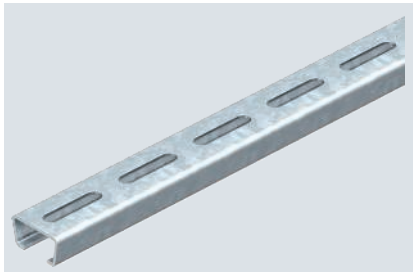
16,5 H

## Anchor rail AMS3518, slot 16.5 mm, perforated

| Type | Length mm | Material thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **AMS3518P2000FS** | 2000 | 2 | | 2 | 115.000 | **1112708** |



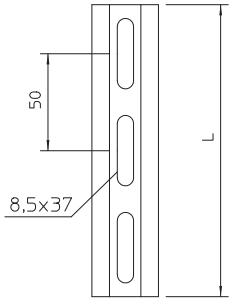
Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

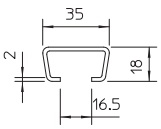
St FT

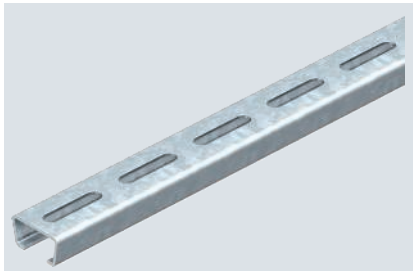
16,5 H

## Anchor rail AMS3518, slot 16.5 mm, perforated

| Type | Length mm | Material thickness mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **AMS3518P2000FT** | 2000 | 2 | | 2 | 122.000 | **1112759** |



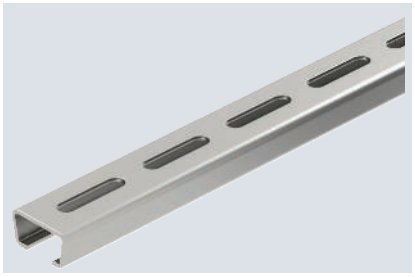



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.



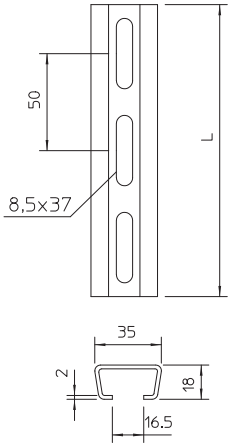
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## Anchor rail AMS3518, slot 16.5 mm, perforated



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

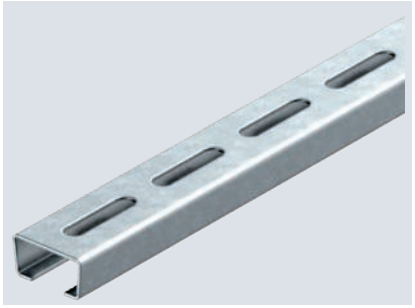
| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **AMS3518P1000A2** | 1000 | 2 | 1 | 107.000 | **1118421** |
| **AMS3518P2000A2** | 2000 | 2 | 2 | 107.000 | **1112709** |





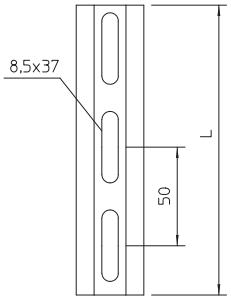


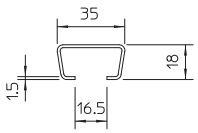
## Anchor rail AML3518, slot 16.5 mm, perforated



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **AML3518P0200FT** | 200 | 1.5 | 25 | 17.800 | **1119696** |
| **AML3518P0300FT** | 300 | 1.5 | 25 | 26.700 | **1119693** |
| **AML3518P0400FT** | 400 | 1.5 | 10 | 35.600 | **1119690** |
| **AML3518P0500FT** | 500 | 1.5 | 10 | 44.500 | **1119687** |
| **AML3518P0600FT** | 600 | 1.5 | 10 | 53.400 | **1119684** |
| **AML3518P0700FT** | 700 | 1.5 | 10 | 62.300 | **1119681** |
| **AML3518P0800FT** | 800 | 1.5 | 10 | 71.200 | **1119678** |







# MS4121 mounting rail

Heavy-duty C profile rail for the individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

**Slot width 22 mm**



**Double version (clinched)**

**Slot width 22 mm**

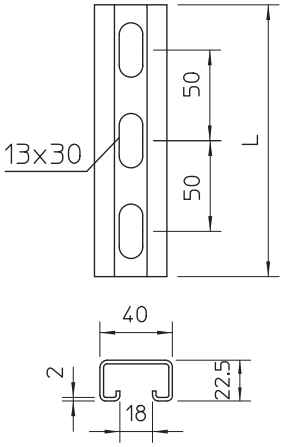
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## MS4022 mounting rail, heavy duty, slot 18 mm, perforated



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MS4022P2000FT** | 2000 | 2 | 2 | 152.500 | **1121979** |
| **MS4022P6000FT** | 6000 | 2 | 6 | 152.500 | **1121898** |

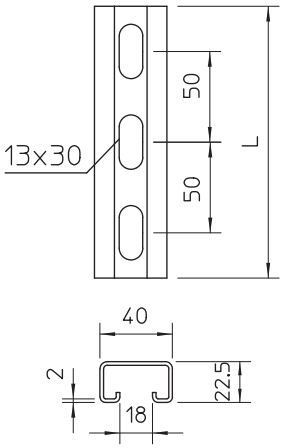



## MS4022 mounting rail, heavy duty, slot 18 mm, perforated



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

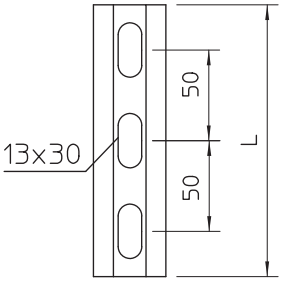
| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MS4022P2000A2** | 2000 | 2 | 2 | 152.500 | **1121960** |
| **MS4022P6000A2** | 6000 | 2 | 6 | 152.500 | **1121901** |

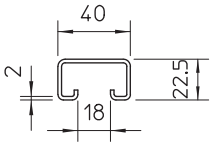


A4 2B

## Mounting rail MS4022, heavy-duty, slot 18 mm, perforated

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MS4022P2000A4** | 2000 | 2 | 2 | 147.600 | **1121963** |
| **MS4022P6000A4** | 6000 | 2 | 6 | 147.600 | **1121903** |



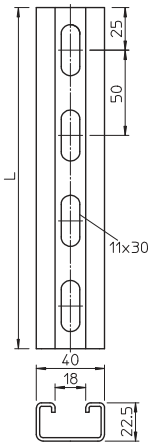


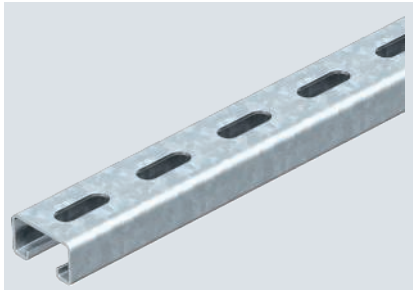

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

St FT

## Profile rail MS 22 L

| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **MS 22 L 200 FT** | 200 | 2 | 1 | 30.000 | **1122703** |
| **MS 22 L 300 FT** | 300 | 2 | 1 | 45.000 | **1122707** |
| **MS 22 L 400 FT** | 400 | 2 | 1 | 64.000 | **1122711** |
| **MS 22 L 500 FT** | 500 | 2 | 1 | 75.000 | **1122715** |
| **MS 22 L 600 FT** | 600 | 2 | 1 | 91.000 | **1122719** |
| **MS 22 L 700 FT** | 700 | 2 | 1 | 105.000 | **1122723** |
| **MS 22 L 800 FT** | 800 | 2 | 1 | 120.000 | **1122727** |
| **MS 22 L 1MFT** | 1000 | 2 | 1 | 150.000 | **1122735** |
| **MS 22 L 3M FT** | 3000 | 2 | 3 | 150.660 | **1122742** |
| **MS 22 L 6M FT** | 6000 | 2 | 6 | 153.330 | **1122746** |



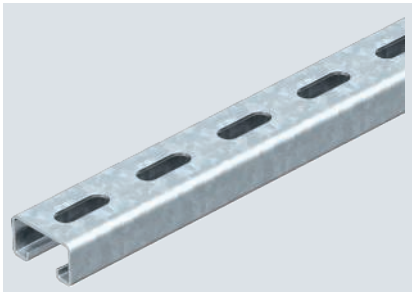



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.



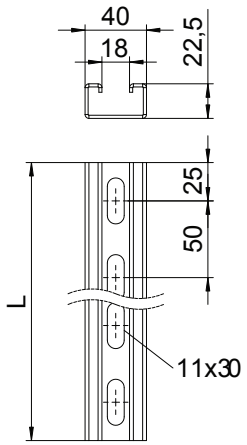
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## MS 22 L BASF mounting rail

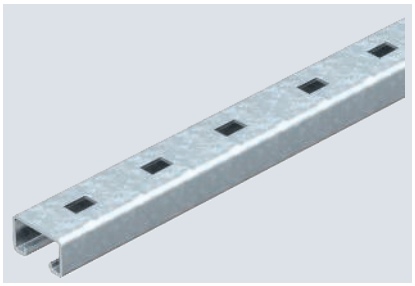


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MS 22 L 3M FT** | 3000 | 2 | 3 | 160.000 | **1122789** |

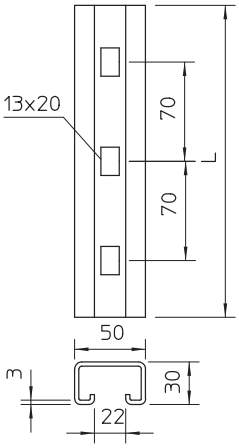



## MS5030 mounting rail, slot 22 mm, perforated



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

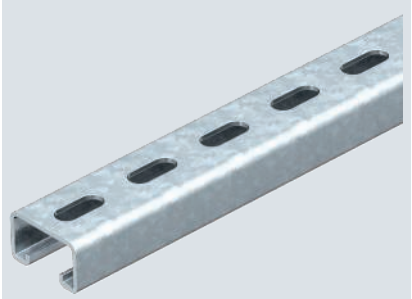
| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **MS5030RP0220FT** | 220 | 3 | 1 | 69.000 | **6349404** |
| **MS5030RP0260FT** | 260 | 3 | 1 | 81.500 | **6349412** |
| **MS5030RP0300FT** | 300 | 3 | 1 | 94.000 | **6349439** |
| **MS5030RP0340FT** | 340 | 3 | 1 | 107.000 | **6349447** |
| **MS5030RP0380FT** | 380 | 3 | 1 | 119.000 | **6349463** |

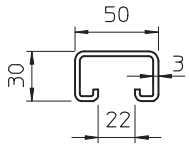


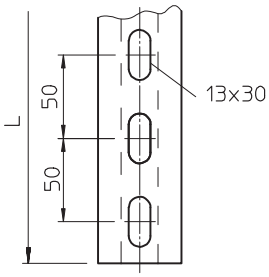
St A2 A4 FT 2B

## MS5030 mounting rail, slot 22 mm, perforated

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| MS5030P1000FT | 1000 | 3 | 1 | 282.500 | 1121448 |
| MS5030P2000FT | 2000 | 3 | 2 | 282.500 | 1121464 |
| MS5030P3000FT | 3000 | 3 | 3 | 308.100 | 1121466 |
| MS5030P6000FT | 6000 | 3 | 6 | 282.500 | 1121472 |
| MS5030P2000A2 | 2000 | 3 | 2 | 280.000 | 1121480 |
| MS5030P6000A2 | 6000 | 3 | 6 | 282.500 | 1121499 |
| MS5030P2000A4 | 2000 | 3 | 2 | 285.000 | 1121465 |
| MS5030P6000A4 | 6000 | 3 | 6 | 285.000 | 1121473 |





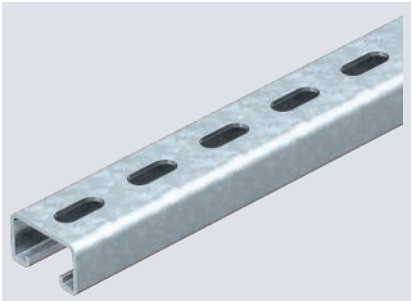



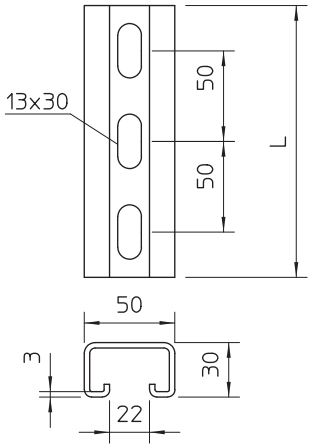

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

St FT

## MS5030 mounting rail, slot 22 mm, perforated

| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| MS5030P0200FT | 200 | 3 | 1 | 57.000 | 1121391 |
| MS5030P0300FT | 300 | 3 | 1 | 85.000 | 1121243 |
| MS5030P0400FT | 400 | 3 | 1 | 115.000 | 1121278 |
| MS5030P0500FT | 500 | 3 | 1 | 141.000 | 1121405 |
| MS5030P0600FT | 600 | 3 | 1 | 170.000 | 1121294 |
| MS5030P0700FT | 700 | 3 | 1 | 198.000 | 1121332 |
| MS5030P0800FT | 800 | 3 | 1 | 235.000 | 1121308 |
| MS5030P0900FT | 900 | 3 | 1 | 255.000 | 1121336 |
| MS5030P1500FT | 1500 | 3 | 1 | 424.000 | 1121363 |



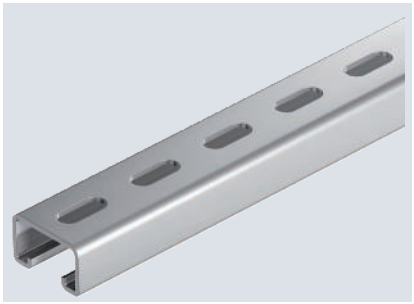



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.



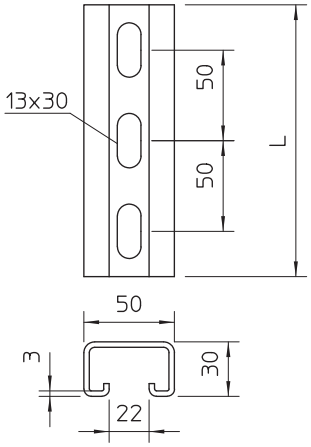
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## MS5030P0 mounting rail, slot 22 mm, perforated



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **MS5030P0200A4** | 200 | 3 | 1 | 56.000 | **1121393** |
| **MS5030P0400A4** | 400 | 3 | 1 | 113.000 | **1121280** |

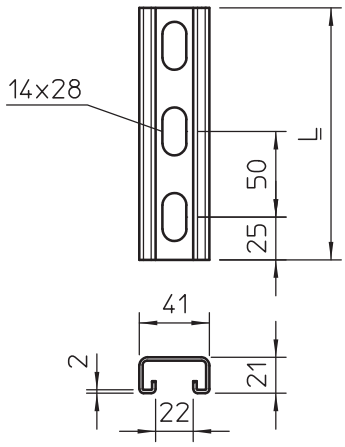



## MS4121 mounting rail, slot 22 mm, perforated



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

| Type | Length mm | Material thickness mm | BS | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **MS4121P2000FS** | 2000 | 2 | | 2 | 175.000 | **1122918** |
| **MS4121P3000FS** | 3000 | 2 | | 3 | 141.900 | **1122920** |
| **MS4121P6000FS** | 6000 | 2 | | 6 | 141.900 | **1122922** |
| **MS4121P2000FT** | 2000 | 2 | | 2 | 183.000 | **1122923** |
| **MS4121P3000FT** | 3000 | 2 | | 3 | 151.300 | **1122924** |
| **MS4121P6000FT** | 6000 | 2 | | 6 | 184.000 | **1122926** |

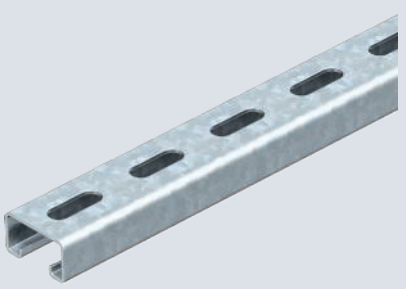


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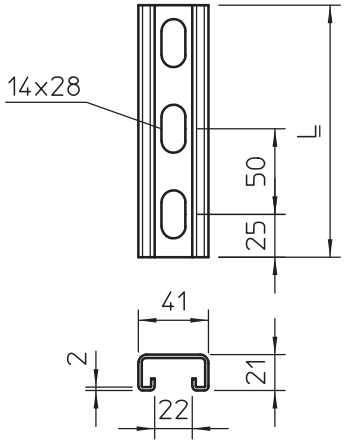
22 U

## MS4121 mounting rail, slot 22 mm, perforated

| Type | Length mm | Material thickness mm | BS | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| MS4121P0200FS | 200 | 2 | | 1 | 35.000 | 1122950 |
| MS4121P0300FS | 300 | 2 | | 1 | 52.500 | 1122951 |
| MS4121P0400FS | 400 | 2 | | 1 | 70.000 | 1122953 |
| MS4121P0500FS | 500 | 2 | | 1 | 87.500 | 1122955 |
| MS4121P0600FS | 600 | 2 | | 1 | 105.000 | 1122956 |
| MS4121P0700FS | 700 | 2 | | 1 | 122.500 | 1122958 |
| MS4121P0800FS | 800 | 2 | | 1 | 134.000 | 1122957 |
| MS4121P0900FS | 900 | 2 | | 1 | 126.800 | 1122959 |
| MS4121P0200FT | 200 | 2 | | 1 | 35.100 | 1122933 |
| MS4121P0300FT | 300 | 2 | | 1 | 53.000 | 1122934 |
| MS4121P0400FT | 400 | 2 | | 1 | 70.000 | 1122935 |
| MS4121P0500FT | 500 | 2 | | 1 | 87.000 | 1122936 |
| MS4121P0600FT | 600 | 2 | | 1 | 105.000 | 1122937 |
| MS4121P0700FT | 700 | 2 | | 1 | 123.000 | 1122938 |
| MS4121P0800FT | 800 | 2 | | 1 | 140.000 | 1122939 |
| MS4121P0900FT | 900 | 2 | | 1 | 158.000 | 1122940 |



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.




A2 A4 2B

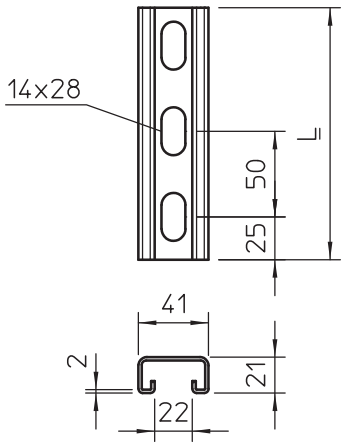
22 U

## MS4121 mounting rail, slot 22 mm, perforated

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| MS4121P2000A2 | 2000 | 2 | 2 | 140.950 | 1122925 |
| MS4121P3000A2 | 3000 | 2 | 3 | 185.340 | 1122928 |
| MS4121P6000A2 | 6000 | 2 | 6 | 140.950 | 1122929 |
| MS4121P2000A4 | 2000 | 2 | 2 | 175.000 | 1122476 |
| MS4121P3000A4 | 3000 | 2 | 3 | 172.670 | 1122931 |
| MS4121P6000A4 | 6000 | 2 | 6 | 172.670 | 1122932 |



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.






Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## MS4121P mounting rail, slot 22 mm, perforated

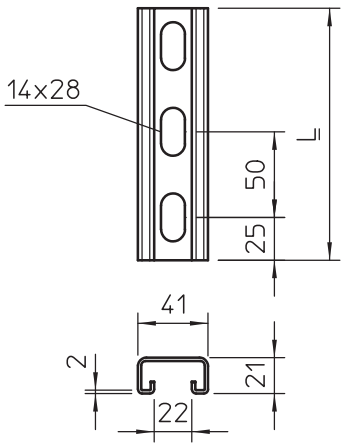
A2 2B



| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **MS4121P0500A2** | 500 | 2 | 1 | 84.000 | **1122930** |

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

**Dimensions**




| Type | Dimension W x H mm | Dim. L mm |
|---|---|---|
| MS4121P0500A2 | 41x21 | 500 |

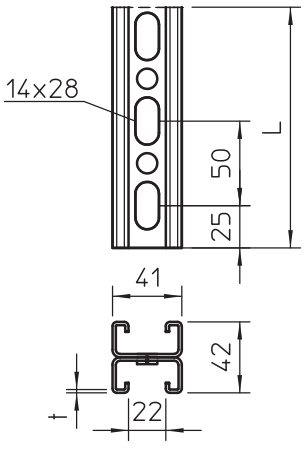
## MS4142 mounting rail, slot 22 mm, double, perforated

St A2 FS FT 2B



| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MS4142P3000FS** | 3000 | 2 | 3 | 303.000 | **1122947** |
| **MS4142P6000FS** | 6000 | 2 | 6 | 303.000 | **1122948** |
| **MS4142P3000FT** | 3000 | 2 | 3 | 303.000 | **1122944** |
| **MS4142P6000FT** | 6000 | 2 | 6 | 303.000 | **1122945** |
| **MS4142P6000A2** | 6000 | 2 | 6 | 283.800 | **1122954** |

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm. Double version, i.e. two profile rails are interconnected on the base (clinched).

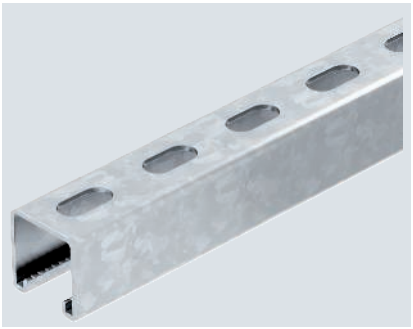


St A4 FS FT 2B

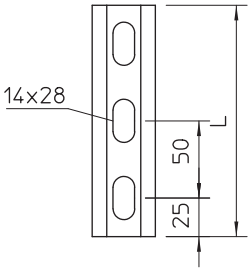
U 22

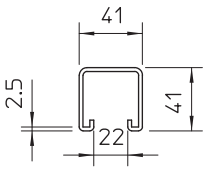
## MS4141 mounting rail, slot 22 mm, perforated

| Type | Length mm | Material thickness mm | BS | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **MS4141P1000FS** | 1000 | 2.5 | | 1 | 247.500 | **1122908** |
| **MS4141P3000FS** | 3000 | 2.5 | | 3 | 247.500 | **1122910** |
| **MS4141P6000FS** | 6000 | 2.5 | | 6 | 247.500 | **1122912** |
| **MS4141P1000FT** | 1000 | 2.5 | | 1 | 261.400 | **1122606** |
| **MS4141P3000FT** | 3000 | 2.5 | | 3 | 261.400 | **1122622** |
| **MS4141P6000FT** | 6000 | 2.5 | | 6 | 260.670 | **1122657** |
| **MS4141P3000A4** | 3000 | 2.5 | | 3 | 247.500 | **1123049** |
| **MS4141P6000A4** | 6000 | 2.5 | | 6 | 247.500 | **1123051** |



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.



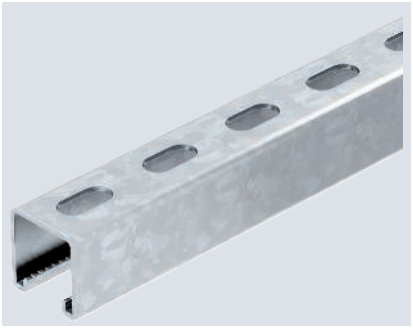




St A2 A4 FS FT 2B

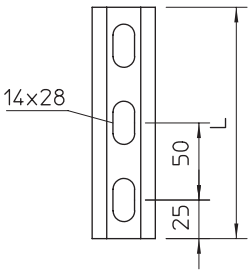
U 22

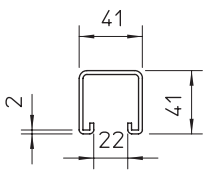
## MSL4141 mounting rail, slot 22 mm, perforated

| Type | Length mm | Material thickness mm | BS | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **MSL4141P1000FS** | 1000 | 2 | | 1 | 201.100 | **1122970** |
| **MSL4141P3000FS** | 3000 | 2 | | 3 | 201.100 | **1122972** |
| **MSL4141P6000FS** | 6000 | 2 | | 6 | 201.100 | **1122974** |
| **MSL4141P1000FT** | 1000 | 2 | | 1 | 214.700 | **1122962** |
| **MSL4141P3000FT** | 3000 | 2 | | 3 | 214.700 | **1122964** |
| **MSL4141P6000FT** | 6000 | 2 | | 6 | 214.700 | **1122966** |
| **MSL4141P1000A2** | 1000 | 2 | | 1 | 201.100 | **1122978** |
| **MSL4141P3000A2** | 3000 | 2 | | 3 | 201.100 | **1122980** |
| **MSL4141P6000A2** | 6000 | 2 | | 6 | 201.100 | **1122982** |
| **MSL4141P1000A4** | 1000 | 2 | | 1 | 201.100 | **1122988** |
| **MSL4141P3000A4** | 3000 | 2 | | 3 | 201.100 | **1122990** |
| **MSL4141P6000A4** | 6000 | 2 | | 6 | 201.100 | **1122992** |



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.



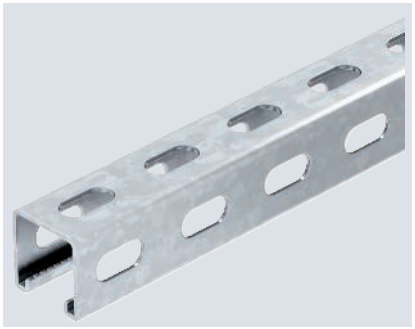






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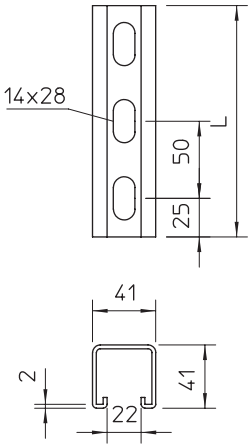
## MS4141 mounting rail, slot 22 mm, side perforation

St A2 A4 FS FT 2B



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MSL4141PP1000FS** | 1000 | 2 | 1 | 179.400 | **1123008** |
| **MSL4141PP3000FS** | 3000 | 2 | 3 | 179.400 | **1123010** |
| **MSL4141PP6000FS** | 6000 | 2 | 6 | 179.400 | **1123012** |
| **MSL4141PP1000FT** | 1000 | 2 | 1 | 191.500 | **1123001** |
| **MSL4141PP3000FT** | 3000 | 2 | 3 | 191.500 | **1123003** |
| **MSL4141PP6000FT** | 6000 | 2 | 6 | 191.500 | **1123005** |
| **MSL4141PP1000A2** | 1000 | 2 | 1 | 179.400 | **1123014** |
| **MSL4141PP3000A2** | 3000 | 2 | 3 | 179.400 | **1123016** |
| **MSL4141PP6000A2** | 6000 | 2 | 6 | 179.400 | **1123018** |
| **MSL4141PP1000A4** | 1000 | 2 | 1 | 179.400 | **1123021** |
| **MSL4141PP3000A4** | 3000 | 2 | 3 | 179.400 | **1123023** |
| **MSL4141PP6000A4** | 6000 | 2 | 6 | 179.400 | **1123025** |

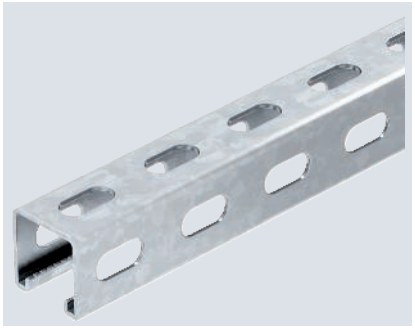






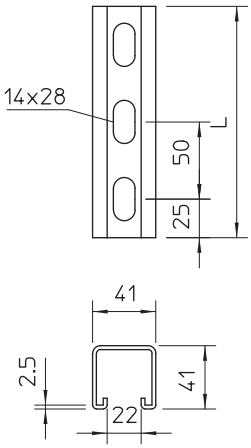
## MS4141 mounting rail, slot 22 mm, side perforation

St FS FT



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MS4141PP1000FS** | 1000 | 2.5 | 1 | 281.000 | **1122481** |
| **MS4141PP3000FS** | 3000 | 2.5 | 3 | 218.000 | **1122914** |
| **MS4141PP6000FS** | 6000 | 2.5 | 6 | 218.340 | **1122916** |
| **MS4141PP1000FT** | 1000 | 2.5 | 1 | 225.000 | **1122479** |
| **MS4141PP3000FT** | 3000 | 2.5 | 3 | 233.340 | **1122483** |
| **MS4141PP6000FT** | 6000 | 2.5 | 6 | 225.000 | **1122487** |

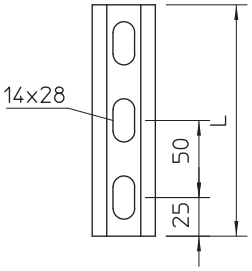


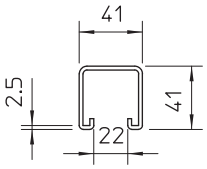
A4 2B

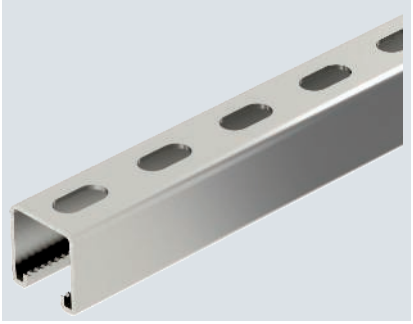
U 22

## MS4141 mounting rail, slot 22 mm, perforated

| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **MS4141P0300A4** | 300 | 2.5 | 1 | 72.000 | **1123033** |
| **MS4141P0400A4** | 400 | 2.5 | 1 | 98.000 | **1123035** |



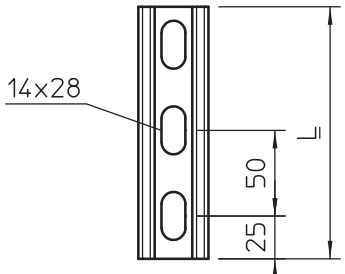
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

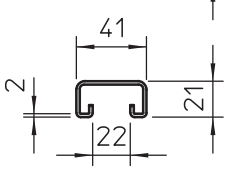
St FS

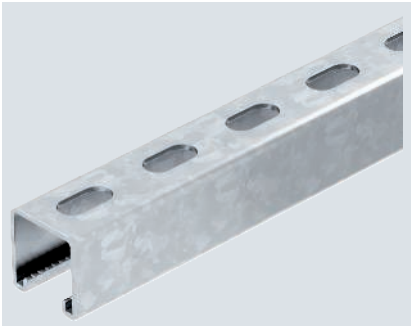
U 22

## MSL4141 mounting rail, slot 22 mm, perforated

| Type | Length mm | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **MSL4141P0200FS** | 200 | 2 | | 1 | 40.400 | **1123262** |
| **MSL4141P0300FS** | 300 | 2 | | 1 | 60.600 | **1123264** |
| **MSL4141P0400FS** | 400 | 2 | | 1 | 80.800 | **1123266** |
| **MSL4141P0500FS** | 500 | 2 | | 1 | 101.000 | **1123268** |
| **MSL4141P0600FS** | 600 | 2 | | 1 | 121.000 | **1123270** |
| **MSL4141P0700FS** | 700 | 2 | | 1 | 141.000 | **1123272** |
| **MSL4141P0800FS** | 800 | 2 | | 1 | 162.000 | **1123274** |
| **MSL4141P0900FS** | 900 | 2 | | 1 | 182.000 | **1123276** |



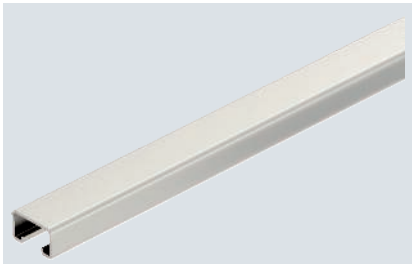
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.



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## MS5030 mounting rail, slot 22 mm

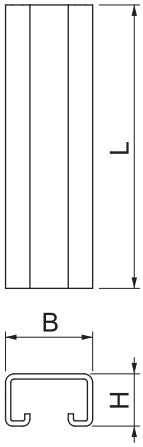
St BK FT



| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MS5030UP2000FT** | 2000 | 3 | 20 | 307.000 | **1121524** |
| **MS5030UP6000FT** | 6000 | 3 | 6 | 307.000 | **1121529** |
| **MS5030UP6000BK** | 6000 | 3 | 6 | 290.000 | **1121502** |

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

### Dimensions



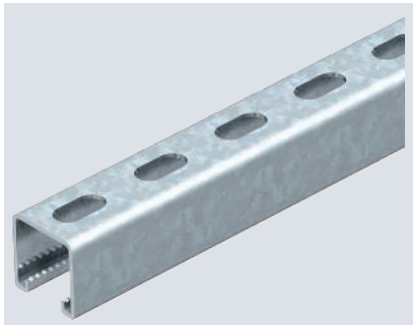

| Type | Dimension W x H mm | Dim. L mm |
|---|---|---|
| MS5030UP2000FT | 50x30 | 2000 |
| MS5030UP6000FT | 50x30 | 6000 |
| MS5030UP6000BK | 50x30 | 6000 |

St FT

U 22

## MS4141 mounting rail, slot 22 mm, perforated

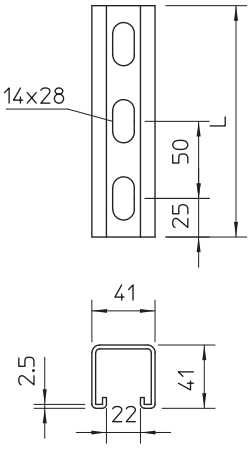
| Type | Length mm | Material thickness mm | | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **MS4141P0200FT** | 200 | 2.5 | | | 1 | 52.400 | **1122509** |
| **MS4141P0300FT** | 300 | 2.5 | | | 1 | 78.500 | **1122517** |
| **MS4141P0400FT** | 400 | 2.5 | | | 1 | 104.700 | **1122525** |
| **MS4141P0500FT** | 500 | 2.5 | | | 1 | 130.800 | **1122533** |
| **MS4141P0600FT** | 600 | 2.5 | | | 1 | 156.900 | **1122541** |
| **MS4141P0700FT** | 700 | 2.5 | | | 1 | 183.000 | **1122568** |
| **MS4141P0800FT** | 800 | 2.5 | | | 1 | 209.200 | **1122576** |
| **MS4141P0900FT** | 900 | 2.5 | | | 1 | 235.300 | **1122584** |



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

| Type | Dimension W x H mm | Dim. L mm |
|---|---|---|
| MS4141P0200FT | 41x41 | 200 |
| MS4141P0300FT | 41x41 | 300 |
| MS4141P0400FT | 41x41 | 400 |
| MS4141P0500FT | 41x41 | 500 |
| MS4141P0600FT | 41x41 | 600 |
| MS4141P0700FT | 41x41 | 700 |
| MS4141P0800FT | 41x41 | 800 |
| MS4141P0900FT | 41x41 | 900 |

**Dimensions**

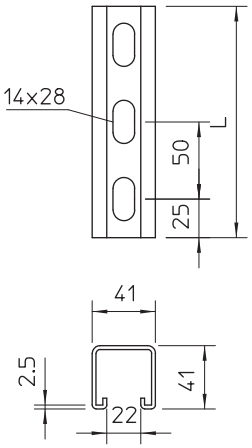



A4 2B

U 22

## MS4141 mounting rail, slot 22 mm, perforated

| Type | Length mm | Material thickness mm | | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **MS4141P0600A4** | 600 | 2.5 | | | 1 | 147.000 | **1123039** |



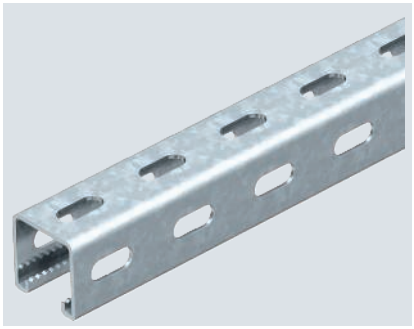



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.



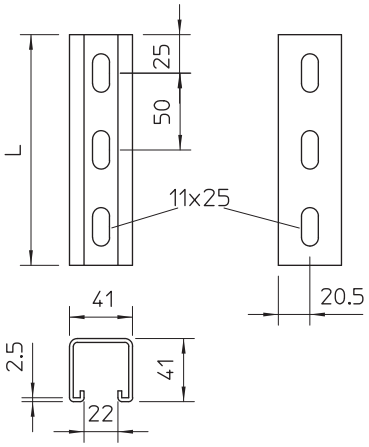
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## MS4141PP mounting rail, slot 22 mm, perforated

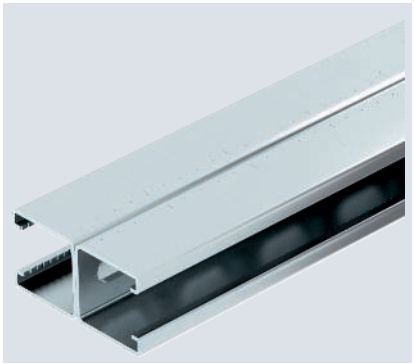


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **MS4141PP0300FT** | 300 | 2.5 | 1 | 67.000 | **1122500** |
| **MS4141PP0400FT** | 400 | 2.5 | 1 | 90.000 | **1122501** |

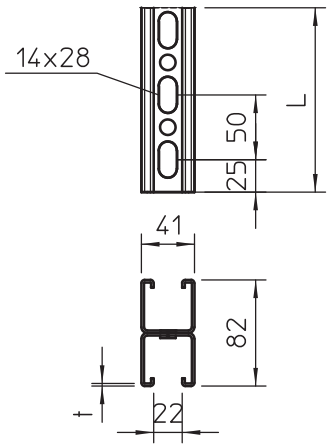



## MS4182 mounting rail, slot 22 mm, double, perforated



Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm. Double version, i.e. two profile rails are interconnected on the base (clinched).

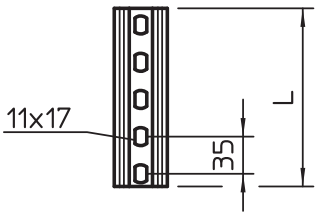
| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **MS4182P3000FS** | 3000 | 2 | 3 | 402.200 | **1122676** |
| **MS4182P6000FS** | 6000 | 2 | 6 | 402.200 | **1122678** |
| **MS4182P3000FT** | 3000 | 2 | 3 | 402.200 | **1122671** |
| **MS4182P6000FT** | 6000 | 2 | 6 | 402.200 | **1122673** |
| **MS4182P3000A2** | 3000 | 2 | 3 | 402.200 | **1122682** |
| **MS4182P6000A2** | 6000 | 2 | 6 | 402.200 | **1122684** |

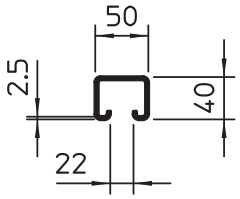


St FT

## MS5040P mounting rail, slot 22 mm, perforated

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| MS5040P3000FT | 3000 | 2.5 | 3 | 255.000 | 1111560 |





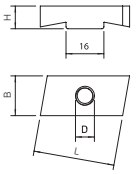

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

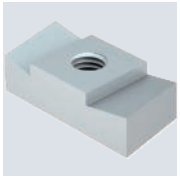
# Accessories, mounting rails

St ZL

### Slide nut

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| MS40SN M6 ZL | 35 | 17 | 10 | M6 | 50 | 3.750 | 1147106 |
| MS40SN M8 ZL | 35 | 17 | 10 | M8 | 50 | 3.600 | 1147110 |
| MS40SN M10 ZL | 35 | 17 | 10 | M10 | 50 | 3.400 | 1147114 |
| MS40SN M12 ZL | 35 | 17 | 11.5 | M12 | 50 | 3.160 | 1147118 |



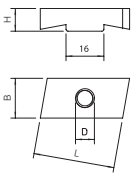



Slide nut for use with MS4022 profile rail

A4 2B

### Slide nut

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| MS40SN M6 A4 | 35 | 17 | 10 | M6 | 50 | 3.750 | 1147126 |
| MS40SN M8 A4 | 35 | 17 | 10 | M8 | 50 | 3.600 | 1147130 |
| MS40SN M10 A4 | 35 | 17 | 10 | M10 | 50 | 3.400 | 1147134 |
| MS40SN M12 A4 | 35 | 17 | 11.5 | M12 | 50 | 3.160 | 1147138 |



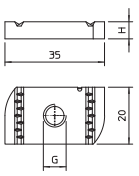


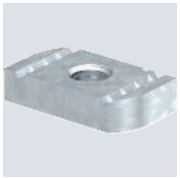

Slide nut for use with MS4022 profile rail

St ZL

### Slide nut

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| MS41SN M6 ZL | 35 | 20 | 6 | M6 | 50 | 2.880 | 1147206 |
| MS41SN M8 ZL | 35 | 20 | 6 | M8 | 50 | 2.800 | 1147210 |
| MS41SN M10 ZL | 35 | 20 | 8 | M10 | 50 | 3.650 | 1147214 |
| MS41SN M12 ZL | 35 | 20 | 9.5 | M12 | 50 | 4.200 | 1147218 |



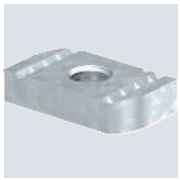
Slide nut for use with MS4121 und MS4141 profile rails

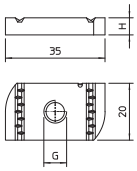


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## Slide nut

A4 2B





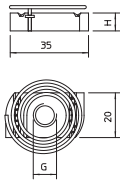

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **MS41SN M6 A4** | 35 | 20 | 6 | M6 | 50 | 2.880 | **1147226** |
| **MS41SN M8 A4** | 35 | 20 | 6 | M8 | 50 | 2.800 | **1147230** |
| **MS41SN M10 A4** | 35 | 20 | 8 | M10 | 50 | 3.650 | **1147234** |
| **MS41SN M12 A4** | 35 | 20 | 9.5 | M12 | 50 | 4.200 | **1147238** |

Slide nut for use with MS4121 und MS4141 profile rails

## Slide nut with spring

St F





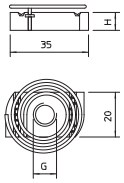

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **MS41SNF M6 F** | 35 | 20 | 6 | M6 | 50 | 3.200 | **1147306** |
| **MS41SNF M8 F** | 35 | 20 | 6 | M8 | 50 | 3.150 | **1147310** |
| **MS41SNF M10 F** | 35 | 20 | 8 | M10 | 50 | 4.000 | **1147314** |
| **MS41SNF M12 F** | 35 | 20 | 9.5 | M12 | 50 | 4.550 | **1147318** |

Slide nut with spring for use with MS4121 und MS4141 profile rails

## Slide nut with spring

A4 2B



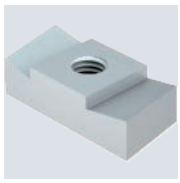


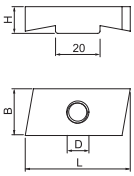

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **MS41SNF M6 A4** | 35 | 20 | 6 | M6 | 50 | 3.200 | **1147336** |
| **MS41SNF M8 A4** | 35 | 20 | 6 | M8 | 50 | 3.150 | **1147340** |
| **MS41SNF M10 A4** | 35 | 20 | 8 | M10 | 50 | 4.000 | **1147344** |
| **MS41SNF M12 A4** | 35 | 20 | 9.5 | M12 | 50 | 4.550 | **1147348** |

Slide nut with spring for use with MS4121 und MS4141 profile rails

## Slide nut

St ZL



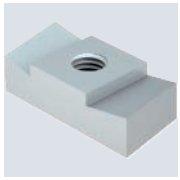


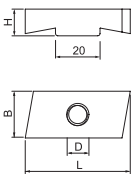

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **MS50SN M6 ZL** | 43 | 21 | 12 | M6 | 50 | 6.700 | **1147156** |
| **MS50SN M8 ZL** | 43 | 21 | 12 | M8 | 50 | 6.550 | **1147160** |
| **MS50SN M10 ZL** | 43 | 21 | 12 | M10 | 50 | 6.350 | **1147164** |
| **MS50SN M12 ZL** | 43 | 21 | 12 | M12 | 50 | 6.100 | **1147168** |

Slide nut for use with MS5030 profile rail

## Slide nut

A4 2B






| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **MS50SN M6 A4** | 43 | 21 | 12 | M6 | 50 | 6.700 | **1147172** |
| **MS50SN M8 A4** | 43 | 21 | 12 | M8 | 50 | 6.550 | **1147186** |
| **MS50SN M10 A4** | 43 | 21 | 12 | M10 | 50 | 6.350 | **1147190** |
| **MS50SN M12 A4** | 43 | 21 | 12 | M12 | 50 | 6.100 | **1147194** |

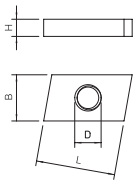
Slide nut for use with MS5030 profile rail

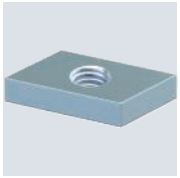
St ZL

## Slide nut

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **ACMSN M6 ZL** | 26 | 16.5 | 4 | M6 | 100 | 1.212 | **1147056** |
| **ACMSN M8 ZL** | 26 | 16.5 | 5 | M8 | 100 | 1.640 | **1147060** |
| **ACMSN M10 ZL** | 26 | 16.5 | 6 | M10 | 100 | 1.300 | **1147064** |

Slide nut for use with CM3015, CM3518 and AM3518 profile rails



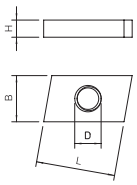



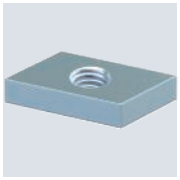
A4 2B

## Slide nut

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **ACMSN M6 A4** | 26 | 16.5 | 4 | M6 | 100 | 1.650 | **1147076** |
| **ACMSN M8 A4** | 26 | 16.5 | 5 | M8 | 100 | 1.600 | **1147080** |
| **ACMSN M10 A4** | 26 | 16.5 | 6 | M10 | 100 | 1.500 | **1147084** |

Slide nut for use with CM3015, CM3518 and AM3518 profile rails



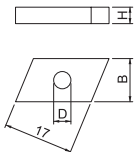



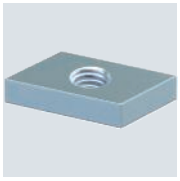
St ZL

## Slide nut

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **CL20SN M4 ZL** | 17 | 10.5 | 4 | M4 | 100 | 0.525 | **1147008** |
| **CL20SN M5 ZL** | 17 | 10.5 | 4 | M5 | 100 | 0.508 | **1147012** |
| **CL20SN M6 ZL** | 17 | 10.5 | 4 | M6 | 100 | 0.503 | **1147016** |

Slide nut for use with CL2008 profile rail



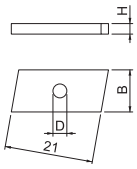



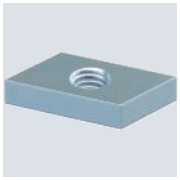
St ZL

## Slide nut

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **CL27SN M4 ZL** | 21 | 10 | 2.5 | M4 | 100 | 0.400 | **1147020** |
| **CL27SN M5 ZL** | 24.5 | 13 | 4 | M5 | 100 | 0.870 | **1147024** |
| **CL27SN M6 ZL** | 24.5 | 13 | 4 | M6 | 100 | 0.850 | **1147028** |
| **CL27SN M8 ZL** | 24.5 | 13 | 4 | M8 | 100 | 0.800 | **1147032** |

Slide nut for use with CL2712 profile rail



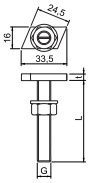
St ZL

18

## Hook-head screw

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **MS40HB M6x30 ZL** | 35 | 17 | 10 | M6x30mm | 50 | 4.800 | **1148106** |
| **MS40HB M8x30 ZL** | 35 | 17 | 10 | M8x30mm | 50 | 5.650 | **1148110** |
| **MS40HB M8x60 ZL** | 35 | 17 | 10 | M8x60mm | 25 | 6.850 | **1148114** |
| **MS40HB M10x30 ZL** | 35 | 14 | 7.5 | M10x30mm | 50 | 6.000 | **1148118** |
| **MS40HB M10x60 ZL** | 35 | 14 | 7.5 | M10x60mm | 25 | 7.850 | **1148122** |
| **MS40HB M12x30 ZL** | 35 | 14 | 7.5 | M12x30mm | 50 | 7.550 | **1148126** |
| **MS40HB M12x60 ZL** | 35 | 14 | 7.5 | M12x60mm | 25 | 10.250 | **1148130** |

Hook-head screw for use with MS4022 profile rail







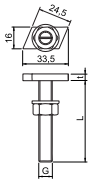

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## Hook-head screw

A4 2B

18






| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **MS40HB M6x30 A4** | 35 | 17 | 10 | M6x30mm | 50 | 4.800 | **1148146** |
| **MS40HB M8x30 A4** | 35 | 17 | 10 | M8x30mm | 50 | 5.650 | **1148150** |
| **MS40HB M8x60 A4** | 35 | 17 | 10 | M8x60mm | 25 | 6.850 | **1148154** |
| **MS40HB M10x30 A4** | 35 | 14 | 7.5 | M10x30mm | 50 | 6.000 | **1148160** |
| **MS40HB M10x60 A4** | 35 | 14 | 7.5 | M10x60mm | 25 | 7.850 | **1148164** |
| **MS40HB M12x30 A4** | 35 | 14 | 7.5 | M12x30mm | 50 | 7.550 | **1148168** |
| **MS40HB M12x60 A4** | 35 | 14 | 7.5 | M12x60mm | 25 | 9.320 | **1148170** |

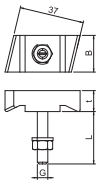
Hook-head screw for use with MS4022 profile rail

## Hook-head screw

St ZL

22






| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **MS50HB M6x30 ZL** | 43 | 21 | 12 | M6x30mm | 50 | 7.800 | **1148206** |
| **MS50HB M8x30 ZL** | 43 | 21 | 12 | M8x30mm | 50 | 8.700 | **1148210** |
| **MS50HB M8x60 ZL** | 43 | 21 | 12 | M8x60mm | 25 | 9.900 | **1148214** |
| **MS50HB M10x30 ZL** | 43.3 | 13 | 10 | M10x30mm | 50 | 7.700 | **1148218** |
| **MS50HB M10x60 ZL** | 43.3 | 13 | 10 | M10x60mm | 25 | 9.450 | **1148222** |
| **MS50HB M12x30 ZL** | 43.3 | 13 | 10 | M12x30mm | 50 | 9.000 | **1148226** |
| **MS50HB M12x60 ZL** | 43.3 | 13 | 10 | M12x60mm | 25 | 11.650 | **1148230** |

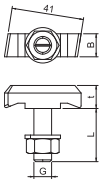
Hook-head screw for use with MS5030 profile rail

## Hook-head screw

A4 2B

22






| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **MS50HB M6x30 A4** | 43 | 21 | 12 | M6x30mm | 50 | 7.800 | **1148256** |
| **MS50HB M8x30 A4** | 43 | 21 | 12 | M8x30mm | 50 | 8.700 | **1148260** |
| **MS50HB M8x60 A4** | 43 | 21 | 12 | M8x60mm | 25 | 9.900 | **1148264** |
| **MS50HB M10x30 A4** | 43.3 | 13 | 10 | M10x30mm | 50 | 7.700 | **1148268** |
| **MS50HB M10x60 A4** | 43.3 | 13 | 10 | M10x60mm | 25 | 9.450 | **1148272** |
| **MS50HB M12x30 A4** | 43.3 | 13 | 10 | M12x30mm | 50 | 9.000 | **1148276** |
| **MS50HB M12x60 A4** | 43.3 | 13 | 10 | M12x60mm | 25 | 11.650 | **1148280** |

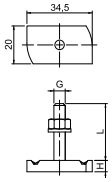
Hook-head screw for use with MS5030 profile rail

## Hammer-head bolt

St ZL

22





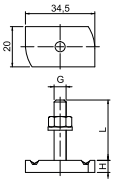

| Type | Length mm | Width mm | Height mm | Thread | Torque Nm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **MS41HB M6x30 ZL** | 34.5 | 20 | 6 | M 6 x 30 | 3.3 | 50 | 4.000 | **1148306** |
| **MS41HB M8x30 ZL** | 34.5 | 20 | 6 | M 8 x 30 | 8 | 50 | 4.850 | **1148310** |
| **MS41HB M8x60 ZL** | 34.5 | 20 | 6 | M 8 x 60 | 8 | 25 | 6.000 | **1148314** |
| **MS41HB M8x100 ZL** | 34.5 | 20 | 6 | M 8 x 100 | 8 | 20 | 7.600 | **1148318** |
| **MS41HB M10x30 ZL** | 34.5 | 20 | 8 | M 10 x 30 | 16 | 50 | 7.400 | **1148322** |
| **MS41HB M10x60 ZL** | 34.5 | 20 | 8 | M 10 x 60 | 16 | 25 | 9.250 | **1148326** |
| **MS41HB M10x100ZL** | 34.5 | 20 | 8 | M 10 x 100 | 16 | 20 | 11.700 | **1148330** |
| **MS41HB M12x30 ZL** | 34.5 | 20 | 9 | M 12 x 30 | 27 | 50 | 9.750 | **1148334** |
| **MS41HB M12x60 ZL** | 34.5 | 20 | 9 | M 12 x 60 | 27 | 25 | 12.400 | **1148338** |
| **MS41HB M12x100ZL** | 34.5 | 20 | 9 | M 12 x 100 | 27 | 20 | 15.950 | **1148342** |

Hammer-head bolt for use with MS4121 and MS4141 profile rails

A4 2B

## Hammer-head bolt

| Type | Length mm | Width mm | Height mm | Thread | Torque Nm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **MS41HB M6x30 A4** | 34.5 | 20 | 6 | M 6 x 30 | 3.4 | 50 | 4.000 | **1148406** |
| **MS41HB M8x30 A4** | 34.5 | 20 | 6 | M 8 x 30 | 6.2 | 50 | 4.800 | **1148410** |
| **MS41HB M8x60 A4** | 34.5 | 20 | 6 | M 8 x 60 | 6.2 | 25 | 6.000 | **1148414** |
| **MS41HB M8x100 A4** | 34.5 | 20 | 6 | M 8 x 100 | 6.2 | 20 | 7.550 | **1148418** |
| **MS41HB M10x30 A4** | 34.5 | 20 | 8 | M 10 x 30 | 9.9 | 50 | 7.350 | **1148422** |
| **MS41HB M10x60 A4** | 34.5 | 20 | 8 | M 10 x 60 | 9.9 | 25 | 9.200 | **1148426** |
| **MS41HB M10x100A4** | 34.5 | 20 | 8 | M 10 x 100 | 9.9 | 20 | 11.650 | **1148430** |
| **MS41HB M12x30 A4** | 34.5 | 20 | 9 | M 12 x 30 | 14.4 | 50 | 9.700 | **1148434** |
| **MS41HB M12x60 A4** | 34.5 | 20 | 9 | M 12 x 60 | 14.4 | 25 | 12.400 | **1148438** |
| **MS41HB M12x100A4** | 34.5 | 20 | 9 | M 12 x 100 | 14.4 | 20 | 15.900 | **1148442** |



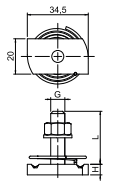



Hammer-head bolt for use with MS4121 and MS4141 profile rails

St FT

## Hammer-head bolt with spring

| Type | Length mm | Width mm | Height mm | Thread | Torque Nm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **MS41HBF M8x30 FT** | 34.5 | 20 | 6 | M 8 x 30 | 8 | 50 | 5.200 | **1148376** |
| **MS41HBF M8x60 FT** | 34.5 | 20 | 6 | M 8 x 60 | 8 | 25 | 6.300 | **1148380** |
| **MS41HBF M10x30FT** | 34.5 | 20 | 8 | M 10 x 30 | 16.1 | 50 | 7.700 | **1148384** |
| **MS41HBF M10x60FT** | 34.5 | 20 | 8 | M 10 x 60 | 16.1 | 25 | 9.550 | **1148388** |
| **MS41HBF M12x30FT** | 34.5 | 20 | 9 | M 12 x 30 | 27 | 50 | 10.000 | **1148392** |
| **MS41HBF M12x60FT** | 34.5 | 20 | 9 | M 12 x 60 | 27 | 25 | 12.700 | **1148396** |





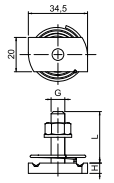

Hammer-head bolt with spring for use with MS4121 and MS4141 profile rails

A4 2B

22

## Hammer-head bolt with spring

| Type | Length mm | Width mm | Height mm | Thread | Torque Nm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **MS41HBF M8x30 A4** | 34.5 | 20 | 6 | M 8 x 30 | 6.2 | 50 | 4.800 | **1148476** |
| **MS41HBF M8x60 A4** | 34.5 | 20 | 6 | M 8 x 60 | 6.2 | 25 | 5.950 | **1148480** |
| **MS41HBF M10x30A4** | 34.5 | 20 | 8 | M 10 x 30 | 9.9 | 50 | 7.350 | **1148484** |
| **MS41HBF M10x60A4** | 34.5 | 20 | 8 | M 10 x 60 | 9.9 | 25 | 9.200 | **1148488** |
| **MS41HBF M12x30A4** | 34.5 | 20 | 9 | M 12 x 30 | 14.4 | 50 | 9.700 | **1148492** |
| **MS41HBF M12x60A4** | 34.5 | 20 | 9 | M 12 x 60 | 14.4 | 25 | 12.400 | **1148496** |





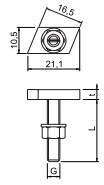

Hammer-head bolt with spring for use with MS4121 and MS4141 profile rails

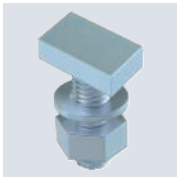
St ZL

11

## Hammer-head bolt

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **CL20HB M5x25 ZL** | 21.1 | 10.5 | 4 | M 5 x 25mm | 50 | 1.100 | **1148008** |
| **CL20HB M6x25 ZL** | 21.1 | 10.5 | 4 | M 6 x 25mm | 50 | 1.420 | **1148012** |
| **CL20HB M8x25 ZL** | 21.1 | 10.5 | 4 | M 8 x 25mm | 50 | 2.150 | **1148016** |



Hammer-head bolt for use with CL2008 profile rail



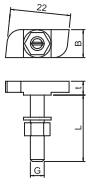
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## Hammer-head bolt

St ZL

11





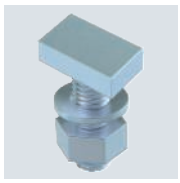

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **CL27HB M5x25 ZL** | 23 | 10.1 | 4 | M 5 x 25mm | 50 | 1.250 | **1148020** |
| **CL27HB M6x25 ZL** | 23 | 10.1 | 4 | M 6 x 25mm | 50 | 1.570 | **1148024** |
| **CL27HB M8x25 ZL** | 23 | 10.1 | 4 | M 8 x 25mm | 50 | 2.300 | **1148028** |

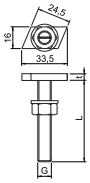
Hammer-head bolt for use with CL2712 profile rail

## Hammer-head bolt

St ZL

17





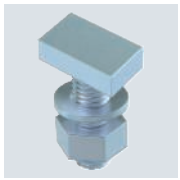

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **ACMHB M6x30 ZL** | 33.5 | 16 | 5 | M 6 x 30mm | 50 | 2.600 | **1148056** |
| **ACMHB M8x30 ZL** | 33.5 | 16 | 5 | M 8 x 30mm | 50 | 3.197 | **1148060** |
| **ACMHB M8x60 ZL** | 33.5 | 16 | 5 | M 8 x 60mm | 25 | 4.650 | **1148064** |
| **ACMHB M10x30 ZL** | 33.5 | 16 | 6 | M 10 x 30mm | 50 | 4.950 | **1148068** |
| **ACMHB M10x60 ZL** | 33.5 | 16 | 6 | M 10 x 60mm | 25 | 6.750 | **1148072** |

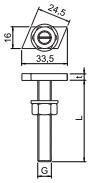
Hammer-head bolt for use with CM3015, CM3518 and AM3518 profile rails

## Hammer-head bolt

A4 2B

17






| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **ACMHB M6x30 A4** | 33.5 | 16 | 5 | M 6 x 30mm | 50 | 2.600 | **1148076** |
| **ACMHB M8x30 A4** | 33.5 | 16 | 5 | M 8 x 30mm | 50 | 3.450 | **1148080** |
| **ACMHB M8x60 A4** | 33.5 | 16 | 5 | M 8 x 60mm | 25 | 4.650 | **1148084** |
| **ACMHB M10x30 A4** | 33.5 | 16 | 6 | M 10 x 30mm | 50 | 4.950 | **1148088** |
| **ACMHB M10x60 A4** | 33.5 | 16 | 6 | M 10 x 60mm | 25 | 6.240 | **1148092** |

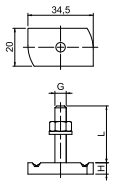
Hammer-head bolt for use with CM3015, CM3518 and AM3518 profile rails

## Hammer-head bolt

St ZL

22





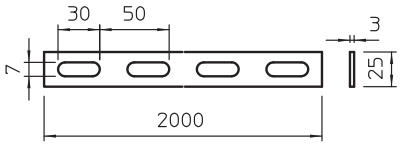

| Type | Length mm | Width mm | Height mm | Thread | Torque Nm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|---|
| **MS41HB M8x20 ZL** | 34.5 | 20 | 6 | M8x20 | 8 | 25 | 4.400 | **1148350** |

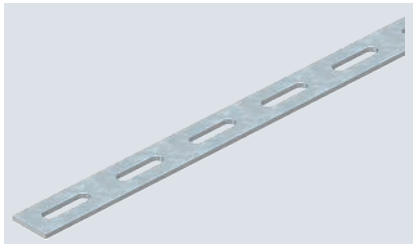
Hammer-head bolt for use with MS4121 and MS4141 profile rails

St SG

## SL42 construction and suspension profile

| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SLH 42 2000 SG** | 25x3 | 2000 | 2 | 50.000 | **7103603** |



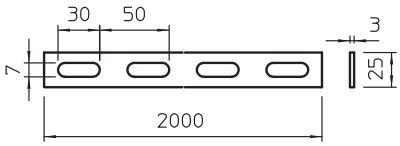
The rail profile is available in unpainted steel on request.

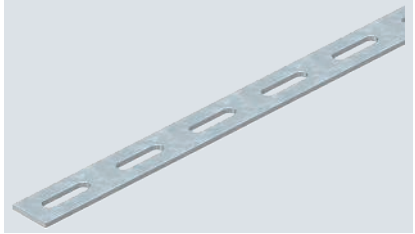
Rail profile of 25 mm side height for welding in trapezoidal rungs.

St FT

## SL42 construction and suspension profile

| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SLH 42 2000 FT** | 25x3 | 2000 | 2 | 51.500 | **7103611** |



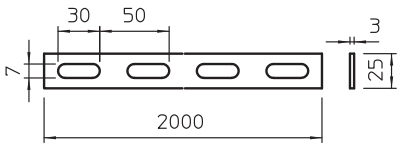
The profile is available in bright steel on request.

Perforated side rail profile of shipbuilding ladders, SL 42, for the creation of suspension and support constructions.

A2 A4 2B

## SL42 construction and suspension profile

| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SLH 42 2000 A2** | 25x3 | 2000 | 2 | 50.000 | **7103620** |
| **SLH 42 2000 A4** | 25x3 | 2000 | 2 | 50.000 | **7103626** |






The rail profile is available in unpainted steel on request.

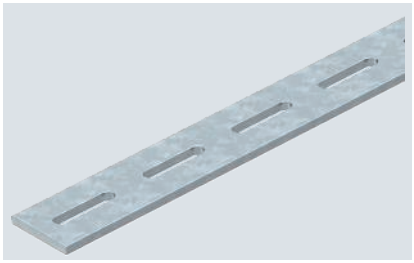
Perforated side rail profile of shipbuilding ladders, SL 42, for the creation of suspension and support constructions.



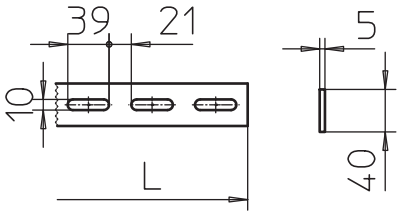
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## Construction and suspension profile, SL62

St SG



| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| SLH 62 3000 SG | 40x5 | 3000 | 3 | 133.000 | 7103635 |

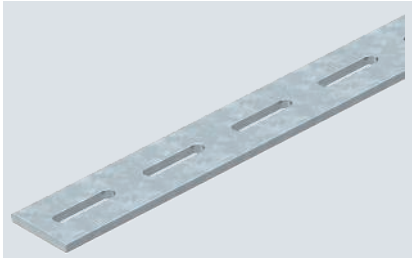



The rail profile is available in unpainted steel on request.

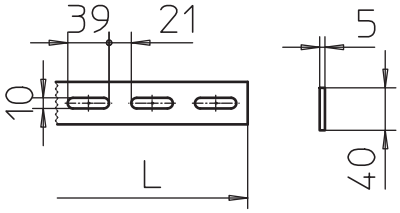
Rail profile of 25 mm side height for welding in trapezoidal rungs.

## Construction and suspension profile, SL62

St FT



| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| SLH 62 3000 FT | 40x5 | 3000 | 3 | 135.700 | 7103643 |




The profile is available in bright steel on request.

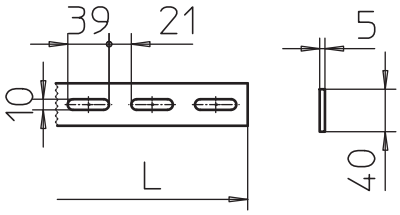
Perforated side rail profile of shipbuilding ladders, SL 62, for the creation of suspension and support constructions.

## Construction and suspension profile, SL62

A2 2B



| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| SLH 62 3000 A2 | 40x5 | 3000 | 3 | 133.000 | 7103650 |



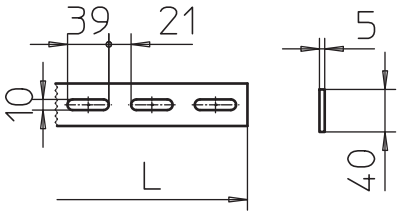

The rail profile is available in unpainted steel on request.

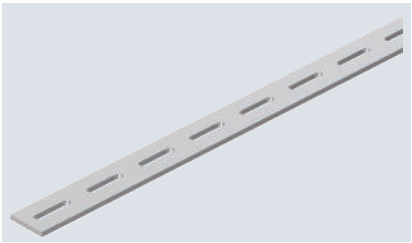
Perforated side rail of ship cable ladder, SL 62, for creation of suspension and support constructions.

A4 2B

## Construction and suspension profile, SL62

| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **SLH 62 3000 A4** | 40x5 | 3000 | 3 | 133.000 | **7103656** |



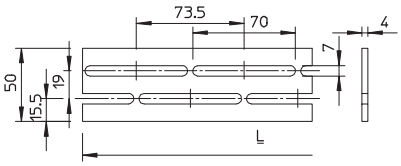
Perforated side rail of ship cable ladder, SL 62, for creation of suspension and support constructions.

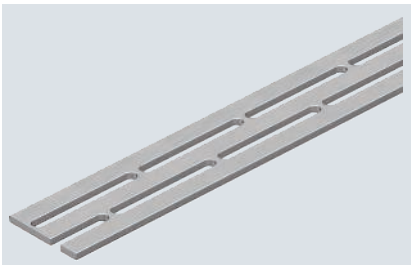
The rail profile is available in unpainted steel on request.

St BK

## Construction and suspension profile FESP L BK

| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **FESP L 50 4 BK** | 50x4 | 3000 | 3 | 116.000 | **7104960** |



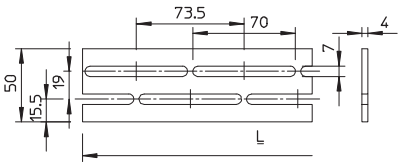



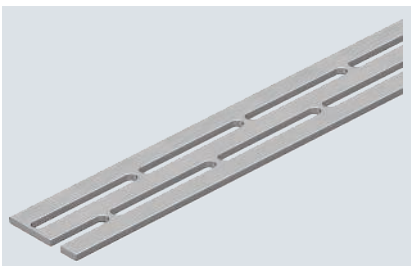
Flat iron profile with double, offset longitudinal hole row for creation of suspension and support constructions.

St FT

## Construction and suspension profile FESP L FT

| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **FESP L 50 4 FT** | 50x4 | 3000 | 3 | 118.900 | **7105002** |



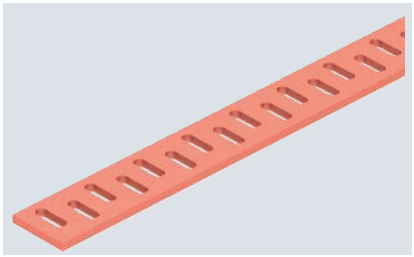
Flat iron profile with double, offset longitudinal hole row for creation of suspension and support constructions.



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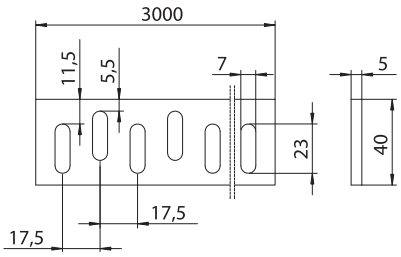
## Construction and suspension profile FESP Q SG

St SG



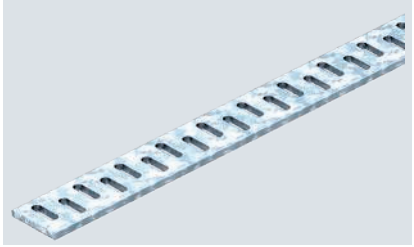
Flat iron profile with double, side-offset slot row to create suspension and support constructions.

| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **FESP Q 40 5 SG** | 40x5 | 3000 | 3 | 123.300 | **7104358** |



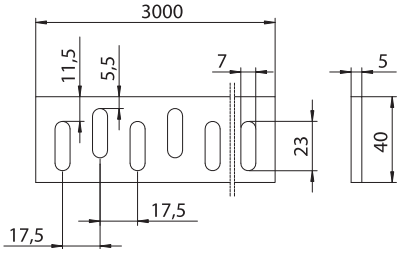

## Construction and suspension profile FESP Q FT

St FT



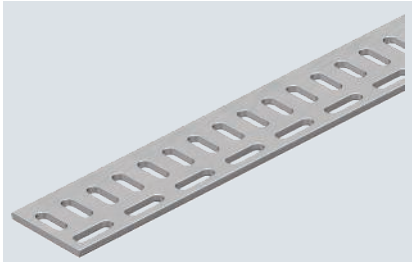
Flat iron profile with double, side-offset slot row to create suspension and support constructions.

| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **FESP Q 40 5 FT** | 40x5 | 3000 | 3 | 130.000 | **7104356** |



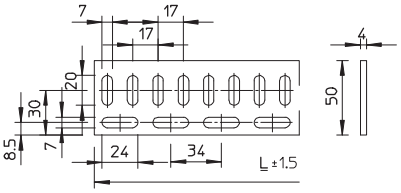

## Construction and suspension profile FESP QL BK

St BK



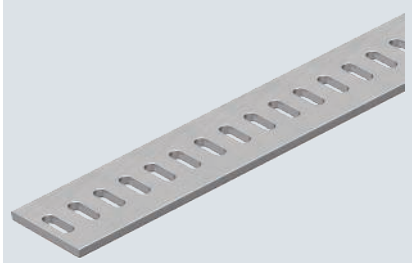
Flat iron profile with transverse and lengthwise slots to create suspended and support constructions.

| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **FESP QL 50 4 BK** | 50x4 | 3000 | 3 | 118.567 | **7104669** |



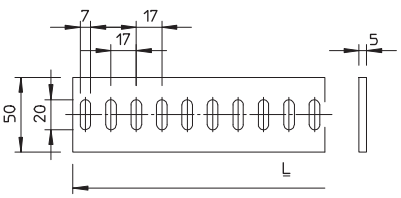

## Construction and suspension profile FESP Q BK

St BK



Flat iron profile with slots to create suspensions and support constructions.

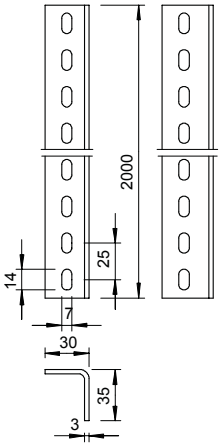
| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **FESP Q 50 5 BK** | 50x5 | 3000 | 3 | 166.367 | **7104367** |

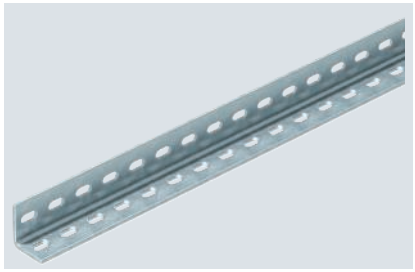


St FT

## Angle profile WP30/35

| Type | Length mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **WP 30 35 2000 FT** | 2000 | 3.00 | 1 | 257.000 | **6373100** |
| **WP 30 35 5000 FT** | 5000 | 3.00 | 1 | 643.000 | **6373103** |



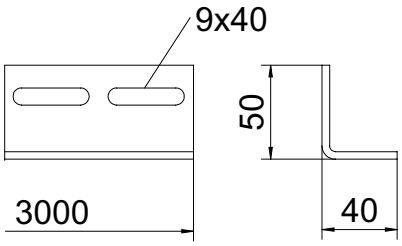



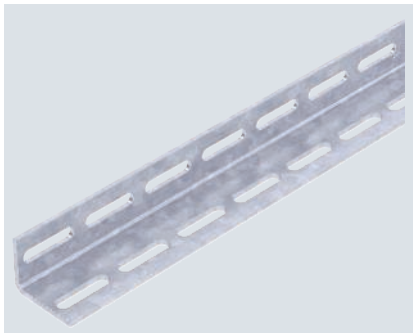
Angle profile, perforated on both sides, for creation of special support structures.

St FT

## Angle profile WP40/50

| Type | Length mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **WP 40 50 3000 FT** | 3000 | 4.00 | 3 | 224.000 | **6373200** |



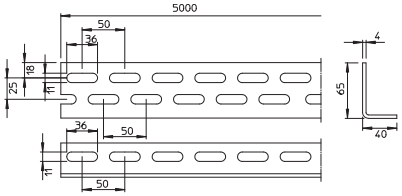
Perforated angle profile for the creation of special support structures.

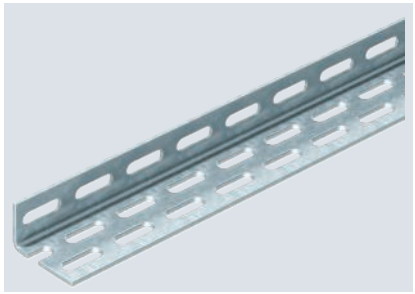
The angle profile can be used to create pendant suspensions.

St FT

## Angle profile WP40/65

| Type | Length mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **WP 40 65 5000 FT** | 5000 | 4.00 | 5 | 250.000 | **6373070** |



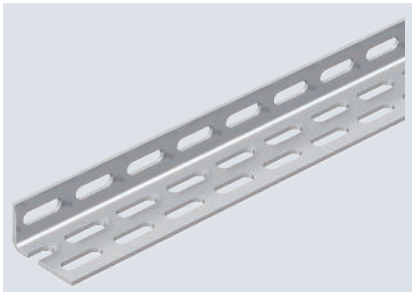
Angle profile, perforated on both sides, for creation of special support structures.



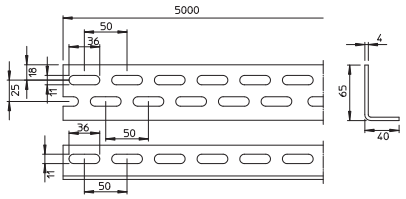
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## Angle profile WP40/65

A2 2B



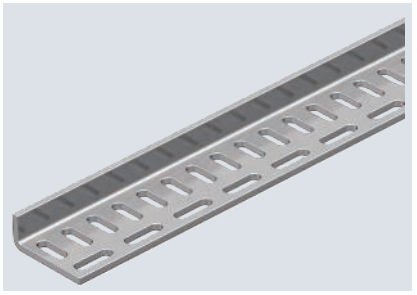
| Type | Length mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **WP 40 65 5000 A2** | 5000 | 4.00 | 5 | 241.600 | **6373062** |



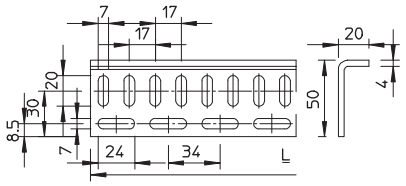

Angle profile, perforated on both sides, for creation of special support structures.

## WESP 50 BK angle profile

St BK



| Type | Length mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **WESP 50 20 BK** | 3000 | 4.00 | 3 | 159.000 | **7105665** |



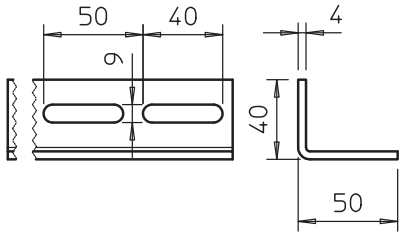

Angle profile with transverse and longitudinal perforation to create suspension and support constructions.

## WESP 50 SG angle profile

St SG



| Type | Length mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **WESP 50 40 SG** | 3000 | 4.00 | 3 | 239.340 | **7105675** |

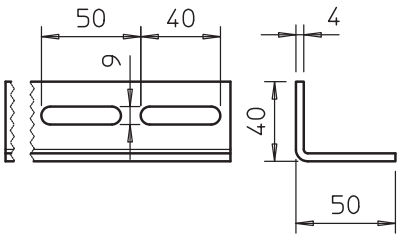


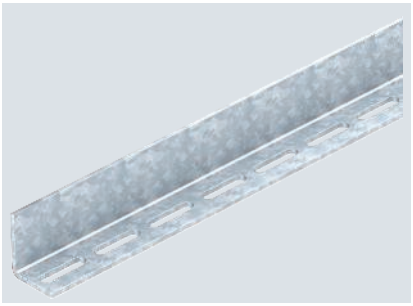

Angle profile with longitudinal perforation row to create suspension and support constructions.

St FT

## Angle profile WESP 50

| Type | Length mm | Metal thick-ness mm | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **WESP 50 40 FT** | 3000 | 4.00 | 3 | 246.340 | **7105673** |



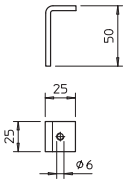
Angle profile with longitudinal perforation row to create suspension and support constructions.

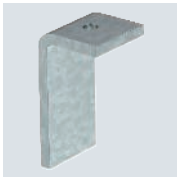
St FT

## Welding angle

| Type | Dimen-sion mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **ASW FT** | 25x50 | 10 | 5.700 | **6015350** |

Welding angle for mounting shipbuilding cable ladders and marine trays, for welding to steel structures.



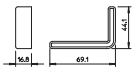


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## End cap WE 40/65

PE





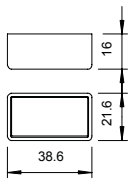

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| WPK SR OR | Pastel orange | 20 | 0.600 | 6372881 |
| WPK SL OR | Pastel orange | 20 | 0.600 | 6372898 |

End cap to cover the ends of angle profile, type WE 40/65.

## End cap CM3518/AM3518

PE





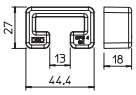

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| CM3518 SK | Pastel orange | 50 | 0.384 | 1124502 |

End cap for profile rail types CM3518 and AM3518.

## End cap MS4022

PE





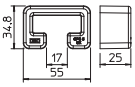

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| MS4022 SK | Pastel orange | 25 | 0.647 | 1124555 |

End caps for profile rail, type MS4022.

## End cap MS5030

PE





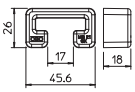

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| MS5030 SK | Pastel orange | 25 | 1.147 | 1124563 |

End caps for profile rail, type MS5030.

## End cap MS4121

PE






| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| MS4121 SK | Pastel orange | 25 | 0.611 | 1122902 |

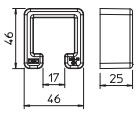
End cap for profile rail, type MS4121.

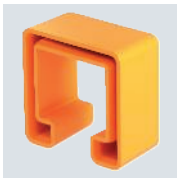
PE

## End cap MS4141

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| MS4141 SK | Pastel orange | 25 | 1.212 | 1122900 |

End cap for profile rail, type MS4141.



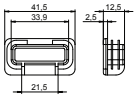



PE

## End cap MS4121

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| MS4121 EK | Pastel orange | 50 | 0.645 | 1122904 |

End cap for profile rail, type MS4121.



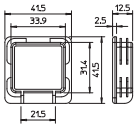



PE

## End cap MS4141

| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| MS4141 EK | Pastel orange | 50 | 0.670 | 1122906 |

End cap for profile rail, type MS4141.



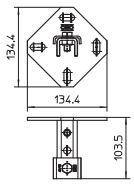



St FT

## Wall, floor and ceiling bracket with 3 holes

| Type | Version | Dimension W x H mm | Material thickness mm | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| WBDHE 41 FT | Perforated | 134x110 | 5 | 102 | 10 | 73.000 | 1123191 |

The wall, floor and ceiling bracket can ideally be used as a panel for wall, floor and ceiling mounting.
Also suitable for stand and frame construction in conjunction with the mounting rails MS4141.



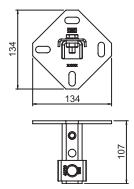



A2 A4 2B

## Wall, floor and ceiling bracket with 3 holes

| Type | Version | Dimension W x H mm | Material thickness mm | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| WBDHE 41 A2 | Perforated | 134x110 | 5 | 102 | 10 | 73.000 | 1123195 |
| WBDHE 41 A4 | Perforated | 134x110 | 5 | 102 | 10 | 73.000 | 1123197 |

The wall, floor and ceiling bracket can ideally be used as a panel for wall, floor and ceiling mounting.
Also suitable for stand and frame construction in conjunction with the mounting rails MS4141.





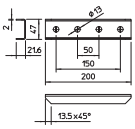



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## Connector

St FT





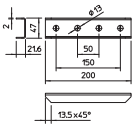

| Type | Version | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **GVMS 4 ASV FT** | With continuous perforation 13 mm | 10 | 24.900 | **1124641** |

Connector gripping from outside with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

## Connector

A2 A4 2B



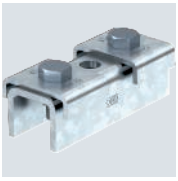


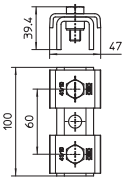

| Type | Version | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **GVMS 4 ASV A2** | With continuous perforation 13 mm | 10 | 24.900 | **1124681** |
| **GVMS 4 ASV A4** | With continuous perforation 13 mm | 10 | 24.900 | **1124715** |

Connector gripping from outside with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

## Rail connector SV with 3 holes

St FT






| Type | Version | Dimension W x H mm | Material thickness mm | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **SVE 41 FT** | Perforated | 47x39,4 | 4 | 100 | 10 | 42.000 | **1123121** |

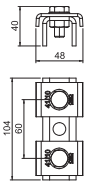
The rail connector is used to extend the mounting rail MS4141. The connection can be made simply and securely on the construction site or prefabricated in the workshop.
There is a guarantee that there is no weak point in the area of the rail coupling. The static values of the mounting rail apply here.

Scope of delivery:
Retaining plates, type 4141, and suitable hexagonal bolts included loosely.

## Rail connector SV with 3 holes

A2 A4 2B





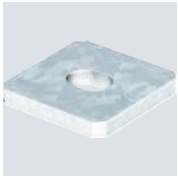

| Type | Version | Dimension W x H mm | Material thickness mm | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **SVE 41 A2** | Perforated | 47x39,4 | 4 | 100 | 10 | 42.000 | **1123126** |
| **SVE 41 A4** | Perforated | 47x39,4 | 4 | 100 | 10 | 42.000 | **1123128** |

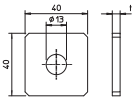
The rail connector is used to extend the mounting rail MS4141. The connection can be made simply and securely on the construction site or prefabricated in the workshop.
There is a guarantee that there is no weak point in the area of the rail coupling. The static values of the mounting rail apply here.

Scope of delivery:
Retaining plates, type 4141, and suitable hexagonal bolts included loosely.

## Connection plate with 1 hole

St FT






| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **GMS 1 VP FT** | 5 | 10 | 7.120 | **1124643** |

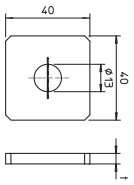
Connection plate with lengthwise slot, for example for mounting threaded rods to profile rails 41 x 41 mm and 41 x 21 mm.

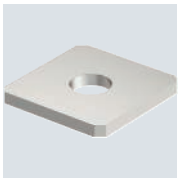
A2 2B

## Connection plate with 1 hole

| Type | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **GMS 1 VP A2** | 4 | | 10 | 4.450 | **1124683** |

Connection plate with lengthwise slot, for example for mounting threaded rods to profile rails 41 x 41 mm and 41 x 21 mm.



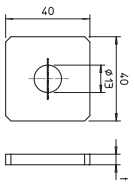



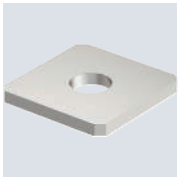
A2 A4 2B

## Connection plate with 1 hole

| Type | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **GMS 1 VP A2** | 4 | | 10 | 4.450 | **1124683** |
| **GMS 1 VP A4** | 4 | | 10 | 4.450 | **1124723** |

Connection plate with lengthwise slot, for example for mounting threaded rods to profile rails 41 x 41 mm and 41 x 21 mm.



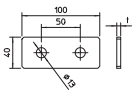



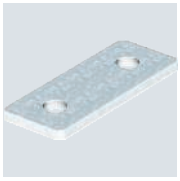
St FT

## Connection plate with 2 holes

| Type | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **GMS 2 VP FT** | 5 | | 10 | 14.000 | **1124645** |

Connection plate with two holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.



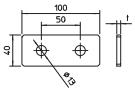



A2 A4 2B

## Connection plate with 2 holes

| Type | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **GMS 2 VP A2** | 4 | | 10 | 11.500 | **1124685** |
| **GMS 2 VP A4** | 4 | | 10 | 11.500 | **1124725** |

Connection plate with two holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.



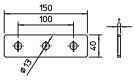



A2 2B

## Connection plate with 3 holes

| Type | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **GMS 3 VP A2** | 4 | | 20 | 17.200 | **1124687** |

Connection plate with three holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.





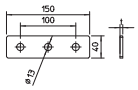



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## Connection plate with 3 holes

St FT





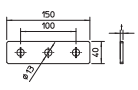

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GMS 3 VP FT | 5 | 20 | 24.010 | 1124647 |

Connection plate with three holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

## Connection plate with 3 holes

A2 A4 2B





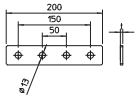

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GMS 3 VP A2 | 4 | 20 | 17.200 | 1124687 |
| GMS 3 VP A4 | 4 | 20 | 17.200 | 1124727 |

Connection plate with three holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

## Connection plate with 4 holes

St FT





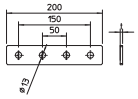

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GMS 4 VP FT | 5 | 10 | 35.580 | 1124649 |

Connection plate with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

## Connection plate with 4 holes

A2 A4 2B





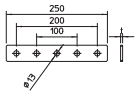

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GMS 4 VP A2 | 4 | 10 | 23.300 | 1124689 |
| GMS 4 VP A4 | 4 | 10 | 23.300 | 1124729 |

Connection plate with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

## Connection plate with 5 holes

St FT






| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GMS 5 VP FT | 5 | 10 | 40.000 | 1124651 |

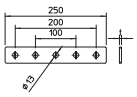
Connection plate with five holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

A2 A4 2B

## Connection plate with 5 holes

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GMS 5 VP A2 | 4 | 10 | 28.900 | 1124691 |
| GMS 5 VP A4 | 4 | 10 | 28.900 | 1124731 |

Connection plate with five holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.



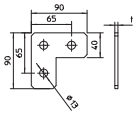



St FT

## Connection plate, L-shaped

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GMS 3 VP L FT | 5 | 10 | 25.000 | 1124653 |

Connection plate with three holes for angled connection of profile rails 41 x 41 mm and 41 x 21 mm.



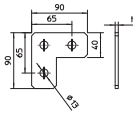



A2 A4 2B

## Connection plate, L-shaped

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GMS 3 VP L A2 | 4 | 10 | 15.900 | 1124693 |
| GMS 3 VP L A4 | 4 | 10 | 15.900 | 1124733 |

Connection plate with three holes for angled connection of profile rails 41 x 41 mm and 41 x 21 mm.



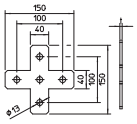


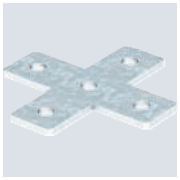

St FT

## Connection plate, X-shaped

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GMS 5 VP X FT | 5 | 10 | 48.000 | 1124657 |

Connection plate with five holes for cross connection of profile rails 41 x 41 mm and 41 x 21 mm.



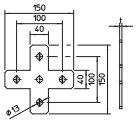



A2 A4 2B

## Connection plate, X-shaped

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GMS 5 VP X A2 | 4 | 10 | 29.600 | 1124697 |
| GMS 5 VP X A4 | 4 | 10 | 29.600 | 1124737 |

Connection plate with five holes for cross connection of profile rails 41 x 41 mm and 41 x 21 mm.



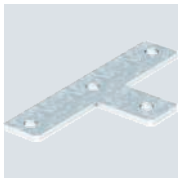


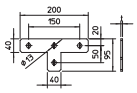



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## Connection plate, T-shaped

St FT





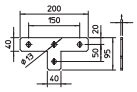

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **GMS 4 VP T FT** | 5 | 10 | 41.000 | **1124655** |

Connection plate with four holes for T-shaped connection of profile rails 41 x 41 mm and 41 x 21 mm.

## Connection plate, T-shaped

A2 A4 2B





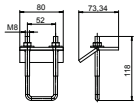

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **GMS 4 VP T A2** | 4 | 10 | 30.200 | **1124695** |
| **GMS 4 VP T A4** | 4 | 10 | 30.200 | **1124735** |

Connection plate with four holes for T-shaped connection of profile rails 41 x 41 mm and 41 x 21 mm.

## Clamp

St FT





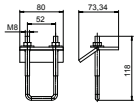

| Type | Length mm | Width mm | Height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **SB MS 41 M8 FT** | 118 | 80 | 74 | 20 | 32.300 | **1124679** |

Connection element for two-sided fastening of profile rails to steel girders. Fastening is possible independently of the arrangement of the rail opening. The rail length should be at least the width of the steel girder + 2 x 50 mm. Always use in pairs for mounting. For use with profile rail MS4022, MS4141, MS4142, MS4124.

## Clamp

A4



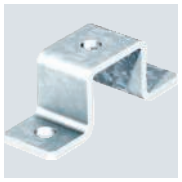


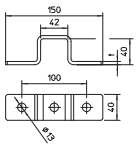

| Type | Length mm | Width mm | Height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **SB MS 41 M8 A4** | 118 | 80 | 74 | 20 | 32.300 | **1124719** |

Connection element for two-sided fastening of profile rails to steel girders. Fastening is possible independently of the arrangement of the rail opening. The rail length should be at least the width of the steel girder + 2 x 50 mm. Always use in pairs for mounting. For use with profile rail MS4022, MS4141, MS4142, MS4124.

## Omega clamp

St FT






| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **GMS 3 O 4141 FT** | 5 | 10 | 35.000 | **1124673** |

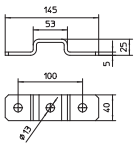
Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 41 mm.

St FT

## Omega clamp

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **GMS 3 O 4121 FT** | 5 | 10 | 26.540 | **1124671** |

Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 21 mm.



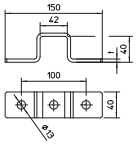



A2 A4 2B

## Omega clamp

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **GMS 3 O 4141 A2** | 5 | 10 | 25.400 | **1124713** |
| **GMS 3 O 4141 A4** | 5 | 10 | 25.400 | **1124753** |

Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 41 mm.



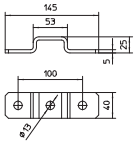



A2 A4 2B

## Omega clamp

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **GMS 3 O 4121 A2** | 4 | 10 | 20.900 | **1124711** |
| **GMS 3 O 4121 A4** | 4 | 10 | 20.900 | **1124751** |

Fastening clamp with 3 holes for cross-wise connection of profile rails 41 x 21 mm.



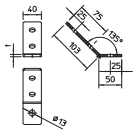



St FT

## Mounting bracket, 45° with 3 holes

| Type | Version | Shipping box Piece | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **GMS 3 VW 45 FT** | 45° angle | 40 | 10 | 24.010 | **1124667** |

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.



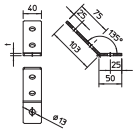



A2 A4 2B

## Mounting bracket, 45° with 3 holes

| Type | Version | Shipping box Piece | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **GMS 3 VW 45 A2** | 45° angle | 40 | 10 | 17.200 | **1124707** |
| **GMS 3 VW 45 A4** | 45° angle | 40 | 10 | 17.200 | **1124747** |

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.





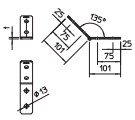



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Mounting bracket, 45° with 4 holes

St FT





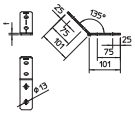

| Type | Version | Shipping box Piece | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **GMS 4 VW 45 FT** | 45° angle | 40 | 10 | 32.000 | **1124669** |

Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.

## Mounting bracket, 45° with 4 holes

A2 A4 2B



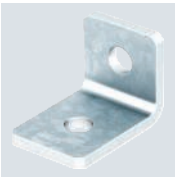


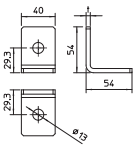

| Type | Version | Shipping box Piece | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **GMS 4 VW 45 A2** | 45° angle | 40 | 10 | 23.300 | **1124709** |
| **GMS 4 VW 45 A4** | 45° angle | 40 | 10 | 23.300 | **1124749** |

Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.

## Mounting bracket, 90° with 2 holes

St FT





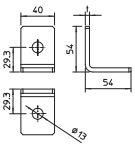

| Type | Version | Shipping box Piece | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **GMS 2 VW 90 FT** | 90° angle | 60 | 5 | 10 | 14.000 | **1124659** |

Mounting bracket with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

## Mounting bracket, 90° with 2 holes

A2 2B



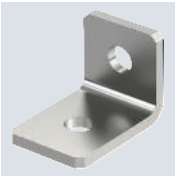


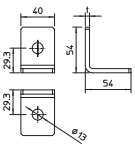

| Type | Version | Shipping box Piece | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **GMS 2 VW 90 A2** | 90° angle | 60 | 4 | 10 | 11.500 | **1124699** |

Mounting bracket with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

## Mounting bracket, 90° with 2 holes

A2 A4 2B






| Type | Version | Shipping box Piece | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **GMS 2 VW 90 A2** | 90° angle | 60 | 4 | 10 | 11.500 | **1124699** |
| **GMS 2 VW 90 A4** | 90° angle | 60 | 4 | 10 | 11.500 | **1124739** |

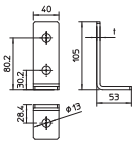
Mounting bracket with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

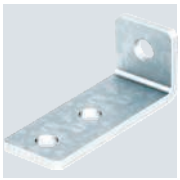
St FT

## Mounting bracket, 90° with 3 holes

| Type | Version | Shipping box Piece | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **GMS 3 VW 90 FT** | 90° angle | 40 | 5 | 10 | 25.910 | **1124661** |

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.



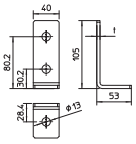



A2 2B

## Mounting bracket, 90° with 3 holes

| Type | Version | Shipping box Piece | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **GMS 3 VW 90 A2** | 90° angle | 40 | 4 | 10 | 17.700 | **1124701** |

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.



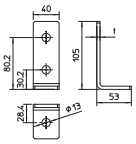



A2 A4 2B

## Mounting bracket, 90° with 3 holes

| Type | Version | Shipping box Piece | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **GMS 3 VW 90 A2** | 90° angle | 40 | 4 | 10 | 17.700 | **1124701** |
| **GMS 3 VW 90 A4** | 90° angle | 40 | 4 | 10 | 17.700 | **1124741** |

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.



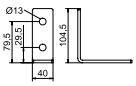



St FT

## Mounting bracket, 90° with 4 holes

| Type | Version | Shipping box Piece | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **GMS 4 VW 90 FT** | 90° angle | 30 | 5 | 10 | 32.000 | **1124663** |

Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.



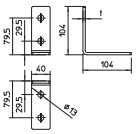



A2 2B

## Mounting bracket, 90° with 4 holes

| Type | Version | Shipping box Piece | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **GMS 4 VW 90 A2** | 90° angle | 30 | 4 | 10 | 23.300 | **1124703** |

Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.





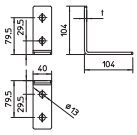



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## Mounting bracket, 90° with 4 holes

A2 A4 2B





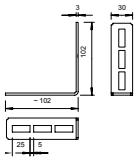
| Type | Version | Shipping box Piece | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **GMS 4 VW 90 A2** | 90° angle | 30 | 4 | | 10 | 23.300 | **1124703** |
| **GMS 4 VW 90 A4** | 90° angle | 30 | 4 | | 10 | 23.300 | **1124743** |

Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

## 90° mounting bracket

St FT



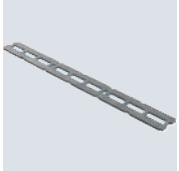


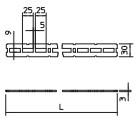
| Type | Version | Shipping box Piece | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **CMW90FT** | 90 angle | 25 | 3 | | 25 | 11.000 | **6350151** |

For stable 90° angle fastening of individual mountings.

## Self-build profile

St FT





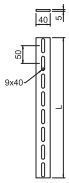
| Type | Length mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|
| **CMCP3000FT** | 3000 | | 30 | 55.000 | **6350208** |

Flat iron with slots for individual mounting.

## Construction and suspension profile

St FT



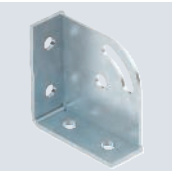


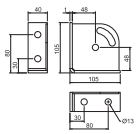
| Type | Dimension mm | Length mm | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **FLA 5 FT** | 40 x 5 | 3000 | | 3 | 155.000 | **6399061** |
| **FLA 8 FT** | 40 x 8 | 3000 | | 3 | 248.000 | **6399088** |

Flat steel for creation structures.

## Mounting bracket, 90° with 6 holes

St A2 A4 FT 2B





| Type | Version | Material thickness mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **GMS 6 KD FT** | 90° bracket | 5 | | 10 | 50.900 | **1124792** |
| **GMS 6 KD A2** | 90° bracket | 5 | | 10 | 48.800 | **1124796** |
| **GMS 6 KD A4** | 90° bracket | 5 | | 10 | 48.800 | **1124798** |

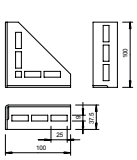
Reinforced mounting bracket with 6 holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°. Additional fastening option for a strut at an angle of 45° with an adjusting range of +/- 30°. Can be used for angles between 15° and 75°.

St FT

## Triangular node

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **CM3518 KD FT** | | 25 | 22.000 | **6350100** |

For stable corner fastening of individual mountings.



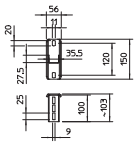


St FT

## Head plate

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **CM3518 KP FT** | | 25 | 42.000 | **6350054** |

For wall and ceiling fastening of individual mountings.





# Hat profile and support rail

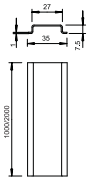
St BK

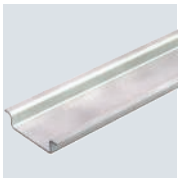
35

## Hat profile rail, unperforated

| Type | Version | Material thickness mm | Length mm | Bundle m | | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **2069 2M BK** | Unperforated | 1 | 2000 | 50 | | 36.040 | **1115618** |
| **2069 3M BK** | Unperforated | 1 | 3000 | – | | 36.034 | **1115855** |

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).





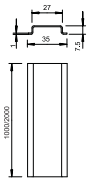
St FS

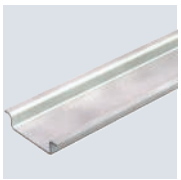
35

## Hat profile rail, unperforated

| Type | Version | Material thickness mm | Length mm | Bundle m | | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **2069 1M FS** | Unperforated | 1 | 1000 | 25 | | 36.020 | **1115677** |
| **2069 2M FS** | Unperforated | 1 | 2000 | 50 | | 36.033 | **1115626** |

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).





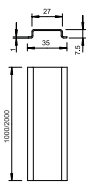
St GTP

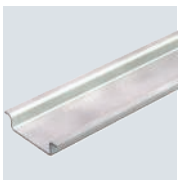
35

## Hat profile rail, unperforated

| Type | Version | Material thickness mm | Length mm | Bundle m | | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **2069 1M GTP** | Unperforated | 1 | 1000 | 25 | | 36.020 | **1115685** |
| **2069 2M GTP** | Unperforated | 1 | 2000 | 50 | | 36.040 | **1115650** |

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).



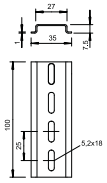




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## Hat profile rail, perforated



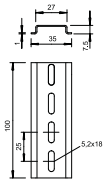



| Type | Version | Material thickness mm | Length mm | Bundle m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **2069 2M GTPL** | Perforated | 1 | 2000 | 50 | 33.280 | **1115669** |

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

## Hat profile rail, perforated

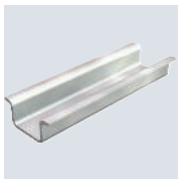


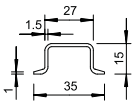



| Type | Version | Material thickness mm | Length mm | Bundle m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **2069 L 2M FS** | Perforated | 1 | 2000 | 50 | 33.280 | **1115804** |

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

## Hat profile rail, unperforated

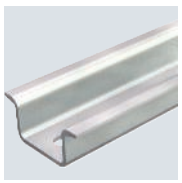


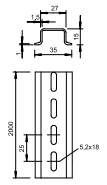



| Type | Version | Material thickness mm | Length mm | Bundle m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **2069 15 1.5 GTP** | Unperforated | 1.5 | 2000 | 20 | 66.000 | **1115421** |

Hat profile rail 35 x 15 mm similar to DIN EN 60715 (formerly DIN EN 50022), but with material thickness 1.5 mm.

## Hat profile rail, perforated

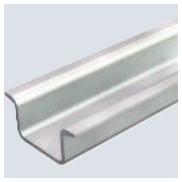


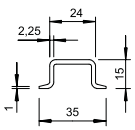



| Type | Version | Material thickness mm | Length mm | Bundle m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **2069 15 1.5 FS** | Perforated | 1.5 | 2000 | 20 | 64.000 | **1115460** |
| **2069 15 1.5 GTPL** | Perforated | 1.5 | 2000 | 20 | 64.000 | **1115456** |

Hat profile rail 35 x 15 mm similar to DIN EN 60715 (formerly DIN EN 50022), but with material thickness 1.5 mm.

## Hat profile rail, unperforated





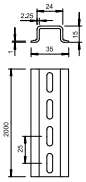

| Type | Version | Material thickness mm | Length mm | Bundle m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **2069 15 2.2 GTP** | Unperforated | 2.25 | 2000 | 20 | 97.000 | **1115553** |

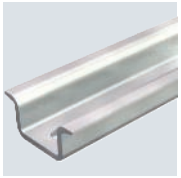
Hat profile rail 35 x 15 mm to DIN EN 60715 (formerly DIN EN 50022).

## Hat profile rail, perforated

| Type | Version | Material thickness mm | Length mm | Bundle m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **2069 15 2.2 GTPL** | Perforated | 2.25 | 2000 | 20 | 97.000 | **1115596** |

Hat profile rail 35 x 15 mm to DIN EN 60715 (formerly DIN EN 50022).

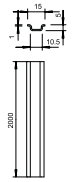


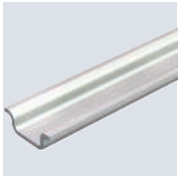


## Hat profile rail unperforated

| Type | Version | Material thickness mm | Length mm | Bundle m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **46277 GTP** | Unperforated | 1 | 2000 | 50 | 12.400 | **1115332** |

Hat profile rail 15 x 5 mm to DIN EN 60715 (formerly DIN EN 50045).

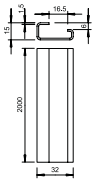


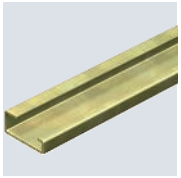


## Support rail, unperforated

| Type | Version | Material thickness mm | Length mm | Bundle m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **2064 GTP 2M** | Unperforated | 1.5 | 2000 | 20 | 70.000 | **1115057** |

G rail G32 to DIN EN 60715 (previously DIN EN 50035).

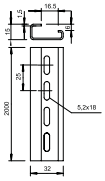


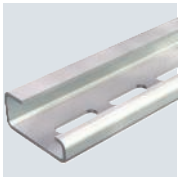


## Support rail, perforated

| Type | Version | Material thickness mm | Length mm | Bundle m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|
| **2064 GTPL 2M** | Perforated | 1.5 | 2000 | 20 | 69.000 | **1115065** |

G rail G32 to DIN EN 60715 (previously DIN EN 50035).

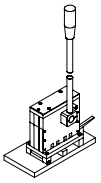




## Hat profile and support rail cutting unit

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **HTS 35** | 1 | 2,000.000 | **1125036** |

With the HTS 35 hat and support rail cutting device, you can cut the four most common hat and support rail profiles (types 2069..., 46277... and 2064...) to fit and without burring in accordance with DIN 50022 and DIN 50035.







Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

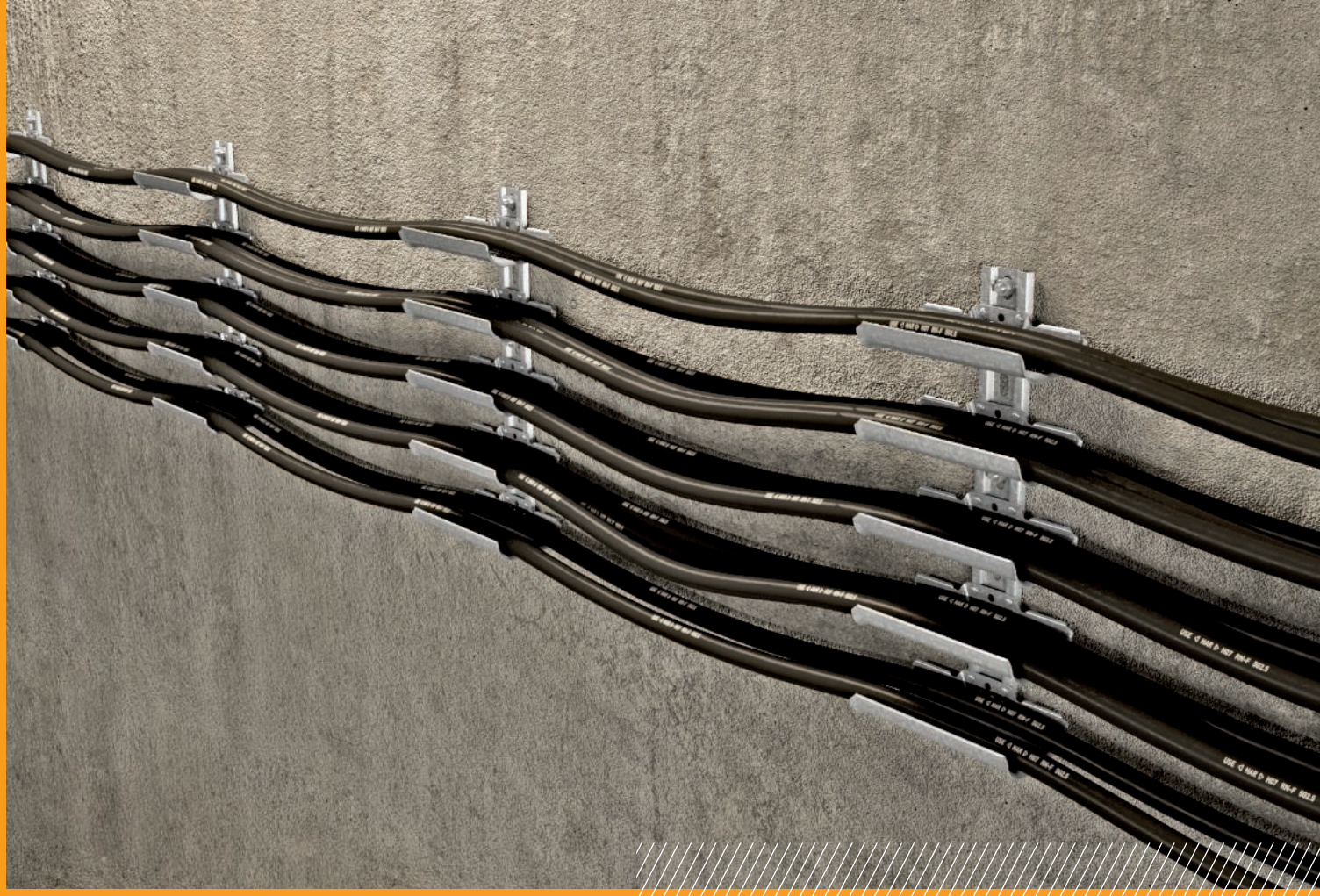
## Steel wire tensioning rope 957

St G



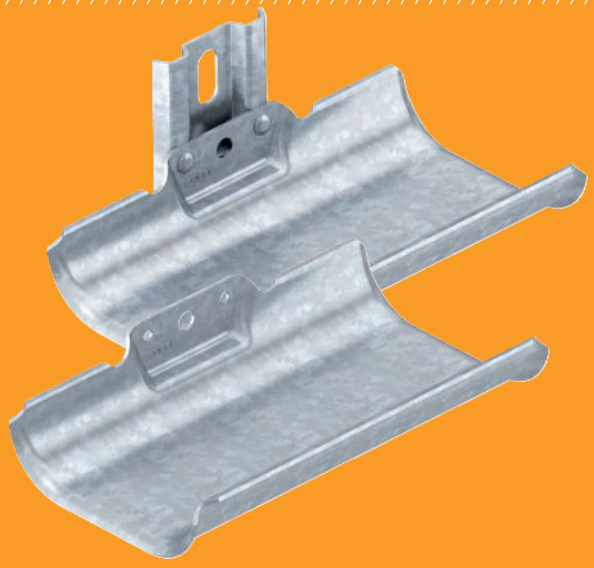
| Type | Cable diameter mm | Dim. L mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **957 2,0x100 G S** | 2 | 100000 | | 1 | 180.000 | **5303203** |

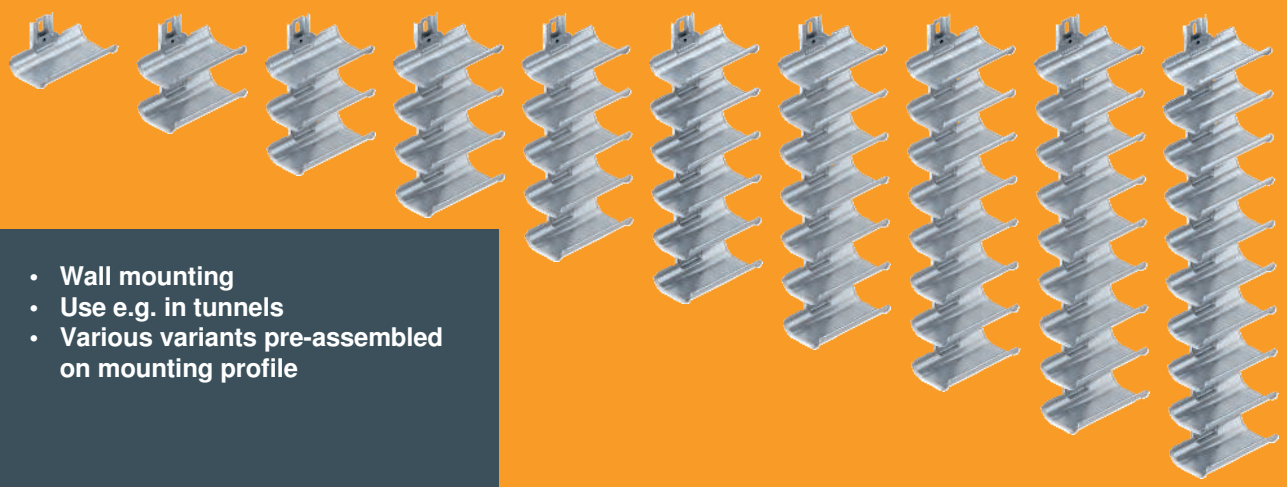
Steel wire tensioning rope, galvanised with fibre inlay (hemp core).
Cable Ø 2–6 mm: Round flexible cable 6 x 7 to DIN 3055.
Cable Ø 8–10 mm: Round flexible cable 6 x 19 to DIN 3060.
Minimum break load 1,770 N/mm².



# Cable support brackets

Cable support troughs are used for quick and easy routing of cables in areas where conventional cable support systems cannot be installed due to lack of space. The cable support troughs have a large load-bearing surface and rounded outer edges to protect the cables.





- **Wall mounting**
- **Use e.g. in tunnels**
- **Various variants pre-assembled on mounting profile**

St FT

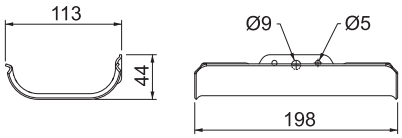
## Cable carrier trough, single, for individual routing

| Type | Side height mm | F in kN per trough kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|
| **KTW 100 FT** | 44 | 0.35 | 1 | 48.000 | **6006890** |



In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

Cable support brackets for quick and easy routing of cables in areas where common cable support systems cannot be installed due to lack of space. The cable support brackets possess a large load-bearing surface as well as rounded outer edges to protect the cables.

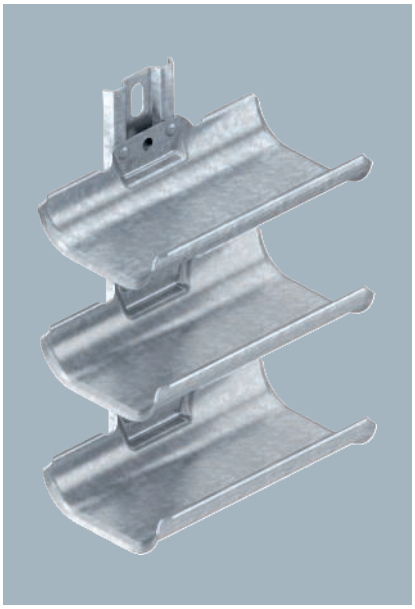





Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Cable support trough, single, with fastening rail

St FT



| Type | Dim. L mm | Number of troughs | F in kN per trough kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **KTW 100 1 FT** | 140 | 1 | 0.5 | 1 | 6.100 | **6006901** |

### Load

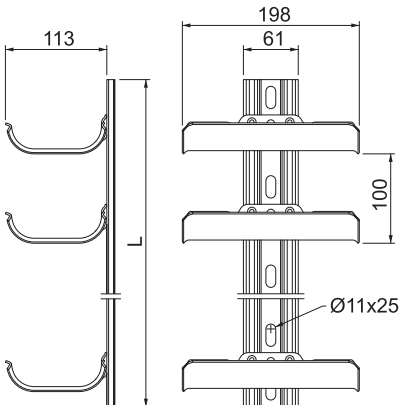
**Load**

| Type | Levels | Total load | Quantity of anchors |
|---|---|---|---|
| KTW 100 1 FT | 1 | 0.950 kN | 1 |
| KTW 100 2 FT | 2 | 1.0 kN | 1 |
| KTW 100 3 FT | 3 | 0.15 kN | 1 |
| KTW 100 4 FT | 4 | 0.950 kN | 2 |
| KTW 100 5 FT | 5 | 2.5 kN | 2 |
| KTW 100 6 FT | 6 | 3.0 kN | 2 |
| KTW 100 7 FT | 7 | 3.5 kN | 3 |
| KTW 100 8 FT | 8 | 4.0 kN | 3 |
| KTW 100 9 FT | 9 | 4.5 kN | 3 |
| KTW 100 10 FT | 10 | 5.0 kN | 4 |

The stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).

In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

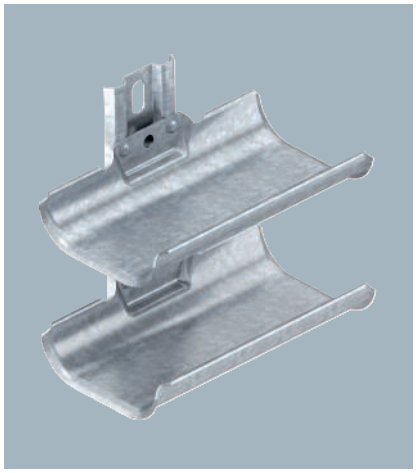
Cable support brackets for quick and easy routing of cables in areas where common cable support systems cannot be installed due to lack of space. The cable support brackets possess a large load-bearing surface as well as rounded outer edges to protect the cables.



St FT

## Cable carrier troughs, 2-fold, with mounting rail

| Type | Dim. L mm | Number of troughs | F in kN per trough kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **KTW 100 2 FT** | 200 | 2 | 0.5 | | 1 | 111.000 | **6006902** |



### Load

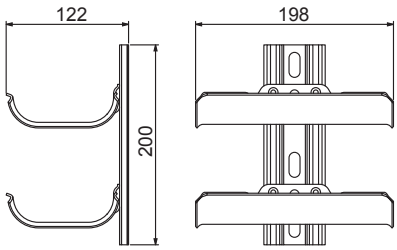
**Load**

| Type | Levels | Total load | Quantity of anchors |
|---|---|---|---|
| KTW 100 1 FT | 1 | 0.950 kN | 1 |
| KTW 100 2 FT | 2 | 1.0 kN | 1 |
| KTW 100 3 FT | 3 | 0.15 kN | 1 |
| KTW 100 4 FT | 4 | 0.950 kN | 2 |
| KTW 100 5 FT | 5 | 2.5 kN | 2 |
| KTW 100 6 FT | 6 | 3.0 kN | 2 |
| KTW 100 7 FT | 7 | 3.5 kN | 3 |
| KTW 100 8 FT | 8 | 4.0 kN | 3 |
| KTW 100 9 FT | 9 | 4.5 kN | 3 |
| KTW 100 10 FT | 10 | 5.0 kN | 4 |

The stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).

In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

Cable support brackets for quick and easy routing of cables in areas where common cable support systems cannot be installed due to lack of space. The cable support brackets possess a large load-bearing surface as well as rounded outer edges to protect the cables.

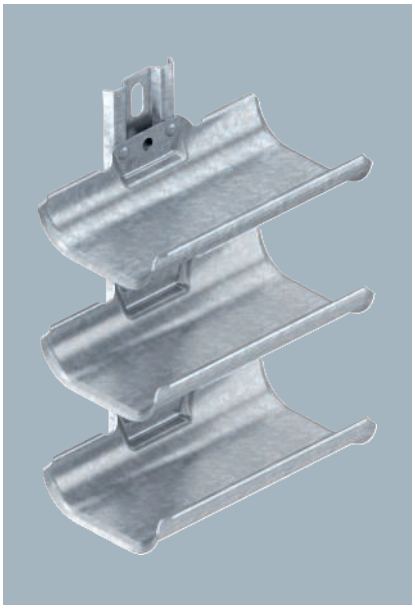





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## Cable carrier troughs, 3-fold, with mounting rail

St FT



| Type | Dim. L mm | Number of troughs | F in kN per trough kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **KTW 100 3 FT** | 300 | 3 | 0.5 | | 1 | 168.000 | **6006903** |

### Load

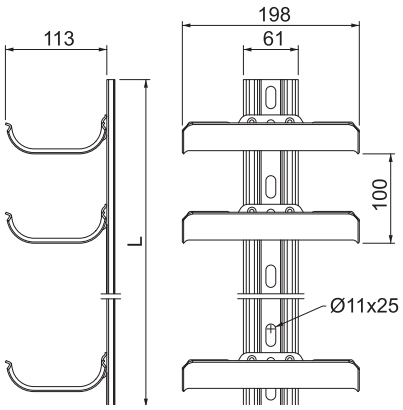
**Load**

| Type | Levels | Total load | Quantity of anchors |
|---|---|---|---|
| KTW 100 1 FT | 1 | 0.950 kN | 1 |
| KTW 100 2 FT | 2 | 1.0 kN | 1 |
| KTW 100 3 FT | 3 | 0.15 kN | 1 |
| KTW 100 4 FT | 4 | 0.950 kN | 2 |
| KTW 100 5 FT | 5 | 2.5 kN | 2 |
| KTW 100 6 FT | 6 | 3.0 kN | 2 |
| KTW 100 7 FT | 7 | 3.5 kN | 3 |
| KTW 100 8 FT | 8 | 4.0 kN | 3 |
| KTW 100 9 FT | 9 | 4.5 kN | 3 |
| KTW 100 10 FT | 10 | 5.0 kN | 4 |

The stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).

In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

Cable support brackets for quick and easy routing of cables in areas where common cable support systems cannot be installed due to lack of space. The cable support brackets possess a large load-bearing surface as well as rounded outer edges to protect the cables.



St FT

## Cable carrier troughs, 4-fold, with mounting rail

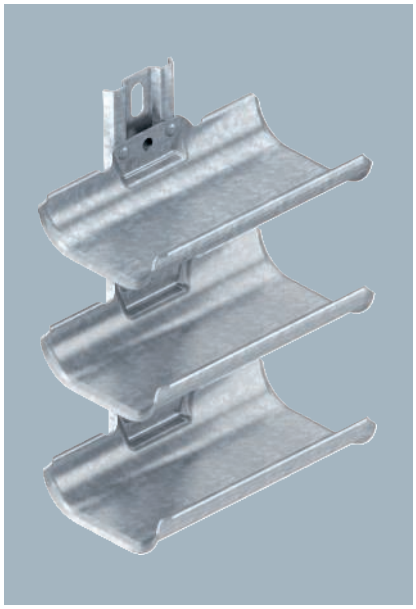
| Type | Dim. L mm | Number of troughs | F in kN per trough kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **KTW 100 4 FT** | 400 | 4 | 0.5 | | 1 | 225.000 | **6006904** |

### Load

**Load**

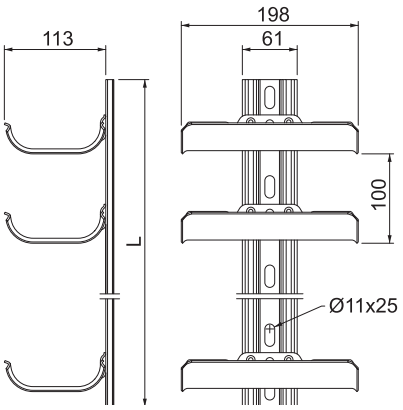
| Type | Levels | Total load | Quantity of anchors |
|---|---|---|---|
| KTW 100 1 FT | 1 | 0.950 kN | 1 |
| KTW 100 2 FT | 2 | 1.0 kN | 1 |
| KTW 100 3 FT | 3 | 0.15 kN | 1 |
| KTW 100 4 FT | 4 | 0.950 kN | 2 |
| KTW 100 5 FT | 5 | 2.5 kN | 2 |
| KTW 100 6 FT | 6 | 3.0 kN | 2 |
| KTW 100 7 FT | 7 | 3.5 kN | 3 |
| KTW 100 8 FT | 8 | 4.0 kN | 3 |
| KTW 100 9 FT | 9 | 4.5 kN | 3 |
| KTW 100 10 FT | 10 | 5.0 kN | 4 |

The stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).



In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

Cable support brackets for quick and easy routing of cables in areas where common cable support systems cannot be installed due to lack of space. The cable support brackets possess a large load-bearing surface as well as rounded outer edges to protect the cables.

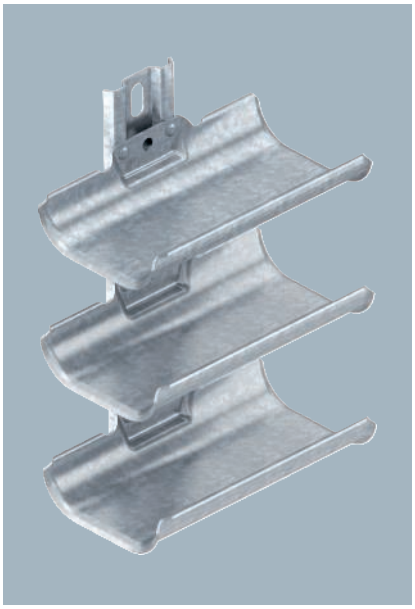





Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Cable carrier troughs, 5-fold, with mounting rail

St FT



| Type | Dim. L mm | Number of troughs | F in kN per trough kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **KTW 100 5 FT** | 500 | 5 | 0.5 | | 1 | 361.000 | **6006905** |

### Load

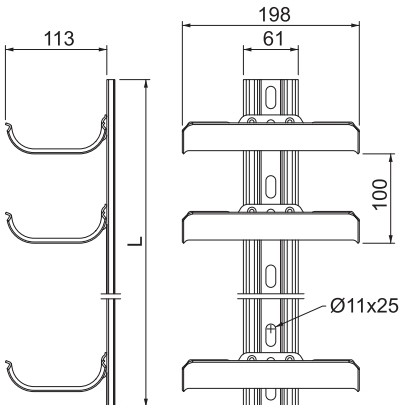
**Load**

| Type | Levels | Total load | Quantity of anchors |
|---|---|---|---|
| KTW 100 1 FT | 1 | 0.950 kN | 1 |
| KTW 100 2 FT | 2 | 1.0 kN | 1 |
| KTW 100 3 FT | 3 | 0.15 kN | 1 |
| KTW 100 4 FT | 4 | 0.950 kN | 2 |
| KTW 100 5 FT | 5 | 2.5 kN | 2 |
| KTW 100 6 FT | 6 | 3.0 kN | 2 |
| KTW 100 7 FT | 7 | 3.5 kN | 3 |
| KTW 100 8 FT | 8 | 4.0 kN | 3 |
| KTW 100 9 FT | 9 | 4.5 kN | 3 |
| KTW 100 10 FT | 10 | 5.0 kN | 4 |

The stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).

In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

Cable support brackets for quick and easy routing of cables in areas where common cable support systems cannot be installed due to lack of space. The cable support brackets possess a large load-bearing surface as well as rounded outer edges to protect the cables.



St FT

## Cable carrier troughs, 6-fold, with mounting rail

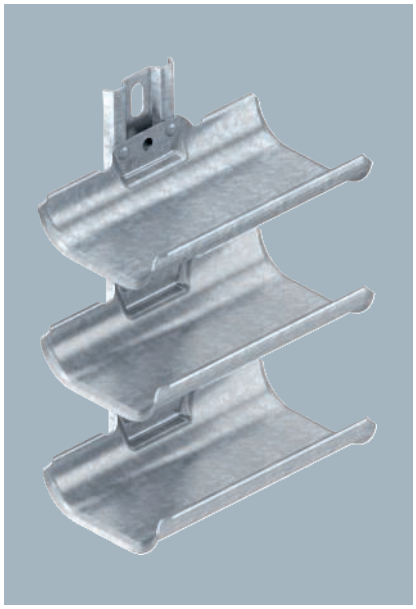
| Type | Dim. L mm | Number of troughs | F in kN per trough kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **KTW 100 6 FT** | 600 | 6 | 0.5 | | 1 | 339.000 | **6006906** |

### Load

**Load**

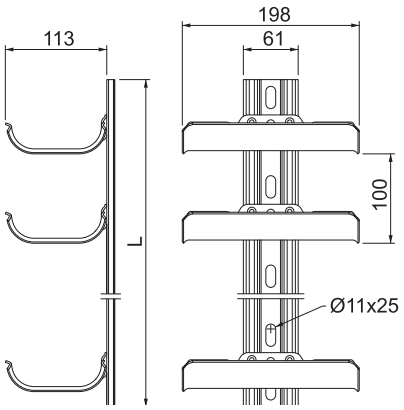
| Type | Levels | Total load | Quantity of anchors |
|---|---|---|---|
| KTW 100 1 FT | 1 | 0.950 kN | 1 |
| KTW 100 2 FT | 2 | 1.0 kN | 1 |
| KTW 100 3 FT | 3 | 0.15 kN | 1 |
| KTW 100 4 FT | 4 | 0.950 kN | 2 |
| KTW 100 5 FT | 5 | 2.5 kN | 2 |
| KTW 100 6 FT | 6 | 3.0 kN | 2 |
| KTW 100 7 FT | 7 | 3.5 kN | 3 |
| KTW 100 8 FT | 8 | 4.0 kN | 3 |
| KTW 100 9 FT | 9 | 4.5 kN | 3 |
| KTW 100 10 FT | 10 | 5.0 kN | 4 |

The stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).



In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

Cable support brackets for quick and easy routing of cables in areas where common cable support systems cannot be installed due to lack of space. The cable support brackets possess a large load-bearing surface as well as rounded outer edges to protect the cables.

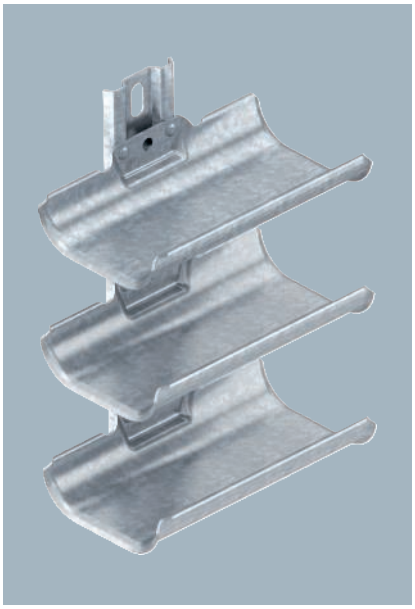





Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Cable carrier troughs, 7-fold, with mounting rail

St FT



| Type | Dim. L mm | Number of troughs | F in kN per trough kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **KTW 100 7 FT** | 700 | 7 | 0.5 | | 1 | 395.000 | **6006907** |

### Load

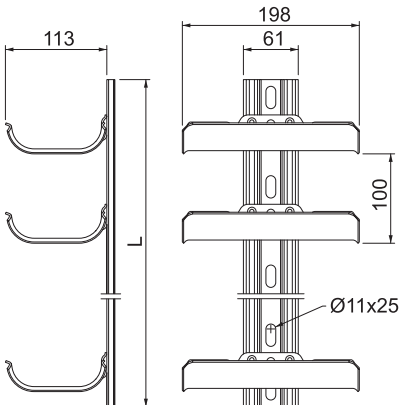
**Load**

| Type | Levels | Total load | Quantity of anchors |
|---|---|---|---|
| KTW 100 1 FT | 1 | 0.950 kN | 1 |
| KTW 100 2 FT | 2 | 1.0 kN | 1 |
| KTW 100 3 FT | 3 | 0.15 kN | 1 |
| KTW 100 4 FT | 4 | 0.950 kN | 2 |
| KTW 100 5 FT | 5 | 2.5 kN | 2 |
| KTW 100 6 FT | 6 | 3.0 kN | 2 |
| KTW 100 7 FT | 7 | 3.5 kN | 3 |
| KTW 100 8 FT | 8 | 4.0 kN | 3 |
| KTW 100 9 FT | 9 | 4.5 kN | 3 |
| KTW 100 10 FT | 10 | 5.0 kN | 4 |

The stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).

In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

Cable support brackets for quick and easy routing of cables in areas where common cable support systems cannot be installed due to lack of space. The cable support brackets possess a large load-bearing surface as well as rounded outer edges to protect the cables.



St FT

## Cable carrier troughs, 8-fold, with mounting rail

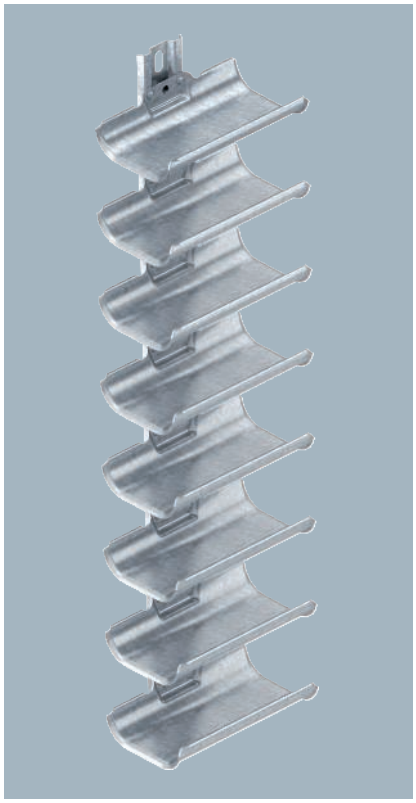
| Type | Dim. L mm | Number of troughs | F in kN per trough kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **KTW 100 8 FT** | 800 | 8 | 0.5 | | 1 | 452.000 | **6006908** |

### Load

**Load**

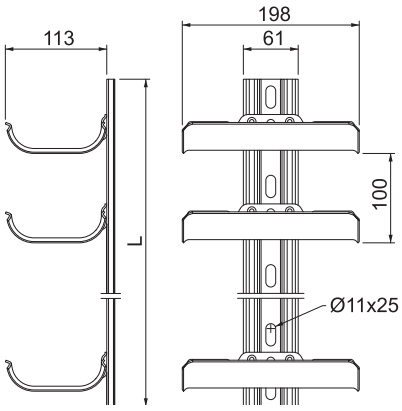
| Type | Levels | Total load | Quantity of anchors |
|---|---|---|---|
| KTW 100 1 FT | 1 | 0.950 kN | 1 |
| KTW 100 2 FT | 2 | 1.0 kN | 1 |
| KTW 100 3 FT | 3 | 0.15 kN | 1 |
| KTW 100 4 FT | 4 | 0.950 kN | 2 |
| KTW 100 5 FT | 5 | 2.5 kN | 2 |
| KTW 100 6 FT | 6 | 3.0 kN | 2 |
| KTW 100 7 FT | 7 | 3.5 kN | 3 |
| KTW 100 8 FT | 8 | 4.0 kN | 3 |
| KTW 100 9 FT | 9 | 4.5 kN | 3 |
| KTW 100 10 FT | 10 | 5.0 kN | 4 |

The stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).



In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

Cable support brackets for quick and easy routing of cables in areas where common cable support systems cannot be installed due to lack of space. The cable support brackets possess a large load-bearing surface as well as rounded outer edges to protect the cables.

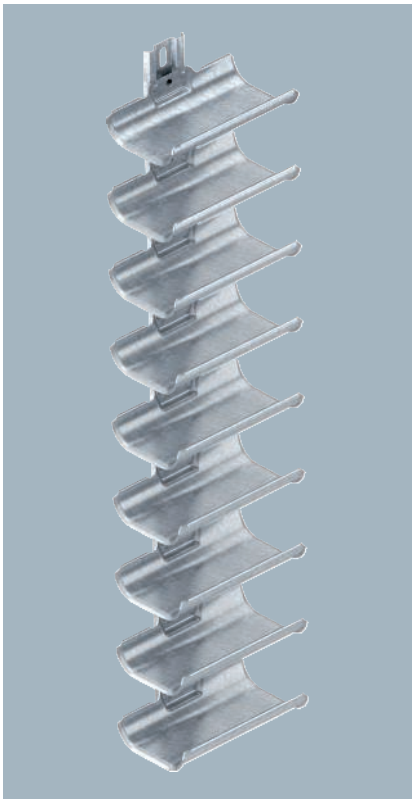





Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## Cable support trough, 9x, with fastening rail

St FT



| Type | Dim. L mm | Number of troughs | F in kN per trough kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **KTW 100 9 FT** | 900 | 9 | 0.5 | | 1 | 465.000 | **6006909** |

### Load

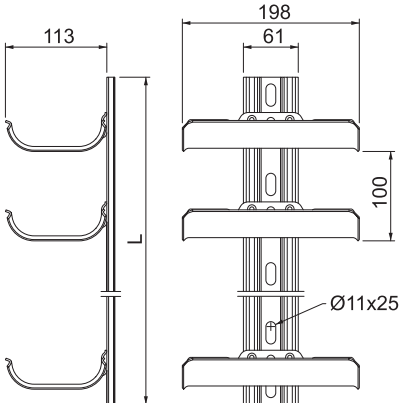
**Load**

| Type | Levels | Total load | Quantity of anchors |
|---|---|---|---|
| KTW 100 1 FT | 1 | 0.950 kN | 1 |
| KTW 100 2 FT | 2 | 1.0 kN | 1 |
| KTW 100 3 FT | 3 | 0.15 kN | 1 |
| KTW 100 4 FT | 4 | 0.950 kN | 2 |
| KTW 100 5 FT | 5 | 2.5 kN | 2 |
| KTW 100 6 FT | 6 | 3.0 kN | 2 |
| KTW 100 7 FT | 7 | 3.5 kN | 3 |
| KTW 100 8 FT | 8 | 4.0 kN | 3 |
| KTW 100 9 FT | 9 | 4.5 kN | 3 |
| KTW 100 10 FT | 10 | 5.0 kN | 4 |

The stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).

In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

Cable support brackets for quick and easy routing of cables in areas where common cable support systems cannot be installed due to lack of space. The cable support brackets possess a large load-bearing surface as well as rounded outer edges to protect the cables.



St FT

# Cable support trough, 10x, with fastening rail

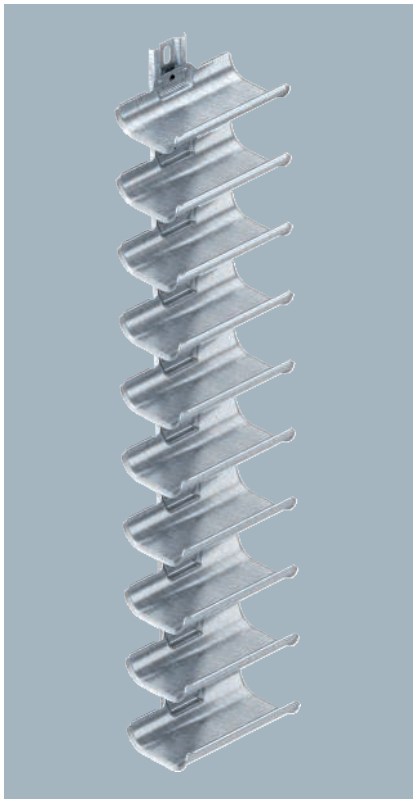
| Type | Dim. L mm | Number of troughs | F in kN per trough kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|---|
| **KTW 100 10 FT** | 1000 | 10 | 0.5 | | 1 | 565.000 | **6006910** |

## Load

**Load**

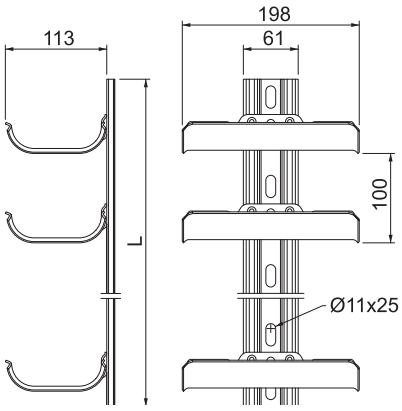
| Type | Levels | Total load | Quantity of anchors |
|---|---|---|---|
| KTW 100 1 FT | 1 | 0.950 kN | 1 |
| KTW 100 2 FT | 2 | 1.0 kN | 1 |
| KTW 100 3 FT | 3 | 0.15 kN | 1 |
| KTW 100 4 FT | 4 | 0.950 kN | 2 |
| KTW 100 5 FT | 5 | 2.5 kN | 2 |
| KTW 100 6 FT | 6 | 3.0 kN | 2 |
| KTW 100 7 FT | 7 | 3.5 kN | 3 |
| KTW 100 8 FT | 8 | 4.0 kN | 3 |
| KTW 100 9 FT | 9 | 4.5 kN | 3 |
| KTW 100 10 FT | 10 | 5.0 kN | 4 |

The stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).



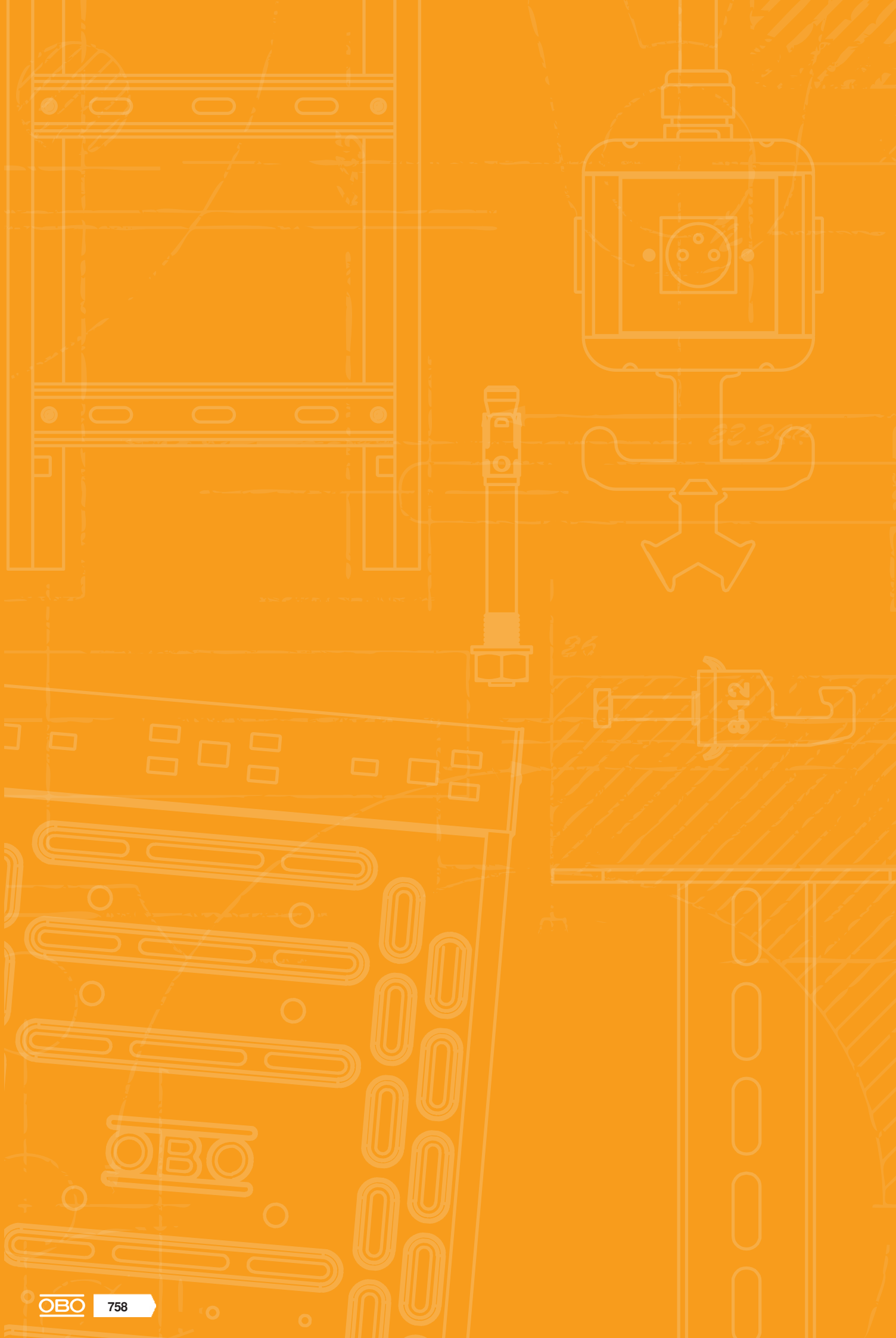
In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

Cable support brackets for quick and easy routing of cables in areas where common cable support systems cannot be installed due to lack of space. The cable support brackets possess a large load-bearing surface as well as rounded outer edges to protect the cables.






Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04



# Motor connection column




Motor connection column 760



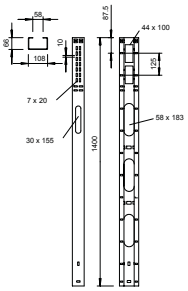

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Motor connection column

## Motor connection column

St FT





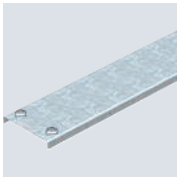

| Type | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **MAS 140 10 FT** | 1400 | 1 | 505.000 | **6356311** |

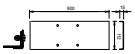
Vertical motor connection column to supply electrical devices.

# Accessories, motor connection columns

## Cover for motor connection column

St FT





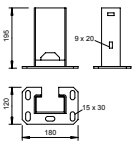
| Type | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **MASD 90 FT** | 900 | 1 | 160.000 | **6356915** |

Cover with turn buckle for motor connection column.

## Column foot

St FT





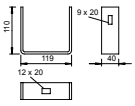

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **SF 140 11 FT** | 1 | 200.000 | **6356397** |

Column foot for fastening of the motor connection column.

## Mounting bracket

St FT



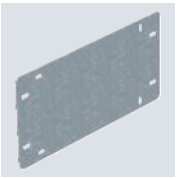


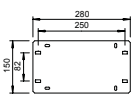

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **BF 140 10 FT** | 10 | 50.000 | **6356362** |

Mounting bracket for side fastening of motor connection columns to bases or on the wall.

## Device plate GP 15

St FT






| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|
| **GP 15 28 FT** | 1 | 101.000 | **6357008** |

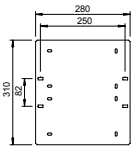
Mounting plate for fastening to motor connection column, type MAS 140/10.

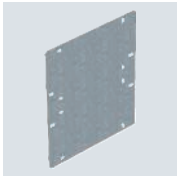
St FT

## Device plate GP 31

| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| GP 31 28 FT | | 1 | 210.000 | 6357016 |

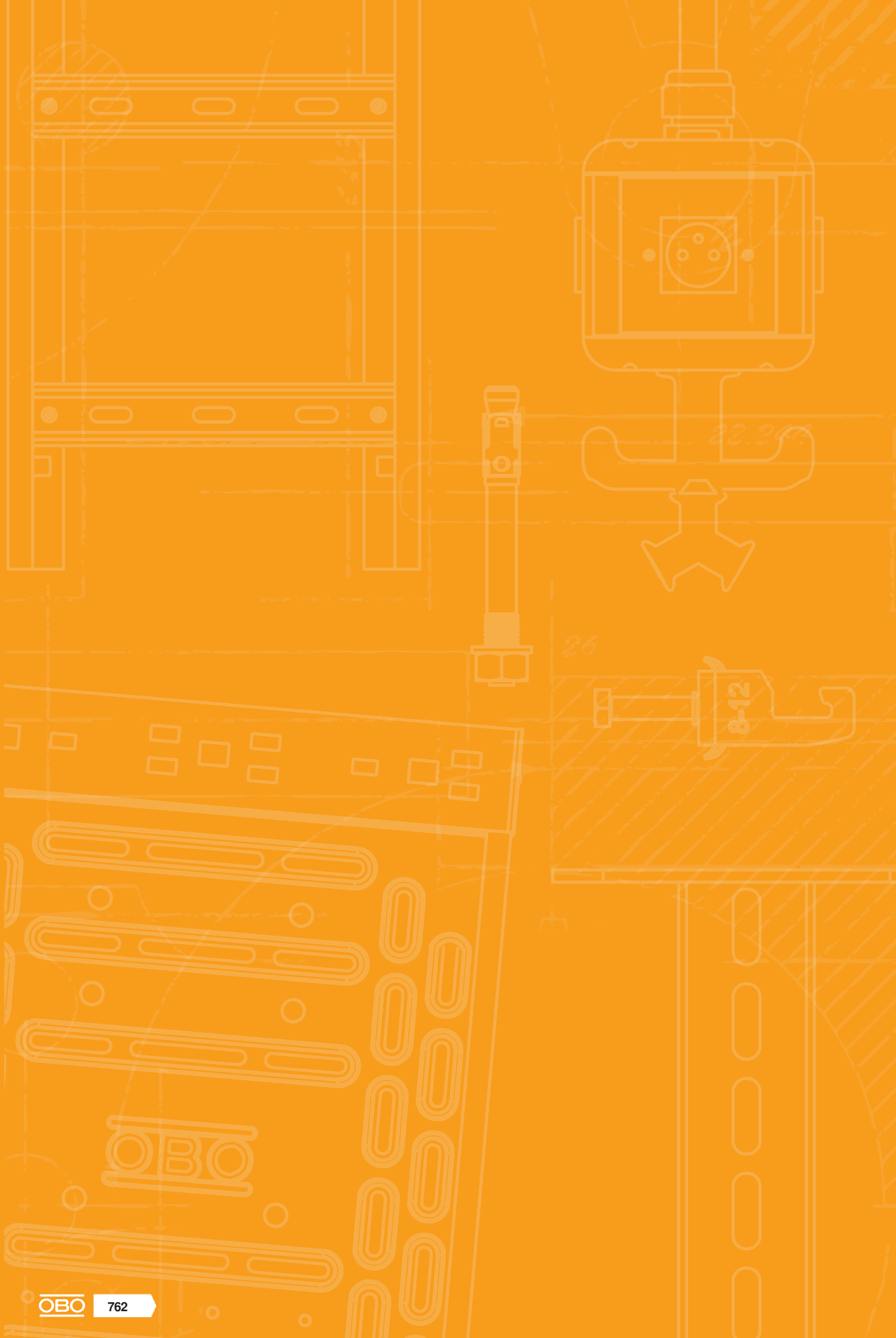
Mounting plate for fastening to motor connection column, type MAS 140/10.





Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04



# Industrial ducts



AZ small ducts 764


Connector 766


Lid for fittings 768

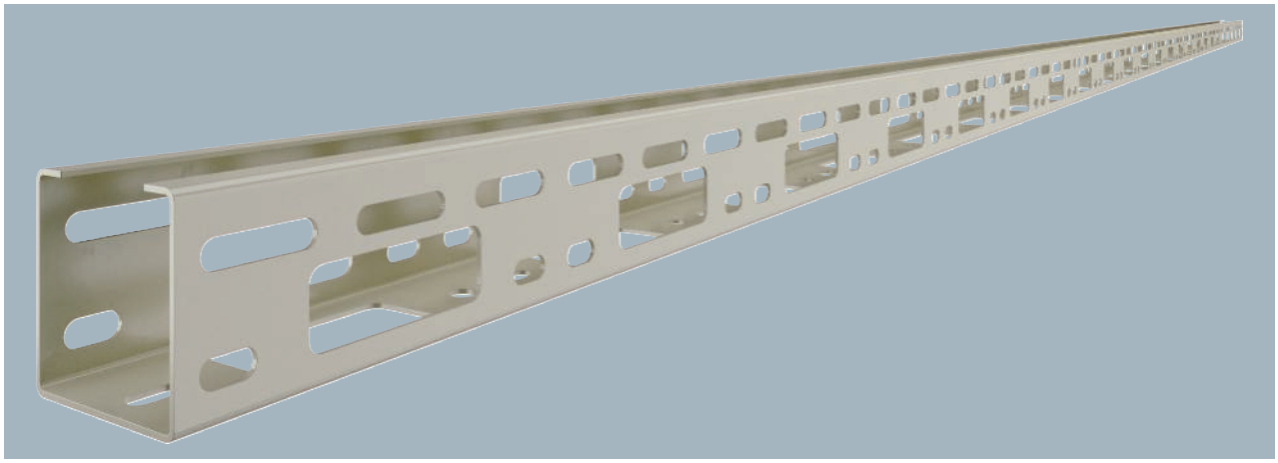

Accessories 770




Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

## AZ small duct 50, gravel grey

St

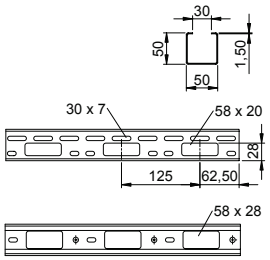


| Type | Width mm | Metal thick-ness mm | Colour | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **AZK 050 FTK KGR** | 50 | 1.50 | Pebble grey | | 6 | 146.766 | **6076924** |

AZ channel with a side height of 50 mm.

| Type | Length mm | Width mm | Side height mm |
|---|---|---|---|
| AZK 050 FTK KGR | 3000 | 50 | 50 |

**Dimensions**




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|---|
| **AZK 050 FTK KGR** | — | 2 | 1.2 | 0.85 | 0.5 |

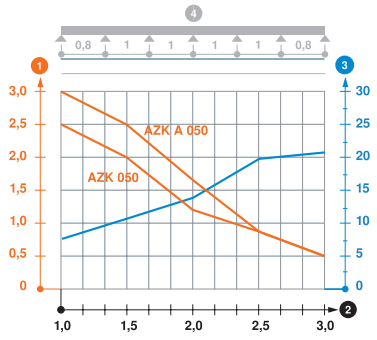
**Load diagram, AZ channel**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

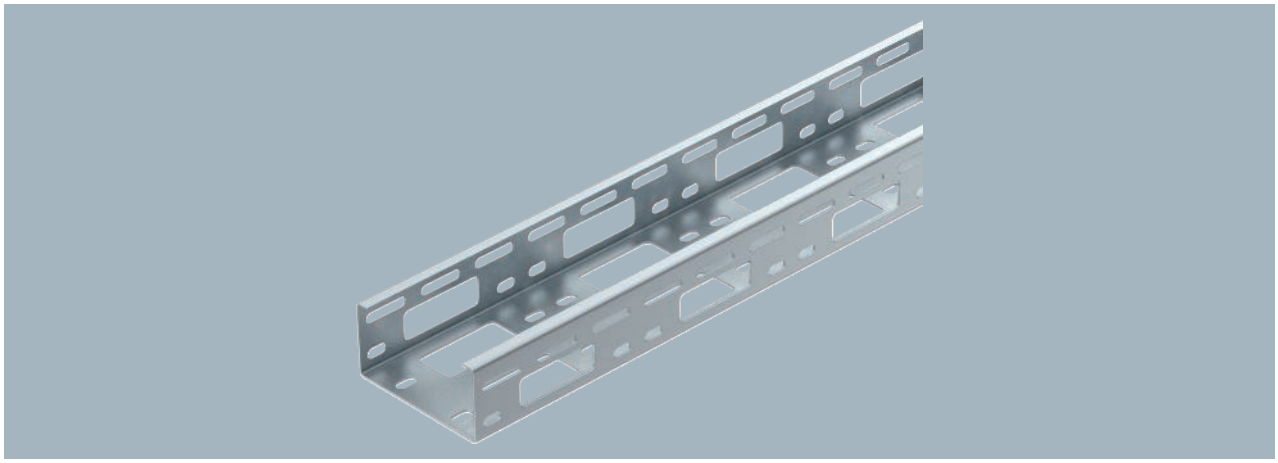
— Strut bend curve according to support width

**Load**



St

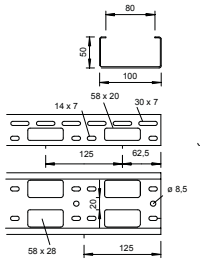
# AZ small duct 100, gravel grey



AZ channel with a side height of 50 mm.

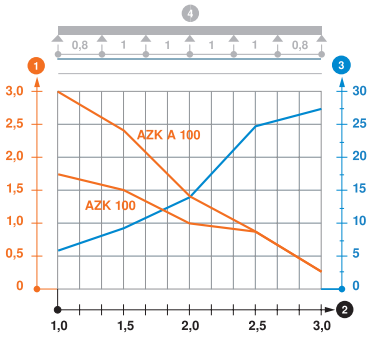
| Type | Width mm | Metal thick-ness mm | Colour | | Pack m | Weight kg/100 m | Item no. |
|---|---|---|---|---|---|---|---|
| **AZK 100 FTK KGR** | 100 | 1.50 | Pebble grey | | 6 | 191.370 | **6076926** |

## Dimensions




| Type | Length mm | Width mm | Side height mm |
|---|---|---|---|
| AZK 100 FTK KGR | 3000 | 100 | 50 |

## Load




| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|---|---|---|---|---|---|
| **AZK 100 FTK KGR** | — | 1.5 | 1 | 0.8 | 0.25 |

**Load diagram, AZ channel**

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



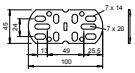
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Always indicate the item number when ordering.

## Straight and angle connector

St






| Type | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **VF AZK FTK KGR** | | 25 | 8.056 | **6066640** |

Straight and angle connector for connection of AZ channels.

An adjustable connector can be created using two straight and angle connectors. Scope of delivery including bolts with combination nuts.

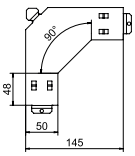




## Cover for 90° bend

St DD





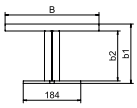

| Type | Side height mm | Width mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **LTS DFB DD** | 50 | 50 | | 1 | 10.800 | **6074952** |

Cover for 90° bend.

## Floor support 90 for BKRS

St FT





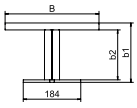

| Type | Dim. B mm | Dim. b1 mm | Dim. b2 mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **BSS 90 200 FT** | 200 | 90 | 59.5 | 1 | 179.300 | **6044473** |
| **BSS 90 300 FT** | 300 | 90 | 59.5 | 1 | 195.300 | **6044475** |
| **BSS 90 400 FT** | 400 | 90 | 59.5 | 1 | 211.300 | **6044477** |
| **BSS 90 500 FT** | 500 | 90 | 59.5 | 1 | 227.300 | **6044479** |
| **BSS 90 600 FT** | 600 | 90 | 59.5 | 1 | 244.300 | **6044481** |

Floor support in T form, with unperforated profile rail. For holding up walkable cable trays, type BKRS. Height 90 mm.

## Floor support 190 for BKRS

St FT





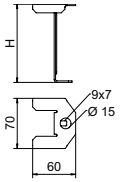

| Type | Dim. B mm | Dim. b1 mm | Dim. b2 mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|---|---|
| **BSS 190 100 FT** | 100 | 190 | 159.5 | 1 | 178.900 | **6044501** |
| **BSS 190 200 FT** | 200 | 190 | 159.5 | 1 | 194.900 | **6044503** |
| **BSS 190 300 FT** | 300 | 190 | 159.5 | 1 | 210.900 | **6044505** |
| **BSS 190 400 FT** | 400 | 190 | 159.5 | 1 | 226.900 | **6044507** |
| **BSS 190 500 FT** | 500 | 190 | 159.5 | 1 | 242.900 | **6044509** |
| **BSS 190 600 FT** | 600 | 190 | 159.5 | 1 | 258.900 | **6044511** |

Floor support in T form, with unperforated profile rail. For holding up walkable cable trays, type BKRS. Height 190 mm.

## Cover support 100

St FS





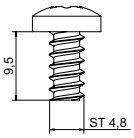

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **DST100 BKRS FS** | 100 | 10 | 10.600 | **6049239** |

Cover support for the walkable BKRS cable tray system, for additional support of covers at a side height of 100 mm.

## Lens head metal screw

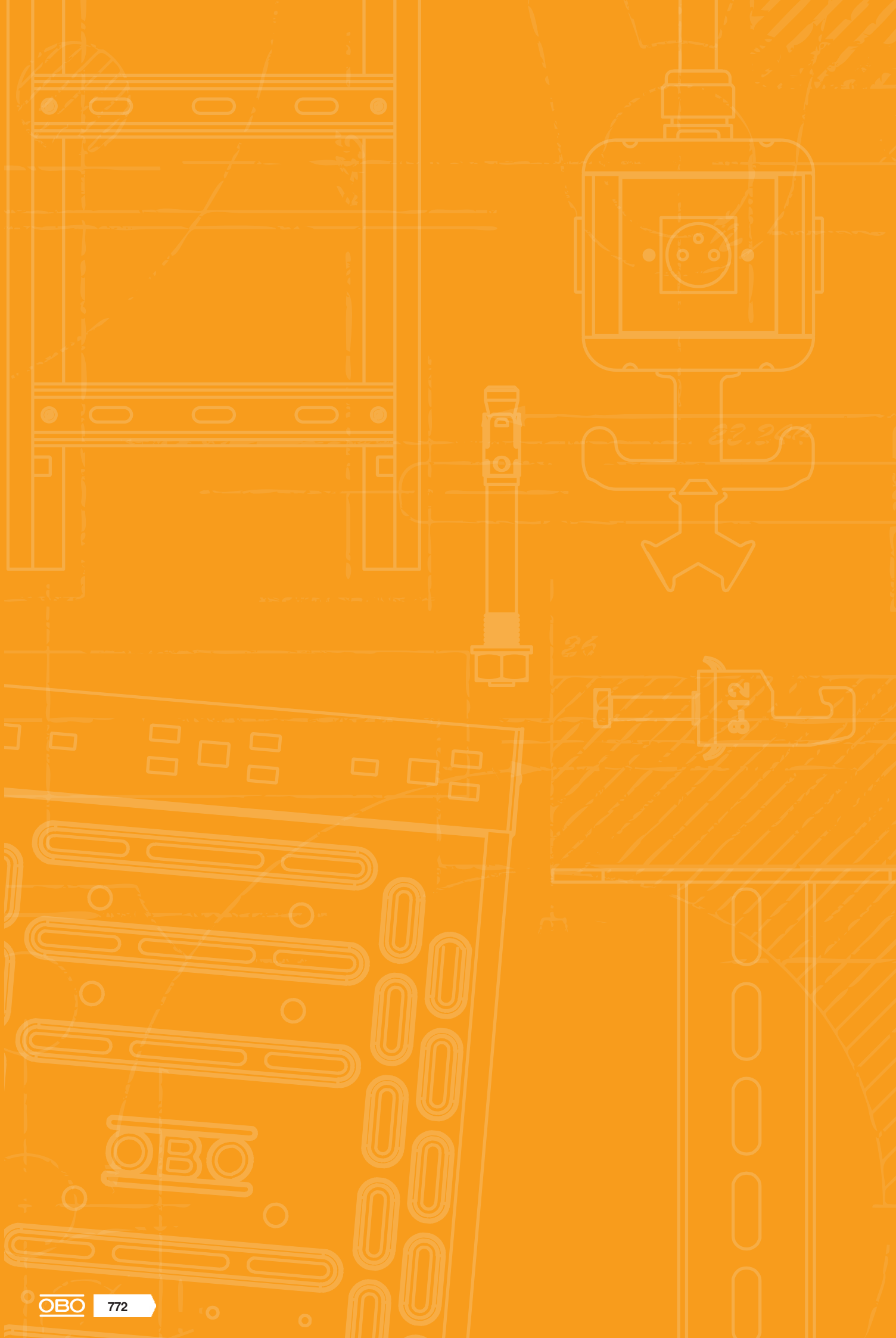
St G






| Type | Dimension mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---|---|---|---|---|
| **SPHS 4,8x9,5 G** | 4,8x9,5 | 1 | 0.200 | **6049248** |

Metal screw with lens head according to shape F and Torx drive, according to DIN EN ISO 7049, to fasten protective panels to the Z supports for the walkable cable tray system.



# Directories


| | |
|---|---|
| Test marks | 774 |
| Pictogram explanation | 776 |
| Alphabetical table of contents | 780 |
| Numeric directory | 786 |
| Type listing | 800 |
| For the latest general conditions of sale and delivery please see www.obo.global/general-purchasing-conditions/ | |




Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Test marks

| | |
|---|---|
| | American Bureau of Shipping, USA |
| | AENOR, Producto Certificado, Spain |
| | STOWARZYSZENIE ELEKTRYKÓW POLSKICH, Poland |
| | Lightning current-tested |
| | Lightning current-tested, Class H (100 kA) |
| | CEBEC, Belgium |
| | Canadian Standards Association, Canada |
| | DEMKO, Danmarks Elektriske Materielkontrol, Denmark |
| DIBt | Deutsches Institut für Bautechnik Berlin, Germany |
| | Det Norske Veritas |
| | ENEC Austria |
| | ATEX certificate for explosive areas |
| | ELEKTROTECHNICKÝ ZKUŠEBNÌ ÚSTAV, Czech Republic |
| | FIMKO, Finland |
| | Forschungs- und Materialprüfungsanstalt, Germany |
| | Russia, GOST The State Committee for Standards |
| | Test marks for technical resources, VDE Prüf- und Zertifizierungsinstitut Offenbach, Germany |
| | Halogen-free; without chlorine, fluorine and bromine |
| | INMETRO, Brazil |
| KEMA KEUR | KEMA-KEUR, Netherlands |
| | Indication of metric products |
| | MAGYAR ELEKTROTECHNIKAI ELLENŐRZŐ INTÉZET Budapest, Hungary |
| | NEMKO, Norway |
| NF | AFNOR Quality symbol of the French standardisation institute |

| | |
|---|---|
| | Underwriters Laboratories Inc., USA + CSA, Canada |
| | Österreichischer Verband für Elektrotechnik, Austria |
| | INSTITUTO ITALIANO DEL MARCHO DI QUALITÁ, Italy |
| | RINA 1861, Ship Classification, Certification and Services |
| | Underwriters Laboratories Inc., USA |
| | SEMKO An Inchcape Testing Services Company, Sweden |
| | Eidgenössisches Starkstrominspektorat, Switzerland |
| SABS APPROVED | South African Bureau of Standards |
| | Shock-tested, Bundesamt für Zivilschutz, Germany |
| | Sähkötarkastuskeskus Elinspektionscentralen Electrical Inspectorate, Finland |
| | Underwriters Laboratories Inc., USA |
| LISTED | Underwriters Laboratories Inc., USA |
| | Verband der Elektrotechnik, Elektronik, Informationstechnik e.V., Germany |
| | German Association of Electricians, tested safety |
| 5 YEARS | 5-year warranty |

# Pictogram explanation

## Surfaces

| | |
|---|---|
| FS | Strip galvanised |
| FSK | Strip galvanised/plastic-coated |
| DD | Strip galvanised zinc/aluminium, double dip |
| BK | Bright |
| 2B | Bright, reworked |
| EL | Anodised |
| F | Hot-dip galvanised |
| G | Electrogalvanised |
| GK | Electrogalvanised/plastic-coated |
| GCL | Electrogalvanised, yellow-chromatised |
| GGP | Electrogalvanised, yellow passivated |
| GTP | Electrogalvanised, transparently passivated |
| GR | Primed |
| L | Painted |
| SG | Welding primed |
| FT | Hot-dip galvanised |
| FT SO | Hot-dip galvanised 85 µm |
| Cu | Copper-plated |
| N | Nickel-plated |
| ZD | Galvanised, Deltatone 500 |
| ZDM | Galvanised, MAGNI 565 |
| GA | Zinc-aluminium coated, Galfan |
| ZL | Zinc scale |

## Conformity symbol

| | |
|---|---|
| CE | Communautés Européennes, EC declaration of conformity according to EC directives |
| RoHS conform | RoHS-conformant |

## Quality marks

| | |
|---|---|
| | Halogen-free; without chlorine, fluorine and bromine |
| 650° | Flame resistant 650 °C |
| 750° | Flame resistant 750 °C |
| 960° | Flame resistant 960 °C |
| UV resistant | UV-resistant |

## Specific product symbols

| | |
|---|---|
| Ø 60 | Diameter 60 mm |
| Ø 68 | Diameter 68 mm |
| Type 3 | Protection device to DIN EN 61643-11 or IEC 61643-11 |
| LPZ 2→3 | Transition from LPZ 2 to LPZ 3 |
| AS | Acoustic signalling |

## Applications

| | |
|---|---|
| FS | Remote signalling |
| AS | Acoustic signalling |
| ISDN | Integrated Service Digital Network, ISDN applications |
| DSL | Digital Subscriber Line, DSL applications |
| Analog TK | Analogue telecommunication |
| Cat 5 | Category 5 TwisterPair |
| Cat $6_A$ | Channel Performance to American EIA/TIA standard |
| MSR | Measuring, controlling and regulating systems |
| TV | TV applications |
| SAT | SAT-TV applications |
| Mu | MultiBase base |
| | LifeControl |
| EX | Intrinsically safe protection device for potentially explosive areas |
| Class $E_A$ | Channel Performance to ISO/IEC 11801 |
| PoE | Power over Ethernet |
| 230/ 400 V System | 230/400 V system |
| IP 54 | Protection rating IP 54 |
| IP 65 | Protection rating IP 65 |

## Lightning protection classes

| | |
|---|---|
| Type 1 | Protection device to DIN EN 61643-11 or IEC 61643-11 |
| Type 1+2 | Combination protection device made of type 1 and type 2 |
| Type 2 | Protection device to DIN EN 61643-11 or IEC 61643-11 |

## Lightning protection classes

| | |
|---|---|
| Type 2+3 | Protection device to DIN EN 61643-11 or IEC 61643-11 |
| Type 3 | Protection device to DIN EN 61643-11 or IEC 61643-11 |

## Lightning protection zone

| | |
|---|---|
| LPZ 0→1 | Transition from LPZ 0 to LPZ 1 |
| LPZ 0→2 | Transition from LPZ 0 to LPZ 2 |
| LPZ 0→3 | Transition from LPZ 0 to LPZ 3 |
| LPZ 1→2 | Transition from LPZ 1 to LPZ 2 |
| LPZ 1→3 | Transition from LPZ 1 to LPZ 3 |
| LPZ 2→3 | Transition from LPZ 2 to LPZ 3 |

## BSS maintenance of electrical function installation

| | |
|---|---|
| | Fire-tested systems |
| | Escape route ceiling mounting with pressure clip |
| | OBO Grip, wall routing type |
| | OBO Grip, ceiling routing type |
| | Pressure clip for maintenance of electrical function, ceiling mounting |

## BSS anchor

| | |
|---|---|
| | Fire protection anchor |
| | Fire protection bolt tie |

## BSS test marks/material class

| | |
|---|---|
| E30 | Maintenance of electrical function class E30 |
| E90 | Maintenance of electrical function class E90 |

## Clamp clip base shapes

| | |
|---|---|
| N | Clamp clip for C profile rail, slot width 11–12 mm |
| H | Clamp clip for C profile rail, slot width 16–17 mm |
| U | Clamp clip for C profile rail, slot width 18–22 mm |

## Diameter

| | |
|---|---|
| Ø 60 | Diameter 60 mm |
| Ø 68 | Diameter 68 mm |
| Ø 70 | Diameter 70 mm |
| Ø 74 | Diameter 74 mm |

## Entries

| | |
|---|---|
| 4 | 4 cable entries |
| 6 | 6 cable entries |
| 7 | 7 cable entries |
| 8 | 8 cable entries |
| 9 | 9 cable entries |
| 10 | 10 cable entries |
| 12 | 12 cable entries |
| 10 | 10 cable entries ECO |
| 12 | 12 cable entries ECO |
| 14 | 14 cable entries ECO |
| 16 | 16 cable entries |
| 18 | 18 cable entries ECO |
| 24 | 24 cable entries |

## Gland thread

| | |
|---|---|
| M | Thread metric |
| Pg | Thread Pg |

## Entry size

| | |
|---|---|
| M20 | M20 entry |
| M25 | M25 entry |
| M32 | M32 entry |
| M40 | M40 entry |

## KTS side heights

| | |
|---|---|
| | Cable tray, side height 35 mm |
| | Cable tray, side height 60 mm |
| | Cable tray, side height 85 mm |
| | Mesh cable tray, side height 35 mm |
| | Mesh cable tray, side height 55 mm |

## Materials

| | |
|---|---|
| | Flat steel |
| | Angular steel |
| | U steel |
| | Round material |



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Always indicate the item number when ordering.

# Pictogram explanation

## Nominal cross-section

| | |
|---|---|
| 1,5 mm² | Nominal cross-section 1.5 mm² |
| 1,5-2,5 mm² | Nominal cross-section 1.5–2.5 mm² |
| 2,5 mm² | Nominal cross-section 2.5 mm² |
| 2,5-4 mm² | Nominal cross-section 2.5–4 mm² |
| 4 mm² | Nominal cross-section 4 mm² |
| 4-6 mm² | Nominal cross-section 4–6 mm² |
| 6 mm² | Nominal cross-section 6 mm² |
| 10 mm² | Nominal cross-section 10 mm² |
| 16 mm² | Nominal cross-section 16 mm² |

## Nominal voltage

| | |
|---|---|
| 400 V | Nominal voltage 400 V |
| 500 V | Nominal voltage 500 V |
| 660 V | Nominal voltage 660 V |

## Polarity

| | |
|---|---|
| 3 | 3-pole |
| 5 | 5-pole |
| 7 | 7-pole |
| 8 | 8-pole |
| 10 | 10-pole |
| 12 | 12-pole |

## Slot widths

| | |
|---|---|
| 7,5 | Slot width 7.5 mm |
| 11 | Slot width 11 mm |
| 11-12 | Slot width 11–12 mm |
| 12 | Slot width 12 mm |
| 15 | Slot width 15 mm |
| 16 | Slot width 16 mm |
| 16,5 | Slot width 16.5 mm |
| 16-17 | Slot width 16–17 mm |
| 17 | Slot width 17 mm |
| 18 | Slot width 18 mm |
| 22 | Slot width 22 mm |
| 35 | Slot width 35 mm |

## Screw heads

| | |
|---|---|
| | Philips screw |
| | Torx screw |
| | Phillips screw |
| | Pozidriv |

## Firing devices

| | |
|---|---|
| | Bolt-firing tool |
| | Nail device |

## Protection rating

| | |
|---|---|
| IP 20 | Protection rating IP 20 |
| IP 30 | Protection rating IP 30 |
| IP 31 | Protection rating IP 31 |
| IP 44 | Protection rating IP 44 |
| IP 54 | Protection rating IP 54 |
| IP 55 | Protection rating IP 55 |
| IP 65 | Protection rating IP 65 |
| IP 66 | Protection rating IP 66 |
| IP 67 | Protection rating IP 67 |
| IP 68 | Protection rating IP 68 |

## Metals

| | |
|---|---|
| Alu | Aluminium |
| Alu/St | Aluminium/steel |
| A2 | Stainless steel, rustproof |
| A4 | Stainless steel, rustproof |
| A5 | Stainless steel, rustproof |
| Cu | Copper |
| CuZn 37 | Brass |
| St | Steel |
| TG | Malleable iron |
| Zn | Die-cast zinc |

## Plastics

| | |
|---|---|
| ABS/ ASA | Acrylonitrile butadiene styrene |
| UF | Duroplast, Aminoplast, type 131.5 |
| MF | Duroplast, melamine resin, type 150 |
| EVA | Ethylene vinyl acetate |

## Plastics

| | |
|---|---|
| FA | Fibre-proof material DIN 28091 |
| GFK | Fibreglass-reinforced plastic |
| NBR SBR | Rubber mixture |
| NBR | Nitrile rubber |
| PETR | Petrolatum |
| PA | Polyamide |
| PA/ GF | Polyamide, fibreglass reinforced |
| PBPT | Polybutylene terephthalate |
| PC | Polycarbonate |
| PE | Polyethylene |
| PP | Polypropylene |
| PP/GF | Polypropylene, fibreglass reinforced |
| PS | Polystyrene |
| PVC | Polyvinylchloride |
| ZELL PE | Cellular polyethylene |

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Alphabetical table of contents


## 3

3-wire connection cable, PVC, cross-section 2.5 mm²,; 520
black

## 4

45° angle connector, external 160; 282
45° angle connector, external 200; 306
45° angle connector, horizontal, inner rail 200; 306
45° angle connector, horizontal, internal 160; 281, 302
45° angle connector, horizontal, outer rail 160; 282, 302
45° angle connector, internal 160; 282
45° angle connector, vertical 200; 306
45° bend 110; 232
45° bend 35; 84
45° bend 60; 162
45° bend 85; 193
45° Magic bend 110; 213
45° Magic bend 35; 78
45° Magic bend 60; 114
45° Magic bend 85; 180
45° mounting bracket MW 45 SL10; 387

## 9

90° adjustable bend, vertical 110; 197
90° adjustable bend, vertical 60; 120
90° adjustable bend, vertical 85; 196
90° articulated bend, vertical; 167-168
90° bend; 67, 85, 115, 163-164, 193-194, 232-233, 246-247, 257-258, 276, 284, 295-296, 304, 307, 309, 419-420, 434, 439, 441, 443, 445, 447, 449, 451, 453, 455, 457-459, 462-463, 465, 467-470, 482, 520, 768
90° bend 110; 232-233, 276, 295, 434
90° bend 110 FT SOMY; 233
90° bend 15, shipbuilding; 67
90° bend 160; 284, 304
90° bend 200; 307
90° bend 35; 85
90° bend 60; 163-164, 419
90° bend 85; 193-194
90° bend FT SOMY; 164
90° bend LTS B; 520
90° bend VS 60; 420
90° bend with trapezoidal rungs; 441, 443, 445, 447, 449, 451, 453, 455, 457
90° bend with trapezoidal rungs SG; 449
90° bend with trapezoidal rungs, light duty; 441, 443, 445, 447
90° bend with Z rungs; 458-459, 463, 467-469
90° Magic bend 110; 213-214
90° Magic bend 35; 78
90° Magic bend 60; 114-115
90° Magic bend 85; 180
90° mesh cable tray bend, 105; 345
90° mesh cable tray bend, 55; 335
90° mounting angle; 387-388
90° mounting bracket; 740
90° mounting bracket with 6 holes; 740
90° vertical bend, falling 110; 216, 235
90° vertical bend, falling 160; 304
90° vertical bend, falling 35; 86
90° vertical bend, falling 60; 118
90° vertical bend, falling 85; 182, 194
90° vertical bend, rising 110; 216, 233-234
90° vertical bend, rising 160; 304
90° vertical bend, rising 35; 86
90° vertical bend, rising 85; 182, 194
90° vertical bend, rising, 60; 117, 304
90° vertical bend, rising, FT SOMY; 169

## A

Adapter head plate, asymmetrical; 605
Adapter head plate, symmetrical; 605
Adapter plate; 574
Adapter plate 45°; 574
Add-on branch piece; 527
Add-on tee; 78, 85, 116, 164, 234, 249-251, 277, 296, 310, 436, 483, 528
Add-on tee 110; 234, 277, 296, 436
Add-on tee 35; 85
Add-on tee; 85, 116, 234, 251, 277, 296, 310, 436, 483, 528
Adjustable bend element 110; 437
Adjustable bend element, vertical 110; 217, 235
Adjustable connector; 283, 303, 432, 543
Adjustable connector 160; 283, 303
Adjustable vertical bend element 60; 119-120, 168-169
Adjusted bend element 60; 421-422
AML3518 anchor rail, slot 16.5 mm, perforated; 691
AML3518 anchor rail, slot 16.5 mm, unperforated; 692, 698, 700
AMS3518 anchor rail, slot 16.5 mm, unperforated; 699-700
Anchor rail AML3518, slot 16.5 mm, perforated; 702
Anchor rail AMS3518, slot 16.5 mm, perforated; 701-702
Angle connector 110; 211, 231, 274, 293, 431
Angle connector 160; 281, 302
Angle connector 35; 77, 83-84
Angle connector 60; 111, 159-160, 417, 497
Angle connector, vertical 110; 294
Angle profile; 727-729
Angle profile WESP 50; 728-729
Angle profile WP30/35; 727
Angle profile WP40/65 A2; 728
Anti-slip strip; 261
Articulated bend element 110; 437
Articulated bend element, vertical 85; 183, 196
Articulated bend, vertical 110; 436
Articulated bend, vertical, VS 60; 422
Articulated connector 110; 211-212
Articulated connector 200; 238
Articulated connector 35; 77, 83
Articulated connector 60; 111, 160, 417, 498
Articulated connector 85; 178, 192
Articulated connector FT SOMY; 313, 432
Articulated connector SM; 432
AW 15 wall and support bracket SOMY; 558
AZ channel system 100; 533-534
AZ channel system 150; 535-536
AZ channel system 200; 535, 537
AZ channel system 300; 536
AZ channel system 50; 532-533
AZ small duct system 100 FTK, gravel grey; 765
AZ small duct system 50 FTK, gravel grey; 764

## B

Barrier strip 30; 76, 83, 325
Barrier strip connector; 76, 83, 109, 157, 178, 192, 210, 230, 276, 284, 295, 303, 307, 325, 334, 344, 419, 433
Barrier strip, Z form, side height 110; 230
Base plate for wide span systems; 294
Beam clamp for screwing on, light-duty; 668
Beam clamp SSP 20-40; 669
Beam clamp SSP 6-21; 668

Beam clamp with pressure plate, horizontal BFK 153; 681
Beam clamp, for pipes; 663-665, 668
Beam clamp, for profile rail CM3518; 670
Beam clamp, for threaded rod; 663
Beam clamp, horizontal BFK 153; 680-681
Beam clamp, horizontal BFK 187; 681-682
Beam clamp, multifunctional; 665
Beam clamp, vertical BFK 132; 680
Beam clamp, vertical BFK 166; 679-680
Beam clamp, with cable tie; 663
Beam clamp, with fastening hole; 662
Beam clamp, with female thread; 662
Beam clamp, with threaded bolt; 662
BKK basic profile 104, standard; 542
BKK basic profile 150, standard; 542
BKK basic profile 200, standard; 542
BKK basic profile104, standard; 541
BKRS 100 cable tray; 198
Bolt cutter; 388
Bottom end plate; 259-260
BW US 7 fastening bracket; 605

## C

C mesh cable tray CGR; 354-355
Cable carrier trough, single, for individual routing; 747
Cable carrier troughs; 748-757
Cable carrier troughs, 1-fold, with mounting rail; 748
Cable eye stiffener; 523
Cable ladder LCIS 110, 6 m C30; 425
Cable ladder LCIS 60, 3 m C30; 402
Cable ladder LG 110, 3 m VS; 423-424
Cable ladder LG 110, 6 m VS; 427-428, 430
Cable ladder LG 110, 6 m VS FT SOMY; 430
Cable ladder LG 60, 3 m NS; 414
Cable ladder LG 60, 3 m VS; 408, 410, 490
Cable ladder LG 60, 6 m VS; 409, 411-413, 415, 491-492
Cable ladder LG 60, 6 m VS FT SOMY; 415
Cable ladder with trapezoidal rungs, standard SG; 448
Cable ladder with Z rung, 40; 471
Cable ladder with Z rung, light duty; 458-461, 463
Cable ladder with Z rung, light-duty FTK, Traffic white; 461
Cable ladder with Z rung, standard; 464, 466, 468-469
Cable ladder, light duty; 438, 440, 442, 444, 446
Cable ladder, light-duty; 438, 440, 442, 444, 446
Cable ladderwith trapezoidal rungs,  standard; 450
Cable ladderwith trapezoidal rungs, standard; 452, 454, 456
Cable protection ring; 518-519, 539
Cable protection ring 915; 518
Cable protection ring DR 910; 518
Cable tray BKRS, side height 110; 229
Cable tray MKS 60; 136-137
Cable tray MKS-Magic®, unperforated; 135
Cable tray SKS 60; 142-144, 146
Cable tray, marine standard; 62-65
Ceiling bracket; 379, 521-522, 636-643, 651, 656-659, 731
Ceiling bracket K6; 379, 659
Ceiling bracket, trapezoidal; 521, 656
Ceiling bracket, variable; 521, 658
Ceiling hook; 520
Ceiling profile clamp - CPC; 670
Central hanger for cable ladder; 527
Central hanger for cable tray, side height 60; 654
Central suspension; 526, 654-655
Central suspension, universal; 655
Centre suspension for cable tray, 35; 653
Centre suspension for cable trays with rolled side rail; 654
of side
Chequer plate lid DBKR [O:-1]; 262
Chuck jaw, heavy-duty TKH; 679
Chuck jaw, heavy-duty TKS; 679
Chuck jaw, light-duty TKH; 679
Chuck jaw, light-duty TKS; 677-678
CL2008 profile rail, slot 11 mm, breakable; 684
CL2008 profile rail, slot 11 mm, perforated; 684-686
CL2510 profile rail, slot 11 mm, perforated; 686
CL2518 profile rail, slot 17 mm, perforated; 693
CL2712 profile rail, slot 12 mm, perforated; 688
Clamp; 66, 76, 158, 242-243, 262-263, 295, 303, 307, 325-326, 334-335, 344-345, 377, 380-386, 388-389, 419, 433, 473-475, 481, 523, 571-572, 575, 652-653, 662-665, 667-670, 676-677, 679-682, 736-737
Clamp connector; 66
Clamping angle KL; 676
Clamping angle KWH; 676
Clamping angle KWS; 676
Clamping lug for AS 15 / AS 30; 575
Clamping lug for AS30 / AS55; 575
Clamping piece; 158, 381, 384-385, 474-475
Clamping piece for barrier strips fastening in MKS/SKS; 158
Clamping piece for sbarrier strips fastening in RKS; 158
Clamping piece FTK, light grey; 381, 474-475
Clamping piece UK GR; 385
Clamping spring for stranded cable; 263
CM3015 profile rail, slot 16 mm, perforated; 689
CM3015 profile rail, slot 16 mm, unperforated; 690
CM3518 , profile rail, slot 17 mm, perforated; 696
CM3518 profile rail, slot 17 mm, perforated; 695-696
CML3518 profile rail, slot 17 mm, perforated; 694-695
Column foot; 760
Combination nut; 383
Connection piece 60; 418
Connection plate with 1 hole; 732-733
Connection plate with 2 holes; 733
Connection plate with 3 holes; 733-734
Connection plate with 4 holes; 734
Connection plate with 5 holes; 734-735
Connection plate, L-shaped; 735
Connection plate, T-shaped; 736
Connection plate, X-shaped; 735
Connection sleeve; 521
Connection terminal for conductor rope; 263-264
Connector; 65-66, 76-77, 83-84, 109-113, 157-161, 178-179, 192, 198-199, 210-213, 230-231, 238, 261, 274-276, 281-284, 293-295, 302-303, 306-307, 313, 325, 334, 344, 374-376, 416-419, 431-433, 440, 442, 444, 450, 452, 456, 461, 464, 497-498, 501-503, 507, 517-518, 526, 537-538, 543, 586-587, 593-594, 602-603, 732, 766
Connector 110; 211-212, 231, 274-275, 293-294, 431-432
Connector for expansion compensation 60; 161
Construction and suspension profile; 723-726, 740
Construction and suspension profile, SL42; 723
Construction and suspension profile, SL62; 724
Corner connector; 66, 77, 84, 112, 160, 179, 192, 212, 231, 376
Corner connector 110; 212, 231
Corner connector 35; 77, 84
Corner connector 60; 112, 160
Corner connector 85; 179, 192
Corner extension piece 110; 277
Corner extension piece 160; 285
Corner plate; 479



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Alphabetical table of contents


Corner seat; 575
Cover; 242-243, 245-246, 248-256, 258, 263, 308-310, 312, 378-379, 479-485, 498-499, 518, 527, 540, 760
Cover clamp, universal; 243, 481
Cover for 45° bend; 245
Cover for 45° Magic bend; 246
Cover for 90° bend; 246, 258, 309, 482
Cover for 90° bend BKRS; 258
Cover for 90° bend LBD R3; 482
Cover for 90° bend WDBRL; 309
Cover for 90° Magic bend; 248
Cover for 90° vertical bend, falling, side height 60; 253, 256
Cover for 90° vertical bend, rising; 253-255
Cover for add-on tee; 249-251, 310, 483
Cover for add-on tee BKRS; 251
Cover for add-on tee LAAD 200; 483
Cover for add-on tee LAAD R3; 483
Cover for add-on tee WAAD; 310
Cover for cross-over; 254, 258
Cover for LGBED adjustable vertical bend element; 484
Cover for LTD R3 T piece; 482-483
Cover for Magic add-on tee; 250
Cover for Magic cross-over; 252
Cover for Magic tee; 252
Cover for mesh cable tray, latchable; 378
Cover for motor connection column; 760
Cover for T WDTRL T branch piece; 310
Cover for Tee; 251
Cover for threaded rod installation; 540
Cover for variable Magic bend; 248-249
Cover incl. turn buckles; 308-309
Cover incl. turn-buckles; 308-309
Cover support, side height 110; 263
Cover with turn buckle; 243, 479-480, 518, 527, 540
Cover for stand off mounting; 312, 484, 498
Cross-over 110; 297
Cross-over 60; 116-117, 121


## D


Device plate, GP 15; 760
Device plate, GP 31; 761
DK DRLU A2 cover clamp; 242, 481
DKS 60 cable tray; 153-156
DKS 85 cable tray; 190-191
Drilling screw; 265, 312
Drop-out plate; 377-378, 476
Drop-out plate; 377-378, 476
DSK 25 spacer; 587
Dust protection element; 262


## E


Earthing clip; 386
Earthing terminal; 261, 508
Earthing terminal with fastening thread; 261
EKS 60 cable tray; 147-148
EKSU 60 FT SOMY cable tray; 149
ELB-L insertion plate; 311, 477
End cap; 293, 384, 478, 501-503, 506, 587, 594, 603, 618, 645, 730-731
End cap 110; 293, 478
End cap MS4121; 731
End cap MS4141; 731
Expansion connector; 416-417


## F


Fastening bracket; 588, 597, 605-606, 621-622
Fastening bracket BW 64; 605-606
Fastening bracket for US 3/US 5 support; 588, 597
Fastening element for mesh cable tray; 386
Fastening splint G 8X71 G; 597
Floor support, symmetrical; 770
FSK luminaire support tray, pure white; 525
FT SOMY cable ladder clamping piece; 475


## G


G mesh cable tray Magic, side height 125 mm; 366-369
G mesh cable tray Magic, side height 150 mm; 370-373
G mesh cable tray Magic, side height 50 mm; 358-361
G mesh cable tray Magic, side height 75 mm; 362-365
GEV 36 corner connector; 376
GKB 34 hold-down clamp; 381-382
GKB 38 clamping piece; 384
GKS 34 hold-down clamp; 380
GKT 38 hold-down clamp; 325-326, 334-335, 344-345, 377, 382
GR-Magic® mesh cable tray; 342-343
Grounding clamp; 386
GRS quick connector; 376
GRV 245 mesh cable tray connector, long; 375
GUV 6 joint connector; 374-375


## H


Hammer-head bolt; 720-722
Hammer-head bolt with spring; 721
Hat and support rail cutting unit; 743
Hat profile rail; 741-743
Hat profile rail, perforated; 742-743
Hat profile rail, unperforated; 741-742
Head plate; 587-588, 595-596, 604-605, 619-620, 731, 741
Head plate for welding; 605, 620
Head plate KU 5 16; 596
Head plate US 5; 595-596
Head plate US 5 NOK; 595-596
Head plate with a welded-on CPS 5 rail; 620
Head plate with two welded-on CPS 5 rails; 620
Head plate, heavy-duty; 604
Head plate, light-duty; 604
Head plate, longitudinal; 619
Head plate, transverse; 619
Head plate, variable; 588, 596, 604, 619
Heavy mesh cable tray SGR 105; 348
Heavy mesh cable tray SGR 155; 351
Heavy mesh cable tray SGR 55; 337, 339
Hexagonal bolt with nut and washer; 522
Hold down clip; 387, 389
Hold-down clamp; 76, 295, 303, 307, 325-326, 334-335, 344-345, 377, 380-383, 419, 433, 473-475
Hold-down clamp for barrier strip fastening in GRM; 325, 334, 344, 380
Hold-down clamp for barrier strip fastening in RKSM; 76
Hold-down clamp for barrier strip fastening; 76, 295, 303, 307, 325, 334, 344, 380, 419, 433
Hold-down clamp GKS 50; 382
Hold-down clamp with KLL 32 pressure plate; 475
Hold-down clamp with pressure plate KLL 52; 475
Hook head screw; 719-720
Hook rail for G mesh cable tray; 390-392
Hook-head screw; 719-720
HS M6 hook screw; 383


## I


I support connector; 507

Identification clip; 388
IKS 60 cable tray; 152
Industrial vertical cable ladder C40; 505
Industrial vertical cable ladder W40; 506
Intersection 110; 236
Intersection 60; 167
IS 8 support; 616-618

## J

Joint connector; 374-375, 543
Joint connector GSV 34; 374
Joint plate; 240, 275, 282-283

## K

K 11/262 side connector; 375-376
KLL 32 cable ladder clamping piece; 473
KLL 52 cable ladder hold-down clamp; 473
KS 23/35 hold-down clamp; 381
KSB 2 edge protection strip; 259
KU 5 head plate, variable; 596

## L

LAB drop-out plate; 476
LAL 70 support; 478
LALB support plate; 476
Large washer; 504
LAW support prpfile; 476, 478
LCIS 60 cable ladder, 3 m; 403
LCIS 60 cable ladder, 6 m; 404-407
LDVG 60 expansion connector; 416
LG 110 cable ladder, 6 m VS; 429
Lid clamp BKR; 262
Lid for 45° bend; 257
Lid for 90° bend; 246-247, 257, 768
Lid for 90° vertical bend, falling, side height 110; 257
Lid for 90° vertical bend, falling, side height 35; 255
Lid for 90° vertical bend, falling, side height 85; 253, 256
Lid for 90° vertical bend, rising; 255
Lid lifter for corrugated sheet metal lid; 262
Lid support 100; 770
Lid with chequer plate and sash lock, sash lock; 259
spacing 500 mm
Lid with sash lock; 244, 309, 480
Lid with sash lock 200; 244
Lid with sash lock FT SOMY; 244
Lid with sash lock, 1.5 mm; 480
LKS 40 hold-down clamp; 473-474
LKS 60/4 clamping piece; 474-475
LKS 60/5 hold-down clamp; 474
Locknut - CPCN; 670
LTS K intersection; 520
LTS T T piece; 520
Luminaire support mesh tray; 527
Luminaire support rail 100; 517
Luminaire support rail 50; 515-516
Luminaire support tray; 390, 524-526
LVG 110 straight connector; 431

## M

Magic 110 bend, variable; 214
Magic 110 fitting connector; 213
Magic 110 intersection; 215
Magic 110 mounting/branch piece; 214-215
Magic 110 straight connector set; 210-211
Magic 110 tee; 215
Magic 35 add-on tee; 78
Magic 35 intersection; 86
Magic 35 straight connector set; 76
Magic 35 T branch piece; 79
Magic 60 bend, variable; 113-114
Magic 60 fitting connector; 113
Magic 60 straight connector set; 110
Magic 85 bend, variable; 180
Magic 85 fitting connector; 179
Magic 85 intersection; 181
Magic 85 mounting/branch piece; 181
Magic 85 straight connector set; 178
Magic 85 T branch piece; 181
Magic add-on tee 60; 116
Magic cross-over 60; 116-117
Medium-duty vertical cable ladder SLL 45, 3 m; 493
Medium-duty vertical cable ladder SLL 45, 6 m CP; 494
Medium-duty vertical cable ladder SLL 60, 6 m CPS4; 495-496
Mesh angle; 390
Mesh cable tray GR; 321-324, 328-333, 338, 340-341, 346-347, 350
Mesh cable tray GR 105, wire ø 6 mm; 346-347
Mesh cable tray GR 55, wire ø 6 mm; 338
Mesh cable tray GR-Magic®; 321-324, 328-333, 340-341
Mesh cable tray GR-Magic® 35; 322-324
Mesh cable tray GR-Magic® 55; 330-331
Mesh cable tray GR-Magic® with barrier strip; 332-333
MFR 200 cable tray; 238
MKS 110 cable tray; 218-219
MKS 35 cable tray; 81-82
MKS 60 cable tray; 138-139
MKS 60 cable tray FT SOMY; 138
MKS 85 cable tray; 184
MKS-Magic® 110 cable tray; 200-202, 205-207
MKS-Magic® 110 cable tray, unperforated; 205-207
MKS-Magic® 60 cable tray; 98-99, 104-105
MKS-Magic® 60 cable tray, unperforated; 104-105
MKS-Magic® 85 cable tray; 170-173
MKS-Magic® 85 cable tray, unperforated; 172-173
MKSU 60 cable tray; 140-141
MKSU 85 cable tray; 187-189
Motor connection column; 760
Mounting angle; 387-388, 508, 620
Mounting bracket; 387, 737-740, 760
Mounting bracket, 45° with 3 holes; 737
Mounting bracket, 45° with 4 holes; 738
Mounting bracket, 90° with 2 holes; 738
Mounting bracket, 90° with 3 holes; 739
Mounting bracket, 90° with 4 holes; 739-740
Mounting plate for mesh cable tray; 386
Mounting plate FS; 240
Mounting plate, angled; 241
Mounting plate, angled, wide; 241
Mounting plate, flat; 241
Mounting rail MS4022, heavy-duty, slot 18 mm,; 704-705
perforated
Mounting rail, MS4141, slot 22 mm, perforated; 711, 715
Mounting rail, MS4141, slot 22 mm, side perforation; 712
Mounting rail, MS4141, slot width 22 mm, perforated; 713, 715
Mounting rail, MS4182, slot 22 mm, double, perforated; 716
Mounting rail, MSL4141, slot 22 mm, perforated; 711
Mounting/branch piece 160; 284
Mounting/branch piece 60; 115-116, 164-165, 421
Mounting/branch piece 85; 195
Mounting/branch piece FT SOMY; 165, 234
MP UNI mounting plate; 241
MS4022 mounting rail, heavy duty, slot 18 mm; 504



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Alphabetical table of contents


MS4121 mounting rail, slot 22 mm, perforated; 709
MS4121 mounting rail, slot width 22 mm, perforated; 708-709
MS4121P mounting rail, slot width 22 mm, perforated; 710
MS4141PP mounting rail, slot width 22 mm, perforated; 716
MS4142 mounting rail, slot 22 mm, double, perforated; 710
MS5030 mounting rail, slot 22 mm, perforated; 706-707
MS5030 mounting rail, slot 22 mm, unperforated; 714
MS5030P0 mounting rail, slot 22 mm, perforated; 708
MS5040P mounting rail; 717
MSL4141 mounting rail, slot 22 mm, perforated; 713
Multifunctional connector 110; 432
Multifunctional connector 60; 418
MWA 12 wall and support bracket; 548-549

## O

Omega clamp; 736-737

## P

Pan head metal screw; 770
Profile ceiling suspensions; 671
Profile rail - AML3518P, round-perforated; 690
Profile rail – MS 22 L; 705-706
Profile rail - MS 22 L BASF; 706
Profile rail CL2510, slot 11 mm, unperforated; 688
Profile rail CL2512, slot 11 mm, unperforated; 687
Profile rail CL2712, slot 12 mm, unperforated; 689
Profile suspensions; 665
Protective cap; 416, 477, 497, 730-731
Protective cap 60; 416, 477, 497
Protective cap MS4121; 730
Protective cap MS4141; 731
Protective panel; 264

## Q

Quick connector; 261, 376
Quick link; 522

## R

Rail connector SV with 3 holes; 732
Reducer / stop-end 35; 78, 84
Reducer/stop-end 85; 179, 193
Reducing bracket and end closure plate 110; 212, 231
Reducing bracket and end closure plate 110 FT SOMY; 231
Reducing bracket and end closure plate 35; 78, 84
Reducing bracket and end closure plate 60; 112-113, 161-162
Reducing bracket/end closure plate 100; 198
Ring eyelet; 523
RKS 35 cable tray; 79-80
RKS 60 cable tray; 132-134
RKS-Magic® 35 cable tray; 75
RKS-Magic® 60 cable tray; 94-97
RLVK 60 straight connector FT SOMY; 159
Roof-form cover; 310
Rung C30, perforated; 485
Rung C30, unperforated; 485
Rung CK 40; 507
Rung CKD 40; 507
Rung seat; 508
Rung WSK 40; 508

## S

Screw connector; 65-66
Screw connector 15; 66
Screw-in beam clamp, universal; 667
Screw-in beam clamp, with gland hole; 667
Screw-in beam clamp, with hinge; 667
Screw-in beam clamp, with thread; 667
Screw-in beam clamp, for pipes and cables; 668
Securing hook for G-GRM; 380
Self-build profile; 740
Separating retainer 110; 210, 230, 283, 303, 306
Separating retainer 135; 284, 303, 307
Separating retainer 45; 109, 156-157, 334, 418
Separating retainer 60; 109, 157, 191
Separating retainer 60 FT SOMY; 157
Separating retainer for 105 mm internal height; 178, 192, 210, 230, 276, 294-295, 344, 433
Separating retainer, Z-shaped 100; 199
Side end panel - SEB 85 FS; 260
Side holder; 387, 389-390
Side holder for cable gland; 387
Side holder, universal; 390
SKS 110 cable tray; 220-223, 227
SKS 110 cable tray FT SOMY; 223, 227
SKS 60 cable tray; 145
SKS 85 cable tray; 185-186
SKS-Magic® 110 cable tray; 203-204, 208-209
SKS-Magic® 110 cable tray, unperforated; 208-209
SKS-Magic® 60 cable tray; 100-103, 106-108
SKS-Magic® 60 cable tray, unperforated; 106-108
SKS-Magic® 85 cable tray; 174-177
SKS-Magic® 85 cable tray, unperforated; 176-177
SKSU 110 cable tray; 224-226, 228
SKSU 110 cable tray FT SOMY; 226, 228
SKSU 60 cable tray; 150-151
SLAA R3 add-on tee, 110 side height; 436
SLCS 110 cable ladder FTSO; 472
SLCS 110 cable ladder, 6 m C30; 426
Slide nut; 717-719
Slide nut with spring; 718
SLM 50, heavy-duty vertical ladder, 3 m C40; 500
Slotted steel strap, bent; 377
Spacer; 312, 485, 499, 587, 594-595, 603, 645
Spacer DSK 45; 594-595
Spacer DSK 47; 594-595
Spacer for cover; 312, 485, 499
Spacer FT SOMY; 595
Splint for trapezoidal ceiling bracket; 522, 657
Spring element, side height 60 mm; 158
Stand-off bracket; 658-659
Steel wire tensioning rope; 522
Straight and angle connector; 77, 83, 111, 159, 178, 192, 198, 211, 231, 238, 518, 538, 766
Straight and angle connector 100; 198
Straight and angle connector 110; 211, 231
Straight and angle connector 200; 238
Straight and angle connector 35; 77, 83
Straight and angle connector 50; 518
Straight and angle connector 60; 111, 159
Straight and angle connector 85; 178, 192
Straight and angle connector FTK, gravel grey; 766
Straight connector; 76, 83, 110, 158-159, 178, 199, 210-211, 274, 281, 293, 302, 306, 313, 416, 431, 464, 497, 517, 526, 537
Straight connector 110; 274, 293
Straight connector 160; 281, 302, 313
Straight connector 160 FT SOMY; 313
Straight connector 200; 306
Straight connector 35; 76, 83
Straight connector 50; 517
Straight connector 60; 110, 158-159, 416, 497

Straight connector 60 FT SOMY; 416
Straight connector 60, vertical; 158
Straight connector set; 76, 110, 159, 178, 210-211, 526, 537
Straight connector set 60; 159, 526
Strain relief on three sides, internal height 115 mm; 509
Strain relief on three sides, internal height 175 mm; 509
Support bracket; 264, 547-569, 576-578, 631-635, 644
Support bracket AS 15; 576
Support bracket AS 30; 577
Support bracket AS 55; 578
Support cable; 744
Support clamp; 665, 670
Support clamp, for installation strip; 665
Support claw; 507, 620
Support clip; 666
Support profile, side height 100; 265
Support rail; 515-517, 743
Support strap; 507, 621
Suspension bracket; 519, 538-539
Suspension bracket 100; 519
Suspension bracket 50; 519
Suspension chain; 522
Suspension clamp for cable tray and cable ladder; 652
Suspension clamp for wide span systems; 653

## T

T branch piece; 79, 166, 181, 233, 296-297, 304, 307-308, 310
T branch piece 110; 233, 296-297
T branch piece 160; 304, 308
T branch piece 60; 166
T piece 110; 435
T piece 60; 420
Threaded rod; 521, 540, 655-656, 663
TP profile; 630, 697
TP support; 627-629, 631-635, 644
TP support / wall and support bracket; 631, 644
TP wall and ceiling bracket; 636-643
TPSA TP support/wall and support bracket; 632-633
TPSAG TP support/wall and support bracket; 634-635
Trapezoidal fastening; 656-657
Triangular node; 741
Truss-head bolt with nut and washer; 504
TS suspension eyelet; 523
TSG 110 FT SOMY; 230
Turn buckle; 243-245, 308-311, 479-480, 518, 527, 540-541
Turn buckle for riveting; 244, 311
Turn buckle for screwing; 244-245, 310

## U

U support connector VUS 5; 501, 593-594
US 3 support; 502, 584-586, 606-607
US 5 head plate FT SOMY; 596
US 5 support; 501, 588, 590-592, 597, 608-609
US 5 support FT SOMY; 609
US 5 suspended support FT SOMY; 593
US 7 support; 503, 599-601, 610-611
US 7 suspended support FT SOMY; 602
USL 5-support; 609

## V

VS 60 T piece; 420
VUS 3 U support connector; 502, 586-587
VUS 5 U support connector; 594
VUS 7 U support connector; 503, 602-603

## W

Wall and clamping bracket AWSS; 571-572
Wall and support bracket AW 15; 553-557
Wall and support bracket AW 15 2L; 557
Wall and support bracket AW 30; 562-566
Wall and support bracket AW 55; 567-569
Wall and support bracket AWG 15; 559-561
Wall and support bracket MWA 12; 547
Wall and support bracket MWAG 12; 551-552
Wall and support bracket MWAM 12; 550
Wall bracket; 241, 498, 570, 573, 659
Wall bracket / mounting plate; 241
Wall bracket AW 80; 570
Wall bracket WW; 659
Wall bracket, variable AWV; 573
Wall clamp / central hanger; 388-389
Wall clamp and central hanger; 384
Wall mounting for type GRM 35x50; 385
Wall, floor and ceiling bracket with 3 holes; 731
WBH CGR50 wall holder, horizontal; 385
WBV CGR50 wall holder, vertical; 385
Welding angle; 729
Wide span cable ladder WKL 2020; 305
Wide span cable ladder WKLG 110; 289-292
Wide span cable ladder WKLG 160; 298-301
Wide span cable ladder WKLG 160 FT SOMY; 301
Wide span cable tray WKSG 110; 271-273
Wide span cable tray WKSG 160; 278-280
Wire cable clamp; 523
WL wall bearing for luminaire support tray; 390
WP40/50 angle profiles; 727
WP40/65 angle profile; 727

## Z

Z support for BKRS; 263
Zinc repair paint - ZSF 1KG; 260
Zinc repairs; 260



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Numeric directory

| GTIN | Item no. | Page |
|---|---|---|
| | /100 pc. | |
| 5038238 | **1104241** | 694 |
| 5038290 | **1104268** | 694 |
| 5038351 | **1104284** | 694 |
| 5836353 | **1104292** | 694 |
| 5038412 | **1104306** | 694 |
| 5036678 | **1104310** | 694 |
| 5036739 | **1104315** | 694 |
| 5036791 | **1104320** | 694 |
| 5036852 | **1104325** | 694 |
| 5038474 | **1104349** | 695 |
| 5038535 | **1104357** | 695 |
| 5038597 | **1104373** | 695 |
| 5052814 | **1104391** | 695 |
| 5038658 | **1104403** | 695 |
| 5486190 | **1104411** | 695 |
| 6470945 | **1104422** | 695 |
| 5051732 | **1104427** | 695 |
| 5052630 | **1104435** | 695 |
| | price/100 | |
| 5052692 | **1104445** | 695 |
| 5038719 | **1104454** | 695 |
| 5694458 | **1104497** | 695 |
| 5627074 | **1104498** | 696 |
| 5038771 | **1104500** | 695 |
| 5627081 | **1104501** | 696 |
| | /100 pc. | |
| 6470815 | **1104550** | 694 |
| 6470822 | **1104552** | 694 |
| 6470839 | **1104554** | 694 |
| 6470846 | **1104556** | 694 |
| 6470853 | **1104558** | 694 |
| 6470860 | **1104560** | 694 |
| 6470877 | **1104562** | 694 |
| 6470884 | **1104564** | 694 |
| 6470914 | **1104566** | 694 |
| | price/100 | |
| 6470921 | **1104568** | 695 |
| 6470938 | **1104570** | 695 |
| | /100 pc. | |
| 6470952 | **1104581** | 695 |
| 6470969 | **1104583** | 695 |
| 6470976 | **1104585** | 695 |
| 6470983 | **1104587** | 695 |
| 6470990 | **1104589** | 695 |
| 6471003 | **1104591** | 695 |
| 6471010 | **1104593** | 695 |
| 6471027 | **1104595** | 695 |
| 6471034 | **1104597** | 695 |
| | price/100 | |
| 6471041 | **1104598** | 696 |
| 6471058 | **1104599** | 696 |
| 5039433 | **1105124** | 685 |
| 5627098 | **1105125** | 686 |
| 5039556 | **1105906** | 684 |
| 5039617 | **1106023** | 684 |
| 5039730 | **1106120** | 684 |
| 5040095 | **1106627** | 684 |
| 5627104 | **1106628** | 685 |
| 5040279 | **1107038** | 688 |
| 5040453 | **1107127** | 688 |
| 5040811 | **1108123** | 686 |
| 5041412 | **1109014** | 689 |
| 5041474 | **1109022** | 689 |
| 6470693 | **1109525** | 688 |
| 5041894 | **1109529** | 688 |
| | /100 pc. | |
| 5036975 | **1109782** | 689 |
| 5037033 | **1109790** | 689 |
| 5037095 | **1109804** | 689 |
| 5037156 | **1109812** | 689 |
| 5037217 | **1109820** | 689 |
| 5037279 | **1109839** | 689 |
| 5037330 | **1109847** | 689 |
| | price/100 | |
| 5037934 | **1109863** | 689 |
| 5041771 | **1109871** | 689 |
| 5053897 | **1110002** | 689 |

| GTIN | Item no. | Page |
|---|---|---|
| | price/100 | |
| 5042075 | **1110004** | 690 |
| 5627111 | **1110005** | 692 |
| 5771906 | **1111560** | 717 |
| 6255764 | **1111640** | 693 |
| 6470723 | **1112007** | 692 |
| 5043157 | **1112023** | 700 |
| 5043218 | **1112074** | 700 |
| 5043270 | **1112120** | 699 |
| 5043331 | **1112139** | 700 |
| 5043393 | **1112228** | 699 |
| 5043454 | **1112244** | 700 |
| 5632597 | **1112708** | 701 |
| 5627128 | **1112709** | 702 |
| 6470754 | **1112735** | 691 |
| 6470778 | **1112755** | 691 |
| 5632535 | **1112759** | 701 |
| 5044291 | **1115057** | 743 |
| 5044352 | **1115065** | 743 |
| 5044598 | **1115332** | 743 |
| 5044833 | **1115421** | 742 |
| 5044895 | **1115456** | 742 |
| 6413010 | **1115460** | 742 |
| 5045076 | **1115553** | 742 |
| 5045199 | **1115596** | 743 |
| 5045250 | **1115618** | 741 |
| 5045311 | **1115626** | 741 |
| 5045434 | **1115650** | 741 |
| 5045496 | **1115669** | 742 |
| 5045557 | **1115677** | 741 |
| 5045618 | **1115685** | 741 |
| 5045977 | **1115804** | 742 |
| 5871453 | **1115855** | 741 |
| 5046516 | **1117025** | 687 |
| 5046578 | **1117033** | 687 |
| 5046639 | **1117068** | 687 |
| 5046936 | **1118021** | 700 |
| 5047056 | **1118129** | 698 |
| 5047117 | **1118153** | 698 |
| 5047179 | **1118226** | 698 |
| 6470792 | **1118421** | 702 |
| 6470730 | **1119646** | 691 |
| 5864318 | **1119648** | 691 |
| 5047599 | **1119656** | 691 |
| 5053958 | **1119672** | 691 |
| | /100 pc. | |
| 5059295 | **1119678** | 702 |
| 5059356 | **1119681** | 702 |
| 5059417 | **1119684** | 702 |
| 5060253 | **1119687** | 702 |
| 5060376 | **1119690** | 702 |
| 5060611 | **1119693** | 702 |
| 5060673 | **1119696** | 702 |
| | price/100 | |
| 6470747 | **1119700** | 691 |
| 5047650 | **1119702** | 691 |
| 5047711 | **1119729** | 691 |
| | /100 pc. | |
| 5490159 | **1119826** | 690 |
| 5490210 | **1119834** | 690 |
| | /pc. | |
| 5672975 | **1121243** | 707 |
| 5672555 | **1121278** | 707 |
| 5906919 | **1121280** | 708 |
| 5672494 | **1121294** | 707 |
| 5882251 | **1121308** | 707 |
| 5672616 | **1121332** | 707 |
| 5068310 | **1121336** | 707 |
| 5514572 | **1121363** | 707 |
| 5745037 | **1121391** | 707 |
| 5906971 | **1121393** | 708 |
| 5886334 | **1121405** | 707 |
| | price/100 | |
| 5886211 | **1121448** | 707 |
| 5049210 | **1121464** | 707 |
| 5906995 | **1121465** | 707 |
| 5419686 | **1121466** | 707 |

| GTIN | Item no. | Page |
|---|---|---|
| | price/100 | |
| 5462491 | **1121472** | 707 |
| 5907015 | **1121473** | 707 |
| 5049272 | **1121480** | 707 |
| 5049333 | **1121499** | 707 |
| 5049395 | **1121502** | 714 |
| 6471065 | **1121524** | 714 |
| 5049517 | **1121529** | 714 |
| 5049937 | **1121898** | 704 |
| 5049999 | **1121901** | 704 |
| 5907022 | **1121903** | 705 |
| 5050179 | **1121960** | 704 |
| 5905585 | **1121963** | 705 |
| 5050230 | **1121979** | 704 |
| 5907114 | **1122476** | 709 |
| 5697961 | **1122479** | 712 |
| 5697978 | **1122481** | 712 |
| 5050735 | **1122483** | 712 |
| 5050742 | **1122487** | 712 |
| | /100 pc. | |
| 5356325 | **1122500** | 716 |
| 5356332 | **1122501** | 716 |
| 5484516 | **1122509** | 715 |
| 5485896 | **1122517** | 715 |
| 5486251 | **1122525** | 715 |
| 5486794 | **1122533** | 715 |
| 5486916 | **1122541** | 715 |
| 5487036 | **1122568** | 715 |
| 5487098 | **1122576** | 715 |
| 5487159 | **1122584** | 715 |
| | price/100 | |
| 5487272 | **1122606** | 711 |
| 5487876 | **1122622** | 711 |
| 5488170 | **1122657** | 711 |
| 5697985 | **1122671** | 716 |
| 5698029 | **1122673** | 716 |
| 5698036 | **1122676** | 716 |
| 5698043 | **1122678** | 716 |
| 5938026 | **1122682** | 716 |
| 5938033 | **1122684** | 716 |
| | /100 pc. | |
| 5499756 | **1122703** | 705 |
| 5499817 | **1122707** | 705 |
| 5499879 | **1122711** | 705 |
| 5500117 | **1122715** | 705 |
| 5500179 | **1122719** | 705 |
| 5500773 | **1122723** | 705 |
| 5501978 | **1122727** | 705 |
| | price/100 | |
| 5502098 | **1122735** | 705 |
| 5502517 | **1122742** | 705 |
| 5502579 | **1122746** | 705 |
| 5117827 | **1122789** | 706 |
| | /100 pc. | |
| 5686200 | **1122900** | 731 |
| 5686217 | **1122902** | 730 |
| 6255726 | **1122904** | 731 |
| 5894117 | **1122906** | 731 |
| | price/100 | |
| 5697503 | **1122908** | 711 |
| 5686224 | **1122910** | 711 |
| 5686231 | **1122912** | 711 |
| 5686248 | **1122914** | 712 |
| 5686255 | **1122916** | 712 |
| 5686262 | **1122918** | 708 |
| 5686279 | **1122920** | 708 |
| 5686286 | **1122922** | 708 |
| 5697541 | **1122923** | 708 |
| 5686293 | **1122924** | 708 |
| 6471225 | **1122925** | 709 |
| 5686309 | **1122926** | 708 |
| 5697558 | **1122928** | 709 |
| 5697565 | **1122929** | 709 |
| | /100 pc. | |
| 6427239 | **1122930** | 710 |
| | price/100 | |
| 5697602 | **1122931** | 709 |
| 5697619 | **1122932** | 709 |
| | /100 pc. | |
| 5697626 | **1122933** | 709 |
| 5697664 | **1122934** | 709 |
| 5697671 | **1122935** | 709 |
| 5697688 | **1122936** | 709 |

| GTIN | Item no. | Page |
|---|---|---|
| | /100 pc. | |
| 5697725 | **1122937** | 709 |
| 5697732 | **1122938** | 709 |
| 5697749 | **1122939** | 709 |
| 5697787 | **1122940** | 709 |
| | price/100 | |
| 5697794 | **1122944** | 710 |
| 5697800 | **1122945** | 710 |
| 5697848 | **1122947** | 710 |
| 5697855 | **1122948** | 710 |
| | /100 pc. | |
| 6471119 | **1122950** | 709 |
| 6471126 | **1122951** | 709 |
| 6471157 | **1122953** | 709 |
| | price/100 | |
| 5938019 | **1122954** | 710 |
| | /100 pc. | |
| 6471164 | **1122955** | 709 |
| 6471171 | **1122956** | 709 |
| 5848042 | **1122957** | 709 |
| 6471188 | **1122958** | 709 |
| 6471218 | **1122959** | 709 |
| | price/100 | |
| 5698081 | **1122962** | 711 |
| 5698098 | **1122964** | 711 |
| 5698104 | **1122966** | 711 |
| 5698142 | **1122970** | 711 |
| 5698159 | **1122972** | 711 |
| 5698166 | **1122974** | 711 |
| 5698203 | **1122978** | 711 |
| 5698210 | **1122980** | 711 |
| 5698227 | **1122982** | 711 |
| 5698265 | **1122988** | 711 |
| 5698272 | **1122990** | 711 |
| 5698289 | **1122992** | 711 |
| 5697862 | **1123001** | 712 |
| 5697909 | **1123003** | 712 |
| 5697916 | **1123005** | 712 |
| 5697923 | **1123008** | 712 |
| 5698319 | **1123010** | 712 |
| 5698326 | **1123012** | 712 |
| 5698333 | **1123014** | 712 |
| 5698340 | **1123016** | 712 |
| 5698388 | **1123018** | 712 |
| 5698395 | **1123021** | 712 |
| 5698401 | **1123023** | 712 |
| 5698432 | **1123025** | 712 |
| | /100 pc. | |
| 5907138 | **1123033** | 713 |
| 5907145 | **1123035** | 713 |
| 5907169 | **1123039** | 715 |
| | price/100 | |
| 5907213 | **1123049** | 711 |
| 5907220 | **1123051** | 711 |
| | /100 pc. | |
| 5939214 | **1123121** | 732 |
| 5939238 | **1123126** | 732 |
| 5939245 | **1123128** | 732 |
| 5939276 | **1123191** | 731 |
| 5939290 | **1123195** | 731 |
| 5939306 | **1123197** | 731 |
| 6471232 | **1123262** | 713 |
| 6471249 | **1123264** | 713 |
| 6471270 | **1123266** | 713 |
| 6471287 | **1123268** | 713 |
| 6471294 | **1123270** | 713 |
| 6471300 | **1123272** | 713 |
| 6471317 | **1123274** | 713 |
| 6471324 | **1123276** | 713 |
| 5668114 | **1124502** | 730 |
| 5785316 | **1124555** | 730 |
| 5785323 | **1124563** | 730 |
| 5486008 | **1124641** | 732 |
| 5486015 | **1124643** | 732 |
| 5486022 | **1124645** | 733 |
| 5486039 | **1124647** | 734 |
| 5486046 | **1124649** | 734 |
| 5486053 | **1124651** | 734 |
| 5486060 | **1124653** | 735 |
| 5486077 | **1124655** | 736 |
| 5486084 | **1124657** | 735 |
| 5486091 | **1124659** | 738 |

| GTIN | Item no. | Page |
|---|---|---|
| | /100 pc. | |
| 5486107 | **1124661** | 739 |
| 5486114 | **1124663** | 739 |
| 5486138 | **1124667** | 737 |
| 5486145 | **1124669** | 738 |
| 5486152 | **1124671** | 737 |
| 5486169 | **1124673** | 736 |
| 6624232 | **1124679** | 676 |
| 5804888 | **1124681** | 732 |
| 5804895 | **1124683** | 733 |
| 5804901 | **1124685** | 733 |
| 5804918 | **1124687** | 733 |
| 5804925 | **1124689** | 734 |
| 5804932 | **1124691** | 735 |
| 5804949 | **1124693** | 735 |
| 5804956 | **1124695** | 736 |
| 5804963 | **1124697** | 735 |
| 5804994 | **1124699** | 738 |
| 5805007 | **1124701** | 739 |
| 5805014 | **1124703** | 739 |
| 5805052 | **1124707** | 737 |
| 5805069 | **1124709** | 738 |
| 5805076 | **1124711** | 737 |
| 5805083 | **1124713** | 737 |
| 5805120 | **1124715** | 732 |
| 6123117 | **1124719** | 677 |
| 5805137 | **1124723** | 733 |
| 5805144 | **1124725** | 733 |
| 5805175 | **1124727** | 734 |
| 5805182 | **1124729** | 734 |
| 5805199 | **1124731** | 735 |
| 5805205 | **1124733** | 735 |
| 5805212 | **1124735** | 736 |
| 5805229 | **1124737** | 735 |
| 5805236 | **1124739** | 738 |
| 5805243 | **1124741** | 739 |
| 5805250 | **1124743** | 740 |
| 5805274 | **1124747** | 737 |
| 5805281 | **1124749** | 738 |
| 5805298 | **1124751** | 737 |
| 5805304 | **1124753** | 737 |
| 6559824 | **1124792** | 740 |
| 6559831 | **1124796** | 740 |
| 6559848 | **1124798** | 740 |
| | /pc. | |
| 5477259 | **1125036** | 743 |
| | /100 pc. | |
| 6488636 | **1147008** | 719 |
| 6488643 | **1147012** | 719 |
| 6488650 | **1147016** | 719 |
| 6488667 | **1147020** | 719 |
| 6488674 | **1147024** | 719 |
| 6488681 | **1147028** | 719 |
| 6488698 | **1147032** | 719 |
| 6488810 | **1147056** | 719 |
| 6488827 | **1147060** | 719 |
| 6488858 | **1147064** | 719 |
| 6488780 | **1147076** | 719 |
| 6488797 | **1147080** | 719 |
| 6488803 | **1147084** | 719 |
| 6489398 | **1147106** | 717 |
| 6489404 | **1147110** | 717 |
| 6489411 | **1147114** | 717 |
| 6489428 | **1147118** | 717 |
| 6489435 | **1147126** | 717 |
| 6489442 | **1147130** | 717 |
| 6489459 | **1147134** | 717 |
| 6489466 | **1147138** | 717 |
| 6489619 | **1147156** | 718 |
| 6489626 | **1147160** | 718 |
| 6489633 | **1147164** | 718 |
| 6489640 | **1147168** | 718 |
| 6489657 | **1147172** | 718 |
| 6489664 | **1147186** | 718 |
| 6489671 | **1147190** | 718 |
| 6489688 | **1147194** | 718 |
| 6489855 | **1147206** | 717 |
| 6489862 | **1147210** | 717 |
| 6489879 | **1147214** | 717 |
| 6489886 | **1147218** | 717 |
| 6489893 | **1147226** | 718 |
| 6489909 | **1147230** | 718 |

| GTIN | Item no. | Page |
|---|---|---|
| | /100 pc. | |
| 6489916 | **1147234** | 718 |
| 6489923 | **1147238** | 718 |
| 6489930 | **1147306** | 718 |
| 6489947 | **1147310** | 718 |
| 6489954 | **1147314** | 718 |
| 6489961 | **1147318** | 718 |
| 6489992 | **1147336** | 718 |
| 6490004 | **1147340** | 718 |
| 6490011 | **1147344** | 718 |
| 6490028 | **1147348** | 718 |
| | | |
| 6488704 | **1148008** | 721 |
| 6488735 | **1148012** | 721 |
| 6488742 | **1148016** | 721 |
| 6488759 | **1148020** | 722 |
| 6488766 | **1148024** | 722 |
| 6488773 | **1148028** | 722 |
| 6488865 | **1148056** | 722 |
| 6488872 | **1148060** | 722 |
| 6488889 | **1148064** | 722 |
| 6488919 | **1148068** | 722 |
| 6488926 | **1148072** | 722 |
| 6488933 | **1148076** | 722 |
| 6488940 | **1148080** | 722 |
| 6488971 | **1148084** | 722 |
| 6488988 | **1148088** | 722 |
| 6488995 | **1148092** | 722 |
| 6489473 | **1148106** | 719 |
| 6489480 | **1148110** | 719 |
| 6489497 | **1148114** | 719 |
| 6489503 | **1148118** | 719 |
| 6489510 | **1148122** | 719 |
| 6489527 | **1148126** | 719 |
| 6489534 | **1148130** | 719 |
| 6489541 | **1148146** | 720 |
| 6489558 | **1148150** | 720 |
| 6489565 | **1148154** | 720 |
| 6489572 | **1148160** | 720 |
| 6489589 | **1148164** | 720 |
| 6489596 | **1148168** | 720 |
| 6489602 | **1148170** | 720 |
| 6489695 | **1148206** | 720 |
| 6489701 | **1148210** | 720 |
| 6489718 | **1148214** | 720 |
| 6489725 | **1148218** | 720 |
| 6489732 | **1148222** | 720 |
| 6489749 | **1148226** | 720 |
| 6489756 | **1148230** | 720 |
| 6489763 | **1148256** | 720 |
| 6489770 | **1148260** | 720 |
| 6489787 | **1148264** | 720 |
| 6489794 | **1148268** | 720 |
| 6489800 | **1148272** | 720 |
| 6489817 | **1148276** | 720 |
| 6489824 | **1148280** | 720 |
| 6490059 | **1148306** | 720 |
| 6490066 | **1148310** | 720 |
| 6490073 | **1148314** | 720 |
| 6490080 | **1148318** | 720 |
| 6490110 | **1148322** | 720 |
| 6490127 | **1148326** | 720 |
| 6490134 | **1148330** | 720 |
| 6490141 | **1148334** | 720 |
| 6490172 | **1148338** | 720 |
| 6490189 | **1148342** | 720 |
| 7258207 | **1148350** | 722 |
| | /100 pc. | |
| 6490196 | **1148376** | 721 |
| 6490202 | **1148380** | 721 |
| 6490233 | **1148384** | 721 |
| 6490240 | **1148388** | 721 |
| 6490257 | **1148392** | 721 |
| 6490264 | **1148396** | 721 |
| 6490295 | **1148406** | 721 |
| 6490301 | **1148410** | 721 |
| 6490318 | **1148414** | 721 |
| 6490325 | **1148418** | 721 |
| 6490356 | **1148422** | 721 |
| 6490363 | **1148426** | 721 |
| 6490370 | **1148430** | 721 |
| 6490387 | **1148434** | 721 |
| 6490424 | **1148438** | 721 |
| 6490431 | **1148442** | 721 |

| GTIN | Item no. | Page |
|---|---|---|
| | /100 pc. | |
| 6490448 | **1148476** | 721 |
| 6490486 | **1148480** | 721 |
| 6490493 | **1148484** | 721 |
| 6490509 | **1148488** | 721 |
| 6490547 | **1148492** | 721 |
| 6490554 | **1148496** | 721 |
| | | |
| 5732570 | **1154975** | 383 |
| 5463399 | **1154990** | 383 |
| | | |
| 5126799 | **1408011** | 670 |
| 5126850 | **1408046** | 670 |
| | price/100 | |
| 5127031 | **1408534** | 668 |
| | | |
| | /100 pc. | |
| 5141495 | **1481711** | 665 |
| | | |
| 6502165 | **1483601** | 662 |
| 6502172 | **1483603** | 662 |
| 6502189 | **1483605** | 662 |
| 6502196 | **1483607** | 662 |
| 6502202 | **1483611** | 662 |
| 6502240 | **1483613** | 662 |
| 6502257 | **1483615** | 662 |
| 6502264 | **1483617** | 662 |
| 6502295 | **1483621** | 662 |
| 6502301 | **1483623** | 662 |
| 6502318 | **1483625** | 662 |
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| 6502356 | **1483633** | 662 |
| 6502363 | **1483635** | 662 |
| 6502370 | **1483641** | 663 |
| 6502387 | **1483643** | 663 |
| 6502417 | **1483645** | 663 |
| 6502424 | **1483647** | 663 |
| 6502431 | **1483649** | 663 |
| 6502448 | **1483651** | 663 |
| 6502479 | **1483653** | 663 |
| 6502486 | **1483661** | 663 |
| 6502493 | **1483663** | 663 |
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| 6502530 | **1483667** | 663 |
| 6502547 | **1483669** | 663 |
| 6502554 | **1483671** | 663 |
| 6502561 | **1483681** | 664 |
| 6502592 | **1483683** | 664 |
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| 6502622 | **1483689** | 664 |
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| 6502660 | **1483693** | 664 |
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| 6502714 | **1483711** | 664 |
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| 6502738 | **1483715** | 664 |
| 6502745 | **1483717** | 664 |
| 6502776 | **1483751** | 664 |
| 6502783 | **1483753** | 664 |
| 6502790 | **1483757** | 664 |
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| 6502837 | **1483763** | 664 |
| 6502844 | **1483765** | 664 |
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| 6502967 | **1483793** | 663 |
| 6502974 | **1483795** | 663 |
| 6502981 | **1483797** | 663 |
| 6503018 | **1483801** | 663 |
| 6503025 | **1483803** | 663 |
| 6503032 | **1483805** | 663 |
| 6503049 | **1483807** | 663 |
| 6503148 | **1483811** | 663 |
| 6503155 | **1483813** | 663 |

| GTIN | Item no. | Page |
|---|---|---|
| | /100 pc. | |
| 6503162 | **1483815** | 663 |
| 6503193 | **1483821** | 663 |
| 6503209 | **1483823** | 663 |
| 6503216 | **1483825** | 663 |
| 6503223 | **1483831** | 663 |
| 6503254 | **1483833** | 663 |
| 6503261 | **1483835** | 663 |
| 6503278 | **1483841** | 663 |
| 6503285 | **1483843** | 663 |
| 6503322 | **1483845** | 663 |
| 6503339 | **1483901** | 664 |
| 6503346 | **1483903** | 664 |
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| 6503407 | **1483911** | 664 |
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| 6503506 | **1483935** | 664 |
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| 6503520 | **1483941** | 664 |
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| 6503568 | **1483951** | 664 |
| 6503575 | **1483955** | 664 |
| 6503735 | **1483960** | 664 |
| 6503582 | **1483961** | 664 |
| 6503612 | **1483963** | 664 |
| 6503629 | **1483965** | 664 |
| 6503636 | **1483969** | 664 |
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| 6503674 | **1483977** | 664 |
| 6503681 | **1483981** | 664 |
| 6503698 | **1483985** | 666 |
| 6503070 | **1483991** | 670 |
| 6503087 | **1483993** | 670 |
| 6503094 | **1483995** | 670 |
| 6503100 | **1483997** | 670 |
| 6503131 | **1483999** | 665 |
| | | |
| 5145936 | **1484702** | 667 |
| 5145998 | **1484818** | 668 |
| 5146056 | **1484826** | 668 |
| 6471355 | **1484838** | 668 |
| | | |
| 5146353 | **1485105** | 665 |
| 5146414 | **1485113** | 665 |
| 5928126 | **1485140** | 665 |
| 5928133 | **1485144** | 665 |
| 5928140 | **1485148** | 665 |
| | | |
| 6342112 | **1486232** | 668 |
| 6342136 | **1486234** | 668 |
| 6342150 | **1486236** | 668 |
| 6342167 | **1486238** | 669 |
| 6342174 | **1486242** | 669 |
| 6342181 | **1486244** | 669 |
| 6342129 | **1486282** | 668 |
| 6342143 | **1486284** | 668 |
| 6342198 | **1486286** | 668 |
| 6342204 | **1486288** | 669 |
| 6342211 | **1486292** | 669 |
| 6342228 | **1486294** | 669 |
| 5149231 | **1486861** | 671 |
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| 5150855 | **1488015** | 667 |
| 5150916 | **1488023** | 667 |
| 5150978 | **1488031** | 667 |
| 5151036 | **1488074** | 667 |
| 5151098 | **1488082** | 667 |
| 5151159 | **1488090** | 667 |
| 5407140 | **1488111** | 667 |
| | | |
| 5840602 | **2007833** | 386 |
| | | |
| | /pc. | |
| 5518419 | **2362970** | 260 |
| 6699063 | **2362979** | 260 |
| | | |
| | /100 pc. | |
| 5253211 | **3141047** | 655 |
| 6096640 | **3141048** | 655 |

| GTIN | Item no. | Page |
|---|---|---|
| | /100 pc. | |
| 5253334 | **3141128** | 521 |
| 5119982 | **3141136** | 521 |
| 5123583 | **3141140** | 521 |
| 5123644 | **3141144** | 521 |
| 5253396 | **3141209** | 521 |
| 5895152 | **3141233** | 655 |
| 5253457 | **3141306** | 521 |
| 5023456 | **3141310** | 656 |
| 5023579 | **3141312** | 656 |
| 5594437 | **3141314** | 656 |
| 6096886 | **3141327** | 656 |
| 6096893 | **3141328** | 656 |
| 5882886 | **3141330** | 656 |
| 6096909 | **3141339** | 656 |
| 6098385 | **3141482** | 656 |
| 6098392 | **3141484** | 656 |
| 6098408 | **3141492** | 656 |
| 6098439 | **3141494** | 656 |
| 6098446 | **3141502** | 656 |
| | | |
| 5513315 | **3453820** | 520 |
| | | |
| 5306979 | **3462862** | 523 |
| 5307037 | **3462889** | 523 |
| | | |
| 5307150 | **3463060** | 523 |
| | | |
| 5386056 | **5043107** | 386 |
| | | |
| 5413950 | **5301033** | 523 |
| | | |
| 5414551 | **5302021** | 523 |
| | | |
| | /pc. | |
| 5784739 | **5303203** | 744 |
| | price/100 | |
| 5414971 | **5303206** | 522 |
| | | |
| | /100 pc. | |
| 5422594 | **5327075** | 670 |
| 5422655 | **5327083** | 670 |
| 5422716 | **5327105** | 670 |
| 5422778 | **5327121** | 670 |
| | | |
| | price/m | |
| 5650591 | **6000054** | 323 |
| 5467700 | **6000055** | 323 |
| 5467731 | **6000056** | 323 |
| 5470724 | **6000057** | 323 |
| 5470731 | **6000059** | 323 |
| 5624813 | **6000060** | 321 |
| 5037149 | **6000062** | 321 |
| 5037170 | **6000063** | 321 |
| 5037187 | **6000064** | 321 |
| 5037194 | **6000066** | 321 |
| 5624820 | **6000069** | 322 |
| 5037200 | **6000071** | 322 |
| 5037231 | **6000072** | 322 |
| 5037248 | **6000073** | 322 |
| 5037255 | **6000075** | 322 |
| 5978077 | **6000086** | 324 |
| 5360759 | **6000087** | 324 |
| 5360766 | **6000089** | 324 |
| 5360773 | **6000090** | 324 |
| 5360780 | **6000091** | 324 |
| 6397655 | **6000122** | 337 |
| 6397662 | **6000190** | 337 |
| 5651758 | **6000209** | 337 |
| 6397679 | **6000331** | 337 |
| 6397686 | **6000451** | 337 |
| 6397693 | **6000515** | 337 |
| 6397709 | **6000775** | 337 |
| 6622108 | **6000909** | 339 |
| 6622115 | **6000913** | 339 |
| 6622139 | **6000917** | 339 |
| 6622146 | **6000925** | 339 |
| 6448388 | **6000933** | 339 |
| 6622153 | **6000941** | 339 |
| 6448418 | **6000958** | 339 |
| | | |
| 5430933 | **6001070** | 330 |
| 6101290 | **6001072** | 330 |
| 6101351 | **6001074** | 330 |

| GTIN | Item no. | Page |
|---|---|---|
| | price/m | |
| 6101412 | **6001076** | 330 |
| 6101771 | **6001078** | 330 |
| 6102198 | **6001080** | 330 |
| 6102259 | **6001082** | 330 |
| 6102310 | **6001085** | 330 |
| 5431046 | **6001087** | 331 |
| 5166016 | **6001088** | 331 |
| 5166023 | **6001090** | 331 |
| 5166061 | **6001091** | 331 |
| 5166078 | **6001093** | 331 |
| 5166085 | **6001095** | 331 |
| 5166122 | **6001097** | 331 |
| 5166139 | **6001099** | 331 |
| 5430940 | **6001415** | 329 |
| 6814879 | **6001416** | 329 |
| 6078912 | **6001418** | 329 |
| 6814930 | **6001420** | 329 |
| 5045281 | **6001421** | 329 |
| 6815050 | **6001424** | 329 |
| 6815111 | **6001428** | 329 |
| 6815173 | **6001432** | 329 |
| 6815234 | **6001436** | 329 |
| 5430957 | **6001441** | 328 |
| 6858552 | **6001442** | 328 |
| 6078974 | **6001444** | 328 |
| 6858613 | **6001446** | 328 |
| 5045274 | **6001447** | 328 |
| 6858675 | **6001448** | 328 |
| 6858736 | **6001450** | 328 |
| 6018185 | **6001451** | 328 |
| 6858798 | **6001452** | 328 |
| 6858859 | **6001454** | 328 |
| 6687251 | **6001820** | 378 |
| 6687268 | **6001822** | 378 |
| 6687275 | **6001824** | 378 |
| 6687282 | **6001826** | 378 |
| 6687299 | **6001828** | 378 |
| 6687305 | **6001830** | 378 |
| 6687312 | **6001832** | 378 |
| 6687329 | **6001834** | 378 |
| 6687114 | **6001840** | 378 |
| 6687121 | **6001842** | 378 |
| 6687138 | **6001844** | 378 |
| 6687145 | **6001846** | 378 |
| 6687152 | **6001848** | 378 |
| 6687169 | **6001850** | 378 |
| 6687176 | **6001852** | 378 |
| 6687183 | **6001854** | 378 |
| 6687190 | **6001860** | 378 |
| 6687206 | **6001862** | 378 |
| 6687213 | **6001864** | 378 |
| 6687848 | **6001866** | 378 |
| 6687220 | **6001868** | 378 |
| 6687237 | **6001870** | 378 |
| 6687855 | **6001872** | 378 |
| 6687862 | **6001874** | 378 |
| | /pc. | |
| 6352630 | **6001920** | 335 |
| 6352692 | **6001939** | 335 |
| 6352753 | **6001947** | 335 |
| 6352814 | **6001955** | 335 |
| 6352876 | **6001963** | 335 |
| 6352937 | **6001971** | 335 |
| 6624799 | **6001998** | 335 |
| | | |
| 6001699 | **6002218** | 335 |
| 6027248 | **6002222** | 335 |
| 6001750 | **6002226** | 335 |
| 6001811 | **6002234** | 335 |
| 6001873 | **6002242** | 335 |
| 6001934 | **6002250** | 335 |
| 6001996 | **6002269** | 335 |
| 6002054 | **6002307** | 345 |
| 6027361 | **6002311** | 345 |
| 6002115 | **6002315** | 345 |
| 6002177 | **6002323** | 345 |
| 6002238 | **6002331** | 345 |
| 6002290 | **6002358** | 345 |
| 6002351 | **6002366** | 345 |
| 5456230 | **6002370** | 345 |
| 5456247 | **6002372** | 345 |
| 5456254 | **6002374** | 345 |
| 5456261 | **6002376** | 345 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Numeric directory

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 5456278 | **6002378** | 345 |
| 5456285 | **6002380** | 345 |
| | /pc. | |
| 5456292 | **6002382** | 345 |
| 5456308 | **6002384** | 345 |
| | price/m | |
| 6020270 | **6002402** | 340 |
| 6020393 | **6002404** | 340 |
| 6020515 | **6002406** | 340 |
| 6020638 | **6002408** | 340 |
| 6020751 | **6002410** | 340 |
| 6020874 | **6002413** | 340 |
| 6020997 | **6002415** | 340 |
| 6021116 | **6002417** | 340 |
| 6021239 | **6002431** | 341 |
| 6021352 | **6002433** | 341 |
| 6021475 | **6002435** | 341 |
| 6021598 | **6002437** | 341 |
| 6021710 | **6002439** | 341 |
| 6021833 | **6002441** | 341 |
| 6021956 | **6002443** | 341 |
| 6022076 | **6002445** | 341 |
| 5149620 | **6002451** | 342 |
| 5422624 | **6002455** | 342 |
| 5149637 | **6002457** | 342 |
| 5149644 | **6002460** | 342 |
| 5149675 | **6002463** | 342 |
| 5149682 | **6002466** | 342 |
| 5771586 | **6002469** | 342 |
| 5874904 | **6002475** | 343 |
| 5874911 | **6002476** | 343 |
| 5874928 | **6002477** | 343 |
| 5874959 | **6002479** | 343 |
| 5874966 | **6002481** | 343 |
| 5874980 | **6002483** | 343 |
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| 6397907 | **6002608** | 346 |
| 6397914 | **6002612** | 346 |
| 6397921 | **6002614** | 346 |
| 6397938 | **6002616** | 346 |
| 6397945 | **6002620** | 346 |
| 6397952 | **6002622** | 346 |
| | | |
| 6397716 | **6003175** | 347 |
| 5670742 | **6003214** | 347 |
| 6397723 | **6003309** | 347 |
| 5651765 | **6003402** | 347 |
| 6397730 | **6003515** | 347 |
| 6397747 | **6003616** | 347 |
| 6622047 | **6003623** | 348 |
| 6622054 | **6003625** | 348 |
| 6622061 | **6003627** | 348 |
| 6622078 | **6003629** | 348 |
| 6622085 | **6003631** | 348 |
| 6622092 | **6003633** | 348 |
| 5380153 | **6003681** | 350 |
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| | /100 pc. | |
| 5872887 | **6003750** | 384 |
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| | /pc. | |
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| 6079896 | **6003884** | 680 |
| 6609215 | **6003885** | 681 |
| 6625352 | **6003887** | 681 |
| 6079902 | **6003888** | 679 |
| 6079919 | **6003892** | 681 |

| GTIN | Item no. | Page |
|---|---|---|
| | price/m | |
| 6397778 | **6005470** | 338 |
| 6397785 | **6005472** | 338 |
| 6397792 | **6005474** | 338 |
| 6397808 | **6005476** | 338 |
| 6397846 | **6005478** | 338 |
| 6397860 | **6005480** | 338 |
| 6397853 | **6005482** | 338 |
| 5686392 | **6005520** | 359 |
| 5686408 | **6005523** | 363 |
| 5686415 | **6005526** | 367 |
| 5686422 | **6005529** | 371 |
| 5686439 | **6005535** | 358 |
| 5686446 | **6005538** | 362 |
| 5686453 | **6005541** | 366 |
| 5686460 | **6005544** | 370 |
| 5686477 | **6005550** | 360 |
| 5686484 | **6005553** | 364 |
| 5686491 | **6005556** | 368 |
| 5686507 | **6005559** | 372 |
| 5771593 | **6005565** | 361 |
| 5771609 | **6005568** | 365 |
| 5771647 | **6005571** | 369 |
| 5771654 | **6005574** | 373 |
| | /pc. | |
| 5815808 | **6005605** | 390 |
| 5815815 | **6005607** | 391 |
| 5815822 | **6005612** | 391 |
| 5815839 | **6005615** | 392 |
| 5815846 | **6005635** | 391 |
| 5815853 | **6005637** | 391 |
| 5815860 | **6005642** | 391 |
| 5815877 | **6005645** | 392 |
| 5938699 | **6005650** | 380 |
| | | |
| | price/m | |
| 5438649 | **6006395** | 333 |
| 5438656 | **6006396** | 333 |
| 5438663 | **6006397** | 333 |
| 6150854 | **6006453** | 332 |
| 6151219 | **6006455** | 332 |
| 6151578 | **6006456** | 332 |
| 6151936 | **6006457** | 332 |
| 6152292 | **6006458** | 332 |
| 5480419 | **6006468** | 333 |
| | /pc. | |
| 6933259 | **6006486** | 386 |
| 6933310 | **6006487** | 386 |
| 6933372 | **6006488** | 386 |
| 6933433 | **6006489** | 386 |
| 6440948 | **6006890** | 747 |
| 6409112 | **6006901** | 748 |
| 6409129 | **6006902** | 749 |
| 6409136 | **6006903** | 750 |
| 6409143 | **6006904** | 751 |
| 6409150 | **6006905** | 752 |
| 6409174 | **6006906** | 753 |
| 6409181 | **6006907** | 754 |
| 6409198 | **6006908** | 755 |
| 6409204 | **6006909** | 756 |
| 6409211 | **6006910** | 757 |
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| 6355518 | **6007201** | 504 |
| 6005895 | **6007228** | 504 |
| 6005956 | **6007236** | 504 |
| 6006014 | **6007244** | 504 |
| 6006076 | **6007252** | 504 |
| 6006137 | **6007260** | 504 |
| 6006199 | **6007279** | 504 |
| 6006250 | **6007287** | 504 |
| 6006311 | **6007295** | 504 |
| 6006373 | **6007309** | 504 |
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| | price/pair | |
| 5439448 | **6007496** | 508 |
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| | /pc. | |
| 6007097 | **6008046** | 508 |
| 6007158 | **6008054** | 508 |
| 6007219 | **6008062** | 508 |
| 6007271 | **6008070** | 508 |
| 6007332 | **6008089** | 508 |
| 6007394 | **6008097** | 508 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 6007455 | **6008100** | 508 |
| 6629718 | **6008224** | 507 |
| 6356058 | **6008232** | 507 |
| 6007639 | **6008240** | 507 |
| 6007691 | **6008259** | 507 |
| 6007752 | **6008267** | 507 |
| 5612766 | **6008269** | 507 |
| 6007813 | **6008275** | 507 |
| 5612773 | **6008277** | 507 |
| 6007875 | **6008283** | 507 |
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| 6007998 | **6008305** | 507 |
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| 5740803 | **6009959** | 485 |
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| 5740827 | **6009963** | 485 |
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| 5433972 | **6010622** | 495 |
| 5433989 | **6010624** | 495 |
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| 5434030 | **6010628** | 495 |
| 5434047 | **6010630** | 496 |
| 5434085 | **6010632** | 496 |
| 5434092 | **6010634** | 496 |
| 5434108 | **6010636** | 496 |
| 5434146 | **6010638** | 496 |
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| 5064916 | **6011908** | 493 |
| 5065098 | **6011959** | 494 |
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| 6358632 | **6013384** | 505 |
| 6358694 | **6013392** | 505 |
| 6011230 | **6013406** | 505 |
| 6011292 | **6013414** | 505 |
| 6011353 | **6013422** | 505 |
| 6011414 | **6013430** | 505 |
| 6011476 | **6013449** | 505 |
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| | /pc. | |
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| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
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| | /pc. | |
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| | /pc. | |
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| 5863021 | **6016445** | 385 |
| 6013098 | **6016529** | 381 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 6518111 | **6016545** | 376 |
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| 6561261 | **6017164** | 385 |
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| 6013814 | **6017347** | 387 |
| 6013876 | **6017355** | 387 |
| 6326112 | **6017371** | 377 |
| | price/m | |
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| | /pc. | |
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| 5848295 | **6017713** | 388 |
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| | | |
| 6014231 | **6018300** | 507 |
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| | /pc. | |
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| | /pc. | |
| 6229154 | **6018513** | 502 |
| 5706007 | **6018517** | 587 |
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| 6014415 | **6018963** | 507 |
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| 6014477 | **6019064** | 507 |
| 7352202 | **6019480** | 621 |
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| | /pc. | |
| 6014538 | **6019528** | 508 |
| 6653645 | **6019532** | 605 |
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| 6014712 | **6019617** | 498 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 6014774 | **6019668** | 498 |
| 6701612 | **6019680** | 605 |
| 6701629 | **6019682** | 606 |
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| | | |
| | /pc. | |
| 6453191 | **6040322** | 85 |
| 6449835 | **6040349** | 85 |
| 6453672 | **6040357** | 85 |
| 6379392 | **6040403** | 164 |
| 6502639 | **6040411** | 164 |
| 6379453 | **6040438** | 164 |
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| 5992141 | **6040480** | 113 |
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| 5992165 | **6040484** | 113 |
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| 5992196 | **6040490** | 113 |
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| 5992240 | **6040506** | 113 |
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| 5992318 | **6040526** | 114 |
| 5992325 | **6040528** | 114 |
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| 5992370 | **6040544** | 114 |
| 5992387 | **6040546** | 114 |
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| 6040988 | **6040804** | 249 |
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| 6041022 | **6040808** | 249 |
| 6041039 | **6040810** | 249 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 6041107 | **6040812** | 249 |
| 6041138 | **6040820** | 249 |
| 6041152 | **6040824** | 249 |
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| 5877615 | **6041000** | 78 |
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| 5881346 | **6041014** | 78 |
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| 5881537 | **6041040** | 114 |
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| 5878889 | **6041294** | 116 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 5878926 | **6041296** | 116 |
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| 5878940 | **6041300** | 116 |
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| 5879008 | **6041322** | 116 |
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| 5879114 | **6041332** | 116 |
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| 5879176 | **6041344** | 116 |
| 5879183 | **6041348** | 116 |
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| 5879244 | **6041354** | 116 |
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| 5880141 | **6041750** | 213 |
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| 5880356 | **6041790** | 213 |
| 5880547 | **6041840** | 213 |
| 5896029 | **6041841** | 213 |
| 5880554 | **6041842** | 213 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 5880561 | **6041844** | 213 |
| 5880578 | **6041846** | 213 |
| 5880585 | **6041848** | 213 |
| 5880592 | **6041850** | 213 |
| 5880608 | **6041860** | 213 |
| 5896036 | **6041861** | 213 |
| 5880738 | **6041862** | 213 |
| 5880745 | **6041864** | 213 |
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| 5880769 | **6041868** | 213 |
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| 5882183 | **6041962** | 215 |
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| 5882336 | **6042010** | 215 |
| 5896104 | **6042011** | 215 |
| 5882343 | **6042012** | 215 |
| 5882350 | **6042014** | 215 |
| 5882367 | **6042018** | 215 |
| 5882404 | **6042020** | 215 |
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| 5882527 | **6042040** | 215 |
| 5882534 | **6042042** | 215 |
| 6990382 | **6042910** | 111 |
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| 6050116 | **6043038** | 77 |
| 6050178 | **6043062** | 111 |
| 6050239 | **6043119** | 85 |
| 6926657 | **6043123** | 85 |
| 6050291 | **6043127** | 85 |
| 6050352 | **6043135** | 85 |
| 6050413 | **6043208** | 163 |
| 6050475 | **6043216** | 163 |
| 6050536 | **6043224** | 163 |
| 6050598 | **6043232** | 163 |
| 6051014 | **6043402** | 166 |
| 6051076 | **6043410** | 166 |
| 6051137 | **6043429** | 166 |
| 6051199 | **6043437** | 166 |
| 6051618 | **6043607** | 121 |
| 6051670 | **6043615** | 121 |
| 6051731 | **6043623** | 121 |
| 6051793 | **6043631** | 121 |
| 6052035 | **6043704** | 84 |
| 6052097 | **6043712** | 84 |
| 6052158 | **6043720** | 84 |
| 6052219 | **6043755** | 162 |
| 6052271 | **6043763** | 162 |
| 6052332 | **6043771** | 162 |
| 6052394 | **6043798** | 162 |
| | | |
| 6881987 | **6044473** | 770 |
| 6881994 | **6044475** | 770 |
| 6882007 | **6044477** | 770 |

| GTIN | Item no. | Page |
|---|---|---|
| 6882038 | **6044479** | 770 |
| 6882045 | **6044481** | 770 |
| 6882052 | **6044501** | 770 |
| 6882069 | **6044503** | 770 |
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| 6882106 | **6044507** | 770 |
| 6882113 | **6044509** | 770 |
| 6882120 | **6044511** | 770 |
| 6695096 | **6044541** | 264 |
| 6695089 | **6044543** | 264 |
| 6695102 | **6044545** | 264 |
| 6695119 | **6044547** | 264 |
| 6695126 | **6044551** | 264 |
| 6695133 | **6044553** | 264 |
| | /pc. | |
| 6341726 | **6044581** | 265 |
| 6341733 | **6044583** | 265 |
| 6341740 | **6044585** | 265 |
| 6341757 | **6044587** | 265 |
| 6341764 | **6044589** | 265 |
| 6341771 | **6044591** | 265 |
| | price/m | |
| 6341795 | **6044596** | 265 |
| | /pc. | |
| 6640669 | **6044601** | 263 |
| 6640676 | **6044603** | 263 |
| | | |
| | price/m | |
| 6053650 | **6045057** | 63 |
| 6053711 | **6045073** | 63 |
| 6053773 | **6045103** | 63 |
| 6053834 | **6045138** | 63 |
| 6053896 | **6045154** | 63 |
| 6053957 | **6045200** | 63 |
| 6054015 | **6045251** | 63 |
| 6054077 | **6045308** | 63 |
| 6381975 | **6045707** | 65 |
| 6382033 | **6045715** | 65 |
| 6382095 | **6045723** | 65 |
| 6382156 | **6045731** | 65 |
| 6382217 | **6045758** | 65 |
| 6382279 | **6045766** | 65 |
| 6382330 | **6045774** | 65 |
| 6382392 | **6045782** | 65 |
| 5706663 | **6045830** | 64 |
| 5706670 | **6045832** | 64 |
| 5706687 | **6045834** | 64 |
| 5706694 | **6045836** | 64 |
| 5706700 | **6045838** | 64 |
| 5706717 | **6045840** | 64 |
| 5706724 | **6045842** | 64 |
| 5706731 | **6045844** | 64 |
| 5706748 | **6045850** | 64 |
| 5706755 | **6045852** | 64 |
| 5706762 | **6045854** | 64 |
| 5706779 | **6045856** | 64 |
| 5706786 | **6045858** | 64 |
| 5706793 | **6045860** | 64 |
| 5706809 | **6045862** | 64 |
| 5706830 | **6045864** | 64 |
| 6561971 | **6045952** | 62 |
| 6562039 | **6045960** | 62 |
| 6562091 | **6045979** | 62 |
| 6562213 | **6045995** | 62 |
| | | |
| 6562275 | **6046002** | 62 |
| 6467365 | **6046004** | 63 |
| 6562398 | **6046029** | 63 |
| 6346660 | **6046037** | 63 |
| 6288427 | **6046370** | 63 |
| 6288465 | **6046372** | 63 |
| 6288472 | **6046374** | 63 |
| 6517305 | **6046375** | 63 |
| 6288489 | **6046376** | 63 |
| 6517312 | **6046379** | 63 |
| | | |
| 6662104 | **6047410** | 79 |
| 6662142 | **6047412** | 80 |
| | price/m | |
| 5390848 | **6047417** | 75 |
| 5390855 | **6047433** | 75 |
| 5390862 | **6047460** | 75 |
| 6662159 | **6047600** | 132 |
| 6662166 | **6047602** | 133 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Numeric directory

| GTIN | Item no. | Page |
|---|---|---|
| | price/m | |
| 5390879 | **6047611** | 94 |
| 5903895 | **6047612** | 95 |
| 5706083 | **6047613** | 96 |
| 5706113 | **6047614** | 97 |
| 5391197 | **6047630** | 94 |
| 5903901 | **6047631** | 95 |
| 5706137 | **6047633** | 97 |
| 5391203 | **6047638** | 94 |
| 5903932 | **6047639** | 95 |
| 5706144 | **6047640** | 96 |
| 5706175 | **6047641** | 97 |
| 5391210 | **6047654** | 94 |
| 5903949 | **6047655** | 95 |
| 5706182 | **6047656** | 96 |
| 5706199 | **6047657** | 97 |
| 5391227 | **6047689** | 94 |
| 5903956 | **6047690** | 95 |
| 5706205 | **6047691** | 96 |
| 5706236 | **6047692** | 97 |
| 5391234 | **6047719** | 94 |
| 5903963 | **6047720** | 95 |
| 5706243 | **6047721** | 96 |
| 5706250 | **6047722** | 97 |
| 5391241 | **6047735** | 94 |
| 5903994 | **6047736** | 95 |
| 5706267 | **6047737** | 96 |
| 5706298 | **6047738** | 97 |
| 6610006 | **6049119** | 262 |
| 6610013 | **6049121** | 262 |
| 6610020 | **6049123** | 262 |
| 6610051 | **6049125** | 262 |
| 6610068 | **6049127** | 262 |
| 6610075 | **6049129** | 262 |
| 7304676 | **6049140** | 259 |
| 7304720 | **6049141** | 259 |
| 7304744 | **6049142** | 259 |
| 7304799 | **6049143** | 259 |
| 7304829 | **6049144** | 259 |
| 7304843 | **6049145** | 259 |
| | price/m | |
| 6146826 | **6049181** | 259 |
| 6146857 | **6049183** | 259 |
| 6146864 | **6049185** | 259 |
| 6146871 | **6049187** | 259 |
| 6146888 | **6049189** | 259 |
| 6146918 | **6049191** | 259 |
| | /pc. | |
| 6640720 | **6049239** | 770 |
| | price/m | |
| 6640683 | **6049241** | 264 |
| 6640713 | **6049243** | 264 |
| | **6049248** | 770 |
| | /100 pc. | |
| 6147878 | **6049250** | 265 |
| | price/m | |
| 6147816 | **6049252** | 264 |
| | /pc. | |
| 6147786 | **6049256** | 263 |
| | price/m | |
| 6147885 | **6049259** | 261 |
| 6702725 | **6049273** | 263 |
| 7275860 | **6049275** | 264 |
| 6702718 | **6049276** | 263 |
| 6702732 | **6049277** | 263 |
| | /pc. | |
| 6619030 | **6049280** | 262 |
| 6672271 | **6049285** | 262 |
| | /pc. | |
| 6632879 | **6049290** | 262 |
| 6632886 | **6049292** | 262 |
| 6632893 | **6049294** | 262 |
| 6632909 | **6049296** | 262 |
| 6632916 | **6049298** | 262 |
| 6632923 | **6049300** | 262 |
| 6860678 | **6049372** | 258 |
| 6860685 | **6049374** | 258 |
| 6860692 | **6049376** | 258 |
| 6860708 | **6049378** | 258 |
| 6860739 | **6049380** | 258 |
| 6860746 | **6049382** | 258 |
| 6860753 | **6049400** | 251 |
| 6860760 | **6049402** | 251 |
| 6860791 | **6049404** | 251 |
| 6860807 | **6049406** | 251 |
| 6860814 | **6049408** | 251 |
| 6860821 | **6049410** | 251 |
| 6581078 | **6050345** | 390 |
| | /pc. | |
| 6520671 | **6050353** | 528 |
| 6520695 | **6050354** | 527 |
| | price/m | |
| 6057559 | **6050360** | 522 |
| 6936137 | **6050370** | 522 |
| | /100 pc. | |
| 6936199 | **6050375** | 522 |
| | price/m | |
| 6219605 | **6051192** | 312 |
| 6219636 | **6051194** | 312 |
| 6219643 | **6051196** | 312 |
| 6219650 | **6051198** | 312 |
| 6219667 | **6051200** | 312 |
| 6219698 | **6051210** | 312 |
| 6219704 | **6051212** | 312 |
| 6219711 | **6051214** | 312 |
| 6219728 | **6051216** | 312 |
| 6219759 | **6051218** | 312 |
| 6179824 | **6051222** | 312 |
| 6179855 | **6051224** | 312 |
| 6179862 | **6051226** | 312 |
| 6179879 | **6051228** | 312 |
| 6179886 | **6051230** | 312 |
| 6432370 | **6051340** | 243 |
| 6190508 | **6051345** | 480 |
| 6432257 | **6051359** | 243 |
| 6611898 | **6051367** | 243 |
| 6190539 | **6051370** | 480 |
| 6611775 | **6051383** | 243 |
| 6190546 | **6051387** | 480 |
| 6611713 | **6051413** | 243 |
| 6087792 | **6051448** | 243 |
| 6595631 | **6051472** | 243 |
| | price/m | |
| 6385577 | **6052029** | 243 |
| 6029655 | **6052056** | 242 |
| 6057979 | **6052096** | 243 |
| 5865834 | **6052097** | 480 |
| 6029716 | **6052103** | 242 |
| 6058099 | **6052150** | 243 |
| 6030019 | **6052153** | 242 |
| 6058150 | **6052207** | 243 |
| 5865841 | **6052208** | 480 |
| 6030071 | **6052210** | 242 |
| 6058273 | **6052304** | 243 |
| 6031399 | **6052307** | 242 |
| 6058396 | **6052401** | 243 |
| 6031511 | **6052405** | 242 |
| 6058518 | **6052509** | 243 |
| 6031634 | **6052512** | 242 |
| 6058631 | **6052568** | 243 |
| 6031696 | **6052571** | 242 |
| 6058754 | **6052606** | 243 |
| 6031757 | **6052609** | 242 |
| 6657490 | **6052640** | 242 |
| 6657551 | **6052643** | 242 |
| 6657612 | **6052647** | 242 |
| 6657674 | **6052650** | 242 |
| 6336678 | **6052656** | 242 |
| 6336739 | **6052662** | 242 |
| 6336791 | **6052668** | 242 |
| 6336852 | **6052671** | 242 |
| 6336913 | **6052674** | 242 |
| 6038770 | **6052703** | 243 |
| 6038831 | **6052706** | 243 |
| 6038893 | **6052709** | 243 |
| 6038954 | **6052712** | 243 |
| 6039012 | **6052715** | 243 |
| 6039074 | **6052718** | 243 |
| 6039135 | **6052721** | 243 |
| 6039197 | **6052724** | 243 |
| 6692347 | **6052810** | 242 |
| | price/m | |
| 6031818 | **6052821** | 242 |
| 6031931 | **6052824** | 242 |
| 6032051 | **6052831** | 242 |
| | price/m | |
| 6032174 | **6052834** | 242 |
| 6032235 | **6052837** | 242 |
| 6032297 | **6052841** | 242 |
| 6032358 | **6052844** | 242 |
| 6058877 | **6052878** | 243 |
| 6058938 | **6052894** | 243 |
| 6058990 | **6052908** | 243 |
| 6059058 | **6052932** | 243 |
| 6059119 | **6052959** | 243 |
| 6059171 | **6052975** | 243 |
| 5675679 | **6052980** | 243 |
| 5866169 | **6052981** | 243 |
| 6955817 | **6052983** | 243 |
| 5870883 | **6052984** | 243 |
| 5870890 | **6052985** | 243 |
| 5866190 | **6052986** | 243 |
| 5021124 | **6052991** | 242 |
| 5021155 | **6052993** | 242 |
| 5021162 | **6052994** | 242 |
| 5021216 | **6052995** | 242 |
| 5021223 | **6052996** | 242 |
| 5021247 | **6052998** | 242 |
| 6059294 | **6053106** | 82 |
| 6386352 | **6053165** | 82 |
| 6059355 | **6053203** | 82 |
| 6059416 | **6053300** | 82 |
| 6059478 | **6053548** | 81 |
| 6386659 | **6053572** | 81 |
| 6059539 | **6053599** | 81 |
| 6059591 | **6053637** | 81 |
| 6059652 | **6055109** | 136 |
| 6387731 | **6055141** | 136 |
| 6059713 | **6055206** | 136 |
| 6059775 | **6055303** | 136 |
| 6059836 | **6055400** | 136 |
| 6059898 | **6055508** | 136 |
| 6059959 | **6055524** | 136 |
| 6060016 | **6055532** | 137 |
| 6387915 | **6055559** | 137 |
| 6060078 | **6055575** | 137 |
| 6060139 | **6055613** | 137 |
| 6388035 | **6055664** | 137 |
| 6388097 | **6055699** | 137 |
| 6388219 | **6055710** | 137 |
| 6943876 | **6055810** | 524 |
| 6943937 | **6055812** | 524 |
| 5671282 | **6055817** | 526 |
| 5163329 | **6055820** | 525 |
| 6557790 | **6055821** | 525 |
| 6388691 | **6055893** | 134 |
| 6389292 | **6056016** | 139 |
| 6389353 | **6056024** | 139 |
| 6389414 | **6056040** | 139 |
| 6389476 | **6056059** | 139 |
| 6060191 | **6056105** | 142 |
| 6542659 | **6056148** | 147 |
| 6389711 | **6056156** | 142 |
| 6060252 | **6056202** | 142 |
| 6114672 | **6056229** | 147 |
| 6060313 | **6056296** | 142 |
| 6389834 | **6056326** | 147 |
| 6060375 | **6056407** | 142 |
| 6625215 | **6056423** | 147 |
| 6060436 | **6056504** | 142 |
| 6625277 | **6056520** | 147 |
| 6060498 | **6056601** | 142 |
| 6389896 | **6056628** | 147 |
| 6820740 | **6056634** | 146 |
| | price/m | |
| 6389957 | **6056636** | 143 |
| 6390014 | **6056644** | 143 |
| 6390076 | **6056652** | 143 |
| 6390137 | **6056679** | 143 |
| 6060559 | **6056695** | 143 |
| 6060610 | **6056717** | 143 |
| 6060672 | **6056733** | 143 |
| 6120550 | **6056735** | 145 |
| 6120611 | **6056737** | 145 |
| 6120673 | **6056739** | 145 |
| 6120734 | **6056742** | 145 |
| 6120796 | **6056744** | 145 |
| 6120857 | **6056746** | 145 |
| 6050048 | **6056750** | 144 |
| 6044887 | **6056755** | 144 |
| 6050161 | **6056757** | 144 |
| 6050284 | **6056759** | 144 |
| 6050406 | **6056761** | 144 |
| 6050529 | **6056763** | 144 |
| 6333677 | **6056776** | 148 |
| 6333738 | **6056792** | 148 |
| 6333790 | **6056806** | 148 |
| 6333493 | **6056970** | 148 |
| 6333554 | **6056989** | 148 |
| 6333615 | **6056997** | 148 |
| 6060733 | **6057101** | 184 |
| 6060795 | **6057209** | 184 |
| 6060856 | **6057306** | 184 |
| 6060917 | **6057403** | 184 |
| 6060979 | **6057500** | 184 |
| 6061037 | **6057535** | 184 |
| 6061099 | **6058108** | 185 |
| 6061150 | **6058205** | 185 |
| 6061211 | **6058302** | 185 |
| 6061273 | **6058396** | 185 |
| 6061334 | **6058507** | 185 |
| 6061396 | **6058604** | 185 |
| 6061457 | **6058620** | 186 |
| 6061518 | **6058647** | 186 |
| 6061570 | **6058663** | 186 |
| 6061631 | **6058698** | 186 |
| 6061693 | **6058728** | 186 |
| 6061754 | **6058744** | 186 |
| 5829553 | **6059000** | 98 |
| 5829935 | **6059002** | 98 |
| 5829942 | **6059004** | 98 |
| 5829959 | **6059006** | 98 |
| 5829966 | **6059008** | 98 |
| 5829973 | **6059010** | 98 |
| 5829980 | **6059012** | 98 |
| 5830023 | **6059018** | 99 |
| 5830030 | **6059020** | 99 |
| 5830047 | **6059022** | 99 |
| 5830085 | **6059025** | 99 |
| 5830092 | **6059027** | 99 |
| 5830108 | **6059029** | 99 |
| 5830146 | **6059032** | 99 |
| 5830344 | **6059080** | 170 |
| 5830368 | **6059084** | 170 |
| 5830375 | **6059086** | 170 |
| 5830382 | **6059088** | 170 |
| 5830399 | **6059090** | 170 |
| 5830405 | **6059092** | 170 |
| 5830412 | **6059097** | 171 |
| 5830436 | **6059101** | 171 |
| 5830443 | **6059103** | 171 |
| 5830450 | **6059105** | 171 |
| 5830467 | **6059107** | 171 |
| 5830474 | **6059109** | 171 |
| 5830627 | **6059156** | 200 |
| 5830924 | **6059158** | 200 |
| 5830931 | **6059160** | 200 |
| 5830948 | **6059162** | 200 |
| 5830986 | **6059164** | 200 |
| 5830993 | **6059166** | 200 |
| 5831006 | **6059168** | 200 |
| 5831037 | **6059173** | 201 |
| 5831044 | **6059175** | 201 |
| 5831051 | **6059177** | 201 |
| 5831068 | **6059179** | 201 |
| 5831105 | **6059181** | 201 |
| 5831112 | **6059183** | 201 |
| 5831129 | **6059185** | 201 |
| 5831150 | **6059190** | 202 |
| 5831174 | **6059194** | 202 |
| 5831181 | **6059196** | 202 |
| 5831228 | **6059198** | 202 |
| 5831235 | **6059200** | 202 |
| 5831242 | **6059202** | 202 |
| 5831341 | **6059230** | 104 |
| 5831358 | **6059232** | 104 |
| 5831365 | **6059234** | 104 |
| 5831372 | **6059237** | 104 |
| 5831389 | **6059239** | 104 |
| 5831396 | **6059241** | 104 |
| 5831402 | **6059243** | 104 |
| 5831419 | **6059248** | 105 |
| 5831426 | **6059250** | 105 |
| 5831433 | **6059252** | 105 |
| 5831440 | **6059254** | 105 |
| 5831457 | **6059256** | 105 |
| 5831464 | **6059258** | 105 |
| 5831471 | **6059260** | 105 |
| 5831488 | **6059265** | 135 |
| 5831624 | **6059308** | 172 |
| 5831648 | **6059312** | 172 |
| 5831655 | **6059314** | 172 |
| 5831662 | **6059316** | 172 |
| 5831679 | **6059318** | 172 |
| 5831686 | **6059320** | 172 |
| 5831693 | **6059325** | 173 |
| 5831716 | **6059329** | 173 |
| 5831723 | **6059331** | 173 |
| 5831730 | **6059333** | 173 |
| 5831747 | **6059335** | 173 |
| 5831754 | **6059337** | 173 |
| 5832003 | **6059382** | 205 |
| 5832010 | **6059384** | 205 |
| 5832027 | **6059386** | 205 |
| 5832065 | **6059388** | 205 |
| 5832072 | **6059390** | 205 |
| 5832089 | **6059392** | 205 |
| 5832119 | **6059394** | 205 |
| 5832126 | **6059399** | 207 |
| 5832133 | **6059401** | 207 |
| 5832140 | **6059403** | 207 |
| 5832188 | **6059405** | 207 |
| 5832195 | **6059407** | 207 |
| 5832201 | **6059409** | 207 |
| 5832232 | **6059411** | 207 |
| 5832249 | **6059416** | 206 |
| 5832263 | **6059420** | 206 |
| 5832300 | **6059422** | 206 |
| 5832317 | **6059424** | 206 |
| 5832324 | **6059426** | 206 |
| 5832355 | **6059428** | 206 |
| 5832485 | **6059456** | 100 |
| 5832492 | **6059458** | 100 |
| 5832508 | **6059460** | 100 |
| 5832546 | **6059462** | 100 |
| 5832553 | **6059464** | 100 |
| 5832560 | **6059466** | 100 |
| 5832591 | **6059468** | 100 |
| 5832607 | **6059473** | 101 |
| 5832614 | **6059475** | 101 |
| 5832621 | **6059477** | 101 |
| 5832669 | **6059479** | 101 |
| 5832676 | **6059481** | 101 |
| 5832683 | **6059483** | 101 |
| 5832713 | **6059485** | 101 |
| 5832720 | **6059490** | 102 |
| 5832744 | **6059494** | 102 |
| 5832782 | **6059496** | 102 |
| 5832799 | **6059498** | 102 |
| 5832805 | **6059500** | 102 |
| 5832836 | **6059502** | 102 |
| 5832843 | **6059507** | 103 |
| 5832867 | **6059511** | 103 |
| 5832904 | **6059513** | 103 |
| 5832911 | **6059515** | 103 |
| 5832928 | **6059517** | 103 |
| 5832959 | **6059519** | 103 |
| 5832966 | **6059530** | 174 |
| 5832980 | **6059534** | 174 |
| 5833024 | **6059536** | 174 |
| 5833031 | **6059538** | 174 |
| 5833048 | **6059540** | 174 |
| 5833079 | **6059542** | 174 |
| 5833086 | **6059549** | 175 |
| 5833109 | **6059553** | 175 |
| 5833147 | **6059555** | 175 |
| 5833154 | **6059557** | 175 |
| 5833161 | **6059559** | 175 |
| 5833192 | **6059561** | 175 |

| GTIN | Item no. | Page |
|---|---|---|
| | price/m | |
| 5829560 | **6059614** | 203 |
| 5829577 | **6059616** | 203 |
| 5829584 | **6059618** | 203 |
| 5829591 | **6059620** | 203 |
| 5829607 | **6059622** | 203 |
| 5829614 | **6059624** | 203 |
| 5829621 | **6059626** | 203 |
| 5829638 | **6059631** | 204 |
| 5829645 | **6059633** | 204 |
| 5829652 | **6059635** | 204 |
| 5829669 | **6059637** | 204 |
| 5829676 | **6059639** | 204 |
| 5829683 | **6059641** | 204 |
| 5829690 | **6059643** | 204 |
| 5829843 | **6059688** | 106 |
| 5829850 | **6059690** | 106 |
| 5829867 | **6059692** | 106 |
| 5829874 | **6059694** | 106 |
| 5829881 | **6059696** | 106 |
| 5829898 | **6059698** | 106 |
| 5829904 | **6059700** | 106 |
| 5829911 | **6059705** | 107 |
| 5829928 | **6059707** | 107 |
| 5830634 | **6059709** | 107 |
| 5830641 | **6059711** | 107 |
| 5830658 | **6059713** | 107 |
| 5830665 | **6059715** | 107 |
| 5830672 | **6059717** | 107 |
| 5830689 | **6059722** | 108 |
| 5830702 | **6059726** | 108 |
| 5830740 | **6059728** | 108 |
| 5830757 | **6059730** | 108 |
| 5830764 | **6059732** | 108 |
| 5830795 | **6059734** | 108 |
| 5833444 | **6059762** | 176 |
| 5833468 | **6059766** | 176 |
| 5833505 | **6059768** | 176 |
| 5833512 | **6059770** | 176 |
| 5833529 | **6059772** | 176 |
| 5833550 | **6059774** | 176 |
| 5833567 | **6059779** | 177 |
| 5833581 | **6059783** | 177 |
| 5833628 | **6059785** | 177 |
| 5833635 | **6059787** | 177 |
| 5833642 | **6059789** | 177 |
| 5833673 | **6059791** | 177 |
| 5833925 | **6059836** | 208 |
| 5833932 | **6059838** | 208 |
| 5833949 | **6059840** | 208 |
| 5833987 | **6059842** | 208 |
| 5833994 | **6059844** | 208 |
| 5834007 | **6059846** | 208 |
| 5834038 | **6059848** | 208 |
| 5834045 | **6059853** | 209 |
| 5834052 | **6059855** | 209 |
| 5834069 | **6059857** | 209 |
| 5834106 | **6059859** | 209 |
| 5834113 | **6059861** | 209 |
| 5834120 | **6059863** | 209 |
| 5834151 | **6059865** | 209 |
| 6061815 | **6060102** | 218 |
| 6061877 | **6060196** | 218 |
| 6061938 | **6060307** | 218 |
| 6061990 | **6060404** | 218 |
| 6062058 | **6060412** | 218 |
| 6062119 | **6060528** | 218 |
| 6392292 | **6060609** | 219 |
| 6392353 | **6060625** | 219 |
| 6392414 | **6060641** | 219 |
| 6392476 | **6060676** | 219 |
| 6062171 | **6061109** | 220 |
| 6062232 | **6061206** | 220 |
| 6062294 | **6061303** | 220 |
| 6062355 | **6061400** | 220 |
| 6062416 | **6061508** | 220 |
| 6062478 | **6061559** | 220 |
| 6062539 | **6061605** | 221 |
| 6062591 | **6061621** | 221 |
| 6062652 | **6061656** | 221 |
| 6062713 | **6061672** | 221 |
| 6062775 | **6061702** | 221 |

| GTIN | Item no. | Page |
|---|---|---|
| | price/m | |
| 6062836 | **6061729** | 221 |
| 5778684 | **6061733** | 222 |
| 6147007 | **6061981** | 229 |
| 6147038 | **6061983** | 229 |
| 6147045 | **6061985** | 229 |
| 6147052 | **6061987** | 229 |
| 6147069 | **6061989** | 229 |
| 6147090 | **6061991** | 229 |
| | /pc. | |
| 6341863 | **6062000** | 198 |
| 6341870 | **6062002** | 198 |
| 6341887 | **6062004** | 198 |
| 6341894 | **6062006** | 198 |
| 6341900 | **6062008** | 198 |
| 6341917 | **6062010** | 198 |
| 5694441 | **6062025** | 109 |
| 5694472 | **6062028** | 109 |
| 5694489 | **6062033** | 109 |
| 5694496 | **6062050** | 76 |
| 5694502 | **6062052** | 325 |
| 5694540 | **6062068** | 109 |
| 5694557 | **6062084** | 109 |
| 5694564 | **6062086** | 109 |
| 5694571 | **6062114** | 178 |
| 5694588 | **6062122** | 210 |
| 5694595 | **6062132** | 284 |
| 5694601 | **6062173** | 276 |
| 5778431 | **6062255** | 210 |
| | /100 pc. | |
| 5694618 | **6062280** | 76 |
| 5694625 | **6062282** | 325 |
| 5694656 | **6062284** | 295 |
| 6599950 | **6062296** | 158 |
| 6146352 | **6062300** | 158 |
| | price/m | |
| 5694663 | **6062314** | 76 |
| 5694670 | **6062321** | 109 |
| 5694687 | **6062327** | 109 |
| 5694694 | **6062331** | 178 |
| 5694700 | **6062335** | 210 |
| 5694717 | **6062338** | 284 |
| 6341788 | **6062390** | 199 |
| 6147779 | **6062391** | 230 |
| 6063611 | **6063160** | 140 |
| 6394630 | **6063179** | 140 |
| 6063673 | **6063187** | 140 |
| 6063734 | **6063209** | 140 |
| 6063796 | **6063225** | 140 |
| 5060369 | **6063234** | 150 |
| 5060390 | **6063236** | 150 |
| 5060406 | **6063238** | 150 |
| 6063857 | **6063241** | 150 |
| 6063918 | **6063276** | 150 |
| 5805984 | **6063312** | 189 |
| 5756217 | **6063314** | 187 |
| 5756200 | **6063330** | 187 |
| 5806028 | **6063332** | 189 |
| 5806035 | **6063334** | 189 |
| 6395231 | **6063403** | 224 |
| 6395293 | **6063438** | 224 |
| 6395354 | **6063454** | 224 |
| 6395415 | **6063470** | 224 |
| 6395477 | **6063497** | 224 |
| 5038702 | **6063500** | 224 |
| 5060413 | **6063950** | 150 |
| 6396795 | **6064302** | 141 |
| 5069836 | **6064307** | 151 |
| 6026760 | **6064319** | 141 |
| 6396856 | **6064345** | 141 |
| 6050888 | **6064353** | 151 |
| 6396979 | **6064396** | 141 |
| 5069843 | **6064409** | 151 |
| 6397099 | **6064426** | 141 |
| 5069874 | **6064435** | 151 |
| 6308958 | **6064515** | 151 |
| 6397273 | **6064523** | 151 |
| 5806059 | **6064556** | 188 |
| 5806066 | **6064559** | 188 |
| 5806073 | **6064561** | 188 |
| 5806080 | **6064564** | 188 |
| 5806097 | **6064568** | 188 |

| GTIN | Item no. | Page |
|---|---|---|
| | price/m | |
| 5806103 | **6064571** | 188 |
| 6397754 | **6064795** | 225 |
| 6397877 | **6064833** | 225 |
| 6397990 | **6064884** | 225 |
| 5069690 | **6064922** | 225 |
| 6398232 | **6064965** | 225 |
| 6102433 | **6064973** | 225 |
| | /pc. | |
| 6619047 | **6065012** | 244 |
| 6619054 | **6065016** | 245 |
| 6689675 | **6065018** | 244 |
| | /pc. | |
| 6064397 | **6065104** | 541 |
| 6064458 | **6065112** | 541 |
| 6064632 | **6065309** | 541 |
| 6064694 | **6065317** | 541 |
| 6046195 | **6065475** | 485 |
| 6055913 | **6065477** | 312 |
| | /100 pc. | |
| 6441372 | **6065600** | 243 |
| | /pc. | |
| 6053797 | **6065710** | 113 |
| 6053803 | **6065712** | 113 |
| 6053858 | **6065714** | 113 |
| 6053865 | **6065716** | 113 |
| 6053872 | **6065718** | 113 |
| 6053919 | **6065720** | 113 |
| 6053926 | **6065722** | 113 |
| 6054046 | **6065738** | 113 |
| 6054282 | **6065810** | 179 |
| 6054343 | **6065814** | 179 |
| 6054350 | **6065816** | 179 |
| 6054398 | **6065818** | 179 |
| 6054404 | **6065820** | 179 |
| 6054466 | **6065822** | 179 |
| 6054824 | **6065910** | 213 |
| 6054831 | **6065912** | 213 |
| 6054879 | **6065914** | 213 |
| 6054886 | **6065916** | 213 |
| 6054930 | **6065918** | 213 |
| 6054947 | **6065920** | 213 |
| 6054954 | **6065922** | 213 |
| 6218035 | **6065974** | 161 |
| 6218042 | **6065976** | 161 |
| 6218103 | **6065978** | 161 |
| 6218073 | **6065980** | 161 |
| 6218080 | **6065982** | 161 |
| 6218097 | **6065984** | 161 |
| 6064755 | **6066046** | 543 |
| 6064816 | **6066054** | 543 |
| 6064878 | **6066143** | 66 |
| 6064939 | **6066240** | 66 |
| 5706847 | **6066242** | 65 |
| 6517329 | **6066244** | 65 |
| 6517336 | **6066246** | 65 |
| 6517343 | **6066248** | 66 |
| | /100 pc. | |
| 6935895 | **6066505** | 519 |
| 6257942 | **6066508** | 538 |
| 5834878 | **6066510** | 519 |
| 6257973 | **6066514** | 539 |
| | /pc. | |
| 6064991 | **6066550** | 518 |
| 6065059 | **6066569** | 538 |
| 5866206 | **6066571** | 538 |
| 5049623 | **6066615** | 517 |
| 6046089 | **6066623** | 517 |
| 5863861 | **6066629** | 537 |
| 6424191 | **6066640** | 766 |
| 5811084 | **6066688** | 539 |
| 5811114 | **6066696** | 539 |
| 6065110 | **6066704** | 518 |
| 6065172 | **6066712** | 518 |
| 6065233 | **6066933** | 543 |
| 6084432 | **6066941** | 543 |
| 6065356 | **6067085** | 76 |
| 6065417 | **6067093** | 110 |
| 6456154 | **6067101** | 158 |
| 6065479 | **6067107** | 77 |
| 6065530 | **6067115** | 111 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 6065592 | **6067123** | 178 |
| 6065653 | **6067131** | 211 |
| 6065714 | **6067301** | 76 |
| 6065776 | **6067328** | 77 |
| 6065899 | **6067603** | 110 |
| 6065950 | **6067611** | 111 |
| 6066018 | **6067654** | 110 |
| 6066070 | **6067662** | 111 |
| 6343157 | **6067664** | 111 |
| 6955459 | **6067675** | 110 |
| 6066131 | **6067816** | 178 |
| 6446292 | **6067870** | 198 |
| 6066193 | **6067913** | 211 |
| 6400690 | **6067948** | 211 |
| 6066254 | **6067956** | 77 |
| 5694724 | **6067970** | 76 |
| 6066315 | **6067972** | 112 |
| 6066377 | **6067980** | 179 |
| 6066438 | **6067999** | 212 |
| 6066490 | **6068022** | 112 |
| 6400812 | **6068049** | 212 |
| 5021483 | **6068054** | 112 |
| 6049325 | **6068146** | 159 |
| 6897070 | **6068150** | 159 |
| 5671312 | **6068152** | 537 |
| 6066797 | **6068154** | 159 |
| 6066858 | **6068162** | 159 |
| 6066919 | **6068170** | 159 |
| 6066971 | **6068189** | 159 |
| 6067039 | **6068197** | 159 |
| 6067091 | **6068200** | 159 |
| 6067152 | **6068219** | 159 |
| | /100 pc. | |
| 5391326 | **6068859** | 158 |
| | /pc. | |
| 5889441 | **6068900** | 76 |
| 5889489 | **6068902** | 76 |
| 5889496 | **6068904** | 76 |
| 5889502 | **6068914** | 110 |
| 5889519 | **6068916** | 110 |
| 5889526 | **6068918** | 110 |
| 5889533 | **6068920** | 110 |
| 5889540 | **6068922** | 110 |
| 5889557 | **6068924** | 110 |
| 5889564 | **6068926** | 110 |
| 5890492 | **6068936** | 110 |
| 5890508 | **6068938** | 110 |
| 5890515 | **6068940** | 110 |
| 5890522 | **6068942** | 110 |
| 5890560 | **6068944** | 110 |
| 5890577 | **6068946** | 110 |
| 5890584 | **6068948** | 110 |
| 5889571 | **6068958** | 110 |
| 5889595 | **6068962** | 110 |
| 5889601 | **6068964** | 110 |
| 5889618 | **6068966** | 110 |
| 5889625 | **6068968** | 110 |
| 5889632 | **6068970** | 110 |
| 5889649 | **6068980** | 110 |
| 5889663 | **6068984** | 110 |
| 5889670 | **6068986** | 110 |
| 5889687 | **6068988** | 110 |
| 5889717 | **6068990** | 110 |
| 5889724 | **6068992** | 110 |
| 5889731 | **6069002** | 178 |
| 5889793 | **6069006** | 178 |
| 5889809 | **6069008** | 178 |
| 5889816 | **6069010** | 178 |
| 5889823 | **6069012** | 178 |
| 5889830 | **6069014** | 178 |
| 5889847 | **6069024** | 178 |
| 5889861 | **6069028** | 178 |
| 5889908 | **6069030** | 178 |
| 5889915 | **6069032** | 178 |
| 5889922 | **6069034** | 178 |
| 5889960 | **6069036** | 178 |
| 5890157 | **6069090** | 210 |
| 5890164 | **6069092** | 211 |
| 5890195 | **6069094** | 210 |
| 5890201 | **6069096** | 210 |
| 5890218 | **6069098** | 210 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 5890225 | **6069100** | 210 |
| 5890232 | **6069102** | 210 |
| 5890249 | **6069112** | 210 |
| 5890256 | **6069114** | 211 |
| 5890263 | **6069116** | 210 |
| 5890270 | **6069118** | 210 |
| 5890287 | **6069120** | 210 |
| 5890294 | **6069122** | 210 |
| 5890300 | **6069124** | 210 |
| 5890317 | **6069134** | 211 |
| 5890331 | **6069138** | 211 |
| 5890348 | **6069140** | 211 |
| 5890355 | **6069142** | 211 |
| 5890362 | **6069144** | 211 |
| 5890379 | **6069146** | 211 |
| 6067633 | **6069304** | 77 |
| 6067756 | **6069320** | 179 |
| 6067817 | **6069339** | 212 |
| 6337033 | **6069410** | 112 |
| | price/m | |
| 6068234 | **6070248** | 541 |
| 6068296 | **6070345** | 542 |
| 6068357 | **6070442** | 542 |
| 6068418 | **6070779** | 542 |
| 6068531 | **6070795** | 542 |
| | price/100 | |
| 6295579 | **6072895** | 259 |
| 6295395 | **6072909** | 259 |
| | /pc. | |
| 5453451 | **6074901** | 520 |
| 5453468 | **6074912** | 520 |
| 5453475 | **6074921** | 520 |
| 5453482 | **6074952** | 768 |
| | price/m | |
| 6935956 | **6075000** | 515 |
| 6936014 | **6075005** | 516 |
| 5247135 | **6075024** | 517 |
| 6068951 | **6075096** | 532 |
| 6069019 | **6075142** | 532 |
| 6069071 | **6075150** | 532 |
| 5866213 | **6075152** | 532 |
| 6069132 | **6075231** | 533 |
| 6069194 | **6075258** | 533 |
| 6069255 | **6075304** | 534 |
| 5811121 | **6075320** | 535 |
| 5811138 | **6075325** | 535 |
| 5811145 | **6075330** | 536 |
| 5811183 | **6075345** | 535 |
| 5811190 | **6075350** | 535 |
| 5811206 | **6075355** | 537 |
| 5811244 | **6075370** | 536 |
| 5811251 | **6075375** | 536 |
| 6069316 | **6076149** | 533 |
| 6069378 | **6076246** | 534 |
| 6424207 | **6076924** | 764 |
| 6424245 | **6076926** | 765 |
| 6069439 | **6080138** | 518 |
| 6405916 | **6080154** | 518 |
| 6084135 | **6080158** | 540 |
| 6069491 | **6080197** | 540 |
| 6069552 | **6080227** | 518 |
| 6406098 | **6080235** | 518 |
| 6084197 | **6080239** | 540 |
| 6069613 | **6080294** | 540 |
| 5811305 | **6080860** | 540 |
| 5811312 | **6080865** | 540 |
| 5811329 | **6080870** | 540 |
| 5811350 | **6080885** | 540 |
| 5811367 | **6080890** | 540 |
| 5811374 | **6080895** | 540 |
| 5811381 | **6080910** | 540 |
| 5811428 | **6080915** | 540 |
| 6407354 | **6080960** | 540 |
| 6407415 | **6080979** | 540 |
| 6947652 | **6083056** | 238 |
| 6947713 | **6083060** | 238 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Numeric directory

| GTIN | Item no. | Page |
|---|---|---|
| | price/m | |
| 6947775 | **6083064** | 238 |
| 6952397 | **6083150** | 244 |
| 6952458 | **6083152** | 244 |
| 6952519 | **6083154** | 244 |
| | /pc. | |
| 6947836 | **6083200** | 238 |
| 6947898 | **6083210** | 238 |
| | price/m | |
| 6069736 | **6085016** | 154 |
| 6069798 | **6085032** | 154 |
| 6069859 | **6085059** | 154 |
| 6069910 | **6085202** | 156 |
| 6069972 | **6085229** | 156 |
| 6070039 | **6085245** | 154 |
| 6070091 | **6085326** | 153 |
| 6070152 | **6085342** | 153 |
| 6070213 | **6085369** | 153 |
| 6070275 | **6085512** | 153 |
| 6070336 | **6085539** | 153 |
| 6070398 | **6085555** | 153 |
| 5020998 | **6085675** | 155 |
| 6071173 | **6086470** | 191 |
| 6071234 | **6086497** | 190 |
| 6071296 | **6086519** | 191 |
| 6071357 | **6086659** | 191 |
| 6071418 | **6086675** | 191 |
| 6071470 | **6086691** | 191 |
| 6168439 | **6087116** | 152 |
| 6335053 | **6087132** | 152 |
| 6335114 | **6087140** | 152 |
| 6335176 | **6087159** | 152 |
| | /pc. | |
| 6346639 | **6087965** | 519 |
| 6299171 | **6091164** | 274 |
| 6299232 | **6091180** | 274 |
| 6901814 | **6091229** | 274 |
| 5403074 | **6091234** | 274 |
| 6299294 | **6091318** | 275 |
| 6299355 | **6091334** | 275 |
| 6897018 | **6091338** | 275 |
| 5403081 | **6091343** | 275 |
| 6309610 | **6091377** | 274 |
| 5437918 | **6091379** | 294 |
| 6309672 | **6091393** | 274 |
| 5403111 | **6091397** | 274 |
| | price/m | |
| 6351435 | **6098111** | 271 |
| 6351497 | **6098115** | 271 |
| 6351558 | **6098119** | 271 |
| 6351619 | **6098123** | 271 |
| 6351671 | **6098127** | 271 |
| 6351732 | **6098141** | 272 |
| 6370030 | **6098145** | 272 |
| 6034277 | **6098149** | 272 |
| 6034031 | **6098153** | 272 |
| 6033973 | **6098157** | 272 |
| 5683506 | **6098161** | 273 |
| 5683513 | **6098165** | 273 |
| 5683520 | **6098169** | 273 |
| 5683568 | **6098173** | 273 |
| 5683575 | **6098177** | 273 |
| | /pc. | |
| 6033676 | **6098304** | 276 |
| 6351916 | **6098308** | 276 |
| 6351978 | **6098312** | 276 |
| 6352036 | **6098316** | 276 |
| 6352098 | **6098320** | 276 |
| 6352159 | **6098344** | 276 |
| 6352210 | **6098348** | 276 |
| 6624737 | **6098352** | 276 |
| 6352272 | **6098356** | 276 |
| 6352333 | **6098360** | 276 |
| 6352395 | **6098405** | 277 |
| 6352456 | **6098409** | 277 |
| 6352517 | **6098413** | 277 |
| 6352579 | **6098417** | 277 |
| 6000975 | **6098421** | 277 |
| 6001033 | **6098445** | 277 |
| 6001095 | **6098449** | 277 |
| 6001156 | **6098453** | 277 |
| 6001217 | **6098457** | 277 |
| 6001279 | **6098461** | 277 |
| 5242512 | **6098475** | 277 |
| 5242529 | **6098479** | 277 |
| 5242536 | **6098483** | 277 |
| | price/m | |
| 6334810 | **6098501** | 278 |
| 6812059 | **6098505** | 278 |
| 6808939 | **6098509** | 278 |
| 6808397 | **6098513** | 278 |
| 6808335 | **6098517** | 278 |
| 6810734 | **6098550** | 279 |
| 6766390 | **6098554** | 279 |
| 6766451 | **6098558** | 279 |
| 6656059 | **6098562** | 279 |
| 6656295 | **6098566** | 279 |
| 5683582 | **6098571** | 280 |
| 5683599 | **6098573** | 280 |
| 5683605 | **6098575** | 280 |
| 5683612 | **6098577** | 280 |
| 5683629 | **6098579** | 280 |
| | /pc. | |
| 6335237 | **6098703** | 284 |
| 6335299 | **6098707** | 284 |
| 6335350 | **6098711** | 284 |
| 6335411 | **6098715** | 284 |
| 6335473 | **6098719** | 284 |
| 6335534 | **6098730** | 284 |
| 6656417 | **6098734** | 284 |
| 6656479 | **6098738** | 284 |
| 6656530 | **6098742** | 284 |
| 6656592 | **6098746** | 284 |
| 6656653 | **6098800** | 284 |
| 6656714 | **6098804** | 284 |
| 6335596 | **6098808** | 284 |
| 6335657 | **6098812** | 284 |
| 6335718 | **6098816** | 284 |
| 6335770 | **6098827** | 284 |
| 6335831 | **6098831** | 284 |
| 6335893 | **6098835** | 284 |
| 6656776 | **6098839** | 284 |
| 6657018 | **6098843** | 284 |
| 5242543 | **6098860** | 285 |
| 5242550 | **6098864** | 285 |
| 5696346 | **6098868** | 285 |
| | price/m | |
| 6159314 | **6101200** | 413 |
| 6514038 | **6101208** | 413 |
| 5022114 | **6101216** | 413 |
| 5022121 | **6101223** | 413 |
| 6524952 | **6101232** | 413 |
| 6420735 | **6103235** | 311 |
| 6420858 | **6103251** | 311 |
| 6420971 | **6103286** | 311 |
| 6421091 | **6103316** | 311 |
| 6421213 | **6103332** | 311 |
| 6029150 | **6103352** | 311 |
| 6029198 | **6103356** | 311 |
| 6029204 | **6103360** | 311 |
| 6029211 | **6103364** | 311 |
| 6029228 | **6103368** | 311 |
| 6289455 | **6103421** | 311 |
| 6308651 | **6103448** | 311 |
| 6308590 | **6103456** | 311 |
| 6308538 | **6103464** | 311 |
| 6308477 | **6103480** | 311 |
| | price/m | |
| 5037354 | **6103614** | 311 |
| 5037361 | **6103618** | 311 |
| 5037378 | **6103622** | 311 |
| 5037385 | **6103626** | 311 |
| 5037415 | **6103630** | 311 |
| | /pc. | |
| 5123118 | **6108152** | 520 |
| 5123163 | **6108154** | 520 |
| 5123248 | **6108159** | 520 |
| 6431960 | **6207202** | 407 |
| 6431977 | **6207204** | 407 |
| 6431984 | **6207206** | 407 |
| 6431991 | **6207208** | 407 |
| 6432004 | **6207210** | 407 |
| 6431687 | **6207252** | 406 |
| 6431694 | **6207254** | 406 |
| 6431700 | **6207256** | 406 |
| 6431717 | **6207258** | 406 |
| 6431724 | **6207260** | 406 |
| 6431854 | **6207302** | 426 |
| 6431861 | **6207304** | 426 |
| 6431878 | **6207306** | 426 |
| 6431885 | **6207308** | 426 |
| 6431892 | **6207310** | 426 |
| 6431908 | **6207312** | 426 |
| 6431915 | **6207314** | 426 |
| 6431922 | **6207316** | 426 |
| 6431939 | **6207318** | 426 |
| 6431946 | **6207320** | 426 |
| 6431953 | **6207322** | 426 |
| 5063957 | **6208506** | 414 |
| 5063964 | **6208509** | 414 |
| 5063995 | **6208512** | 414 |
| 5064008 | **6208515** | 414 |
| 5064015 | **6208518** | 414 |
| 5064022 | **6208538** | 408 |
| 5064053 | **6208541** | 408 |
| 5064060 | **6208544** | 408 |
| 5064077 | **6208547** | 408 |
| 5064084 | **6208550** | 408 |
| 5434153 | **6208562** | 410 |
| 5434160 | **6208566** | 410 |
| 5434207 | **6208570** | 410 |
| 5434214 | **6208574** | 410 |
| 5434221 | **6208578** | 410 |
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| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
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| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
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| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
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| GTIN | Item no. | Page |
|---|---|---|
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| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 6174010 | **6230458** | 304 |
| 6174072 | **6230466** | 304 |
| 6174133 | **6230474** | 304 |
| 6174492 | **6230725** | 304 |
| 6174553 | **6230733** | 304 |
| 6174614 | **6230741** | 304 |
| 6174676 | **6230768** | 304 |
| 6174737 | **6230776** | 304 |
| | | |
| 6503711 | **6231462** | 309 |
| 6503773 | **6231470** | 309 |
| 6503834 | **6231489** | 309 |
| 6503896 | **6231497** | 309 |
| 6503957 | **6231500** | 309 |
| 6504015 | **6231527** | 309 |
| 6504077 | **6231535** | 309 |
| 6504138 | **6231543** | 309 |
| 6504190 | **6231551** | 309 |
| 6504251 | **6231578** | 309 |
| 6504619 | **6231667** | 310 |
| 6504671 | **6231675** | 310 |
| 6504732 | **6231683** | 310 |
| 6977420 | **6231691** | 310 |
| 6977482 | **6231705** | 310 |
| 6080410 | **6231900** | 310 |
| 6080472 | **6231904** | 310 |
| 6080533 | **6231908** | 310 |
| 6080595 | **6231912** | 310 |
| 6080656 | **6231916** | 310 |
| 6080717 | **6231922** | 310 |
| 6080779 | **6231926** | 310 |
| 6080830 | **6231930** | 310 |
| 6080892 | **6231934** | 310 |
| 6080953 | **6231938** | 310 |
| | | |
| | price/m | |
| 6614844 | **6232102** | 305 |
| 6614851 | **6232104** | 305 |
| 6614868 | **6232106** | 305 |
| 6614875 | **6232108** | 305 |
| 6614882 | **6232110** | 305 |
| 6614790 | **6232402** | 309 |
| 6614806 | **6232404** | 309 |
| 6614813 | **6232406** | 309 |
| 6614820 | **6232408** | 309 |
| 6614837 | **6232410** | 309 |
| | /pc. | |
| 6175512 | **6232485** | 474 |
| 6423583 | **6232500** | 294 |
| 6175574 | **6232507** | 306 |
| 6175758 | **6232604** | 306 |
| 6175819 | **6232612** | 306 |
| 6175932 | **6232663** | 306 |
| | | |
| 6176298 | **6233422** | 307 |
| 6176359 | **6233430** | 307 |
| 6176410 | **6233449** | 307 |
| 6176472 | **6233457** | 307 |
| 6176533 | **6233465** | 307 |
| 6176595 | **6233627** | 307 |
| 6176656 | **6233635** | 307 |
| 6176717 | **6233643** | 307 |
| 6176779 | **6233651** | 307 |
| 6176830 | **6233678** | 307 |
| | | |
| | price/pair | |
| 5668022 | **6310398** | 293 |
| | | |
| | price/m | |
| 6883035 | **6311008** | 289 |
| 6883097 | **6311012** | 289 |
| 6883158 | **6311016** | 289 |
| 6883219 | **6311020** | 289 |
| 6883271 | **6311024** | 289 |
| 6883332 | **6311059** | 290 |
| 6883394 | **6311063** | 290 |
| 6883455 | **6311067** | 290 |
| 6883516 | **6311071** | 290 |
| 6883578 | **6311075** | 290 |
| 5037262 | **6311202** | 291 |
| 5037293 | **6311206** | 291 |
| 5037309 | **6311210** | 291 |
| 5037316 | **6311214** | 291 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Numeric directory

| GTIN | Item no. | Page |
|---|---|---|
| | price/m | |
| 5037323 | **6311218** | 291 |
| 5403128 | **6311225** | 292 |
| 5866282 | **6311227** | 292 |
| 5403135 | **6311229** | 292 |
| 5866329 | **6311231** | 292 |
| 5403142 | **6311233** | 292 |
| | | |
| | /pc. | |
| 6301874 | **6312330** | 295 |
| 6301935 | **6312349** | 295 |
| 6301997 | **6312357** | 295 |
| 6302055 | **6312365** | 295 |
| 6302116 | **6312373** | 295 |
| 6302178 | **6312438** | 295 |
| 6302239 | **6312446** | 295 |
| 6302291 | **6312454** | 295 |
| 6302352 | **6312462** | 295 |
| 6302413 | **6312470** | 295 |
| 6121151 | **6312539** | 296 |
| 6121212 | **6312541** | 296 |
| 6901999 | **6312543** | 296 |
| 6121274 | **6312545** | 296 |
| 6121335 | **6312547** | 296 |
| 5910251 | **6312550** | 296 |
| 5910268 | **6312552** | 296 |
| 5910312 | **6312554** | 296 |
| 5910329 | **6312556** | 296 |
| 5910350 | **6312558** | 296 |
| 6302475 | **6312632** | 296 |
| 6302536 | **6312640** | 296 |
| 6302598 | **6312659** | 296 |
| 6304271 | **6312667** | 296 |
| 6302659 | **6312675** | 296 |
| 6302710 | **6312713** | 296 |
| 6302772 | **6312721** | 296 |
| 6302833 | **6312748** | 296 |
| 6302895 | **6312756** | 296 |
| 6302956 | **6312764** | 296 |
| 5910367 | **6312815** | 297 |
| 5910374 | **6312817** | 297 |
| 5910381 | **6312819** | 297 |
| 5910435 | **6312821** | 297 |
| 5910442 | **6312823** | 297 |
| 6303311 | **6312934** | 297 |
| 6303373 | **6312942** | 297 |
| 6303434 | **6312950** | 297 |
| 6303496 | **6312969** | 297 |
| 6303557 | **6312977** | 297 |
| | | |
| 6182770 | **6337031** | 618 |
| 6182831 | **6337058** | 618 |
| 6182893 | **6337066** | 618 |
| 6182954 | **6337074** | 618 |
| 6183012 | **6337082** | 618 |
| 6183074 | **6337090** | 618 |
| 6183135 | **6337104** | 618 |
| 6183197 | **6337112** | 618 |
| 6183258 | **6337120** | 618 |
| 5804550 | **6337139** | 618 |
| 5805038 | **6337147** | 618 |
| 5934936 | **6337155** | 618 |
| 6183494 | **6337163** | 618 |
| 5934752 | **6337171** | 618 |
| 6183616 | **6337198** | 618 |
| 5934875 | **6337201** | 618 |
| 5934219 | **6337228** | 618 |
| 6183791 | **6337236** | 618 |
| 5042761 | **6337240** | 618 |
| 6183852 | **6337244** | 618 |
| 6183913 | **6337252** | 618 |
| | | |
| 5668039 | **6338458** | 502 |
| 5668046 | **6338462** | 501 |
| 5668060 | **6338497** | 503 |
| 5668077 | **6338519** | 506 |
| 6185412 | **6338607** | 599 |
| 6185474 | **6338615** | 599 |
| 6185535 | **6338623** | 599 |
| 6185597 | **6338631** | 599 |
| 6185658 | **6338658** | 599 |
| 6185719 | **6338666** | 599 |
| 6185771 | **6338674** | 599 |
| 6185832 | **6338682** | 599 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 6185894 | **6338690** | 599 |
| 6185955 | **6338704** | 599 |
| 6186013 | **6338712** | 599 |
| 6186136 | **6338739** | 599 |
| 6186198 | **6338747** | 599 |
| 6186495 | **6338801** | 599 |
| 6803637 | **6338858** | 601 |
| 6803644 | **6338860** | 601 |
| 6803675 | **6338864** | 601 |
| 6803682 | **6338868** | 601 |
| | /pc. | |
| 5913238 | **6338872** | 600 |
| 6803699 | **6338876** | 601 |
| | /pc. | |
| 5913245 | **6338881** | 600 |
| | | |
| 6187690 | **6340016** | 503 |
| 6187751 | **6340032** | 503 |
| 6187812 | **6340059** | 503 |
| 6187874 | **6340075** | 503 |
| 6187935 | **6340091** | 503 |
| 6187997 | **6340113** | 503 |
| 6188055 | **6340148** | 503 |
| 6188116 | **6340164** | 610 |
| 6188178 | **6340180** | 503 |
| 6188239 | **6340199** | 610 |
| 6188291 | **6340202** | 503 |
| 6188352 | **6340210** | 503 |
| 6188413 | **6340229** | 503 |
| 6188475 | **6340237** | 503 |
| 6188536 | **6340245** | 503 |
| 6188598 | **6340253** | 503 |
| 6188659 | **6340261** | 503 |
| 6188710 | **6340288** | 503 |
| 6188772 | **6340296** | 503 |
| 6188833 | **6340318** | 503 |
| 6188895 | **6340377** | 503 |
| 6458172 | **6340385** | 503 |
| 6458233 | **6340393** | 503 |
| 6959006 | **6340881** | 501 |
| 6959068 | **6340903** | 501 |
| 6959129 | **6340911** | 501 |
| 6959181 | **6340938** | 501 |
| 6601752 | **6340946** | 501 |
| 6043927 | **6340950** | 501 |
| 6044047 | **6340954** | 501 |
| 6044160 | **6340958** | 501 |
| 6284177 | **6340962** | 501 |
| 5776277 | **6340964** | 501 |
| 6437597 | **6340966** | 501 |
| 6437658 | **6340970** | 501 |
| 6446957 | **6340989** | 501 |
| 6437719 | **6340997** | 501 |
| | | |
| 5020981 | **6341053** | 608 |
| 6181995 | **6341055** | 608 |
| 6182053 | **6341057** | 608 |
| 6183319 | **6341059** | 608 |
| 6237135 | **6341063** | 608 |
| 6183371 | **6341065** | 608 |
| 5022305 | **6341073** | 608 |
| 6081554 | **6341101** | 608 |
| 6081615 | **6341105** | 608 |
| 6081677 | **6341109** | 608 |
| 6081738 | **6341113** | 608 |
| 6081790 | **6341117** | 608 |
| 6081851 | **6341121** | 608 |
| 6081912 | **6341125** | 608 |
| 6081974 | **6341129** | 608 |
| 6082094 | **6341133** | 608 |
| 6082155 | **6341137** | 608 |
| 6082216 | **6341141** | 608 |
| 6082278 | **6341152** | 608 |
| 6815531 | **6341209** | 592 |
| 6815593 | **6341213** | 592 |
| 6815654 | **6341217** | 592 |
| 6815715 | **6341221** | 592 |
| 6815890 | **6341225** | 592 |
| 6816194 | **6341228** | 592 |
| 6816316 | **6341233** | 592 |
| 6816439 | **6341237** | 592 |
| 6459919 | **6341241** | 592 |
| 6816552 | **6341245** | 592 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 6816613 | **6341249** | 592 |
| 6477135 | **6341358** | 591 |
| 6644230 | **6341362** | 591 |
| 6350292 | **6341366** | 591 |
| 6350414 | **6341370** | 591 |
| 6350476 | **6341374** | 591 |
| 6350537 | **6341378** | 591 |
| 6350599 | **6341382** | 591 |
| 6624492 | **6341386** | 591 |
| 6350711 | **6341390** | 591 |
| 6350773 | **6341394** | 591 |
| 6350834 | **6341398** | 591 |
| 6536771 | **6341527** | 590 |
| 6536719 | **6341535** | 590 |
| 6536658 | **6341543** | 590 |
| 6536597 | **6341551** | 590 |
| 6536535 | **6341578** | 590 |
| 6536474 | **6341586** | 590 |
| 6536412 | **6341594** | 590 |
| 6536351 | **6341608** | 590 |
| 6536290 | **6341616** | 590 |
| 6536238 | **6341624** | 590 |
| 6536177 | **6341632** | 590 |
| 6561056 | **6341640** | 590 |
| 6803705 | **6341750** | 610 |
| 6803736 | **6341758** | 610 |
| | /pc. | |
| 6189137 | **6341764** | 610 |
| 6803743 | **6341766** | 610 |
| 6803750 | **6341774** | 610 |
| 6803859 | **6341800** | 610 |
| 6803866 | **6341804** | 610 |
| | /pc. | |
| 6189434 | **6341810** | 610 |
| 6189731 | **6341861** | 611 |
| 6190034 | **6341950** | 610 |
| 6190096 | **6341969** | 610 |
| 6802418 | **6341970** | 610 |
| | /pc. | |
| 6190157 | **6341993** | 610 |
| 6411634 | **6341995** | 610 |
| | | |
| 6221776 | **6342302** | 606 |
| 6222018 | **6342304** | 606 |
| 6222070 | **6342306** | 606 |
| 6222315 | **6342308** | 606 |
| 6222377 | **6342310** | 606 |
| 6222438 | **6342312** | 606 |
| 6222490 | **6342314** | 606 |
| 6223510 | **6342316** | 606 |
| 6223572 | **6342318** | 606 |
| 6223633 | **6342328** | 606 |
| 6224296 | **6342338** | 606 |
| 5710905 | **6342340** | 606 |
| 6224418 | **6342345** | 606 |
| 6224470 | **6342351** | 584 |
| 6224531 | **6342353** | 584 |
| 6224593 | **6342355** | 584 |
| 6224654 | **6342357** | 584 |
| 6224715 | **6342359** | 584 |
| 6224777 | **6342362** | 584 |
| 6225019 | **6342364** | 584 |
| 6225071 | **6342366** | 584 |
| 6225132 | **6342368** | 584 |
| 6225378 | **6342370** | 584 |
| 6225439 | **6342372** | 584 |
| 5705635 | **6342375** | 586 |
| 5705642 | **6342379** | 586 |
| 5705659 | **6342381** | 586 |
| 5618461 | **6342389** | 586 |
| 5705666 | **6342391** | 586 |
| 5705673 | **6342393** | 586 |
| 5705680 | **6342395** | 586 |
| 5912873 | **6342396** | 586 |
| 5705697 | **6342397** | 586 |
| 5912880 | **6342398** | 586 |
| 5705352 | **6342401** | 585 |
| 5705369 | **6342403** | 585 |
| 5705376 | **6342405** | 585 |
| 5705383 | **6342407** | 585 |
| 5705390 | **6342409** | 585 |
| 5705406 | **6342411** | 585 |
| 5705413 | **6342413** | 585 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 5705420 | **6342415** | 585 |
| 5705437 | **6342417** | 585 |
| 6225491 | **6342450** | 502 |
| 5705703 | **6342455** | 607 |
| 5705710 | **6342457** | 607 |
| 5705727 | **6342460** | 607 |
| 5705765 | **6342463** | 607 |
| 5705772 | **6342466** | 607 |
| 5706373 | **6342468** | 607 |
| 5705789 | **6342485** | 607 |
| 5705826 | **6342488** | 607 |
| 5705833 | **6342491** | 607 |
| 5705840 | **6342494** | 607 |
| 5705871 | **6342497** | 607 |
| 5618478 | **6342505** | 607 |
| 5395355 | **6342530** | 586 |
| | | |
| 6190393 | **6343090** | 379 |
| 6190454 | **6343104** | 379 |
| | | |
| 6640270 | **6344305** | 609 |
| 6640331 | **6344380** | 596 |
| 6290598 | **6344569** | 597 |
| | | |
| 6536832 | **6346715** | 574 |
| 6536894 | **6346731** | 574 |
| 6340156 | **6346758** | 574 |
| 5703938 | **6346763** | 575 |
| 6346813 | **6346804** | 605 |
| 6346875 | **6346820** | 605 |
| | | |
| 5849766 | **6347026** | 620 |
| 5849773 | **6347028** | 620 |
| 5808541 | **6347030** | 620 |
| 5808558 | **6347032** | 620 |
| 5849780 | **6347036** | 620 |
| 5849810 | **6347038** | 620 |
| 6190515 | **6347053** | 619 |
| 6190577 | **6347061** | 619 |
| 6190638 | **6347088** | 620 |
| 6190874 | **6347843** | 619 |
| | | |
| 6190935 | **6348106** | 619 |
| 6190997 | **6348157** | 619 |
| 6340217 | **6348874** | 587 |
| 5706014 | **6348876** | 588 |
| 5706021 | **6348877** | 588 |
| 5354826 | **6348881** | 588 |
| 5354833 | **6348883** | 588 |
| 5706038 | **6348884** | 588 |
| 6168910 | **6348904** | 595 |
| 6901456 | **6348920** | 596 |
| 5018360 | **6348925** | 596 |
| 5018452 | **6348927** | 596 |
| 6437771 | **6348939** | 595 |
| 6437832 | **6348947** | 596 |
| | | |
| 6191352 | **6349056** | 604 |
| 6191413 | **6349102** | 604 |
| 6191475 | **6349153** | 604 |
| 6191536 | **6349196** | 604 |
| 6191598 | **6349218** | 605 |
| 6191659 | **6349277** | 604 |
| 6403189 | **6349279** | 604 |
| 6191710 | **6349404** | 706 |
| 6191772 | **6349412** | 706 |
| 6191833 | **6349439** | 706 |
| 6191895 | **6349447** | 706 |
| 6191956 | **6349463** | 706 |
| | | |
| 6192311 | **6350054** | 741 |
| 6192373 | **6350100** | 741 |
| 6192496 | **6350151** | 740 |
| | price/m | |
| 6192557 | **6350208** | 740 |
| | | |
| | /pc. | |
| 6194292 | **6354106** | 676 |
| 6194353 | **6354114** | 676 |
| 6194414 | **6354122** | 676 |
| | | |
| | price/pair | |
| 6194476 | **6355021** | 676 |

| GTIN | Item no. | Page |
|---|---|---|
| | price/pair | |
| 6194537 | **6355048** | 676 |
| 6194599 | **6355056** | 676 |
| 6194650 | **6355064** | 676 |
| 6194711 | **6355072** | 676 |
| 6194773 | **6355218** | 676 |
| 6194834 | **6355226** | 676 |
| 6194896 | **6355234** | 676 |
| 6194957 | **6355242** | 676 |
| 6195015 | **6355250** | 676 |
| 6677696 | **6355798** | 679 |
| 6677702 | **6355805** | 679 |
| | price/pair | |
| 6579075 | **6355808** | 678 |
| 6579259 | **6355812** | 679 |
| | /pc. | |
| 5966012 | **6355828** | 678 |
| 5966029 | **6355829** | 678 |
| 6039593 | **6355834** | 677 |
| 6045181 | **6355835** | 677 |
| 6039548 | **6355836** | 677 |
| 6045211 | **6355837** | 678 |
| | | |
| 5373070 | **6356055** | 521 |
| 6195671 | **6356109** | 521 |
| 5991830 | **6356113** | 657 |
| 6295753 | **6356311** | 760 |
| 6295876 | **6356362** | 760 |
| 6295814 | **6356397** | 760 |
| 6471195 | **6356915** | 760 |
| | | |
| 6296354 | **6357008** | 760 |
| 6296415 | **6357016** | 761 |
| 5523666 | **6357506** | 521 |
| 5523673 | **6357516** | 656 |
| 6859085 | **6357522** | 656 |
| 6859078 | **6357524** | 657 |
| | /pc. | |
| 5523680 | **6357536** | 522 |
| 5523727 | **6357538** | 657 |
| | | |
| 6765553 | **6358500** | 654 |
| 6874699 | **6358510** | 654 |
| 6765676 | **6358527** | 654 |
| 6765737 | **6358535** | 654 |
| 6765799 | **6358543** | 654 |
| 6881239 | **6358659** | 527 |
| 6881291 | **6358667** | 527 |
| 6884292 | **6358675** | 527 |
| 6881352 | **6358683** | 527 |
| 5009702 | **6358687** | 527 |
| 5364061 | **6358690** | 653 |
| 5364078 | **6358692** | 653 |
| 5364085 | **6358694** | 653 |
| 6939374 | **6358705** | 654 |
| 6939435 | **6358709** | 654 |
| 6939497 | **6358713** | 654 |
| 6939558 | **6358717** | 654 |
| 6134823 | **6358720** | 654 |
| 6947171 | **6358752** | 654 |
| 6947232 | **6358756** | 654 |
| 6947294 | **6358760** | 654 |
| 6947355 | **6358764** | 654 |
| 5268611 | **6358810** | 526 |
| 5671299 | **6358812** | 526 |
| 5435761 | **6358853** | 655 |
| 5435778 | **6358856** | 655 |
| 5435785 | **6358860** | 655 |
| 5435815 | **6358864** | 655 |
| 5435822 | **6358868** | 655 |
| 5435839 | **6358884** | 655 |
| 5435846 | **6358888** | 655 |
| 5435877 | **6358892** | 655 |
| 5435884 | **6358896** | 655 |
| 5435891 | **6358900** | 655 |
| | | |
| 6196333 | **6361021** | 616 |
| 6196395 | **6361056** | 616 |
| 6196456 | **6361072** | 616 |
| 6196517 | **6361099** | 616 |
| 6196579 | **6361110** | 616 |
| 6196630 | **6361137** | 616 |
| 6196692 | **6361153** | 616 |
| 6196753 | **6361188** | 616 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 6196814 | **6361218** | 616 |
| 6196876 | **6361234** | 616 |
| 6196937 | **6361250** | 616 |
| 6196999 | **6361277** | 616 |
| 6197057 | **6361293** | 616 |
| 6197118 | **6361315** | 616 |
| 6197170 | **6361331** | 616 |
| 6197231 | **6361366** | 616 |
| 6197293 | **6361382** | 616 |
| 6197415 | **6361420** | 616 |
| 6472031 | **6361692** | 617 |
| 6862061 | **6363700** | 641 |
| 6862078 | **6363702** | 641 |
| 6862085 | **6363704** | 641 |
| 6862115 | **6363706** | 641 |
| 6862122 | **6363708** | 641 |
| 6862139 | **6363710** | 641 |
| 6862146 | **6363720** | 642 |
| 6862177 | **6363722** | 642 |
| 6862191 | **6363724** | 642 |
| 6862207 | **6363726** | 642 |
| 6862238 | **6363728** | 642 |
| 6862245 | **6363730** | 642 |
| 6862184 | **6363740** | 643 |
| 6862252 | **6363742** | 643 |
| 6862269 | **6363744** | 643 |
| 6862290 | **6363746** | 643 |
| 6862306 | **6363748** | 643 |
| 6862313 | **6363750** | 643 |
| | /pc. | |
| 6198610 | **6363806** | 636 |
| 6198672 | **6363814** | 636 |
| 6198733 | **6363822** | 636 |
| 5460381 | **6363826** | 636 |
| 5460428 | **6363829** | 636 |
| 5076858 | **6363861** | 637 |
| 5076865 | **6363865** | 637 |
| 5076896 | **6363869** | 637 |
| 6690596 | **6363884** | 652 |
| 6690602 | **6363886** | 653 |
| | /pc. | |
| 6881413 | **6363903** | 651 |
| 6148219 | **6363907** | 651 |
| 6881475 | **6363911** | 651 |
| 6881536 | **6363938** | 651 |
| 6881598 | **6363946** | 651 |
| 6198979 | **6364101** | 632 |
| 6199099 | **6364209** | 632 |
| 6199273 | **6364306** | 632 |
| 6199334 | **6364322** | 627 |
| 6199396 | **6364349** | 627 |
| 6199457 | **6364365** | 627 |
| 6473717 | **6364403** | 628 |
| 6473779 | **6364500** | 628 |
| 6473830 | **6364608** | 628 |
| 5668084 | **6364625** | 645 |
| 6473892 | **6364659** | 633 |
| 6473953 | **6364667** | 633 |
| 6474011 | **6364675** | 633 |
| 6555673 | **6364683** | 633 |
| 6282739 | **6364802** | 697 |
| 5617730 | **6364848** | 629 |
| 5617860 | **6364850** | 629 |
| 5617877 | **6364852** | 629 |
| 5733157 | **6364871** | 631 |
| 5733164 | **6364876** | 631 |
| 5733171 | **6364881** | 631 |
| 6511754 | **6365906** | 638 |
| 6042609 | **6365914** | 638 |
| 6511815 | **6365922** | 638 |
| 6984329 | **6365949** | 638 |
| 5076902 | **6365977** | 639 |
| 5076919 | **6365981** | 639 |
| 5076926 | **6365985** | 639 |
| 5617747 | **6365989** | 640 |
| 5617754 | **6365991** | 640 |
| 5617761 | **6365993** | 640 |
| 5617778 | **6365995** | 640 |
| 6627554 | **6366015** | 634 |
| 6627615 | **6366023** | 634 |
| 6545353 | **6366031** | 634 |
| 6545292 | **6366066** | 634 |
| 6079032 | **6366090** | 697 |
| 5424925 | **6366093** | 697 |
| 7274504 | **6366094** | 697 |
| | /pc. | |
| 5076957 | **6366131** | 635 |
| 5076964 | **6366135** | 635 |
| 5076971 | **6366139** | 635 |
| 5076988 | **6366143** | 635 |
| 5617785 | **6366145** | 644 |
| 5617792 | **6366146** | 644 |
| 5617808 | **6366148** | 644 |
| 5617815 | **6366149** | 644 |
| 5381693 | **6366533** | 630 |
| 5381709 | **6366536** | 630 |
| 5381716 | **6366539** | 630 |
| 5381723 | **6366542** | 697 |
| 5381754 | **6366545** | 630 |
| 5381761 | **6366548** | 630 |
| 5381778 | **6366551** | 630 |
| 5381785 | **6366554** | 630 |
| 5668091 | **6372881** | 730 |
| 5668107 | **6372898** | 730 |
| | price/m | |
| 6199631 | **6373062** | 728 |
| 6199693 | **6373070** | 727 |
| | /pc. | |
| 6199754 | **6373100** | 727 |
| 5614159 | **6373103** | 727 |
| | price/m | |
| 6169160 | **6373200** | 727 |
| | /pc. | |
| 6817634 | **6392008** | 555 |
| 6817696 | **6392016** | 555 |
| 6817757 | **6392024** | 555 |
| 6817818 | **6392032** | 555 |
| 6817870 | **6392040** | 555 |
| 6817931 | **6392059** | 555 |
| | price/m | |
| 6614110 | **6399061** | 740 |
| 6477739 | **6399088** | 740 |
| | /100 pc. | |
| 6040438 | **6404001** | 261 |
| 6708529 | **6404016** | 261 |
| | /100 pc. | |
| 6201259 | **6406963** | 504 |
| 6201372 | **6406998** | 504 |
| 6201433 | **6407048** | 504 |
| 6480012 | **6408710** | 504 |
| 5910961 | **6408920** | 383 |
| 5910985 | **6408930** | 383 |
| 5911043 | **6408940** | 383 |
| 6078615 | **6408970** | 383 |
| 6202218 | **6410081** | 521 |
| 6202270 | **6410103** | 521 |
| 6202331 | **6410111** | 521 |
| | /pc. | |
| 6229277 | **6416446** | 587 |
| 5706045 | **6416448** | 587 |
| 5618485 | **6416450** | 587 |
| 6818235 | **6416462** | 595 |
| 6202751 | **6416489** | 595 |
| 6202812 | **6416500** | 594 |
| 6894253 | **6416504** | 594 |
| 5018346 | **6416507** | 595 |
| 5018407 | **6416511** | 595 |
| 6202874 | **6416519** | 603 |
| 6202935 | **6416527** | 603 |
| 5403173 | **6416533** | 603 |
| 6202997 | **6416551** | 645 |
| 6555611 | **6416586** | 645 |
| 5617884 | **6416594** | 645 |
| 6203475 | **6417752** | 570 |
| 6203536 | **6417779** | 570 |
| 6203598 | **6417795** | 570 |
| 6203659 | **6417817** | 570 |
| 6203710 | **6417833** | 570 |
| 6203772 | **6417868** | 570 |
| 6203833 | **6417884** | 570 |
| 6340279 | **6417906** | 571 |
| 6340330 | **6417910** | 571 |
| 6340392 | **6417914** | 571 |
| 6340453 | **6417918** | 571 |
| 6340514 | **6417922** | 571 |
| 6340576 | **6417926** | 571 |
| 6340637 | **6417930** | 571 |
| 6340699 | **6417934** | 571 |
| 6340750 | **6417938** | 571 |
| 6803880 | **6417941** | 572 |
| 6803897 | **6417943** | 572 |
| 6803903 | **6417945** | 572 |
| 6803910 | **6417947** | 572 |
| 6803927 | **6417949** | 572 |
| 6803934 | **6417971** | 572 |
| 6803941 | **6417973** | 572 |
| 6803958 | **6417975** | 572 |
| 6803965 | **6417977** | 572 |
| 6803972 | **6417979** | 572 |
| | /100 pc. | |
| 6348794 | **6418244** | 522 |
| | /pc. | |
| 6204731 | **6418554** | 567 |
| 5912965 | **6418557** | 569 |
| 6204793 | **6418570** | 567 |
| 5912972 | **6418573** | 569 |
| 6204854 | **6418597** | 567 |
| 5912989 | **6418601** | 569 |
| 6204915 | **6418619** | 567 |
| 5912996 | **6418622** | 569 |
| 6204977 | **6418627** | 567 |
| 6205035 | **6418635** | 567 |
| 5913009 | **6418638** | 569 |
| 6205097 | **6418651** | 567 |
| 6205158 | **6418686** | 567 |
| 6205219 | **6418708** | 567 |
| 6205271 | **6418724** | 567 |
| 6179916 | **6419007** | 575 |
| 6675586 | **6419015** | 575 |
| | /pc. | |
| 5872917 | **6419286** | 578 |
| 5872924 | **6419292** | 578 |
| 5872931 | **6419298** | 578 |
| 5873150 | **6419304** | 578 |
| 5873167 | **6419310** | 578 |
| 5873174 | **6419316** | 578 |
| 5873181 | **6419322** | 578 |
| 5873198 | **6419328** | 578 |
| 5873204 | **6419334** | 578 |
| 5873211 | **6419340** | 578 |
| 5873228 | **6419370** | 577 |
| 5873235 | **6419376** | 577 |
| 5873242 | **6419382** | 577 |
| 5873259 | **6419388** | 577 |
| 5873266 | **6419394** | 577 |
| 5873273 | **6419400** | 577 |
| 5873280 | **6419406** | 577 |
| 5873297 | **6419412** | 577 |
| 5873303 | **6419418** | 577 |
| 6206292 | **6419534** | 573 |
| 6206353 | **6419550** | 573 |
| 6206414 | **6419577** | 573 |
| 6206476 | **6419593** | 573 |
| 6206537 | **6419615** | 573 |
| 6206599 | **6419704** | 562 |
| 6206650 | **6419712** | 562 |
| 6206711 | **6419720** | 562 |
| 6483556 | **6419739** | 565 |
| 6206773 | **6419747** | 562 |
| 6206834 | **6419763** | 562 |
| 6206896 | **6419798** | 562 |
| 6206957 | **6419828** | 562 |
| 6483730 | **6419836** | 562 |
| 6207015 | **6419844** | 562 |
| 6662470 | **6420606** | 559 |
| 6079155 | **6420607** | 559 |
| 6662531 | **6420608** | 559 |
| 6662593 | **6420610** | 559 |
| 6662654 | **6420612** | 559 |
| 6662715 | **6420614** | 559 |
| 6662777 | **6420616** | 559 |
| 5058373 | **6420625** | 560 |
| 5058380 | **6420628** | 560 |
| 5058427 | **6420631** | 560 |
| 5058434 | **6420634** | 560 |
| 5058502 | **6420637** | 560 |
| 5058540 | **6420640** | 560 |
| 5706304 | **6420642** | 561 |
| 5706311 | **6420644** | 561 |
| 5395362 | **6420646** | 561 |
| 5706052 | **6420648** | 561 |
| 5706328 | **6420650** | 561 |
| 5706359 | **6420652** | 561 |
| 6207077 | **6420656** | 553 |
| 6207138 | **6420664** | 553 |
| 6207190 | **6420680** | 553 |
| 6207251 | **6420710** | 553 |
| 6207312 | **6420745** | 553 |
| 6207374 | **6420788** | 553 |
| 6207435 | **6420796** | 553 |
| 6207497 | **6420826** | 553 |
| 5076773 | **6420909** | 557 |
| 5076780 | **6420912** | 557 |
| 5076797 | **6420915** | 557 |
| 5076803 | **6420918** | 557 |
| 5076834 | **6420921** | 557 |
| 5076841 | **6420924** | 557 |
| 5300120 | **6420927** | 557 |
| 6207558 | **6421008** | 554 |
| 6207619 | **6421024** | 554 |
| 6207671 | **6421032** | 554 |
| 5061953 | **6421036** | 554 |
| 5061960 | **6421040** | 554 |
| 5061977 | **6421044** | 554 |
| 5911432 | **6421192** | 556 |
| 6207732 | **6421326** | 576 |
| 6207794 | **6421334** | 576 |
| 6207855 | **6421350** | 576 |
| 6207916 | **6421385** | 576 |
| 6207978 | **6421423** | 576 |
| 6208036 | **6421466** | 576 |
| 6208098 | **6421490** | 576 |
| 7253769 | **6424400** | 552 |
| 7253790 | **6424402** | 552 |
| 7253851 | **6424404** | 552 |
| 7253882 | **6424406** | 552 |
| 7253912 | **6424410** | 552 |
| 7253967 | **6424412** | 552 |
| 7254018 | **6424414** | 552 |
| 7254049 | **6424416** | 552 |
| 7253523 | **6424430** | 548 |
| 7253554 | **6424432** | 548 |
| 7253585 | **6424434** | 548 |
| 7253615 | **6424436** | 548 |
| 7253646 | **6424440** | 548 |
| 7253677 | **6424442** | 548 |
| 7253707 | **6424444** | 548 |
| 7253738 | **6424446** | 548 |
| | /100 pc. | |
| 5438519 | **6424548** | 261 |
| | /pc. | |
| 5438526 | **6424550** | 550 |
| 5438533 | **6424552** | 550 |
| 5438540 | **6424554** | 550 |
| 5438571 | **6424556** | 550 |
| 6324736 | **6424600** | 551 |
| 6325030 | **6424608** | 551 |
| 6325337 | **6424616** | 551 |
| 6649860 | **6424620** | 549 |
| 6325634 | **6424624** | 551 |
| 6636853 | **6424716** | 547 |
| 6636976 | **6424732** | 547 |
| 6637034 | **6424740** | 547 |
| 6637096 | **6424759** | 547 |
| 6208876 | **6437109** | 388 |
| 6208937 | **6442803** | 563 |
| 6209057 | **6442838** | 563 |
| 6209118 | **6442854** | 563 |
| 6209170 | **6442870** | 563 |
| 6209231 | **6442897** | 563 |
| 6209293 | **6442919** | 563 |
| 6441433 | **6443063** | 568 |
| 6441495 | **6443067** | 568 |
| 6617111 | **6443071** | 568 |
| 6661091 | **6443075** | 568 |
| 6661152 | **6443079** | 568 |
| 6661879 | **6443083** | 568 |
| 6349753 | **6443311** | 564 |
| 6554478 | **6443346** | 564 |
| 5021049 | **6443615** | 564 |
| 6955879 | **6443621** | 564 |
| 5021094 | **6443625** | 564 |
| 5021100 | **6443627** | 564 |
| 5911647 | **6443632** | 566 |
| 6332533 | **6479367** | 381 |
| 5239024 | **6479435** | 475 |
| 5238775 | **6479790** | 474 |
| 6210374 | **7000383** | 162 |
| 6210435 | **7000405** | 162 |
| 6210497 | **7000421** | 162 |
| 6818419 | **7000472** | 193 |
| 6818471 | **7000499** | 193 |
| 6818532 | **7000510** | 193 |
| 6210732 | **7000529** | 193 |
| 6210794 | **7000545** | 193 |
| 6210855 | **7000561** | 193 |
| 6818594 | **7000634** | 232 |
| 6818778 | **7000650** | 232 |
| 6818839 | **7000677** | 232 |
| 6211098 | **7000685** | 232 |
| 6211159 | **7000707** | 232 |
| 6211210 | **7000715** | 232 |
| 6211630 | **7001290** | 163 |
| 6211692 | **7001304** | 163 |
| 6211753 | **7001312** | 163 |
| 6818891 | **7001762** | 193 |
| 6819317 | **7001789** | 193 |
| 6819379 | **7001800** | 193 |
| 6211999 | **7001819** | 194 |
| 6212057 | **7001835** | 194 |
| 6212118 | **7001851** | 194 |
| 6819430 | **7001894** | 232 |
| 6819492 | **7001916** | 232 |
| 6819553 | **7001932** | 232 |
| 6212354 | **7001940** | 232 |
| 6212415 | **7001967** | 232 |
| 6212477 | **7001975** | 232 |
| 6212897 | **7002394** | 165 |
| 6212958 | **7002416** | 165 |
| 6213016 | **7002432** | 165 |
| 6819614 | **7002475** | 195 |
| 6819676 | **7002491** | 195 |
| 6819737 | **7002513** | 195 |
| 6213252 | **7002521** | 195 |
| 6213313 | **7002556** | 195 |
| 6213375 | **7002572** | 195 |
| 6819799 | **7002637** | 234 |
| 6819850 | **7002653** | 234 |
| 6819911 | **7002688** | 234 |
| 6213610 | **7002696** | 234 |
| 6213672 | **7002726** | 234 |
| 6213733 | **7002734** | 234 |
| 6214150 | **7003390** | 166 |
| 6214211 | **7003412** | 166 |
| 6214273 | **7003439** | 166 |
| 6820153 | **7003633** | 233 |
| 6820214 | **7003668** | 233 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Numeric directory

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 6820276 | **7003684** | 233 |
| 6214877 | **7003692** | 233 |
| 6214938 | **7003714** | 233 |
| 6215416 | **7004397** | 121 |
| 6215478 | **7004419** | 121 |
| 6215539 | **7004435** | 121 |
| 6820511 | **7004648** | 236 |
| 6820573 | **7004664** | 236 |
| 6820634 | **7004680** | 236 |
| 6216130 | **7004699** | 236 |
| 6216192 | **7004710** | 236 |
| 6216550 | **7005326** | 119 |
| 6500239 | **7005334** | 168 |
| 6216611 | **7005342** | 119 |
| 6216673 | **7005369** | 119 |
| 6216734 | **7005385** | 119 |
| 6216796 | **7005407** | 119 |
| 6216857 | **7005423** | 119 |
| 6216918 | **7005466** | 183 |
| 6216970 | **7005482** | 183 |
| 6217038 | **7005504** | 183 |
| 6217090 | **7005520** | 183 |
| 6217151 | **7005547** | 183 |
| 6217212 | **7005563** | 183 |
| 6217274 | **7005628** | 217 |
| 5995890 | **7005636** | 235 |
| 6217335 | **7005644** | 217 |
| 6217397 | **7005660** | 217 |
| 6217458 | **7005687** | 217 |
| 6217519 | **7005709** | 217 |
| 6217571 | **7005717** | 235 |
| 5995906 | **7005723** | 217 |
| 6217878 | **7006322** | 120 |
| 6500352 | **7006330** | 167 |
| 6217939 | **7006349** | 120 |
| 6217991 | **7006365** | 120 |
| 6218059 | **7006381** | 120 |
| 6218110 | **7006411** | 120 |
| 6218172 | **7006446** | 120 |
| 6218233 | **7006462** | 196 |
| 6218295 | **7006489** | 196 |
| 6218356 | **7006500** | 196 |
| 6218417 | **7006527** | 196 |
| 6218479 | **7006543** | 196 |
| 6218530 | **7006578** | 196 |
| 6218592 | **7006624** | 197 |
| 5995852 | **7006632** | 197 |
| 6218653 | **7006640** | 197 |
| 6218714 | **7006667** | 197 |
| 6218776 | **7006683** | 197 |
| 6218837 | **7006705** | 197 |
| 6218899 | **7006713** | 197 |
| 5995869 | **7006717** | 197 |
| 5886570 | **7006720** | 117 |
| 5886587 | **7006724** | 117 |
| 5886594 | **7006728** | 117 |
| 5886600 | **7006732** | 117 |
| 5886617 | **7006736** | 117 |
| 5886624 | **7006740** | 117 |
| 5886457 | **7006750** | 118 |
| 5886471 | **7006754** | 118 |
| 5886488 | **7006758** | 118 |
| 5886501 | **7006762** | 118 |
| 5886532 | **7006766** | 118 |
| 5886549 | **7006770** | 118 |
| 5047322 | **7007005** | 117 |
| 5703730 | **7007006** | 117 |
| 5047339 | **7007009** | 117 |
| 5811015 | **7007010** | 117 |
| 5047346 | **7007013** | 117 |
| 5703747 | **7007014** | 117 |
| 5047377 | **7007017** | 117 |
| 5863342 | **7007018** | 117 |
| 5047384 | **7007021** | 117 |
| 5863380 | **7007022** | 117 |
| 5047391 | **7007025** | 117 |
| 5863397 | **7007026** | 117 |
| 5047407 | **7007029** | 117 |
| 5863403 | **7007030** | 117 |
| 5047445 | **7007055** | 118 |
| 5476818 | **7007056** | 118 |
| 5047452 | **7007059** | 118 |
| 5811022 | **7007060** | 118 |
| 5047469 | **7007063** | 118 |
| 5703785 | **7007064** | 118 |
| 5047490 | **7007067** | 118 |
| 5863298 | **7007068** | 118 |
| 5047506 | **7007071** | 118 |
| 5863304 | **7007072** | 118 |
| 5047513 | **7007075** | 118 |
| 5863311 | **7007076** | 118 |
| 5047520 | **7007079** | 118 |
| 5863328 | **7007080** | 118 |
| 5688556 | **7007105** | 117 |
| 5886181 | **7007109** | 117 |
| 5886198 | **7007113** | 117 |
| 5886204 | **7007117** | 117 |
| 5886235 | **7007119** | 117 |
| 5886242 | **7007121** | 117 |
| 5688563 | **7007155** | 118 |
| 5886112 | **7007157** | 118 |
| 5886129 | **7007159** | 118 |
| 5886136 | **7007161** | 118 |
| 5886143 | **7007163** | 118 |
| 5886174 | **7007165** | 118 |
| 5711421 | **7007174** | 86 |
| 5863236 | **7007176** | 86 |
| 5711438 | **7007178** | 86 |
| 5863250 | **7007180** | 86 |
| 5711445 | **7007182** | 86 |
| 5863267 | **7007184** | 86 |
| 5711452 | **7007186** | 86 |
| 5863274 | **7007188** | 86 |
| 5711476 | **7007204** | 86 |
| 5863199 | **7007206** | 86 |
| 5711483 | **7007208** | 86 |
| 5863205 | **7007210** | 86 |
| 5711513 | **7007212** | 86 |
| 5863212 | **7007214** | 86 |
| 5711520 | **7007216** | 86 |
| 5863229 | **7007218** | 86 |
| 5711537 | **7007230** | 182 |
| 5863502 | **7007231** | 182 |
| 5711544 | **7007234** | 182 |
| 5863519 | **7007235** | 182 |
| 5711575 | **7007238** | 182 |
| 5863526 | **7007239** | 182 |
| 5711582 | **7007242** | 182 |
| 5863564 | **7007243** | 182 |
| 5711599 | **7007246** | 182 |
| 5863571 | **7007247** | 182 |
| 5711605 | **7007250** | 182 |
| 5863588 | **7007251** | 182 |
| 5711636 | **7007270** | 182 |
| 5863410 | **7007271** | 182 |
| 5711643 | **7007274** | 182 |
| 5863427 | **7007275** | 182 |
| 5711650 | **7007278** | 182 |
| 5863434 | **7007279** | 182 |
| 5711667 | **7007282** | 182 |
| 5863441 | **7007283** | 182 |
| 5711698 | **7007286** | 182 |
| 5863458 | **7007287** | 182 |
| 5711704 | **7007290** | 182 |
| 5863465 | **7007291** | 182 |
| 5711711 | **7007310** | 216 |
| 5995579 | **7007312** | 233 |
| 5995593 | **7007313** | 216 |
| 5711728 | **7007314** | 216 |
| 5711759 | **7007318** | 216 |
| 5863618 | **7007319** | 216 |
| 5711766 | **7007322** | 216 |
| 5711773 | **7007326** | 216 |
| 5863625 | **7007327** | 216 |
| 5711780 | **7007330** | 233 |
| 5863632 | **7007331** | 216 |
| 5995586 | **7007333** | 216 |
| 5995609 | **7007334** | 216 |
| 5711810 | **7007350** | 216 |
| 5995616 | **7007352** | 216 |
| 5995630 | **7007353** | 216 |
| 5711827 | **7007354** | 216 |
| 5711834 | **7007358** | 216 |
| 5863649 | **7007359** | 216 |
| 5711841 | **7007362** | 216 |
| 5711872 | **7007366** | 216 |
| 5863687 | **7007367** | 216 |
| 5711889 | **7007370** | 216 |
| 5863694 | **7007371** | 216 |
| 5995623 | **7007373** | 216 |
| 5995647 | **7007374** | 216 |
| 5850908 | **7007398** | 216 |
| 5809197 | **7007400** | 216 |
| 5809203 | **7007404** | 216 |
| 5850922 | **7007468** | 216 |
| 5809210 | **7007470** | 216 |
| 5809227 | **7007474** | 216 |
| 5927389 | **7027001** | 116 |
| 5927396 | **7027003** | 116 |
| 5927402 | **7027005** | 116 |
| 5927419 | **7027007** | 116 |
| 5927426 | **7027009** | 116 |
| 5927457 | **7027011** | 116 |
| 5927464 | **7027013** | 116 |
| 5927471 | **7027021** | 116 |
| 5927518 | **7027025** | 116 |
| 5927525 | **7027027** | 116 |
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| 5927655 | **7027047** | 117 |
| 5927761 | **7027081** | 181 |
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| 5928058 | **7027163** | 215 |
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| 5706885 | **7061360** | 67 |
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| 6990801 | **7065213** | 84 |
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| | /pc. | |
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| 6230532 | **7082010** | 111 |
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| 6230891 | **7082320** | 178 |
| 6230952 | **7082436** | 211 |
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| 6568802 | **7083008** | 260 |
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| 5286790 | **7085112** | 241 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 5163312 | **7085114** | 241 |
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| | price/m | |
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| 5708155 | **7098164** | 464 |
| 5708162 | **7098166** | 464 |
| 5708179 | **7098168** | 464 |

| GTIN | Item no. | Page |
|---|---|---|
| | price/m | |
| 5708186 | **7098170** | 464 |
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| 5708285 | **7098192** | 468 |
| 5708292 | **7098194** | 468 |
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| | /pc. | |
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| 6516162 | **7099062** | 469 |
| 6516179 | **7099064** | 469 |
| 6515578 | **7099066** | 469 |
| 6516186 | **7099068** | 469 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 6516216 | **7099070** | 469 |
| 6516605 | **7099090** | 470 |
| 6516629 | **7099092** | 470 |
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| | price/m | |
| 6509799 | **7099702** | 444 |
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| | /pc. | |
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| 6698134 | **7103592** | 461 |

| GTIN | Item no. | Page |
|---|---|---|
| 6698141 | **7103594** | 452 |
| | price/m | |
| 6115518 | **7103603** | 723 |
| 6582136 | **7103611** | 723 |
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| 5708698 | **7103656** | 725 |
| | | |
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| | /pc. | |
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| | /pc. | |
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| | | |
| 6242771 | **7111096** | 212 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 5995500 | **7111201** | 231 |
| 6242894 | **7111207** | 212 |
| 6243013 | **7111304** | 212 |
| 6243136 | **7111428** | 212 |
| 6243198 | **7111509** | 212 |
| 6243259 | **7111541** | 231 |
| 5995517 | **7111740** | 212 |
| 6341801 | **7111802** | 198 |
| 6341818 | **7111804** | 198 |
| 6341825 | **7111806** | 198 |
| 6341832 | **7111808** | 198 |
| 6341849 | **7111810** | 198 |
| 6341856 | **7111812** | 198 |
| | | |
| 6991709 | **7113110** | 167 |
| 6991761 | **7113218** | 167 |
| 6991822 | **7113315** | 167 |
| 6243730 | **7113404** | 121 |
| 6243792 | **7113501** | 121 |
| 6243853 | **7113609** | 121 |
| | | |
| 6990085 | **7115113** | 236 |
| 6811878 | **7115210** | 236 |
| 6811939 | **7115318** | 236 |
| 6244454 | **7115407** | 236 |
| 6244515 | **7115504** | 236 |
| 6935239 | **7115564** | 236 |
| | | |
| 6812356 | **7117116** | 166 |
| 6901692 | **7117162** | 166 |
| 6812417 | **7117209** | 166 |
| 6812479 | **7117306** | 166 |
| 6245055 | **7117396** | 166 |
| 6245116 | **7117507** | 166 |
| 6245178 | **7117604** | 166 |
| | | |
| 6812714 | **7119119** | 233 |
| 6812776 | **7119216** | 233 |
| 6812837 | **7119313** | 233 |
| 6245772 | **7119402** | 233 |
| 6245833 | **7119496** | 233 |
| 6245895 | **7119550** | 233 |
| | | |
| 6812950 | **7120117** | 85 |
| 5815754 | **7120140** | 85 |
| 6813018 | **7120214** | 85 |
| 6813070 | **7120311** | 85 |
| 6687664 | **7120450** | 85 |
| 6688654 | **7120458** | 85 |
| 6687671 | **7120460** | 164 |
| 6688661 | **7120468** | 164 |
| | | |
| | /pc. | |
| 6813131 | **7121109** | 164 |
| 6027002 | **7121205** | 164 |
| 6813193 | **7121210** | 164 |
| 6813254 | **7121318** | 164 |
| 6246373 | **7121407** | 165 |
| 6246434 | **7121504** | 165 |
| 6246496 | **7121601** | 165 |
| | | |
| 6813315 | **7122109** | 195 |
| 6813377 | **7122213** | 195 |
| 6813438 | **7122310** | 195 |
| 6246731 | **7122403** | 195 |
| 6246793 | **7122500** | 195 |
| 6246854 | **7122608** | 195 |
| | | |
| 6813490 | **7123116** | 234 |
| 6813551 | **7123213** | 234 |
| 6813674 | **7123310** | 234 |
| 6247097 | **7123396** | 234 |
| 6247158 | **7123507** | 234 |
| 6247219 | **7123558** | 234 |
| | | |
| 6813919 | **7124120** | 85 |
| 6813971 | **7124236** | 85 |
| 6814039 | **7124325** | 85 |
| 6687640 | **7124400** | 85 |
| 6688630 | **7124410** | 85 |
| 6687657 | **7124430** | 163 |
| 6688647 | **7124438** | 163 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Numeric directory

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 6814091 | **7125100** | 163 |
| 6901753 | **7125189** | 163 |
| 6814152 | **7125220** | 163 |
| 6814336 | **7125305** | 163 |
| 6247691 | **7125410** | 163 |
| 6247752 | **7125526** | 163 |
| 6247813 | **7125585** | 163 |
| 6814510 | **7126127** | 193 |
| 6814572 | **7126216** | 193 |
| 6814633 | **7126301** | 193 |
| 6248056 | **7126417** | 194 |
| 6248117 | **7126514** | 194 |
| 6248179 | **7126611** | 194 |
| 6814695 | **7127103** | 232 |
| 6814756 | **7127227** | 232 |
| 6814817 | **7127320** | 232 |
| 6248414 | **7127413** | 232 |
| 6248476 | **7127499** | 232 |
| 6248537 | **7127545** | 232 |
| 6935475 | **7127627** | 232 |
| 6248599 | **7128215** | 251 |
| 6526031 | **7128223** | 251 |
| 6248650 | **7128231** | 251 |
| 6248711 | **7128266** | 251 |
| 6248773 | **7128282** | 251 |
| 6248834 | **7128304** | 251 |
| 6248957 | **7128320** | 251 |
| 6249015 | **7128428** | 249 |
| 6526154 | **7128436** | 249 |
| 6249077 | **7128444** | 249 |
| 6249138 | **7128460** | 249 |
| 6249190 | **7128487** | 249 |
| 6249251 | **7128509** | 249 |
| 6249312 | **7128517** | 249 |
| 6249374 | **7128525** | 249 |
| 6249435 | **7128614** | 254 |
| 6845651 | **7128622** | 254 |
| 6249497 | **7128630** | 254 |
| 6249558 | **7128657** | 254 |
| 6249619 | **7128673** | 254 |
| 6249671 | **7128703** | 254 |
| 6249794 | **7128738** | 254 |
| 6249855 | **7128819** | 245 |
| 6526338 | **7128827** | 245 |
| 6249916 | **7128835** | 245 |
| 6249978 | **7128851** | 245 |
| 6250035 | **7128886** | 245 |
| 6250097 | **7128908** | 245 |
| 6250158 | **7128916** | 245 |
| 6250219 | **7128924** | 245 |
| 6250332 | **7129319** | 251 |
| 6015313 | **7129327** | 251 |
| 6250394 | **7129335** | 251 |
| 6250455 | **7129351** | 251 |
| 6250516 | **7129386** | 251 |
| 6250578 | **7129408** | 251 |
| 6250639 | **7129416** | 251 |
| 6250691 | **7129424** | 251 |
| 6250752 | **7129610** | 246 |
| 6526451 | **7129629** | 246 |
| 6250813 | **7129637** | 246 |
| 6250875 | **7129653** | 246 |
| 6250936 | **7129688** | 247 |
| 6250998 | **7129718** | 247 |
| 6251056 | **7129726** | 247 |
| 6251117 | **7129734** | 247 |
| 6251230 | **7130511** | 246 |
| 6015436 | **7130538** | 246 |
| 6251292 | **7130546** | 246 |
| 6251353 | **7130562** | 246 |
| 6251414 | **7130589** | 247 |
| 6251476 | **7130600** | 247 |
| 6251537 | **7130619** | 247 |
| 6251599 | **7130627** | 247 |
| 5711902 | **7130764** | 255 |
| 5711933 | **7130768** | 255 |
| 5711940 | **7130772** | 255 |
| 5711957 | **7130776** | 255 |
| 5047568 | **7130805** | 253 |
| 5047575 | **7130809** | 253 |
| 5047582 | **7130813** | 253 |
| 5047612 | **7130817** | 253 |
| 5047629 | **7130821** | 253 |
| 5047636 | **7130825** | 253 |
| 5047643 | **7130829** | 253 |
| 5047681 | **7130852** | 253 |
| 5047698 | **7130856** | 253 |
| 5047704 | **7130860** | 253 |
| 5047735 | **7130864** | 253 |
| 5047742 | **7130868** | 253 |
| 5047759 | **7130872** | 253 |
| 5047766 | **7130876** | 253 |
| 5688600 | **7130905** | 255 |
| 5886303 | **7130907** | 255 |
| 5886327 | **7130909** | 255 |
| 5886365 | **7130911** | 255 |
| 5886389 | **7130913** | 255 |
| 5886419 | **7130915** | 255 |
| 5886464 | **7130920** | 255 |
| 5886495 | **7130922** | 255 |
| 5886518 | **7130924** | 255 |
| 5886525 | **7130926** | 255 |
| 5886556 | **7130928** | 255 |
| 5886563 | **7130930** | 255 |
| 5688617 | **7130952** | 256 |
| 5886259 | **7130954** | 256 |
| 5886266 | **7130956** | 256 |
| 5886273 | **7130958** | 256 |
| 5886280 | **7130960** | 256 |
| 5886297 | **7130962** | 256 |
| 5886310 | **7130972** | 256 |
| 5886358 | **7130974** | 256 |
| 5886372 | **7130976** | 256 |
| 5886426 | **7130978** | 256 |
| 5886433 | **7130980** | 256 |
| 5886440 | **7130982** | 256 |
| 5711964 | **7130990** | 253 |
| 5711995 | **7130994** | 253 |
| 5712008 | **7130998** | 253 |
| 5712015 | **7131002** | 253 |
| 5712022 | **7131006** | 253 |
| 5712039 | **7131010** | 253 |
| 5712046 | **7131030** | 257 |
| 5995753 | **7131032** | 257 |
| 5712053 | **7131034** | 257 |
| 5712060 | **7131038** | 257 |
| 5712077 | **7131042** | 257 |
| 5712084 | **7131046** | 257 |
| 5712091 | **7131050** | 257 |
| 5995760 | **7131052** | 257 |
| 6251711 | **7131089** | 254 |
| 6251773 | **7131100** | 254 |
| 6251834 | **7131127** | 254 |
| 6251896 | **7131143** | 254 |
| 6251957 | **7131178** | 254 |
| 6252077 | **7131194** | 254 |
| 6252190 | **7131305** | 249 |
| 6252251 | **7131321** | 249 |
| 6252312 | **7131348** | 249 |
| 6252374 | **7131356** | 249 |
| 6252435 | **7131364** | 249 |
| 6252497 | **7131372** | 249 |
| 6252558 | **7131380** | 249 |
| 5850915 | **7131508** | 253 |
| 5874386 | **7131509** | 253 |
| 5809265 | **7131510** | 253 |
| 5874393 | **7131514** | 253 |
| 5809272 | **7131518** | 253 |
| 5874409 | **7131524** | 253 |
| 5874416 | **7131527** | 253 |
| 5995777 | **7131554** | 257 |
| 5850960 | **7131556** | 257 |
| 5809289 | **7131560** | 257 |
| 5874775 | **7131564** | 257 |
| 5809296 | **7131568** | 257 |
| 5874782 | **7131572** | 257 |
| 5874799 | **7131574** | 257 |
| 5995784 | **7131576** | 257 |
| 5874430 | **7131592** | 255 |
| 5874447 | **7131594** | 255 |
| 5874485 | **7131596** | 255 |
| 5874492 | **7131600** | 255 |
| 5874546 | **7131632** | 253 |
| 5874553 | **7131634** | 253 |
| 5874560 | **7131636** | 253 |
| 5874607 | **7131640** | 253 |
| 5874614 | **7131644** | 253 |
| 5874621 | **7131648** | 253 |
| 5874669 | **7131652** | 253 |
| 5874676 | **7131672** | 256 |
| 5874683 | **7131676** | 256 |
| 5874713 | **7131680** | 256 |
| 5874720 | **7131684** | 256 |
| 5874737 | **7131688** | 256 |
| 5874744 | **7131692** | 256 |
| 6222216 | **7131710** | 255 |
| 6222223 | **7131712** | 255 |
| 6222230 | **7131714** | 255 |
| 6401260 | **7131716** | 255 |
| 6687688 | **7131780** | 246 |
| 6688678 | **7131785** | 246 |
| | /pc. | |
| 6252671 | **7131828** | 245 |
| 6027125 | **7131836** | 245 |
| 6252732 | **7131844** | 245 |
| 6252794 | **7131860** | 245 |
| 6252855 | **7131879** | 245 |
| 6252916 | **7131887** | 245 |
| 6252978 | **7131895** | 245 |
| 6253036 | **7131909** | 245 |
| 6923595 | **7132002** | 257 |
| 6923656 | **7132004** | 257 |
| 6923717 | **7132006** | 257 |
| 6924073 | **7132022** | 257 |
| 6924134 | **7132024** | 257 |
| 6924196 | **7132026** | 257 |
| 6687695 | **7132110** | 249 |
| 6688685 | **7132115** | 249 |
| | /pc. | |
| 6253630 | **7133235** | 162 |
| 6820870 | **7134122** | 163 |
| 6820931 | **7134130** | 163 |
| 6820993 | **7134138** | 163 |
| 6254712 | **7134231** | 164 |
| 6254774 | **7134258** | 164 |
| 6254835 | **7134266** | 164 |
| 5866541 | **7134286** | 163 |
| 5866558 | **7134288** | 163 |
| 5866565 | **7134290** | 163 |
| 5866572 | **7134292** | 164 |
| 5866589 | **7134294** | 164 |
| 5866626 | **7134296** | 164 |
| 6254897 | **7134908** | 247 |
| 6254958 | **7134916** | 247 |
| 6255016 | **7134924** | 247 |
| 6255078 | **7134932** | 247 |
| 6255139 | **7134940** | 247 |
| 6255191 | **7134967** | 247 |
| 5866633 | **7134982** | 247 |
| 5866640 | **7134988** | 247 |
| 5866657 | **7134990** | 247 |
| 5866664 | **7134992** | 247 |
| 5866671 | **7134994** | 247 |
| 5866688 | **7134996** | 247 |
| 6821235 | **7136120** | 165 |
| 5675686 | **7136122** | 165 |
| 6821297 | **7136133** | 165 |
| 5866695 | **7136135** | 165 |
| 6821358 | **7136141** | 165 |
| 5866701 | **7136143** | 165 |
| 6256877 | **7136242** | 165 |
| 5866749 | **7136244** | 165 |
| 6256938 | **7136250** | 165 |
| 5866756 | **7136252** | 165 |
| 6256990 | **7136269** | 165 |
| 5866763 | **7136271** | 165 |
| 6257058 | **7136900** | 250 |
| 6801961 | **7136902** | 250 |
| 6257119 | **7136919** | 250 |
| 5866800 | **7136921** | 250 |
| 6257171 | **7136927** | 250 |
| 5866817 | **7136929** | 250 |
| 6257232 | **7136935** | 251 |
| 5866824 | **7136937** | 251 |
| 6257294 | **7136943** | 251 |
| 5866862 | **7136944** | 251 |
| 6257355 | **7136978** | 251 |
| 5866879 | **7136980** | 251 |
| 6258499 | **7138113** | 167 |
| 5928751 | **7138360** | 246 |
| 5928768 | **7138362** | 246 |
| 5928775 | **7138364** | 246 |
| 5928782 | **7138366** | 246 |
| 5928799 | **7138368** | 246 |
| 5928812 | **7138370** | 246 |
| 5928829 | **7138372** | 246 |
| 5928836 | **7138400** | 246 |
| 5928843 | **7138402** | 246 |
| 5928867 | **7138404** | 246 |
| 5928874 | **7138406** | 246 |
| 5928881 | **7138408** | 246 |
| 5928904 | **7138410** | 246 |
| 5928911 | **7138412** | 246 |
| 5929093 | **7138500** | 248 |
| 5929109 | **7138502** | 248 |
| 5929116 | **7138504** | 248 |
| 5929123 | **7138506** | 248 |
| 5929130 | **7138508** | 248 |
| 5929147 | **7138510** | 248 |
| 5929154 | **7138512** | 248 |
| 5929192 | **7138540** | 248 |
| 5929208 | **7138542** | 248 |
| 5929215 | **7138544** | 248 |
| 5929222 | **7138546** | 248 |
| 5929239 | **7138548** | 248 |
| 5929246 | **7138550** | 248 |
| 5929253 | **7138552** | 248 |
| 5929260 | **7138570** | 248 |
| 5929284 | **7138574** | 248 |
| 5929291 | **7138576** | 248 |
| 5929307 | **7138578** | 248 |
| 5929314 | **7138580** | 248 |
| 5929321 | **7138582** | 248 |
| 5929338 | **7138590** | 248 |
| 5929352 | **7138594** | 248 |
| 5929369 | **7138596** | 248 |
| 5929376 | **7138598** | 248 |
| 5929383 | **7138600** | 248 |
| 5930587 | **7138640** | 250 |
| 5930594 | **7138642** | 250 |
| 5930600 | **7138644** | 250 |
| 5930617 | **7138646** | 250 |
| 5930624 | **7138648** | 250 |
| 5930631 | **7138650** | 250 |
| 5930648 | **7138652** | 250 |
| 5930655 | **7138680** | 250 |
| 5930662 | **7138682** | 250 |
| 5930679 | **7138684** | 250 |
| 5930686 | **7138686** | 250 |
| 5930693 | **7138688** | 250 |
| 5930709 | **7138690** | 250 |
| 5930716 | **7138692** | 250 |
| 5930723 | **7138720** | 250 |
| 5930761 | **7138724** | 250 |
| 5930778 | **7138726** | 250 |
| 5930785 | **7138728** | 250 |
| 5930792 | **7138730** | 250 |
| 5930808 | **7138732** | 250 |
| 5930815 | **7138740** | 250 |
| 5930839 | **7138744** | 250 |
| 5930846 | **7138746** | 250 |
| 5930853 | **7138748** | 250 |
| 5930860 | **7138750** | 250 |
| 5930877 | **7138752** | 250 |
| 5930884 | **7138790** | 252 |
| 5930891 | **7138792** | 252 |
| 5930907 | **7138794** | 252 |
| 5930914 | **7138796** | 252 |
| 5930921 | **7138798** | 252 |
| 5930938 | **7138800** | 252 |
| 5930945 | **7138802** | 252 |
| 5930952 | **7138830** | 252 |
| 5930969 | **7138832** | 252 |
| 5931003 | **7138834** | 252 |
| 5931010 | **7138836** | 252 |
| 5931027 | **7138838** | 252 |
| 5931058 | **7138840** | 252 |
| 5931065 | **7138842** | 252 |
| 5931249 | **7138892** | 252 |
| 5931256 | **7138930** | 252 |
| 5931263 | **7138932** | 252 |
| 5931270 | **7138934** | 252 |
| 5931287 | **7138936** | 252 |
| 5931294 | **7138938** | 252 |
| 5931300 | **7138940** | 252 |
| 5931317 | **7138942** | 252 |
| 5931324 | **7138970** | 252 |
| 5931362 | **7138974** | 252 |
| 5931379 | **7138976** | 252 |
| 5931386 | **7138978** | 252 |
| 5931393 | **7138980** | 252 |
| 5931409 | **7138982** | 252 |
| 6259991 | **7160046** | 420 |
| 6260058 | **7160054** | 420 |
| 6260119 | **7160062** | 420 |
| 6260171 | **7160089** | 420 |
| 6260232 | **7160097** | 420 |
| 6261079 | **7162022** | 420 |
| 6261130 | **7162049** | 420 |
| 6261192 | **7162057** | 420 |
| 6261253 | **7162073** | 420 |
| 6261314 | **7162081** | 420 |
| 6261796 | **7164017** | 476 |
| 6261857 | **7164025** | 476 |
| 6261918 | **7164033** | 476 |
| 6261970 | **7164041** | 476 |
| 6262038 | **7164068** | 476 |
| | price/m | |
| 6562756 | **7186363** | 415 |
| 6023912 | **7186395** | 430 |
| 6693627 | **7186400** | 472 |
| 6693641 | **7186404** | 472 |
| 6696925 | **7186406** | 472 |
| 6696932 | **7186408** | 472 |
| 6696949 | **7186410** | 472 |
| 6696956 | **7186412** | 472 |
| 6696963 | **7186414** | 472 |
| 6696970 | **7186416** | 472 |
| | price/m | |
| 6543793 | **7188633** | 415 |
| 5020875 | **7188640** | 415 |
| 5888529 | **7189040** | 301 |
| 5888536 | **7189042** | 301 |
| 5888543 | **7189044** | 301 |
| 5888574 | **7189046** | 301 |
| 5888581 | **7189048** | 301 |
| | /pc. | |
| 6544271 | **7189192** | 475 |
| 6024643 | **7189220** | 313 |
| 5313120 | **7189251** | 417 |
| 5313137 | **7189253** | 416 |
| 5652267 | **7189256** | 199 |
| | price/m | |
| 6029259 | **7189980** | 149 |
| 6017539 | **7190099** | 138 |
| 5763413 | **7190101** | 138 |
| 6017713 | **7190103** | 138 |
| 6440115 | **7190107** | 138 |
| 5978015 | **7190109** | 138 |
| 5978022 | **7190111** | 138 |
| 5943686 | **7190495** | 157 |
| 6029020 | **7190498** | 230 |
| | /pc. | |
| 6014958 | **7190522** | 159 |
| 5625148 | **7190590** | 432 |

| GTIN | Item no. | Page |
|---|---|---|
| | /pc. | |
| 5751038 | **7191923** | 558 |
| 5896456 | **7191931** | 558 |
| 5624172 | **7192503** | 595 |
| 5894605 | **7193509** | 593 |
| 5882664 | **7193511** | 593 |
| | /pc. | |
| 5389613 | **7193516** | 593 |
| 5864752 | **7193524** | 593 |
| 5389620 | **7193527** | 593 |
| 5731696 | **7193547** | 596 |
| 5763505 | **7193560** | 609 |
| 6954438 | **7193580** | 609 |
| 6176175 | **7193661** | 602 |
| 5624042 | **7195351** | 231 |
| 5624066 | **7195355** | 231 |
| 6204533 | **7195362** | 231 |
| 5958208 | **7195589** | 169 |
| | price/m | |
| 6055630 | **7196008** | 227 |
| 5384724 | **7196011** | 227 |
| 5738275 | **7196012** | 226 |
| 5652403 | **7196013** | 228 |
| 5851202 | **7196014** | 228 |
| 6055692 | **7196016** | 227 |
| 5872665 | **7196019** | 227 |
| 5872504 | **7196025** | 223 |
| 5893998 | **7196026** | 227 |
| 6712182 | **7196034** | 244 |
| 5624097 | **7196035** | 244 |
| 6695515 | **7196039** | 244 |
| | price/m | |
| 5652427 | **7196045** | 244 |
| 5624127 | **7196061** | 244 |
| 6696307 | **7196105** | 233 |
| | /pc. | |
| 6028412 | **7196107** | 233 |
| 5858669 | **7196110** | 233 |
| 6067510 | **7196113** | 233 |
| 6696321 | **7196115** | 233 |
| 6696390 | **7196122** | 233 |
| | /pc. | |
| 6028627 | **7196178** | 234 |
| 5978039 | **7196188** | 165 |
| 5862314 | **7196190** | 165 |
| 5385806 | **7196286** | 164 |
| 5385851 | **7196290** | 115 |
| 5958857 | **7215702** | 509 |
| 5958864 | **7215706** | 509 |
| 5958871 | **7215709** | 509 |
| 5958901 | **7215713** | 509 |
| 5958918 | **7215716** | 509 |
| 5958925 | **7215719** | 509 |
| 5958932 | **7215726** | 509 |
| 5958963 | **7215730** | 509 |

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04



Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/100 | |
| 2064 GTP 2M | 5044291 | 1115057 | 743 |
| 2064 GTPL 2M | 5044352 | 1115065 | 743 |
| | | | |
| 2069 15 1.5 FS | 6413010 | 1115460 | 742 |
| 2069 15 1.5 GTP | 5044833 | 1115421 | 742 |
| 2069 15 1.5 GTPL | 5044895 | 1115456 | 742 |
| 2069 15 2.2 GTP | 5045076 | 1115553 | 742 |
| 2069 15 2.2 GTPL | 5045199 | 1115596 | 743 |
| 2069 1M FS | 5045557 | 1115677 | 741 |
| 2069 1M GTP | 5045618 | 1115685 | 741 |
| 2069 2M BK | 5045250 | 1115618 | 741 |
| 2069 2M FS | 5045311 | 1115626 | 741 |
| 2069 2M GTP | 5045434 | 1115650 | 741 |
| 2069 2M GTPL | 5045496 | 1115669 | 742 |
| 2069 3M BK | 5871453 | 1115855 | 741 |
| 2069 L 2M FS | 5045977 | 1115804 | 742 |
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| 2084 K M6 | 5307150 | 3463060 | 523 |
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| 2990 M6 G | 5306979 | 3462862 | 523 |
| 2990 M8 G | 5307037 | 3462889 | 523 |
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| 325 100 FT | 5422716 | 5327105 | 670 |
| 325 130 FT | 5422778 | 5327121 | 670 |
| 325 70 FT | 5422594 | 5327075 | 670 |
| 325 80 FT | 5422655 | 5327083 | 670 |
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| 328 2 | 5126850 | 1408046 | 670 |
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| 946 3 G | 5413950 | 5301033 | 523 |
| | | | |
| 947 3 G | 5414551 | 5302021 | 523 |
| | | | |
| 948 TG6 | 5513315 | 3453820 | 520 |
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| 957 2,0x100 G S | 5784739 | 5303203 | 744 |
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| 957 3 G | 5414971 | 5303206 | 522 |
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| ACMHB M10x30 ZL | 6488919 | 1148068 | 722 |
| ACMHB M10x60 A4 | 6488995 | 1148092 | 722 |
| ACMHB M10x60 ZL | 6488926 | 1148072 | 722 |
| ACMHB M6x30 A4 | 6488933 | 1148076 | 722 |
| ACMHB M6x30 ZL | 6488865 | 1148056 | 722 |
| ACMHB M8x30 A4 | 6488940 | 1148080 | 722 |
| ACMHB M8x30 ZL | 6488872 | 1148060 | 722 |
| ACMHB M8x60 A4 | 6488971 | 1148084 | 722 |
| ACMHB M8x60 ZL | 6488889 | 1148064 | 722 |
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| ACMSN M10 ZL | 6488858 | 1147064 | 719 |
| ACMSN M6 A4 | 6488780 | 1147076 | 719 |
| ACMSN M6 ZL | 6488810 | 1147056 | 719 |
| ACMSN M8 A4 | 6488797 | 1147080 | 719 |
| ACMSN M8 ZL | 6488827 | 1147060 | 719 |
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| AH 35 WS A2 | 6055913 | 6065477 | 312 |
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| AHB 100 D5 A4 | 6257973 | 6066514 | 539 |
| AHB 100 D5 FT | 5834878 | 6066510 | 519 |
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| AHB 100 FT | 6881413 | 6363903 | 651 |
| AHB 14 314 FT | 6690596 | 6363884 | 652 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| AHB 150 FT | 6148219 | 6363907 | 651 |
| AHB 200 FT | 6881475 | 6363911 | 651 |
| AHB 22 314 FT | 6690602 | 6363886 | 653 |
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| AHB 300 FT | 6881536 | 6363938 | 651 |
| AHB 400 FT | 6881598 | 6363946 | 651 |
| | | /100 pc. | |
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| AHB 50 D4 FT | 6935895 | 6066505 | 519 |
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| | | | |
| | | /pc. | |
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| | | | |
| AKL 25 E | 6702718 | 6049276 | 263 |
| AKL 25 E DM | 7275860 | 6049275 | 264 |
| AKL 25 Z | 6702732 | 6049277 | 263 |
| | | | |
| | | /100 pc. | |
| AML3518P0100SOFT | 5490210 | 1119834 | 690 |
| AML3518P0200FT | 5060673 | 1119696 | 702 |
| AML3518P0200SOFT | 5490159 | 1119826 | 690 |
| AML3518P0300FT | 5060611 | 1119693 | 702 |
| AML3518P0400FT | 5060376 | 1119690 | 702 |
| AML3518P0500FT | 5060253 | 1119687 | 702 |
| AML3518P0600FT | 5059417 | 1119684 | 702 |
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| AML3518P1000FS | 6470730 | 1119646 | 691 |
| AML3518P1000FT | 5053958 | 1119672 | 691 |
| AML3518P2000A2 | 5047650 | 1119702 | 691 |
| AML3518P2000FS | 5864318 | 1119648 | 691 |
| AML3518P2000FT | 5047599 | 1119656 | 691 |
| AML3518P6000A2 | 5047711 | 1119729 | 691 |
| AML3518UP2000A2 | 6470723 | 1112007 | 692 |
| AML3518UP2000BK | 5046936 | 1118021 | 700 |
| AML3518UP2000FS | 5047179 | 1118226 | 698 |
| AML3518UP2000FT | 5047056 | 1118129 | 698 |
| AML3518UP6000FT | 5047117 | 1118153 | 698 |
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| AMS3518UP6000FT | 5043454 | 1112244 | 700 |
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| | | price/m | |
| ARS BKR | 6147885 | 6049259 | 261 |
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| | | /pc. | |
| AS 15 11 FT | 6207732 | 6421326 | 576 |
| AS 15 16 FT | 6207794 | 6421334 | 576 |
| AS 15 21 FT | 6207855 | 6421350 | 576 |
| AS 15 31 FT | 6207916 | 6421385 | 576 |
| AS 15 41 FT | 6207978 | 6421423 | 576 |
| AS 15 51 FT | 6208036 | 6421466 | 576 |
| AS 15 61 FT | 6208098 | 6421490 | 576 |
| | | | |
| AS 30 11 FT | 5873228 | 6419370 | 577 |
| AS 30 16 FT | 5873235 | 6419376 | 577 |
| AS 30 21 FT | 5873242 | 6419382 | 577 |
| AS 30 31 FT | 5873259 | 6419388 | 577 |
| AS 30 41 FT | 5873266 | 6419394 | 577 |
| AS 30 51 FT | 5873273 | 6419400 | 577 |
| AS 30 56 FT | 5873280 | 6419406 | 577 |
| AS 30 61 FT | 5873297 | 6419412 | 577 |
| AS 30 71 FT | 5873303 | 6419418 | 577 |
| | | | |
| AS 55 101 FT | 5873211 | 6419340 | 578 |
| AS 55 21 FT | 5872917 | 6419286 | 578 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| AS 55 31 FT | 5872924 | 6419292 | 578 |
| AS 55 41 FT | 5872931 | 6419298 | 578 |
| AS 55 51 FT | 5873150 | 6419304 | 578 |
| AS 55 56 FT | 5873167 | 6419310 | 578 |
| AS 55 61 FT | 5873174 | 6419316 | 578 |
| AS 55 71 FT | 5873181 | 6419322 | 578 |
| AS 55 81 FT | 5873198 | 6419328 | 578 |
| AS 55 91 FT | 5873204 | 6419334 | 578 |
| | | | |
| ASW FT | 5696582 | 6015350 | 729 |
| | | | |
| AW 15 11 A2 | 6207558 | 6421008 | 554 |
| AW 15 11 A4 | 6817634 | 6392008 | 555 |
| AW 15 11 FT | 6207077 | 6420656 | 553 |
| AW 15 11 FT 2L | 5076773 | 6420909 | 557 |
| AW 15 16 FT | 6207138 | 6420664 | 553 |
| AW 15 16 FT 2L | 5076780 | 6420912 | 557 |
| AW 15 16 FT SO | 5751038 | 7191923 | 558 |
| AW 15 21 A2 | 6207619 | 6421024 | 554 |
| AW 15 21 A4 | 6817696 | 6392016 | 555 |
| AW 15 21 FT | 6207190 | 6420680 | 553 |
| AW 15 21 FT 2L | 5076797 | 6420915 | 557 |
| AW 15 21 VA4529 | 5911432 | 6421192 | 556 |
| AW 15 31 A2 | 6207671 | 6421032 | 554 |
| AW 15 31 A4 | 6817757 | 6392024 | 555 |
| AW 15 31 FT | 6207251 | 6420710 | 553 |
| AW 15 31 FT 2L | 5076803 | 6420918 | 557 |
| AW 15 41 A2 | 5061953 | 6421036 | 554 |
| AW 15 41 A4 | 6817818 | 6392032 | 555 |
| AW 15 41 FT | 6207312 | 6420745 | 553 |
| AW 15 41 FT 2L | 5076834 | 6420921 | 557 |
| AW 15 51 A2 | 5061960 | 6421040 | 554 |
| AW 15 51 A4 | 6817870 | 6392040 | 555 |
| AW 15 51 FT | 6207374 | 6420788 | 553 |
| AW 15 51 FT 2L | 5076841 | 6420924 | 557 |
| AW 15 51 FT SO | 5896456 | 7191931 | 558 |
| AW 15 56 FT | 6207435 | 6420796 | 553 |
| AW 15 61 A2 | 5061977 | 6421044 | 554 |
| AW 15 61 A4 | 6817931 | 6392059 | 555 |
| AW 15 61 FT | 6207497 | 6420826 | 553 |
| AW 15 61 FT 2L | 5300120 | 6420927 | 557 |
| | | | |
| AW 30 11 A2 | 6208937 | 6442803 | 563 |
| AW 30 11 A4 | 5021049 | 6443615 | 564 |
| AW 30 11 FT | 6206599 | 6419704 | 562 |
| AW 30 16 FT | 6206650 | 6419712 | 562 |
| AW 30 21 A2 | 6209057 | 6442838 | 563 |
| AW 30 21 A4 | 6349753 | 6443311 | 564 |
| AW 30 21 FT | 6206711 | 6419720 | 562 |
| AW 30 21 VA4529 | 5911647 | 6443632 | 566 |
| AW 30 26 FT | 6483556 | 6419739 | 565 |
| AW 30 31 A2 | 6209118 | 6442854 | 563 |
| AW 30 31 A4 | 6955879 | 6443621 | 564 |
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| AW 30 41 A4 | 6554478 | 6443346 | 564 |
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| AW 30 51 A4 | 5021094 | 6443625 | 564 |
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| AW 30 56 FT | 6207015 | 6419844 | 562 |
| AW 30 61 A2 | 6209293 | 6442919 | 563 |
| AW 30 61 A4 | 5021100 | 6443627 | 564 |
| AW 30 61 FT | 6206957 | 6419828 | 562 |
| AW 30 71 FT | 6483730 | 6419836 | 562 |
| | | | |
| AW 55 101 FT | 6205271 | 6418724 | 567 |
| AW 55 21 A2 | 6441433 | 6443063 | 568 |
| AW 55 21 A4 | 5912965 | 6418557 | 569 |
| AW 55 21 FT | 6204731 | 6418554 | 567 |
| AW 55 31 A2 | 6441495 | 6443067 | 568 |
| AW 55 31 A4 | 5912972 | 6418573 | 569 |
| AW 55 31 FT | 6204793 | 6418570 | 567 |
| AW 55 41 A2 | 6617111 | 6443071 | 568 |
| AW 55 41 A4 | 5912989 | 6418601 | 569 |
| AW 55 41 FT | 6204854 | 6418597 | 567 |
| AW 55 51 A2 | 6661091 | 6443075 | 568 |
| AW 55 51 A4 | 5912996 | 6418622 | 569 |
| AW 55 51 FT | 6204915 | 6418619 | 567 |
| AW 55 56 FT | 6204977 | 6418627 | 567 |
| AW 55 61 A2 | 6661152 | 6443079 | 568 |
| AW 55 61 A4 | 5913009 | 6418638 | 569 |
| AW 55 61 FT | 6205035 | 6418635 | 567 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| AW 55 71 A2 | 6661879 | 6443083 | 568 |
| AW 55 71 FT | 6205097 | 6418651 | 567 |
| AW 55 81 FT | 6205158 | 6418686 | 567 |
| AW 55 91 FT | 6205219 | 6418708 | 567 |
| | | | |
| AW 80 21 FT | 6203475 | 6417752 | 570 |
| AW 80 31 FT | 6203536 | 6417779 | 570 |
| AW 80 41 FT | 6203598 | 6417795 | 570 |
| AW 80 51 FT | 6203659 | 6417817 | 570 |
| AW 80 61 FT | 6203710 | 6417833 | 570 |
| AW 80 71 FT | 6203772 | 6417868 | 570 |
| AW 80 81 FT | 6203833 | 6417884 | 570 |
| | | | |
| AW G 15 11 FT | 6662470 | 6420606 | 559 |
| AW G 15 16 FT | 6079155 | 6420607 | 559 |
| AW G 15 21 FT | 6662531 | 6420608 | 559 |
| AW G 15 31 FT | 6662593 | 6420610 | 559 |
| AW G 15 41 FT | 6662654 | 6420612 | 559 |
| AW G 15 51 FT | 6662715 | 6420614 | 559 |
| AW G 15 61 FT | 6662777 | 6420616 | 559 |
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| AWG 15 11 A4 | 5706304 | 6420642 | 561 |
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| AWG 15 21 A4 | 5706311 | 6420644 | 561 |
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| AWG 15 61 A2 | 5058540 | 6420640 | 560 |
| AWG 15 61 A4 | 5706359 | 6420652 | 561 |
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| AWSS 21 A4 | 6803934 | 6417971 | 572 |
| | | /pc. | |
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| AWSS 31 A4 | 6803941 | 6417973 | 572 |
| | | /pc. | |
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| AWSS 41 A4 | 6803958 | 6417975 | 572 |
| | | /pc. | |
| AWSS 41 FT | 6340392 | 6417914 | 571 |
| AWSS 51 A2 | 6803910 | 6417947 | 572 |
| AWSS 51 A4 | 6803965 | 6417977 | 572 |
| | | /pc. | |
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| AWSS 61 A4 | 6803972 | 6417979 | 572 |
| | | /pc. | |
| AWSS 61 FT | 6340514 | 6417922 | 571 |
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| AWSS 81 FT | 6340637 | 6417930 | 571 |
| AWSS 91 FT | 6340699 | 6417934 | 571 |
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| AWV 21 FT | 6206292 | 6419534 | 573 |
| AWV 31 FT | 6206353 | 6419550 | 573 |
| AWV 41 FT | 6206414 | 6419577 | 573 |
| AWV 51 FT | 6206476 | 6419593 | 573 |
| AWV 61 FT | 6206537 | 6419615 | 573 |
| | | | |
| | | price/m | |
| AZDG 100 FS | 6407415 | 6080979 | 540 |
| AZDG 50 FS | 6407354 | 6080960 | 540 |
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| AZDMD 100 A2 | 6069613 | 6080294 | 540 |
| AZDMD 100 DD | 6406098 | 6080235 | 518 |
| AZDMD 100 DD | 6406098 | 6080235 | 540 |
| AZDMD 100 FS | 6069552 | 6080227 | 518 |
| AZDMD 100 FS | 6069552 | 6080227 | 540 |
| AZDMD 150 A2 | 5811329 | 6080870 | 540 |
| AZDMD 150 FS | 5811305 | 6080860 | 540 |
| AZDMD 150 FT | 5811312 | 6080865 | 540 |
| AZDMD 200 A2 | 5811374 | 6080895 | 540 |
| AZDMD 200 FS | 5811350 | 6080885 | 540 |
| AZDMD 200 FT | 5811367 | 6080890 | 540 |
| AZDMD 300 FS | 5811381 | 6080910 | 540 |
| AZDMD 300 FT | 5811428 | 6080915 | 540 |
| AZDMD 50 A2 | 6069491 | 6080197 | 540 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| AZDMD 50 DD | 6405916 | 6080154 | 518 |
| AZDMD 50 DD | 6405916 | 6080154 | 540 |
| AZDMD 50 FS | 6069439 | 6080138 | 518 |
| AZDMD 50 FS | 6069439 | 6080138 | 540 |
| | | /pc. | |
| AZDR 100 A2 | 6064694 | 6065317 | 541 |
| AZDR 100 FT | 6064397 | 6065104 | 541 |
| AZDR 50 A2 | 6064632 | 6065309 | 541 |
| AZDR 50 FT | 6064458 | 6065112 | 541 |
| | | price/m | |
| AZDU 100 DD | 6084197 | 6080239 | 540 |
| AZDU 50 DD | 6084135 | 6080158 | 540 |
| AZK 050 A2 | 6069071 | 6075150 | 532 |
| AZK 050 A4 | 5866213 | 6075152 | 532 |
| AZK 050 FS | 6068951 | 6075096 | 532 |
| AZK 050 FT | 6069019 | 6075142 | 532 |
| AZK 050 FTK KGR | 6424207 | 6076924 | 764 |
| AZK 100 A2 | 6069255 | 6075304 | 534 |
| AZK 100 FS | 6069132 | 6075231 | 533 |
| AZK 100 FT | 6069194 | 6075258 | 533 |
| AZK 100 FTK KGR | 6424245 | 6076926 | 765 |
| AZK 150 A2 | 5811145 | 6075330 | 536 |
| AZK 150 FS | 5811121 | 6075320 | 535 |
| AZK 150 FT | 5811138 | 6075325 | 535 |
| AZK 200 A2 | 5811206 | 6075355 | 537 |
| AZK 200 FS | 5811183 | 6075345 | 535 |
| AZK 200 FT | 5811190 | 6075350 | 535 |
| AZK 300 FS | 5811244 | 6075370 | 536 |
| AZK 300 FT | 5811251 | 6075375 | 536 |
| AZK A 050 FT | 6069316 | 6076149 | 533 |
| AZK A 100 FT | 6069378 | 6076246 | 534 |
| | | /pc. | |
| BC GR 4.8 A2 | 5980698 | 6016665 | 389 |
| BC SGR A2 | 6434152 | 6016668 | 387 |
| | | /100 pc. | |
| BCC 2-4 D11 | 6503391 | 1483907 | 664 |
| BCC 2-4 D14 | 6503407 | 1483911 | 664 |
| BCC 2-4 D18 | 6503438 | 1483915 | 664 |
| BCC 2-4 D24 | 6503445 | 1483919 | 664 |
| BCC 2-4 D30 | 6503452 | 1483923 | 664 |
| BCC 2-4 D5,5 | 6503339 | 1483901 | 664 |
| BCC 2-4 D7 | 6503346 | 1483903 | 664 |
| BCC 2-4 D9 | 6503384 | 1483905 | 664 |
| BCC 4-7 D11 | 6503513 | 1483937 | 664 |
| BCC 4-7 D14 | 6503520 | 1483941 | 664 |
| BCC 4-7 D18 | 6503551 | 1483945 | 664 |
| BCC 4-7 D24 | 6503568 | 1483951 | 664 |
| BCC 4-7 D30 | 6503575 | 1483955 | 664 |
| BCC 4-7 D5,5 | 6503469 | 1483931 | 664 |
| BCC 4-7 D7 | 6503490 | 1483933 | 664 |
| BCC 4-7 D9 | 6503506 | 1483935 | 664 |
| BCC 8-12 D11 | 6503629 | 1483965 | 664 |
| BCC 8-12 D14 | 6503636 | 1483969 | 664 |
| BCC 8-12 D18 | 6503643 | 1483973 | 664 |
| BCC 8-12 D24 | 6503674 | 1483977 | 664 |
| BCC 8-12 D30 | 6503681 | 1483981 | 664 |
| BCC 8-12 D5,5 | 6503735 | 1483960 | 664 |
| BCC 8-12 D7 | 6503582 | 1483961 | 664 |
| BCC 8-12 D9 | 6503612 | 1483963 | 664 |
| BCCA | 6503131 | 1483999 | 665 |
| BCCF 8-9 D20 | 6503698 | 1483985 | 666 |
| BCCT 14-20 L240 | 6502448 | 1483651 | 663 |
| BCCT 14-20 L365 | 6502479 | 1483653 | 663 |
| BCCT 2-4 L240 | 6502370 | 1483641 | 663 |
| BCCT 4-8 L240 | 6502387 | 1483643 | 663 |
| BCCT 4-8 L365 | 6502417 | 1483645 | 663 |
| BCCT 8-14 L240 | 6502424 | 1483647 | 663 |
| BCCT 8-14 L365 | 6502431 | 1483649 | 663 |
| BCHPC 14-20 D20 | 6502714 | 1483711 | 664 |
| BCHPC 14-20 D25 | 6502721 | 1483713 | 664 |
| BCHPC 14-20 D32 | 6502738 | 1483715 | 664 |
| BCHPC 14-20 D40 | 6502745 | 1483717 | 664 |
| BCHPC 2-4 D20 | 6502561 | 1483681 | 664 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /100 pc. | |
| BCHPC 2-4 D25 | 6502592 | 1483683 | 664 |
| BCHPC 2-4 D32 | 6502608 | 1483685 | 664 |
| BCHPC 4-8 D20 | 6502615 | 1483687 | 664 |
| BCHPC 4-8 D25 | 6502622 | 1483689 | 664 |
| BCHPC 4-8 D32 | 6502653 | 1483691 | 664 |
| BCHPC 4-8 D40 | 6502660 | 1483693 | 664 |
| BCHPC 8-14 D20 | 6502677 | 1483701 | 664 |
| BCHPC 8-14 D25 | 6502684 | 1483703 | 664 |
| BCHPC 8-14 D32 | 6502691 | 1483705 | 664 |
| BCHPC 8-14 D40 | 6502707 | 1483707 | 664 |
| BCHPO 14-20 D20 | 6503278 | 1483841 | 663 |
| BCHPO 14-20 D25 | 6503285 | 1483843 | 663 |
| BCHPO 14-20 D32 | 6503322 | 1483845 | 663 |
| BCHPO 2-4 D20 | 6503148 | 1483811 | 663 |
| BCHPO 2-4 D25 | 6503155 | 1483813 | 663 |
| BCHPO 2-4 D32 | 6503162 | 1483815 | 663 |
| BCHPO 4-8 D20 | 6503193 | 1483821 | 663 |
| BCHPO 4-8 D25 | 6503209 | 1483823 | 663 |
| BCHPO 4-8 D32 | 6503216 | 1483825 | 663 |
| BCHPO 8-14 D20 | 6503223 | 1483831 | 663 |
| BCHPO 8-14 D25 | 6503254 | 1483833 | 663 |
| BCHPO 8-14 D32 | 6503261 | 1483835 | 663 |
| BCTR 4-8 M10 | 6502547 | 1483669 | 663 |
| BCTR 4-8 M6 | 6502486 | 1483661 | 663 |
| BCTR 4-8 M8 | 6502509 | 1483665 | 663 |
| BCTR 8-14 M10 | 6502554 | 1483671 | 663 |
| BCTR 8-14 M6 | 6502493 | 1483663 | 663 |
| BCTR 8-14 M8 | 6502530 | 1483667 | 663 |
| BCUIT 14-20 M6 | 6502318 | 1483625 | 662 |
| BCUIT 3-7 M6 | 6502295 | 1483621 | 662 |
| BCUIT 8-12,5 M6 | 6502301 | 1483623 | 662 |
| BCUTB 14-20 M6 | 6502363 | 1483635 | 662 |
| BCUTB 3-7 M6 | 6502325 | 1483631 | 662 |
| BCUTB 8-12,5 M6 | 6502356 | 1483633 | 662 |
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| BCVH 8-14 | 6502189 | 1483605 | 662 |
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| BCVPC 3-7 D40 | 6502929 | 1483787 | 663 |
| BCVPC 8-12,5 D20 | 6502950 | 1483791 | 663 |
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| BCVPC 8-12,5 D32 | 6502974 | 1483795 | 663 |
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| BCVPO 14-20 D20 | 6502851 | 1483771 | 664 |
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| BCVTB 2-4 M6 | 6502202 | 1483611 | 662 |
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| BEB 100 A4 | 5866336 | 7084141 | 260 |
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| BEB 150 FS | 6231133 | 7083157 | 259 |
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| BEB 200 A4 | 5866343 | 7084143 | 260 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| BEB 200 DD | 6982943 | 7083626 | 259 |
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| BEB 500 FS | 6231379 | 7083505 | 259 |
| BEB 550 DD | 6100996 | 7083640 | 259 |
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| BFK 166 58 20 A2 | 6049806 | 6003877 | 680 |
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| BFKD 153 44 FT | 6609215 | 6003885 | 681 |
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| | | price/m | |
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| | | | |
| BKRS 1010 FS | 6341863 | 6062000 | 198 |
| BKRS 1020 FS | 6341870 | 6062002 | 198 |
| BKRS 1030 FS | 6341887 | 6062004 | 198 |
| BKRS 1040 FS | 6341894 | 6062006 | 198 |
| BKRS 1050 FS | 6341900 | 6062008 | 198 |
| BKRS 1060 FS | 6341917 | 6062010 | 198 |
| BKRS 1110 FS | 6147007 | 6061981 | 229 |
| BKRS 1120 FS | 6147038 | 6061983 | 229 |
| BKRS 1130 FS | 6147045 | 6061985 | 229 |
| BKRS 1140 FS | 6147052 | 6061987 | 229 |
| BKRS 1150 FS | 6147069 | 6061989 | 229 |
| BKRS 1160 FS | 6147090 | 6061991 | 229 |
| | | | |
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| BW 12 A4 | 7352301 | 6019506 | 622 |
| BW 12 FT | 7352226 | 6019500 | 621 |
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| BW 64 32 FT | 6701629 | 6019682 | 606 |
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| | | /pc. | |
| BW 80 55 FT | 6014538 | 6019528 | 508 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| BW 80 55 FT | 6014538 | 6019528 | 620 |
| | | | |
| BW US 3/5 FT | 6653652 | 6019534 | 588 |
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| BW US 7 FT | 6653645 | 6019532 | 605 |
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| CGR 50 200 A2 | 6012794 | 6016251 | 355 |
| CGR 50 200 FT | 6014057 | 6017444 | 354 |
| CGR 50 300 A2 | 5891352 | 6016253 | 355 |
| CGR 50 300 FT | 6295692 | 6017452 | 354 |
| CGR 50 400 A2 | 5891369 | 6016255 | 355 |
| CGR 50 400 FT | 6014118 | 6017460 | 354 |
| CGR 50 50 A2 | 6012671 | 6016200 | 355 |
| CGR 50 50 FT | 6013937 | 6017428 | 354 |
| | | | |
| | | /pc. | |
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| CK 40 30 FT | 6356058 | 6008232 | 507 |
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| CKD 40 60 FT | 5612766 | 6008269 | 507 |
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| CKD 40 80 FT | 5612780 | 6008285 | 507 |
| CKD 40 90 FT | 5612797 | 6008293 | 507 |
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| CL20SN M6 ZL | 6488650 | 1147016 | 719 |
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| CM3015P0300FT | 5037033 | 1109790 | 689 |
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| CM3015P0500FT | 5037156 | 1109812 | 689 |
| CM3015P0600FT | 5037217 | 1109820 | 689 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /100 pc. | |
| CM3015P0700FT | 5037279 | 1109839 | 689 |
| CM3015P0800FT | 5037330 | 1109847 | 689 |
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| CM3015P2000FS | 5053897 | 1110002 | 689 |
| CM3015P2000FT | 5041771 | 1109871 | 689 |
| CM3015UP2000FS | 5042075 | 1110004 | 690 |
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| CSTR M10 G | 6202270 | 6410103 | 521 |
| CSTR M12 G | 6202331 | 6410111 | 521 |
| CSTR M8 G | 6202218 | 6410081 | 521 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
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| | | price/m | |
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| DBKR 500 DD | 7304829 | 6049144 | 259 |
| | | price/m | |
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| | | /pc. | |
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| DBL 50 200 A4 | 6937516 | 6015632 | 658 |
| DBL 50 200 FS | 6746231 | 6015522 | 658 |
| DBL 50 200 FT | 6785537 | 6015581 | 658 |
| DBL 50 300 A4 | 6937578 | 6015633 | 658 |
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| DBL 50 400 A4 | 6937639 | 6015634 | 658 |
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| DBL 50 600 FS | 5239161 | 6015555 | 658 |
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| DBV 110 100 F DD | 5850960 | 7131556 | 257 |
| DBV 110 100 F FS | 5712046 | 7131030 | 257 |
| DBV 110 150 F DD | 5995777 | 7131554 | 257 |
| DBV 110 150 F FS | 5995753 | 7131032 | 257 |
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| DBV 110 550 F FS | 5712091 | 7131050 | 257 |
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| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| DBV 110 600 F FS | 5995760 | 7131052 | 257 |
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| DBV 200 S A4 | 5886495 | 7130922 | 255 |
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| DBV 200 S FS | 5047582 | 7130813 | 253 |
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| DBV 300 S A4 | 5886518 | 7130924 | 255 |
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| DBV 400 S A4 | 5886525 | 7130926 | 255 |
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| DBV 500 S A4 | 5886556 | 7130928 | 255 |
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| DBV 60 100 F A4 | 5886310 | 7130972 | 256 |
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| DBV 60 100 F FS | 5047681 | 7130852 | 256 |
| DBV 60 150 F DD | 5874553 | 7131634 | 253 |
| DBV 60 150 F DD | 5874553 | 7131634 | 256 |
| DBV 60 150 F FS | 5047698 | 7130856 | 253 |
| DBV 60 150 F FS | 5047698 | 7130856 | 256 |
| DBV 60 200 F A2 | 5886259 | 7130954 | 256 |
| DBV 60 200 F A4 | 5886358 | 7130974 | 256 |
| DBV 60 200 F DD | 5874560 | 7131636 | 253 |
| DBV 60 200 F DD | 5874560 | 7131636 | 256 |
| DBV 60 200 F FS | 5047704 | 7130860 | 253 |
| DBV 60 200 F FS | 5047704 | 7130860 | 256 |
| DBV 60 300 F A2 | 5886266 | 7130956 | 256 |
| DBV 60 300 F A4 | 5886372 | 7130976 | 256 |
| DBV 60 300 F DD | 5874607 | 7131640 | 253 |
| DBV 60 300 F DD | 5874607 | 7131640 | 256 |
| DBV 60 300 F FS | 5047735 | 7130864 | 253 |
| DBV 60 300 F FS | 5047735 | 7130864 | 256 |
| DBV 60 400 F A2 | 5886273 | 7130958 | 256 |
| DBV 60 400 F A4 | 5886426 | 7130978 | 256 |
| DBV 60 400 F DD | 5874614 | 7131644 | 253 |
| DBV 60 400 F DD | 5874614 | 7131644 | 256 |
| DBV 60 400 F FS | 5047742 | 7130868 | 253 |
| DBV 60 400 F FS | 5047742 | 7130868 | 256 |
| DBV 60 500 F A2 | 5886280 | 7130960 | 256 |
| DBV 60 500 F A4 | 5886433 | 7130980 | 256 |
| DBV 60 500 F DD | 5874621 | 7131648 | 253 |
| DBV 60 500 F DD | 5874621 | 7131648 | 256 |
| DBV 60 500 F FS | 5047759 | 7130872 | 253 |
| DBV 60 500 F FS | 5047759 | 7130872 | 256 |
| DBV 60 600 F A2 | 5886297 | 7130962 | 256 |
| DBV 60 600 F A4 | 5886440 | 7130982 | 256 |
| DBV 60 600 F DD | 5874669 | 7131652 | 253 |
| DBV 60 600 F DD | 5874669 | 7131652 | 256 |
| DBV 60 600 F FS | 5047766 | 7130876 | 253 |
| DBV 60 600 F FS | 5047766 | 7130876 | 256 |
| DBV 600 S A2 | 5886419 | 7130915 | 255 |
| DBV 600 S A4 | 5886563 | 7130930 | 255 |
| DBV 600 S DD | 5874416 | 7131527 | 253 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| DBV 600 S DD | 5874416 | 7131527 | 254 |
| DBV 600 S FS | 5047643 | 7130829 | 253 |
| DBV 600 S FS | 5047643 | 7130829 | 254 |
| DBV 85 100 F DD | 5874676 | 7131672 | 256 |
| DBV 85 100 F FS | 5711964 | 7130990 | 253 |
| DBV 85 100 F FS | 5711964 | 7130990 | 256 |
| DBV 85 200 F DD | 5874683 | 7131676 | 256 |
| DBV 85 200 F FS | 5711995 | 7130994 | 253 |
| DBV 85 200 F FS | 5711995 | 7130994 | 256 |
| DBV 85 300 F DD | 5874713 | 7131680 | 256 |
| DBV 85 300 F FS | 5712008 | 7130998 | 253 |
| DBV 85 300 F FS | 5712008 | 7130998 | 256 |
| DBV 85 400 F DD | 5874720 | 7131684 | 256 |
| DBV 85 400 F FS | 5712015 | 7131002 | 253 |
| DBV 85 400 F FS | 5712015 | 7131002 | 256 |
| DBV 85 500 F DD | 5874737 | 7131688 | 256 |
| DBV 85 500 F FS | 5712022 | 7131006 | 253 |
| DBV 85 500 F FS | 5712022 | 7131006 | 256 |
| DBV 85 600 F DD | 5874744 | 7131692 | 256 |
| DBV 85 600 F FS | 5712039 | 7131010 | 253 |
| DBV 85 600 F FS | 5712039 | 7131010 | 256 |
| DBV FS | 5373070 | 6356055 | 521 |
| DBV FS | 5373070 | 6356055 | 658 |
| | | price/m | |
| DF BKR10 FS AL | 6146826 | 6049181 | 259 |
| DF BKR20 FS AL | 6146857 | 6049183 | 259 |
| DF BKR30 FS AL | 6146864 | 6049185 | 259 |
| DF BKR40 FS AL | 6146871 | 6049187 | 259 |
| DF BKR50 FS AL | 6146888 | 6049189 | 259 |
| DF BKR60 FS AL | 6146918 | 6049191 | 259 |
| DFAA 050 FS | 6687695 | 7132110 | 249 |
| DFAA 050 FT | 6688685 | 7132115 | 249 |
| | | /pc. | |
| DFAA 100 A2 | 6257058 | 7136900 | 250 |
| DFAA 100 A4 | 6801961 | 7136902 | 250 |
| | | /pc. | |
| DFAA 100 DD | 6252190 | 7131305 | 249 |
| DFAA 100 FS | 6249015 | 7128428 | 249 |
| DFAA 150 FS | 6526154 | 7128436 | 249 |
| DFAA 200 A2 | 6257119 | 7136919 | 250 |
| DFAA 200 A4 | 5866800 | 7136921 | 250 |
| DFAA 200 DD | 6252251 | 7131321 | 249 |
| DFAA 200 FS | 6249077 | 7128444 | 249 |
| DFAA 300 A2 | 6257171 | 7136927 | 250 |
| DFAA 300 A4 | 5866817 | 7136929 | 250 |
| DFAA 300 DD | 6252312 | 7131348 | 249 |
| DFAA 300 FS | 6249138 | 7128460 | 249 |
| DFAA 400 A2 | 6257232 | 7136935 | 251 |
| DFAA 400 A4 | 5866824 | 7136937 | 251 |
| DFAA 400 DD | 6252374 | 7131356 | 249 |
| DFAA 400 FS | 6249190 | 7128487 | 249 |
| DFAA 500 A2 | 6257294 | 7136943 | 251 |
| DFAA 500 A4 | 5866862 | 7136944 | 251 |
| DFAA 500 DD | 6252435 | 7131364 | 249 |
| DFAA 500 FS | 6249251 | 7128509 | 249 |
| DFAA 550 DD | 6252497 | 7131372 | 249 |
| DFAA 550 FS | 6249312 | 7128517 | 249 |
| DFAA 600 A2 | 6257355 | 7136978 | 251 |
| DFAA 600 A4 | 5866879 | 7136980 | 251 |
| DFAA 600 DD | 6252558 | 7131380 | 249 |
| DFAA 600 FS | 6249374 | 7128525 | 249 |
| DFAA BKR 100 FS | 6860753 | 6049400 | 251 |
| DFAA BKR 200 FS | 6860760 | 6049402 | 251 |
| DFAA BKR 300 FS | 6860791 | 6049404 | 251 |
| DFAA BKR 400 FS | 6860807 | 6049406 | 251 |
| DFAA BKR 500 FS | 6860814 | 6049408 | 251 |
| DFAA BKR 600 FS | 6860821 | 6049410 | 251 |
| | | /pc. | |
| DFAAM 100 A2 | 5930723 | 7138720 | 250 |
| DFAAM 100 A4 | 5930815 | 7138740 | 250 |
| DFAAM 100 DD | 5930655 | 7138680 | 250 |
| DFAAM 100 FS | 5930587 | 7138640 | 250 |
| DFAAM 150 DD | 5930662 | 7138682 | 250 |
| DFAAM 150 FS | 5930594 | 7138642 | 250 |
| DFAAM 200 A2 | 5930761 | 7138724 | 250 |
| DFAAM 200 A4 | 5930839 | 7138744 | 250 |
| DFAAM 200 DD | 5930679 | 7138684 | 250 |
| DFAAM 200 FS | 5930600 | 7138644 | 250 |
| DFAAM 300 A2 | 5930778 | 7138726 | 250 |
| DFAAM 300 A4 | 5930846 | 7138746 | 250 |
| DFAAM 300 DD | 5930686 | 7138686 | 250 |

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04



Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| DFAAM 300 FS | 5930617 | 7138646 | 250 |
| DFAAM 400 A2 | 5930785 | 7138728 | 250 |
| DFAAM 400 A4 | 5930853 | 7138748 | 250 |
| DFAAM 400 DD | 5930693 | 7138688 | 250 |
| DFAAM 400 FS | 5930624 | 7138648 | 250 |
| DFAAM 500 A2 | 5930792 | 7138730 | 250 |
| DFAAM 500 A4 | 5930860 | 7138750 | 250 |
| DFAAM 500 DD | 5930709 | 7138690 | 250 |
| DFAAM 500 FS | 5930631 | 7138650 | 250 |
| DFAAM 600 A2 | 5930808 | 7138732 | 250 |
| DFAAM 600 A4 | 5930877 | 7138752 | 250 |
| DFAAM 600 DD | 5930716 | 7138692 | 250 |
| DFAAM 600 FS | 5930648 | 7138652 | 250 |
| | | | |
| DFB 45 100 DD | 6252671 | 7131828 | 245 |
| DFB 45 100 FS | 6249855 | 7128819 | 245 |
| DFB 45 100 FT | 6923595 | 7132002 | 257 |
| DFB 45 150 DD | 6027125 | 7131836 | 245 |
| DFB 45 150 FS | 6526338 | 7128827 | 245 |
| DFB 45 200 DD | 6252732 | 7131844 | 245 |
| DFB 45 200 FS | 6249916 | 7128835 | 245 |
| DFB 45 200 FT | 6923656 | 7132004 | 257 |
| DFB 45 300 DD | 6252794 | 7131860 | 245 |
| DFB 45 300 FS | 6249978 | 7128851 | 245 |
| DFB 45 300 FT | 6923717 | 7132006 | 257 |
| DFB 45 400 DD | 6252855 | 7131879 | 245 |
| DFB 45 400 FS | 6250035 | 7128886 | 245 |
| DFB 45 500 DD | 6252916 | 7131887 | 245 |
| DFB 45 500 FS | 6250097 | 7128908 | 245 |
| DFB 45 550 DD | 6252978 | 7131895 | 245 |
| DFB 45 550 FS | 6250158 | 7128916 | 245 |
| DFB 45 600 DD | 6253036 | 7131909 | 245 |
| DFB 45 600 FS | 6250219 | 7128924 | 245 |
| DFB 90 050 FS | 6687688 | 7131780 | 246 |
| DFB 90 050 FT | 6688678 | 7131785 | 246 |
| | | /pc. | |
| DFB 90 100 A2 | 6254897 | 7134908 | 247 |
| DFB 90 100 A4 | 5866633 | 7134982 | 247 |
| DFB 90 100 DD | 6251230 | 7130511 | 246 |
| DFB 90 100 FS | 6250752 | 7129610 | 246 |
| DFB 90 100 FT | 6924073 | 7132022 | 257 |
| DFB 90 150 DD | 6015436 | 7130538 | 246 |
| DFB 90 150 FS | 6526451 | 7129629 | 246 |
| DFB 90 200 A2 | 6254958 | 7134916 | 247 |
| DFB 90 200 A4 | 5866640 | 7134988 | 247 |
| DFB 90 200 DD | 6251292 | 7130546 | 246 |
| DFB 90 200 FS | 6250813 | 7129637 | 246 |
| DFB 90 200 FT | 6924134 | 7132024 | 257 |
| DFB 90 300 A2 | 6255016 | 7134924 | 247 |
| DFB 90 300 A4 | 5866657 | 7134990 | 247 |
| DFB 90 300 DD | 6251353 | 7130562 | 246 |
| DFB 90 300 FS | 6250875 | 7129653 | 246 |
| DFB 90 300 FT | 6924196 | 7132026 | 257 |
| DFB 90 400 A2 | 6255078 | 7134932 | 247 |
| DFB 90 400 A4 | 5866664 | 7134992 | 247 |
| DFB 90 400 DD | 6251414 | 7130589 | 247 |
| DFB 90 400 FS | 6250936 | 7129688 | 247 |
| DFB 90 500 A2 | 6255139 | 7134940 | 247 |
| DFB 90 500 A4 | 5866671 | 7134994 | 247 |
| DFB 90 500 DD | 6251476 | 7130600 | 247 |
| DFB 90 500 FS | 6250998 | 7129718 | 247 |
| DFB 90 550 DD | 6251537 | 7130619 | 247 |
| DFB 90 550 FS | 6251056 | 7129726 | 247 |
| DFB 90 600 A2 | 6255191 | 7134967 | 247 |
| DFB 90 600 A4 | 5866688 | 7134996 | 247 |
| DFB 90 600 DD | 6251599 | 7130627 | 247 |
| DFB 90 600 FS | 6251117 | 7129734 | 247 |
| | | | |
| DFB90 BKR 100 FS | 6860678 | 6049372 | 258 |
| DFB90 BKR 200 FS | 6860685 | 6049374 | 258 |
| DFB90 BKR 300 FS | 6860692 | 6049376 | 258 |
| DFB90 BKR 400 FS | 6860708 | 6049378 | 258 |
| DFB90 BKR 500 FS | 6860739 | 6049380 | 258 |
| DFB90 BKR 600 FS | 6860746 | 6049382 | 258 |
| | | | |
| | | /pc. | |
| DFBM 45 100 DD | 5928836 | 7138400 | 246 |
| DFBM 45 100 FS | 5928751 | 7138360 | 246 |
| DFBM 45 150 DD | 5928843 | 7138402 | 246 |
| DFBM 45 150 FS | 5928768 | 7138362 | 246 |
| DFBM 45 200 DD | 5928867 | 7138404 | 246 |
| DFBM 45 200 FS | 5928775 | 7138364 | 246 |
| DFBM 45 300 DD | 5928874 | 7138406 | 246 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| DFBM 45 300 FS | 5928782 | 7138366 | 246 |
| DFBM 45 400 DD | 5928881 | 7138408 | 246 |
| DFBM 45 400 FS | 5928799 | 7138368 | 246 |
| DFBM 45 500 DD | 5928904 | 7138410 | 246 |
| DFBM 45 500 FS | 5928812 | 7138370 | 246 |
| DFBM 45 600 DD | 5928911 | 7138412 | 246 |
| DFBM 45 600 FS | 5928829 | 7138372 | 246 |
| DFBM 90 100 A2 | 5929260 | 7138570 | 248 |
| DFBM 90 100 A4 | 5929338 | 7138590 | 248 |
| DFBM 90 100 DD | 5929192 | 7138540 | 248 |
| DFBM 90 100 FS | 5929093 | 7138500 | 248 |
| DFBM 90 150 DD | 5929208 | 7138542 | 248 |
| DFBM 90 150 FS | 5929109 | 7138502 | 248 |
| DFBM 90 200 A2 | 5929284 | 7138574 | 248 |
| DFBM 90 200 A4 | 5929352 | 7138594 | 248 |
| DFBM 90 200 DD | 5929215 | 7138544 | 248 |
| DFBM 90 200 FS | 5929116 | 7138504 | 248 |
| DFBM 90 300 A2 | 5929291 | 7138576 | 248 |
| DFBM 90 300 A4 | 5929369 | 7138596 | 248 |
| DFBM 90 300 DD | 5929222 | 7138546 | 248 |
| DFBM 90 300 FS | 5929123 | 7138506 | 248 |
| DFBM 90 400 A2 | 5929307 | 7138578 | 248 |
| DFBM 90 400 A4 | 5929376 | 7138598 | 248 |
| DFBM 90 400 DD | 5929239 | 7138548 | 248 |
| DFBM 90 400 FS | 5929130 | 7138508 | 248 |
| DFBM 90 500 A2 | 5929314 | 7138580 | 248 |
| DFBM 90 500 A4 | 5929383 | 7138600 | 248 |
| DFBM 90 500 DD | 5929246 | 7138550 | 248 |
| DFBM 90 500 FS | 5929147 | 7138510 | 248 |
| DFBM 90 600 A2 | 5929321 | 7138582 | 248 |
| DFBM 90 600 DD | 5929253 | 7138552 | 248 |
| DFBM 90 600 FS | 5929154 | 7138512 | 248 |
| DFBMV 100 A2 | 6040902 | 6040800 | 249 |
| DFBMV 100 A4 | 6041138 | 6040820 | 249 |
| DFBMV 100 DD | 6040728 | 6040780 | 248 |
| DFBMV 100 FS | 6040544 | 6040760 | 248 |
| DFBMV 150 FS | 6040551 | 6040762 | 248 |
| DFBMV 200 A2 | 6040988 | 6040804 | 249 |
| DFBMV 200 A4 | 6041152 | 6040824 | 249 |
| DFBMV 200 DD | 6040797 | 6040784 | 248 |
| DFBMV 200 FS | 6040599 | 6040764 | 248 |
| DFBMV 300 A2 | 6041015 | 6040806 | 249 |
| DFBMV 300 A4 | 6041220 | 6040826 | 249 |
| DFBMV 300 DD | 6040834 | 6040786 | 248 |
| DFBMV 300 FS | 6040605 | 6040766 | 248 |
| DFBMV 400 A2 | 6041022 | 6040808 | 249 |
| DFBMV 400 A4 | 6041251 | 6040828 | 249 |
| DFBMV 400 DD | 6040841 | 6040788 | 248 |
| DFBMV 400 FS | 6040629 | 6040768 | 248 |
| DFBMV 500 A2 | 6041039 | 6040810 | 249 |
| DFBMV 500 A4 | 6041268 | 6040830 | 249 |
| DFBMV 500 DD | 6040865 | 6040790 | 248 |
| DFBMV 500 FS | 6040674 | 6040770 | 248 |
| DFBMV 600 A2 | 6041107 | 6040812 | 249 |
| DFBMV 600 A4 | 6041275 | 6040832 | 249 |
| DFBMV 600 DD | 6040896 | 6040792 | 248 |
| DFBMV 600 FS | 6040711 | 6040772 | 248 |
| | | | |
| DFK 100 DD | 6251711 | 7131089 | 254 |
| DFK 100 DD | 6251711 | 7131089 | 258 |
| DFK 100 FS | 6249435 | 7128614 | 254 |
| DFK 100 FS | 6249435 | 7128614 | 258 |
| DFK 150 FS | 6845651 | 7128622 | 254 |
| DFK 150 FS | 6845651 | 7128622 | 258 |
| DFK 200 DD | 6251773 | 7131100 | 254 |
| DFK 200 DD | 6251773 | 7131100 | 258 |
| DFK 200 FS | 6249497 | 7128630 | 254 |
| DFK 200 FS | 6249497 | 7128630 | 258 |
| DFK 300 DD | 6251834 | 7131127 | 254 |
| DFK 300 DD | 6251834 | 7131127 | 258 |
| DFK 300 FS | 6249558 | 7128657 | 254 |
| DFK 300 FS | 6249558 | 7128657 | 258 |
| DFK 400 DD | 6251896 | 7131143 | 254 |
| DFK 400 DD | 6251896 | 7131143 | 258 |
| DFK 400 FS | 6249619 | 7128673 | 254 |
| DFK 400 FS | 6249619 | 7128673 | 258 |
| DFK 500 DD | 6251957 | 7131178 | 254 |
| DFK 500 DD | 6251957 | 7131178 | 258 |
| DFK 500 FS | 6249671 | 7128703 | 254 |
| DFK 500 FS | 6249671 | 7128703 | 258 |
| DFK 600 DD | 6252077 | 7131194 | 254 |
| DFK 600 DD | 6252077 | 7131194 | 258 |
| DFK 600 FS | 6249794 | 7128738 | 254 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| DFK 600 FS | 6249794 | 7128738 | 258 |
| | | | |
| DFKM 100 DD | 5931324 | 7138970 | 252 |
| DFKM 100 FS | 5931256 | 7138930 | 252 |
| DFKM 150 FS | 5931263 | 7138932 | 252 |
| DFKM 200 DD | 5931362 | 7138974 | 252 |
| DFKM 200 FS | 5931270 | 7138934 | 252 |
| DFKM 300 DD | 5931379 | 7138976 | 252 |
| DFKM 300 FS | 5931287 | 7138936 | 252 |
| DFKM 400 DD | 5931386 | 7138978 | 252 |
| DFKM 400 FS | 5931294 | 7138938 | 252 |
| DFKM 500 DD | 5931393 | 7138980 | 252 |
| DFKM 500 FS | 5931300 | 7138940 | 252 |
| DFKM 600 DD | 5931409 | 7138982 | 252 |
| DFKM 600 FS | 5931317 | 7138942 | 252 |
| | | | |
| DFT 100 DD | 6250332 | 7129319 | 251 |
| DFT 100 FS | 6248599 | 7128215 | 251 |
| DFT 150 DD | 6015313 | 7129327 | 251 |
| DFT 150 FS | 6526031 | 7128223 | 251 |
| DFT 200 DD | 6250394 | 7129335 | 251 |
| DFT 200 FS | 6248650 | 7128231 | 251 |
| DFT 300 DD | 6250455 | 7129351 | 251 |
| DFT 300 FS | 6248711 | 7128266 | 251 |
| DFT 400 DD | 6250516 | 7129386 | 251 |
| DFT 400 FS | 6248773 | 7128282 | 251 |
| DFT 500 DD | 6250578 | 7129408 | 251 |
| DFT 500 FS | 6248834 | 7128304 | 251 |
| DFT 550 DD | 6250639 | 7129416 | 251 |
| DFT 600 DD | 6250691 | 7129424 | 251 |
| DFT 600 FS | 6248957 | 7128320 | 251 |
| | | | |
| DFTM 100 DD | 5930952 | 7138830 | 252 |
| DFTM 100 FS | 5930884 | 7138790 | 252 |
| DFTM 150 DD | 5930969 | 7138832 | 252 |
| DFTM 150 FS | 5930891 | 7138792 | 252 |
| DFTM 200 DD | 5931003 | 7138834 | 252 |
| DFTM 200 FS | 5930907 | 7138794 | 252 |
| DFTM 300 DD | 5931010 | 7138836 | 252 |
| DFTM 300 FS | 5930914 | 7138796 | 252 |
| DFTM 400 DD | 5931027 | 7138838 | 252 |
| DFTM 400 FS | 5930921 | 7138798 | 252 |
| DFTM 500 DD | 5931058 | 7138840 | 252 |
| DFTM 500 FS | 5930938 | 7138800 | 252 |
| DFTM 600 A4 | 5931249 | 7138892 | 252 |
| DFTM 600 DD | 5931065 | 7138842 | 252 |
| DFTM 600 FS | 5930945 | 7138802 | 252 |
| | | | |
| DGRR 100 A2 | 6687206 | 6001862 | 378 |
| DGRR 100 FS | 6687121 | 6001842 | 378 |
| DGRR 100 FT | 6687268 | 6001822 | 378 |
| DGRR 150 A2 | 6687213 | 6001864 | 378 |
| DGRR 150 FS | 6687138 | 6001844 | 378 |
| DGRR 150 FT | 6687275 | 6001824 | 378 |
| DGRR 200 A2 | 6687848 | 6001866 | 378 |
| DGRR 200 FS | 6687145 | 6001846 | 378 |
| DGRR 200 FT | 6687282 | 6001826 | 378 |
| DGRR 300 A2 | 6687220 | 6001868 | 378 |
| DGRR 300 FS | 6687152 | 6001848 | 378 |
| DGRR 300 FT | 6687299 | 6001828 | 378 |
| DGRR 400 A2 | 6687237 | 6001870 | 378 |
| DGRR 400 FS | 6687169 | 6001850 | 378 |
| DGRR 400 FT | 6687305 | 6001830 | 378 |
| DGRR 50 A2 | 6687190 | 6001860 | 378 |
| DGRR 50 FS | 6687114 | 6001840 | 378 |
| DGRR 50 FT | 6687251 | 6001820 | 378 |
| DGRR 500 A2 | 6687855 | 6001872 | 378 |
| DGRR 500 FS | 6687176 | 6001852 | 378 |
| DGRR 500 FT | 6687312 | 6001832 | 378 |
| DGRR 600 A2 | 6687862 | 6001874 | 378 |
| DGRR 600 FS | 6687183 | 6001854 | 378 |
| DGRR 600 FT | 6687329 | 6001834 | 378 |
| | | | |
| DH DBKR FS | 6672271 | 6049285 | 262 |
| | | | |
| | | /100 pc. | |
| DIN440 9 F | 6480012 | 6408710 | 504 |
| | | | |
| | | /pc. | |
| DK DBKR G | 6619030 | 6049280 | 262 |
| DK DRLU A2 | 6692347 | 6052810 | 242 |
| DK DRLU A2 | 6692347 | 6052810 | 481 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| DKS 610 FS | 6069736 | 6085016 | 154 |
| DKS 610 FT | 6070091 | 6085326 | 153 |
| DKS 620 FS | 6069798 | 6085032 | 154 |
| DKS 620 FT | 6070152 | 6085342 | 153 |
| DKS 630 FS | 6069859 | 6085059 | 154 |
| DKS 630 FT | 6070213 | 6085369 | 153 |
| DKS 640 A4 | 5020998 | 6085675 | 155 |
| DKS 640 FS | 6069910 | 6085202 | 156 |
| DKS 640 FT | 6070275 | 6085512 | 153 |
| DKS 650 FS | 6069972 | 6085229 | 156 |
| DKS 650 FT | 6070336 | 6085539 | 153 |
| DKS 660 FS | 6070039 | 6085245 | 154 |
| DKS 660 FT | 6070398 | 6085555 | 153 |
| DKS 810 FT | 6071173 | 6086470 | 191 |
| DKS 820 FT | 6071234 | 6086497 | 190 |
| DKS 830 FT | 6071296 | 6086519 | 191 |
| DKS 840 FT | 6071357 | 6086659 | 191 |
| DKS 850 FT | 6071418 | 6086675 | 191 |
| DKS 860 FT | 6071470 | 6086691 | 191 |
| | | | |
| | | /100 pc. | |
| DKU A2 | 6441372 | 6065600 | 243 |
| DKU A2 | 6441372 | 6065600 | 481 |
| | | | |
| | | price/m | |
| DMFR 200 FT | 6952397 | 6083150 | 244 |
| DMFR 300 FT | 6952458 | 6083152 | 244 |
| DMFR 400 FT | 6952519 | 6083154 | 244 |
| | | | |
| DRL 075 FS | 6385577 | 6052029 | 243 |
| DRL 075 FS | 6385577 | 6052029 | 479 |
| DRL 075 FS | 6385577 | 6052029 | 527 |
| DRL 1,5 100 FS | 5865834 | 6052097 | 480 |
| DRL 1,5 100 FT | 6190508 | 6051345 | 480 |
| DRL 1,5 200 FS | 5865841 | 6052208 | 480 |
| DRL 1,5 200 FT | 6190539 | 6051370 | 480 |
| DRL 1,5 300 FT | 6190546 | 6051387 | 480 |
| DRL 100 A2 | 6058877 | 6052878 | 243 |
| DRL 100 A2 | 6058877 | 6052878 | 480 |
| DRL 100 A4 | 5675679 | 6052980 | 243 |
| DRL 100 A4 | 5675679 | 6052980 | 480 |
| DRL 100 DD | 6038770 | 6052703 | 243 |
| DRL 100 DD | 6038770 | 6052703 | 479 |
| DRL 100 FS | 6057979 | 6052096 | 243 |
| DRL 100 FS | 6057979 | 6052096 | 479 |
| DRL 100 FT | 6432370 | 6051340 | 243 |
| DRL 100 FT | 6432370 | 6051340 | 479 |
| DRL 150 DD | 6038831 | 6052706 | 243 |
| DRL 150 DD | 6038831 | 6052706 | 479 |
| DRL 150 FS | 6058099 | 6052150 | 243 |
| DRL 150 FS | 6058099 | 6052150 | 479 |
| DRL 150 FT | 6432257 | 6051359 | 243 |
| DRL 150 FT SO | 6712182 | 7196034 | 244 |
| | | price/m | |
| DRL 200 A2 | 6058938 | 6052894 | 243 |
| DRL 200 A2 | 6058938 | 6052894 | 480 |
| DRL 200 A4 | 5866169 | 6052981 | 480 |
| DRL 200 A4 | 5866169 | 6052981 | 243 |
| DRL 200 DD | 6038893 | 6052709 | 243 |
| DRL 200 DD | 6038893 | 6052709 | 479 |
| DRL 200 FS | 6058150 | 6052207 | 243 |
| DRL 200 FS | 6058150 | 6052207 | 479 |
| DRL 200 FT | 6611898 | 6051367 | 479 |
| DRL 200 FT | 6611898 | 6051367 | 243 |
| DRL 200 FT SO | 5624097 | 7196035 | 244 |
| | | price/m | |
| DRL 300 A2 | 6058990 | 6052908 | 243 |
| DRL 300 A2 | 6058990 | 6052908 | 480 |
| DRL 300 A4 | 6955817 | 6052983 | 480 |
| DRL 300 A4 | 6955817 | 6052983 | 243 |
| DRL 300 DD | 6038954 | 6052712 | 243 |
| DRL 300 DD | 6038954 | 6052712 | 479 |
| DRL 300 FS | 6058273 | 6052304 | 243 |
| DRL 300 FS | 6058273 | 6052304 | 479 |
| DRL 300 FT | 6611775 | 6051383 | 479 |
| DRL 300 FT | 6611775 | 6051383 | 243 |
| DRL 400 A2 | 6059058 | 6052932 | 243 |
| DRL 400 A2 | 6059058 | 6052932 | 480 |
| DRL 400 A4 | 5870883 | 6052984 | 480 |
| DRL 400 A4 | 5870883 | 6052984 | 243 |
| DRL 400 DD | 6039012 | 6052715 | 243 |
| DRL 400 DD | 6039012 | 6052715 | 479 |
| DRL 400 FS | 6058396 | 6052401 | 243 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| DRL 400 FS | 6058396 | 6052401 | 479 |
| DRL 400 FT | 6611713 | 6051413 | 479 |
| DRL 400 FT | 6611713 | 6051413 | 243 |
| DRL 400 FT SO | 6695515 | 7196039 | 244 |
| | | price/m | |
| DRL 500 A2 | 6059119 | 6052959 | 243 |
| DRL 500 A2 | 6059119 | 6052959 | 480 |
| DRL 500 A4 | 5870890 | 6052985 | 243 |
| DRL 500 DD | 6039074 | 6052718 | 243 |
| DRL 500 DD | 6039074 | 6052718 | 479 |
| DRL 500 FS | 6058518 | 6052509 | 243 |
| DRL 500 FS | 6058518 | 6052509 | 479 |
| DRL 500 FT | 6087792 | 6051448 | 479 |
| DRL 500 FT | 6087792 | 6051448 | 243 |
| DRL 500 FT SO | 5652427 | 7196045 | 244 |
| DRL 550 DD | 6039135 | 6052721 | 243 |
| DRL 550 DD | 6039135 | 6052721 | 479 |
| DRL 550 FS | 6058631 | 6052568 | 243 |
| DRL 550 FS | 6058631 | 6052568 | 479 |
| DRL 600 A2 | 6059171 | 6052975 | 243 |
| DRL 600 A2 | 6059171 | 6052975 | 480 |
| DRL 600 A4 | 5866190 | 6052986 | 480 |
| DRL 600 A4 | 5866190 | 6052986 | 243 |
| DRL 600 DD | 6039197 | 6052724 | 243 |
| DRL 600 DD | 6039197 | 6052724 | 479 |
| DRL 600 FS | 6058754 | 6052606 | 243 |
| DRL 600 FS | 6058754 | 6052606 | 479 |
| DRL 600 FT | 6595631 | 6051472 | 479 |
| DRL 600 FT | 6595631 | 6051472 | 243 |
| DRL 600 FT SO | 5624127 | 7196061 | 244 |
| DRL FAM 230 A2 | 6219605 | 6051192 | 312 |
| DRL FAM 230 A2 | 6219605 | 6051192 | 484 |
| DRL FAM 230 A4 | 6219698 | 6051210 | 312 |
| DRL FAM 230 A4 | 6219698 | 6051210 | 484 |
| DRL FAM 230 FT | 6179824 | 6051222 | 312 |
| DRL FAM 230 FT | 6179824 | 6051222 | 484 |
| DRL FAM 230 FT | 6179824 | 6051222 | 498 |
| DRL FAM 330 A2 | 6219636 | 6051194 | 312 |
| DRL FAM 330 A2 | 6219636 | 6051194 | 484 |
| DRL FAM 330 A4 | 6219704 | 6051212 | 312 |
| DRL FAM 330 A4 | 6219704 | 6051212 | 484 |
| DRL FAM 330 FT | 6179855 | 6051224 | 312 |
| DRL FAM 330 FT | 6179855 | 6051224 | 484 |
| DRL FAM 330 FT | 6179855 | 6051224 | 498 |
| DRL FAM 430 A2 | 6219643 | 6051196 | 312 |
| DRL FAM 430 A2 | 6219643 | 6051196 | 484 |
| DRL FAM 430 A4 | 6219711 | 6051214 | 312 |
| DRL FAM 430 A4 | 6219711 | 6051214 | 484 |
| DRL FAM 430 FT | 6179862 | 6051226 | 312 |
| DRL FAM 430 FT | 6179862 | 6051226 | 484 |
| DRL FAM 430 FT | 6179862 | 6051226 | 498 |
| DRL FAM 530 A2 | 6219650 | 6051198 | 312 |
| DRL FAM 530 A2 | 6219650 | 6051198 | 484 |
| DRL FAM 530 A4 | 6219728 | 6051216 | 312 |
| DRL FAM 530 A4 | 6219728 | 6051216 | 484 |
| DRL FAM 530 FT | 6179879 | 6051228 | 312 |
| DRL FAM 530 FT | 6179879 | 6051228 | 484 |
| DRL FAM 530 FT | 6179879 | 6051228 | 498 |
| DRL FAM 630 A2 | 6219667 | 6051200 | 312 |
| DRL FAM 630 A2 | 6219667 | 6051200 | 484 |
| DRL FAM 630 A4 | 6219759 | 6051218 | 312 |
| DRL FAM 630 A4 | 6219759 | 6051218 | 484 |
| DRL FAM 630 FT | 6179886 | 6051230 | 312 |
| DRL FAM 630 FT | 6179886 | 6051230 | 484 |
| DRL FAM 630 FT | 6179886 | 6051230 | 498 |
| | | /pc. | |
| DRL H FT | 6619047 | 6065012 | 244 |
| DRL H FT | 6619047 | 6065012 | 311 |
| DRL H S A2 | 6619054 | 6065016 | 245 |
| DRL H S A2 | 6619054 | 6065016 | 310 |
| DRL H S FT | 6689675 | 6065018 | 244 |
| | | | |
| | | price/m | |
| DRLU 050 A2 | 6031818 | 6052821 | 242 |
| DRLU 050 A2 | 6031818 | 6052821 | 379 |
| DRLU 050 A2 | 6031818 | 6052821 | 481 |
| DRLU 050 DD | 6657490 | 6052640 | 242 |
| DRLU 050 DD | 6657490 | 6052640 | 379 |
| DRLU 050 DD | 6657490 | 6052640 | 480 |
| DRLU 050 FS | 6029655 | 6052056 | 242 |
| DRLU 050 FS | 6029655 | 6052056 | 379 |
| DRLU 050 FS | 6029655 | 6052056 | 480 |
| DRLU 100 A2 | 6031931 | 6052824 | 242 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| DRLU 100 A2 | 6031931 | 6052824 | 379 |
| DRLU 100 A2 | 6031931 | 6052824 | 481 |
| DRLU 100 A4 | 5021124 | 6052991 | 242 |
| DRLU 100 A4 | 5021124 | 6052991 | 379 |
| DRLU 100 A4 | 5021124 | 6052991 | 481 |
| DRLU 100 DD | 6657551 | 6052643 | 242 |
| DRLU 100 DD | 6657551 | 6052643 | 379 |
| DRLU 100 DD | 6657551 | 6052643 | 480 |
| DRLU 100 FS | 6029716 | 6052103 | 242 |
| DRLU 100 FS | 6029716 | 6052103 | 379 |
| DRLU 100 FS | 6029716 | 6052103 | 480 |
| DRLU 150 DD | 6657612 | 6052647 | 242 |
| DRLU 150 DD | 6657612 | 6052647 | 379 |
| DRLU 150 DD | 6657612 | 6052647 | 480 |
| DRLU 150 FS | 6030019 | 6052153 | 242 |
| DRLU 150 FS | 6030019 | 6052153 | 379 |
| DRLU 150 FS | 6030019 | 6052153 | 480 |
| DRLU 200 A2 | 6032051 | 6052831 | 242 |
| DRLU 200 A2 | 6032051 | 6052831 | 379 |
| DRLU 200 A2 | 6032051 | 6052831 | 481 |
| DRLU 200 A4 | 5021155 | 6052993 | 379 |
| DRLU 200 A4 | 5021155 | 6052993 | 242 |
| DRLU 200 A4 | 5021155 | 6052993 | 481 |
| DRLU 200 DD | 6657674 | 6052650 | 242 |
| DRLU 200 DD | 6657674 | 6052650 | 379 |
| DRLU 200 DD | 6657674 | 6052650 | 480 |
| DRLU 200 FS | 6030071 | 6052210 | 242 |
| DRLU 200 FS | 6030071 | 6052210 | 379 |
| DRLU 200 FS | 6030071 | 6052210 | 480 |
| DRLU 300 A2 | 6032174 | 6052834 | 242 |
| DRLU 300 A2 | 6032174 | 6052834 | 379 |
| DRLU 300 A2 | 6032174 | 6052834 | 481 |
| DRLU 300 A4 | 5021162 | 6052994 | 379 |
| DRLU 300 A4 | 5021162 | 6052994 | 242 |
| DRLU 300 A4 | 5021162 | 6052994 | 481 |
| DRLU 300 DD | 6336678 | 6052656 | 242 |
| DRLU 300 DD | 6336678 | 6052656 | 379 |
| DRLU 300 DD | 6336678 | 6052656 | 480 |
| DRLU 300 FS | 6031399 | 6052307 | 242 |
| DRLU 300 FS | 6031399 | 6052307 | 379 |
| DRLU 300 FS | 6031399 | 6052307 | 480 |
| DRLU 400 A2 | 6032235 | 6052837 | 242 |
| DRLU 400 A2 | 6032235 | 6052837 | 379 |
| DRLU 400 A2 | 6032235 | 6052837 | 481 |
| DRLU 400 A4 | 5021216 | 6052995 | 379 |
| DRLU 400 A4 | 5021216 | 6052995 | 242 |
| DRLU 400 A4 | 5021216 | 6052995 | 481 |
| DRLU 400 DD | 6336739 | 6052662 | 242 |
| DRLU 400 DD | 6336739 | 6052662 | 379 |
| DRLU 400 DD | 6336739 | 6052662 | 480 |
| DRLU 400 FS | 6031511 | 6052405 | 242 |
| DRLU 400 FS | 6031511 | 6052405 | 379 |
| DRLU 400 FS | 6031511 | 6052405 | 480 |
| DRLU 500 A2 | 6032297 | 6052841 | 242 |
| DRLU 500 A2 | 6032297 | 6052841 | 379 |
| DRLU 500 A2 | 6032297 | 6052841 | 481 |
| DRLU 500 A4 | 5021223 | 6052996 | 379 |
| DRLU 500 A4 | 5021223 | 6052996 | 242 |
| DRLU 500 A4 | 5021223 | 6052996 | 481 |
| DRLU 500 DD | 6336791 | 6052668 | 242 |
| DRLU 500 DD | 6336791 | 6052668 | 379 |
| DRLU 500 DD | 6336791 | 6052668 | 480 |
| DRLU 500 FS | 6031634 | 6052512 | 242 |
| DRLU 500 FS | 6031634 | 6052512 | 379 |
| DRLU 500 FS | 6031634 | 6052512 | 480 |
| DRLU 550 DD | 6336852 | 6052671 | 242 |
| DRLU 550 DD | 6336852 | 6052671 | 379 |
| DRLU 550 DD | 6336852 | 6052671 | 480 |
| DRLU 550 FS | 6031696 | 6052571 | 242 |
| DRLU 550 FS | 6031696 | 6052571 | 379 |
| DRLU 550 FS | 6031696 | 6052571 | 480 |
| DRLU 600 A2 | 6032358 | 6052844 | 242 |
| DRLU 600 A2 | 6032358 | 6052844 | 379 |
| DRLU 600 A2 | 6032358 | 6052844 | 481 |
| DRLU 600 A4 | 5021247 | 6052998 | 379 |
| DRLU 600 A4 | 5021247 | 6052998 | 242 |
| DRLU 600 A4 | 5021247 | 6052998 | 481 |
| DRLU 600 DD | 6336913 | 6052674 | 242 |
| DRLU 600 DD | 6336913 | 6052674 | 379 |
| DRLU 600 DD | 6336913 | 6052674 | 480 |
| DRLU 600 FS | 6031757 | 6052609 | 242 |
| DRLU 600 FS | 6031757 | 6052609 | 379 |
| DRLU 600 FS | 6031757 | 6052609 | 480 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| DS 4 A2 | 5617884 | 6416594 | 645 |
| DS 4 FS | 6202997 | 6416551 | 645 |
| DS 4 FT | 6555611 | 6416586 | 645 |
| | | | |
| DSK 25 A2 | 5706045 | 6416448 | 587 |
| DSK 25 A4 | 5618485 | 6416450 | 587 |
| DSK 25 FT | 6229277 | 6416446 | 587 |
| DSK 45 A2 | 6202751 | 6416489 | 595 |
| DSK 45 A4 | 6818235 | 6416462 | 595 |
| DSK 45 FT | 6202812 | 6416500 | 594 |
| DSK 45 FT SO | 5624172 | 7192503 | 595 |
| DSK 47 A2 | 5018346 | 6416507 | 595 |
| DSK 47 A4 | 5018407 | 6416511 | 595 |
| DSK 47 FT | 6894253 | 6416504 | 594 |
| DSK 61 A2 | 6202935 | 6416527 | 603 |
| DSK 61 A4 | 5403173 | 6416533 | 603 |
| DSK 61 FT | 6202874 | 6416519 | 603 |
| | | | |
| DST100 BKRS FS | 6640720 | 6049239 | 770 |
| DST110 BKRS FS | 6147786 | 6049256 | 263 |
| | | | |
| | | /100 pc. | |
| EKL 25 M8 | 6040438 | 6404001 | 261 |
| EKL 25 M8 | 6040438 | 6404001 | 508 |
| EKL 35 M6 ISK | 6708529 | 6404016 | 261 |
| | | | |
| | | price/m | |
| EKS 610 FS | 6542659 | 6056148 | 147 |
| EKS 610 FT | 6333677 | 6056776 | 148 |
| EKS 620 FS | 6114672 | 6056229 | 147 |
| EKS 620 FT | 6333738 | 6056792 | 148 |
| EKS 630 FS | 6389834 | 6056326 | 147 |
| EKS 630 FT | 6333790 | 6056806 | 148 |
| EKS 640 FS | 6625215 | 6056423 | 147 |
| EKS 640 FT | 6333493 | 6056970 | 148 |
| EKS 650 FS | 6625277 | 6056520 | 147 |
| EKS 650 FT | 6333554 | 6056989 | 148 |
| EKS 660 FS | 6389896 | 6056628 | 147 |
| EKS 660 FT | 6333615 | 6056997 | 148 |
| | | | |
| EKSU 620 FT SO | 6029259 | 7189980 | 149 |
| | | | |
| ELB-L 20 DD | 6029150 | 6103352 | 311 |
| ELB-L 20 DD | 6029150 | 6103352 | 477 |
| ELB-L 20 FS | 6420735 | 6103235 | 311 |
| ELB-L 20 FS | 6420735 | 6103235 | 477 |
| ELB-L 20 FT | 6289455 | 6103421 | 311 |
| ELB-L 20 FT | 6289455 | 6103421 | 477 |
| | | price/m | |
| ELB-L 30 DD | 6029198 | 6103356 | 311 |
| ELB-L 30 DD | 6029198 | 6103356 | 477 |
| ELB-L 30 FS | 6420858 | 6103251 | 311 |
| ELB-L 30 FS | 6420858 | 6103251 | 477 |
| ELB-L 30 FT | 6308651 | 6103448 | 311 |
| ELB-L 30 FT | 6308651 | 6103448 | 477 |
| | | price/m | |
| ELB-L 40 DD | 6029204 | 6103360 | 311 |
| ELB-L 40 DD | 6029204 | 6103360 | 477 |
| ELB-L 40 FS | 6420971 | 6103286 | 311 |
| ELB-L 40 FS | 6420971 | 6103286 | 477 |
| ELB-L 40 FT | 6308590 | 6103456 | 311 |
| ELB-L 40 FT | 6308590 | 6103456 | 477 |
| | | price/m | |
| ELB-L 50 DD | 6029211 | 6103364 | 311 |
| ELB-L 50 DD | 6029211 | 6103364 | 477 |
| ELB-L 50 FS | 6421091 | 6103316 | 311 |
| ELB-L 50 FS | 6421091 | 6103316 | 477 |
| ELB-L 50 FT | 6308538 | 6103464 | 311 |
| ELB-L 50 FT | 6308538 | 6103464 | 477 |
| | | price/m | |
| ELB-L 60 DD | 6029228 | 6103368 | 311 |
| ELB-L 60 DD | 6029228 | 6103368 | 477 |
| ELB-L 60 FS | 6421213 | 6103332 | 311 |
| ELB-L 60 FS | 6421213 | 6103332 | 477 |
| ELB-L 60 FT | 6308477 | 6103480 | 311 |
| ELB-L 60 FT | 6308477 | 6103480 | 477 |
| | | price/m | |
| ELB-L20 A2 | 5037354 | 6103614 | 311 |
| ELB-L20 A2 | 5037354 | 6103614 | 477 |
| ELB-L30 A2 | 5037361 | 6103618 | 311 |
| ELB-L30 A2 | 5037361 | 6103618 | 477 |
| ELB-L40 A2 | 5037378 | 6103622 | 311 |
| ELB-L40 A2 | 5037378 | 6103622 | 477 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| ELB-L50 A2 | 5037385 | 6103626 | 311 |
| ELB-L50 A2 | 5037385 | 6103626 | 477 |
| ELB-L60 A2 | 5037415 | 6103630 | 311 |
| ELB-L60 A2 | 5037415 | 6103630 | 477 |
| | | | |
| | | /100 pc. | |
| FCM F | 5438519 | 6424548 | 261 |
| | | | |
| FED 60 A2 | 5391326 | 6068859 | 158 |
| | | | |
| | | price/m | |
| FESP L 50 4 BK | 6239832 | 7104960 | 725 |
| FESP L 50 4 FT | 6987924 | 7105002 | 725 |
| FESP Q 40 5 FT | 5705529 | 7104356 | 726 |
| FESP Q 40 5 SG | 5705536 | 7104358 | 726 |
| FESP Q 50 5 BK | 6239719 | 7104367 | 726 |
| FESP QL 50 4 BK | 6239771 | 7104669 | 726 |
| | | | |
| | | /100 pc. | |
| FL 1 TG | 5150855 | 1488015 | 667 |
| | | | |
| FL 2 TG | 5150916 | 1488023 | 667 |
| | | | |
| FL 3 TG | 5150978 | 1488031 | 667 |
| | | | |
| FL1-G M8 TG | 5151036 | 1488074 | 667 |
| | | | |
| FL2-G M10 TG | 5151098 | 1488082 | 667 |
| | | | |
| FL3-G M12 TG | 5151159 | 1488090 | 667 |
| | | | |
| | | price/m | |
| FLA 5 FT | 6614110 | 6399061 | 740 |
| FLA 8 FT | 6477739 | 6399088 | 740 |
| | | | |
| | | /100 pc. | |
| FRS 8x16 F 8.8 | 6201259 | 6406963 | 504 |
| FRS 8x25 F | 6201372 | 6406998 | 504 |
| FRS 8x35 F | 6201433 | 6407048 | 504 |
| | | | |
| | | /pc. | |
| FVM 110 DD | 6054824 | 6065910 | 213 |
| FVM 115 DD | 6054831 | 6065912 | 213 |
| FVM 120 DD | 6054879 | 6065914 | 213 |
| FVM 130 DD | 6054886 | 6065916 | 213 |
| FVM 140 DD | 6054930 | 6065918 | 213 |
| FVM 150 DD | 6054947 | 6065920 | 213 |
| FVM 160 DD | 6054954 | 6065922 | 213 |
| FVM 610 DD | 6053797 | 6065710 | 113 |
| FVM 615 DD | 6053803 | 6065712 | 113 |
| FVM 620 DD | 6053858 | 6065714 | 113 |
| FVM 630 DD | 6053865 | 6065716 | 113 |
| FVM 640 A2 | 6054046 | 6065738 | 113 |
| FVM 640 DD | 6053872 | 6065718 | 113 |
| FVM 650 DD | 6053919 | 6065720 | 113 |
| FVM 660 DD | 6053926 | 6065722 | 113 |
| FVM 810 DD | 6054282 | 6065810 | 179 |
| FVM 820 DD | 6054343 | 6065814 | 179 |
| FVM 830 DD | 6054350 | 6065816 | 179 |
| FVM 840 DD | 6054398 | 6065818 | 179 |
| FVM 850 DD | 6054404 | 6065820 | 179 |
| FVM 860 DD | 6054466 | 6065822 | 179 |
| | | | |
| G 8X71 G | 6290598 | 6344569 | 597 |
| | | | |
| GEV 36 A2 | 6013333 | 6016731 | 376 |
| GEV 36 A4 | 6120253 | 6016764 | 376 |
| GEV 36 FT | 6013272 | 6016723 | 376 |
| GEV 36 G | 6307876 | 6016715 | 376 |
| | | | |
| | | price/m | |
| G-GRM 125 75 A2 | 5686491 | 6005556 | 368 |
| G-GRM 125 75 A4 | 5771647 | 6005571 | 369 |
| G-GRM 125 75 FT | 5686415 | 6005526 | 367 |
| G-GRM 125 75 G | 5686453 | 6005541 | 366 |
| G-GRM 150 100 A2 | 5686507 | 6005559 | 372 |
| G-GRM 150 100 A4 | 5771654 | 6005574 | 373 |
| G-GRM 150 100 FT | 5686422 | 6005529 | 371 |
| G-GRM 150 100 G | 5686460 | 6005544 | 370 |
| G-GRM 50 50 A2 | 5686477 | 6005550 | 360 |
| G-GRM 50 50 A4 | 5771593 | 6005565 | 361 |
| G-GRM 50 50 FT | 5686392 | 6005520 | 359 |
| G-GRM 50 50 G | 5686439 | 6005535 | 358 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| G-GRM 75 50 A2 | 5686484 | 6005553 | 364 |
| G-GRM 75 50 A4 | 5771609 | 6005568 | 365 |
| G-GRM 75 50 FT | 5686408 | 6005523 | 363 |
| G-GRM 75 50 G | 5686446 | 6005538 | 362 |
| | | /pc. | |
| G-GRM-R125 A2 | 5815860 | 6005642 | 391 |
| G-GRM-R125 FS | 5815822 | 6005612 | 391 |
| G-GRM-R150 A2 | 5815877 | 6005645 | 392 |
| G-GRM-R150 FS | 5815839 | 6005615 | 392 |
| G-GRM-R50 A2 | 5815846 | 6005635 | 391 |
| G-GRM-R50 FS | 5815808 | 6005605 | 390 |
| G-GRM-R75 A2 | 5815853 | 6005637 | 391 |
| G-GRM-R75 FS | 5815815 | 6005607 | 391 |
| G-GRM-SH 4401 | 5938699 | 6005650 | 380 |
| | | | |
| GKB 34 A2 | 5694069 | 6016676 | 382 |
| GKB 34 G | 5694052 | 6016674 | 381 |
| GKB 38 A2 | 5709473 | 6017018 | 384 |
| GKB 38 G | 5709480 | 6017020 | 384 |
| | | | |
| GKS 34 A2 | 6013456 | 6016839 | 380 |
| GKS 34 A4 | 6120437 | 6016859 | 380 |
| GKS 34 FS SP | 6120314 | 6016857 | 381 |
| GKS 34 FT | 6013395 | 6016820 | 380 |
| GKS 34 FT SP | 6120376 | 6016858 | 380 |
| GKS 34 FTK LGR | 6332533 | 6479367 | 381 |
| GKS 34 G | 7261436 | 6016855 | 380 |
| GKS 50 07 A4 | 5770947 | 6015310 | 383 |
| GKS 50 07 FS | 6421398 | 6015263 | 382 |
| GKS 50 07 FS SP | 6661930 | 6015290 | 382 |
| GKS 50 07 FT | 6785353 | 6015271 | 382 |
| GKS 50 11 A4 | 6937394 | 6015280 | 383 |
| GKS 50 11 FS | 6965847 | 6015276 | 382 |
| GKS 50 11 FT | 6965908 | 6015278 | 382 |
| GKS 50 11 OP A4 | 5887256 | 6015315 | 383 |
| | | | |
| GKT 38 A2 | 6013579 | 6017045 | 326 |
| GKT 38 A2 | 6013579 | 6017045 | 335 |
| GKT 38 A2 | 6013579 | 6017045 | 345 |
| GKT 38 A2 | 6013579 | 6017045 | 377 |
| GKT 38 A2 | 6013579 | 6017045 | 382 |
| GKT 38 A4 | 6120499 | 6017092 | 326 |
| GKT 38 A4 | 6120499 | 6017092 | 335 |
| GKT 38 A4 | 6120499 | 6017092 | 345 |
| GKT 38 A4 | 6120499 | 6017092 | 377 |
| GKT 38 A4 | 6120499 | 6017092 | 382 |
| GKT 38 FT | 6013630 | 6017061 | 326 |
| GKT 38 FT | 6013630 | 6017061 | 335 |
| GKT 38 FT | 6013630 | 6017061 | 345 |
| GKT 38 FT | 6013630 | 6017061 | 377 |
| GKT 38 FT | 6013630 | 6017061 | 382 |
| GKT 38 G | 6307937 | 6017037 | 325 |
| GKT 38 G | 6307937 | 6017037 | 334 |
| GKT 38 G | 6307937 | 6017037 | 344 |
| GKT 38 G | 6307937 | 6017037 | 377 |
| GKT 38 G | 6307937 | 6017037 | 382 |
| | | | |
| GMA M10 FS | 6421510 | 6015247 | 655 |
| GMA M10 FT | 6942619 | 6015255 | 655 |
| GMA M6 FS | 6421695 | 6015220 | 655 |
| GMA M6 FT | 5649786 | 6015224 | 655 |
| GMA M8 FS | 6421572 | 6015239 | 655 |
| GMA M8 FT | 5928737 | 6015243 | 655 |
| | | | |
| | | /100 pc. | |
| GMS 1 VP A2 | 5804895 | 1124683 | 733 |
| GMS 1 VP A2 | 5804895 | 1124683 | 733 |
| GMS 1 VP A4 | 5805137 | 1124723 | 733 |
| GMS 1 VP FT | 5486015 | 1124643 | 732 |
| | | /pc. | |
| GMS 170 A4 | 6952090 | 6015418 | 654 |
| GMS 170 FS | 6940875 | 6015400 | 654 |
| | | /100 pc. | |
| GMS 2 VP A2 | 5804901 | 1124685 | 733 |
| GMS 2 VP A4 | 5805144 | 1124725 | 733 |
| GMS 2 VP FT | 5486022 | 1124645 | 733 |
| GMS 2 VW 90 A2 | 5804994 | 1124699 | 738 |
| GMS 2 VW 90 A2 | 5804994 | 1124699 | 738 |
| GMS 2 VW 90 A4 | 5805236 | 1124739 | 738 |
| GMS 2 VW 90 FT | 5486091 | 1124659 | 738 |
| | | /pc. | |
| GMS 270 A4 | 6952151 | 6015419 | 654 |
| GMS 270 FS | 6940936 | 6015402 | 654 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /100 pc. | |
| GMS 3 O 4121 A2 | 5805076 | 1124711 | 737 |
| GMS 3 O 4121 A4 | 5805298 | 1124751 | 737 |
| GMS 3 O 4121 FT | 5486152 | 1124671 | 737 |
| GMS 3 O 4141 A2 | 5805083 | 1124713 | 737 |
| GMS 3 O 4141 A4 | 5805304 | 1124753 | 737 |
| GMS 3 O 4141 FT | 5486169 | 1124673 | 736 |
| GMS 3 VP A2 | 5804918 | 1124687 | 733 |
| GMS 3 VP A2 | 5804918 | 1124687 | 734 |
| GMS 3 VP A4 | 5805175 | 1124727 | 734 |
| GMS 3 VP FT | 5486039 | 1124647 | 734 |
| GMS 3 VP L A2 | 5804949 | 1124693 | 735 |
| GMS 3 VP L A4 | 5805205 | 1124733 | 735 |
| GMS 3 VP L FT | 5486060 | 1124653 | 735 |
| GMS 3 VW 45 A2 | 5805052 | 1124707 | 737 |
| GMS 3 VW 45 A4 | 5805274 | 1124747 | 737 |
| GMS 3 VW 45 FT | 5486138 | 1124667 | 737 |
| GMS 3 VW 90 A2 | 5805007 | 1124701 | 739 |
| GMS 3 VW 90 A2 | 5805007 | 1124701 | 739 |
| GMS 3 VW 90 A4 | 5805243 | 1124741 | 739 |
| GMS 3 VW 90 FT | 5486107 | 1124661 | 739 |
| | | /pc. | |
| GMS 370 A4 | 6952212 | 6015420 | 654 |
| GMS 370 FS | 6940998 | 6015404 | 654 |
| | | /100 pc. | |
| GMS 4 VP A2 | 5804925 | 1124689 | 734 |
| GMS 4 VP A4 | 5805182 | 1124729 | 734 |
| GMS 4 VP FT | 5486046 | 1124649 | 734 |
| GMS 4 VP T A2 | 5804956 | 1124695 | 736 |
| GMS 4 VP T A4 | 5805212 | 1124735 | 736 |
| GMS 4 VP T FT | 5486077 | 1124655 | 736 |
| GMS 4 VW 45 A2 | 5805069 | 1124709 | 738 |
| GMS 4 VW 45 A4 | 5805281 | 1124749 | 738 |
| GMS 4 VW 45 FT | 5486145 | 1124669 | 738 |
| GMS 4 VW 90 A2 | 5805014 | 1124703 | 739 |
| GMS 4 VW 90 A2 | 5805014 | 1124703 | 740 |
| GMS 4 VW 90 A4 | 5805250 | 1124743 | 740 |
| GMS 4 VW 90 FT | 5486114 | 1124663 | 739 |
| | | /pc. | |
| GMS 470 A4 | 6952274 | 6015421 | 654 |
| GMS 470 FS | 6941056 | 6015406 | 654 |
| | | /100 pc. | |
| GMS 5 VP A2 | 5804932 | 1124691 | 735 |
| GMS 5 VP A4 | 5805199 | 1124731 | 735 |
| GMS 5 VP FT | 5486053 | 1124651 | 734 |
| GMS 5 VP X A2 | 5804963 | 1124697 | 735 |
| GMS 5 VP X A4 | 5805229 | 1124737 | 735 |
| GMS 5 VP X FT | 5486084 | 1124657 | 735 |
| | | /pc. | |
| GMS 570 A4 | 6952335 | 6015422 | 654 |
| GMS 570 FS | 6941117 | 6015408 | 654 |
| | | /100 pc. | |
| GMS 6 KD A2 | 6559831 | 1124796 | 740 |
| GMS 6 KD A4 | 6559848 | 1124798 | 740 |
| GMS 6 KD FT | 6559824 | 1124792 | 740 |
| | | | |
| | | /pc. | |
| GP 15 28 FT | 6296354 | 6357008 | 760 |
| | | | |
| GP 31 28 FT | 6296415 | 6357016 | 761 |
| | | | |
| GR BS | 6784974 | 6017698 | 388 |
| | | | |
| | | /100 pc. | |
| GR KS 3.9 OR | 5872887 | 6003750 | 384 |
| GR KS 4.8 OR | 5872894 | 6003754 | 384 |
| | | | |
| | | /pc. | |
| GRB 90 110 FT | 6002054 | 6002307 | 345 |
| GRB 90 110 G | 5456230 | 6002370 | 345 |
| GRB 90 115 FT | 6027361 | 6002311 | 345 |
| GRB 90 115 G | 5456247 | 6002372 | 345 |
| GRB 90 120 FT | 6002115 | 6002315 | 345 |
| GRB 90 120 G | 5456254 | 6002374 | 345 |
| GRB 90 130 FT | 6002177 | 6002323 | 345 |
| GRB 90 130 G | 5456261 | 6002376 | 345 |
| GRB 90 140 FT | 6002238 | 6002331 | 345 |
| GRB 90 140 G | 5456278 | 6002378 | 345 |
| GRB 90 145 G | 5456285 | 6002380 | 345 |
| | | /pc. | |
| GRB 90 150 FT | 6002290 | 6002358 | 345 |
| GRB 90 150 G | 5456292 | 6002382 | 345 |
| GRB 90 160 FT | 6002351 | 6002366 | 345 |
| GRB 90 160 G | 5456308 | 6002384 | 345 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| GRB 90 510 FT | 6001699 | 6002218 | 335 |
| GRB 90 510 G | 6352630 | 6001920 | 335 |
| GRB 90 515 FT | 6027248 | 6002222 | 335 |
| GRB 90 515 G | 6624799 | 6001998 | 335 |
| GRB 90 520 FT | 6001750 | 6002226 | 335 |
| GRB 90 520 G | 6352692 | 6001939 | 335 |
| GRB 90 530 FT | 6001811 | 6002234 | 335 |
| GRB 90 530 G | 6352753 | 6001947 | 335 |
| GRB 90 540 FT | 6001873 | 6002242 | 335 |
| GRB 90 540 G | 6352814 | 6001955 | 335 |
| GRB 90 550 FT | 6001934 | 6002250 | 335 |
| GRB 90 550 G | 6352876 | 6001963 | 335 |
| GRB 90 560 FT | 6001996 | 6002269 | 335 |
| GRB 90 560 G | 6352937 | 6001971 | 335 |
| | | price/m | |
| GRM 105 100 A2 | 5149620 | 6002451 | 342 |
| GRM 105 100 A4 | 5874904 | 6002475 | 343 |
| GRM 105 100 FT | 6021239 | 6002431 | 341 |
| GRM 105 100 G | 6020270 | 6002402 | 340 |
| GRM 105 150 A2 | 5422624 | 6002455 | 342 |
| GRM 105 150 A4 | 5874911 | 6002476 | 343 |
| GRM 105 150 FT | 6021352 | 6002433 | 341 |
| GRM 105 150 G | 6020393 | 6002404 | 340 |
| GRM 105 200 A2 | 5149637 | 6002457 | 342 |
| GRM 105 200 A4 | 5874928 | 6002477 | 343 |
| GRM 105 200 FT | 6021475 | 6002435 | 341 |
| GRM 105 200 G | 6020515 | 6002406 | 340 |
| GRM 105 300 A2 | 5149644 | 6002460 | 342 |
| GRM 105 300 A4 | 5874959 | 6002479 | 343 |
| GRM 105 300 FT | 6021598 | 6002437 | 341 |
| GRM 105 300 G | 6020638 | 6002408 | 340 |
| GRM 105 400 A2 | 5149675 | 6002463 | 342 |
| GRM 105 400 A4 | 5874966 | 6002481 | 343 |
| GRM 105 400 FT | 6021710 | 6002439 | 341 |
| GRM 105 400 G | 6020751 | 6002410 | 340 |
| GRM 105 450 FT | 6021833 | 6002441 | 341 |
| GRM 105 450 G | 6020874 | 6002413 | 340 |
| GRM 105 500 A2 | 5149682 | 6002466 | 342 |
| GRM 105 500 A4 | 5874980 | 6002483 | 343 |
| GRM 105 500 FT | 6021956 | 6002443 | 341 |
| GRM 105 500 G | 6020997 | 6002415 | 340 |
| GRM 105 600 A2 | 5771586 | 6002469 | 342 |
| GRM 105 600 A4 | 5875017 | 6002485 | 343 |
| GRM 105 600 FT | 6022076 | 6002445 | 341 |
| GRM 105 600 G | 6021116 | 6002417 | 340 |
| GRM 35 100 A2 | 5467700 | 6000055 | 323 |
| GRM 35 100 A4 | 5360759 | 6000087 | 324 |
| GRM 35 100 FT | 5037200 | 6000071 | 322 |
| GRM 35 100 G | 5037149 | 6000062 | 321 |
| GRM 35 150 A2 | 5467731 | 6000056 | 323 |
| GRM 35 150 A4 | 5360766 | 6000089 | 324 |
| GRM 35 150 FT | 5037231 | 6000072 | 322 |
| GRM 35 150 G | 5037170 | 6000063 | 321 |
| GRM 35 200 A2 | 5470724 | 6000057 | 323 |
| GRM 35 200 A4 | 5360773 | 6000090 | 324 |
| GRM 35 200 FT | 5037248 | 6000073 | 322 |
| GRM 35 200 G | 5037187 | 6000064 | 321 |
| GRM 35 300 A2 | 5470731 | 6000059 | 323 |
| GRM 35 300 A4 | 5360780 | 6000091 | 324 |
| GRM 35 300 FT | 5037255 | 6000075 | 322 |
| GRM 35 300 G | 5037194 | 6000066 | 321 |
| GRM 35 50 A2 | 5650591 | 6000054 | 323 |
| GRM 35 50 A4 | 5978077 | 6000086 | 324 |
| GRM 35 50 FT | 5624820 | 6000069 | 322 |
| GRM 35 50 G | 5624813 | 6000060 | 321 |
| GRM 55 100 A2 | 6101290 | 6001072 | 330 |
| GRM 55 100 A4 | 5166016 | 6001088 | 331 |
| GRM 55 100 FT | 6814879 | 6001416 | 329 |
| GRM 55 100 G | 6858552 | 6001442 | 328 |
| GRM 55 150 A2 | 6101351 | 6001074 | 330 |
| GRM 55 150 A4 | 5166023 | 6001090 | 331 |
| GRM 55 150 FT | 6078912 | 6001418 | 329 |
| GRM 55 150 G | 6078974 | 6001444 | 328 |
| GRM 55 200 4.8 G | 5045274 | 6001447 | 328 |
| GRM 55 200 4.8FT | 5045281 | 6001421 | 329 |
| GRM 55 200 A2 | 6101412 | 6001076 | 330 |
| GRM 55 200 A4 | 5166061 | 6001091 | 331 |
| GRM 55 200 FT | 6814930 | 6001420 | 329 |
| GRM 55 200 G | 6858613 | 6001446 | 328 |
| GRM 55 300 A2 | 6101771 | 6001078 | 330 |
| GRM 55 300 A4 | 5166078 | 6001093 | 331 |
| GRM 55 300 FT | 6815050 | 6001424 | 329 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| GRM 55 300 G | 6858675 | 6001448 | 328 |
| GRM 55 400 A2 | 6102198 | 6001080 | 330 |
| GRM 55 400 A4 | 5166085 | 6001095 | 331 |
| GRM 55 400 FT | 6815111 | 6001428 | 329 |
| GRM 55 400 G | 6858736 | 6001450 | 328 |
| GRM 55 450 G | 6018185 | 6001451 | 328 |
| GRM 55 50 A2 | 5430933 | 6001070 | 330 |
| GRM 55 50 A4 | 5431046 | 6001087 | 331 |
| GRM 55 50 FT | 5430940 | 6001415 | 329 |
| GRM 55 50 G | 5430957 | 6001441 | 328 |
| GRM 55 500 A2 | 6102259 | 6001082 | 330 |
| GRM 55 500 A4 | 5166122 | 6001097 | 331 |
| GRM 55 500 FT | 6815173 | 6001432 | 329 |
| GRM 55 500 G | 6858798 | 6001452 | 328 |
| GRM 55 600 A2 | 6102310 | 6001085 | 330 |
| GRM 55 600 A4 | 5166139 | 6001099 | 331 |
| GRM 55 600 FT | 6815234 | 6001436 | 329 |
| GRM 55 600 G | 6858859 | 6001454 | 328 |
| GRM-2T 55 200 G | 5438649 | 6006395 | 333 |
| GRM-2T 55 300 G | 5438656 | 6006396 | 333 |
| GRM-2T 55 400 G | 5438663 | 6006397 | 333 |
| GRM-2T 55 500 G | 5480419 | 6006468 | 333 |
| GRM-T 55 100 G | 6150854 | 6006453 | 332 |
| GRM-T 55 200 G | 6151219 | 6006455 | 332 |
| GRM-T 55 300 G | 6151578 | 6006456 | 332 |
| GRM-T 55 400 G | 6151936 | 6006457 | 332 |
| GRM-T 55 500 G | 6152292 | 6006458 | 332 |
| | | /pc. | |
| GRS 3.9 DD | 6518111 | 6016545 | 376 |
| GRS 4.8 DD | 6517992 | 6016561 | 376 |
| GRV 245 A4 | 6054312 | 6016688 | 375 |
| GRV 245 DD | 6054251 | 6016684 | 375 |
| GRV 245 FS | 6052578 | 6016680 | 375 |
| GSV 34 A2 | 6013210 | 6016642 | 374 |
| GSV 34 A4 | 6120079 | 6016648 | 374 |
| GSV 34 FT | 6013159 | 6016634 | 374 |
| GSV 34 G | 6520510 | 6016596 | 374 |
| GUV 6 A2 | 6593880 | 6016574 | 375 |
| GUV 6 FT | 6593873 | 6016573 | 374 |
| GUV 6 G | 6593866 | 6016572 | 375 |
| GVM 200 FT | 6947898 | 6083210 | 238 |
| | | /100 pc. | |
| GVMS 4 ASV A2 | 5804888 | 1124681 | 732 |
| GVMS 4 ASV A4 | 5805120 | 1124715 | 732 |
| GVMS 4 ASV FT | 5486008 | 1124641 | 732 |
| | | price/m | |
| GW 40 80 FT | 6002955 | 6003818 | 390 |
| | | /100 pc. | |
| HS M6x13 A2 | 5463399 | 1154990 | 383 |
| HS M8x60 A4 | 5732570 | 1154975 | 383 |
| | | /pc. | |
| HTS 35 | 5477259 | 1125036 | 743 |
| | | price/m | |
| IKS 610 FS | 6168439 | 6087116 | 152 |
| IKS 620 FS | 6335053 | 6087132 | 152 |
| IKS 630 FS | 6335114 | 6087140 | 152 |
| IKS 640 FS | 6335176 | 6087159 | 152 |
| | | /pc. | |
| IS 8 100 FT | 6183197 | 6337112 | 618 |
| IS 8 110 FT | 6183258 | 6337120 | 618 |
| IS 8 120 FT | 5804550 | 6337139 | 618 |
| IS 8 130 FT | 5805038 | 6337147 | 618 |
| IS 8 140 FT | 5934936 | 6337155 | 618 |
| IS 8 150 FT | 6183494 | 6337163 | 618 |
| IS 8 160 FT | 5934752 | 6337171 | 618 |
| IS 8 170 FT | 6183616 | 6337198 | 618 |
| IS 8 180 FT | 5934875 | 6337201 | 618 |
| IS 8 190 FT | 5934219 | 6337228 | 618 |
| IS 8 200 FT | 6183791 | 6337236 | 618 |
| IS 8 250 FT | 5042761 | 6337240 | 618 |
| IS 8 30 FT | 6182770 | 6337031 | 618 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| IS 8 300 FT | 6183852 | 6337244 | 618 |
| IS 8 40 FT | 6182831 | 6337058 | 618 |
| IS 8 50 FT | 6182893 | 6337066 | 618 |
| IS 8 60 FT | 6182954 | 6337074 | 618 |
| IS 8 600 FT | 6183913 | 6337252 | 618 |
| IS 8 70 FT | 6183012 | 6337082 | 618 |
| IS 8 80 FT | 6183074 | 6337090 | 618 |
| IS 8 90 FT | 6183135 | 6337104 | 618 |
| IS 8 K 100 FT | 6196814 | 6361218 | 616 |
| IS 8 K 110 FT | 6196876 | 6361234 | 616 |
| IS 8 K 120 FT | 6196937 | 6361250 | 616 |
| IS 8 K 130 FT | 6196999 | 6361277 | 616 |
| IS 8 K 140 FT | 6197057 | 6361293 | 616 |
| IS 8 K 150 FT | 6197118 | 6361315 | 616 |
| IS 8 K 160 FT | 6197170 | 6361331 | 616 |
| IS 8 K 170 FT | 6197231 | 6361366 | 616 |
| IS 8 K 180 FT | 6197293 | 6361382 | 616 |
| IS 8 K 20 FT | 6196333 | 6361021 | 616 |
| IS 8 K 200 FT | 6197415 | 6361420 | 616 |
| IS 8 K 30 FT | 6196395 | 6361056 | 616 |
| IS 8 K 300 FT | 6472031 | 6361692 | 617 |
| IS 8 K 40 FT | 6196456 | 6361072 | 616 |
| IS 8 K 50 FT | 6196517 | 6361099 | 616 |
| IS 8 K 60 FT | 6196579 | 6361110 | 616 |
| IS 8 K 70 FT | 6196630 | 6361137 | 616 |
| IS 8 K 80 FT | 6196692 | 6361153 | 616 |
| IS 8 K 90 FT | 6196753 | 6361188 | 616 |
| IS 8 KS OR | 5668077 | 6338519 | 506 |
| IS 8 KS OR | 5668077 | 6338519 | 618 |
| | | | |
| K 11 262 A2 | 6359899 | 6016367 | 376 |
| K 11 262 FT | 6359172 | 6015107 | 375 |
| | | | |
| K 12 1818 FS | 6208876 | 6437109 | 388 |
| | | | |
| K 6 101 A2 | 6012978 | 6016391 | 659 |
| K 6 101 FS | 6190393 | 6343090 | 379 |
| K 6 101 FT | 6190454 | 6343104 | 379 |
| | | | |
| K12 1818 A2 | 6013036 | 6016421 | 389 |
| K12 1818 A4 | 6804306 | 6016425 | 389 |
| | | | |
| | | /pc. | |
| KA-ASY FT | 6346875 | 6346820 | 605 |
| KA-AW 30 FT | 6536832 | 6346715 | 574 |
| KA-AW 80 FT | 6536894 | 6346731 | 574 |
| | | | |
| KAB GR A2 | 5807155 | 6220145 | 378 |
| KAB GR FS | 5677932 | 6220139 | 377 |
| KAB GR FT | 5807124 | 6220142 | 377 |
| | | | |
| KA-E 45 FT | 6340156 | 6346758 | 574 |
| KA-EA FT | 5703938 | 6346763 | 575 |
| | | | |
| KA-SY FT | 6346813 | 6346804 | 605 |
| | | | |
| KFL G | 6702725 | 6049273 | 263 |
| | | | |
| | | /pc. | |
| KI 8 AOX FT | 6190638 | 6347088 | 620 |
| KI 8 FT | 6190515 | 6347053 | 619 |
| KI 8 NOK FT | 6190577 | 6347061 | 619 |
| KI 8 VLK FT | 6190997 | 6348157 | 619 |
| KI 8 VLP FT | 6190874 | 6347843 | 619 |
| KI 8 VQP FT | 6190935 | 6348106 | 619 |
| | | | |
| KI8 CPS5-1-300FT | 5849766 | 6347026 | 620 |
| KI8 CPS5-1-400FT | 5808541 | 6347030 | 620 |
| KI8 CPS5-1-500FT | 5849773 | 6347028 | 620 |
| KI8 CPS5-2-300FT | 5849780 | 6347036 | 620 |
| KI8 CPS5-2-400FT | 5808558 | 6347032 | 620 |
| KI8 CPS5-2-500FT | 5849810 | 6347038 | 620 |
| | | | |
| KL 20 FT | 6003013 | 6003850 | 383 |
| | | | |
| KL 30 FT | 6003075 | 6003869 | 383 |
| | | | |
| KL1 10 S FT | 6194292 | 6354106 | 676 |
| KL1 15 S FT | 6194353 | 6354114 | 676 |
| KL1 20 S FT | 6194414 | 6354122 | 676 |
| | | | |
| KLAS 15 30 FT | 6675586 | 6419015 | 575 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| KLAS 30 55 FT | 6179916 | 6419007 | 575 |
| | | | |
| KLL 32 A2 | 5849872 | 6221063 | 473 |
| KLL 32 FT | 5849841 | 6221061 | 473 |
| KLL 32 MD A2 | 6654659 | 6221065 | 475 |
| | | /pc. | |
| KLL 52 A2 | 5849896 | 6221073 | 473 |
| KLL 52 FT | 5849889 | 6221071 | 473 |
| KLL 52 MD A2 | 6654673 | 6221075 | 475 |
| | | | |
| | | /100 pc. | |
| KM M10 A4 | 5910985 | 6408930 | 383 |
| KM M12 A4 | 5911043 | 6408940 | 383 |
| KM M6 A4 | 6078615 | 6408970 | 383 |
| KM M8 A4 | 5910961 | 6408920 | 383 |
| | | | |
| KNG G | 6936199 | 6050375 | 522 |
| | | | |
| | | /pc. | |
| KS 23 35 A2 | 6013098 | 6016529 | 381 |
| KS 23 35 FT | 6012312 | 6015174 | 381 |
| | | | |
| | | /100 pc. | |
| KS GR A2 | 5694625 | 6062282 | 325 |
| KS GR A2 | 5694625 | 6062282 | 334 |
| KS GR A2 | 5694625 | 6062282 | 344 |
| KS GR A2 | 5694625 | 6062282 | 380 |
| | | /pc. | |
| KS GR LBL | 5903468 | 6017714 | 388 |
| KS GR LGR | 5848264 | 6017710 | 388 |
| KS GR OR | 5848288 | 6017712 | 388 |
| KS GR SGN | 5903475 | 6017715 | 388 |
| KS GR VKG | 5848271 | 6017711 | 388 |
| KS GR ZGB | 5848295 | 6017713 | 388 |
| | | | |
| | | /100 pc. | |
| KS KL A2 | 5694656 | 6062284 | 295 |
| KS KL A2 | 5694656 | 6062284 | 303 |
| KS KL A2 | 5694656 | 6062284 | 307 |
| KS KL A2 | 5694656 | 6062284 | 419 |
| KS KL A2 | 5694656 | 6062284 | 433 |
| KS KR A2 | 5694618 | 6062280 | 76 |
| | | | |
| KS MKS SKS FS | 6146352 | 6062300 | 158 |
| | | | |
| KS RKS FS | 6599950 | 6062296 | 158 |
| | | | |
| | | price/100 | |
| KSB 2 PVC | 6295395 | 6072909 | 259 |
| KSB 4 PVC | 6295579 | 6072895 | 259 |
| | | | |
| | | /pc. | |
| KSR-910 PE | 6065172 | 6066712 | 518 |
| KSR-910 PE | 6065172 | 6066712 | 539 |
| KSR-915 PE | 6065110 | 6066704 | 518 |
| KSR-915 PE | 6065110 | 6066704 | 539 |
| KSR-920 PE | 5811114 | 6066696 | 539 |
| KSR-925 PE | 5811084 | 6066688 | 539 |
| KSR-DR 920 PE | 6346639 | 6087965 | 519 |
| | | | |
| KTSMV 110 A2 | 5890317 | 6069134 | 211 |
| KTSMV 110 DD | 5890249 | 6069112 | 210 |
| KTSMV 110 FS | 5890157 | 6069090 | 210 |
| KTSMV 115 DD | 5890256 | 6069114 | 211 |
| KTSMV 115 FS | 5890164 | 6069092 | 211 |
| KTSMV 120 A2 | 5890331 | 6069138 | 211 |
| KTSMV 120 DD | 5890263 | 6069116 | 210 |
| KTSMV 120 FS | 5890195 | 6069094 | 210 |
| KTSMV 130 A2 | 5890348 | 6069140 | 211 |
| KTSMV 130 DD | 5890270 | 6069118 | 210 |
| KTSMV 130 FS | 5890201 | 6069096 | 210 |
| KTSMV 140 A2 | 5890355 | 6069142 | 211 |
| KTSMV 140 DD | 5890287 | 6069120 | 210 |
| KTSMV 140 FS | 5890218 | 6069098 | 210 |
| KTSMV 150 A2 | 5890362 | 6069144 | 211 |
| KTSMV 150 DD | 5890294 | 6069122 | 210 |
| KTSMV 150 FS | 5890225 | 6069100 | 210 |
| KTSMV 160 A2 | 5890379 | 6069146 | 211 |
| KTSMV 160 DD | 5890300 | 6069124 | 210 |
| KTSMV 160 FS | 5890232 | 6069102 | 210 |
| KTSMV 310 FS | 5889441 | 6068900 | 76 |
| KTSMV 320 FS | 5889489 | 6068902 | 76 |
| KTSMV 330 FS | 5889496 | 6068904 | 76 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| KTSMV 610 A2 | 5889571 | 6068958 | 110 |
| KTSMV 610 A4 | 5889649 | 6068980 | 110 |
| KTSMV 610 DD | 5890492 | 6068936 | 110 |
| KTSMV 610 FS | 5889502 | 6068914 | 110 |
| KTSMV 615 DD | 5890508 | 6068938 | 110 |
| KTSMV 615 FS | 5889519 | 6068916 | 110 |
| KTSMV 620 A2 | 5889595 | 6068962 | 110 |
| KTSMV 620 A4 | 5889663 | 6068984 | 110 |
| KTSMV 620 DD | 5890515 | 6068940 | 110 |
| KTSMV 620 FS | 5889526 | 6068918 | 110 |
| KTSMV 630 A2 | 5889601 | 6068964 | 110 |
| KTSMV 630 A4 | 5889670 | 6068986 | 110 |
| KTSMV 630 DD | 5890522 | 6068942 | 110 |
| KTSMV 630 FS | 5889533 | 6068920 | 110 |
| KTSMV 640 A2 | 5889618 | 6068966 | 110 |
| KTSMV 640 A4 | 5889687 | 6068988 | 110 |
| KTSMV 640 DD | 5890560 | 6068944 | 110 |
| KTSMV 640 FS | 5889540 | 6068922 | 110 |
| KTSMV 650 A2 | 5889625 | 6068968 | 110 |
| KTSMV 650 A4 | 5889717 | 6068990 | 110 |
| KTSMV 650 DD | 5890577 | 6068946 | 110 |
| KTSMV 650 FS | 5889557 | 6068924 | 110 |
| KTSMV 660 A2 | 5889632 | 6068970 | 110 |
| KTSMV 660 A4 | 5889724 | 6068992 | 110 |
| KTSMV 660 DD | 5890584 | 6068948 | 110 |
| KTSMV 660 FS | 5889564 | 6068926 | 110 |
| KTSMV 810 DD | 5889847 | 6069024 | 178 |
| KTSMV 810 FS | 5889731 | 6069002 | 178 |
| KTSMV 820 DD | 5889861 | 6069028 | 178 |
| KTSMV 820 FS | 5889793 | 6069006 | 178 |
| KTSMV 830 DD | 5889908 | 6069030 | 178 |
| KTSMV 830 FS | 5889809 | 6069008 | 178 |
| KTSMV 840 DD | 5889915 | 6069032 | 178 |
| KTSMV 840 FS | 5889816 | 6069010 | 178 |
| KTSMV 850 DD | 5889922 | 6069034 | 178 |
| KTSMV 850 FS | 5889823 | 6069012 | 178 |
| KTSMV 860 DD | 5889960 | 6069036 | 178 |
| KTSMV 860 FS | 5889830 | 6069014 | 178 |
| | | | |
| KTW 100 1 FT | 6409112 | 6006901 | 748 |
| KTW 100 10 FT | 6409211 | 6006910 | 757 |
| KTW 100 2 FT | 6409129 | 6006902 | 749 |
| KTW 100 3 FT | 6409136 | 6006903 | 750 |
| KTW 100 4 FT | 6409143 | 6006904 | 751 |
| KTW 100 5 FT | 6409150 | 6006905 | 752 |
| KTW 100 6 FT | 6409174 | 6006906 | 753 |
| KTW 100 7 FT | 6409181 | 6006907 | 754 |
| KTW 100 8 FT | 6409198 | 6006908 | 755 |
| KTW 100 9 FT | 6409204 | 6006909 | 756 |
| KTW 100 FT | 6440948 | 6006890 | 747 |
| | | | |
| KU 3 A2 | 5706014 | 6348876 | 588 |
| KU 3 A4 | 5706021 | 6348877 | 588 |
| KU 3 FT | 6340217 | 6348874 | 587 |
| KU 3 V A2 | 5706038 | 6348884 | 588 |
| KU 3 V FS | 5354826 | 6348881 | 588 |
| KU 3 V FT | 5354833 | 6348883 | 588 |
| | | | |
| KU 5 16 FS | 6640331 | 6344380 | 596 |
| KU 5 V A2 | 5018360 | 6348925 | 596 |
| KU 5 V A4 | 5018452 | 6348927 | 596 |
| KU 5 V FT | 6901456 | 6348920 | 596 |
| | | | |
| KU 7 AOX FT | 6191598 | 6349218 | 605 |
| KU 7 FT | 6191413 | 6349102 | 604 |
| KU 7 NOX FT | 6191352 | 6349056 | 604 |
| KU 7 VQP A2 | 6191536 | 6349196 | 604 |
| KU 7 VQP FT | 6191475 | 6349153 | 604 |
| | | | |
| KUS 5 FT | 6168910 | 6348904 | 595 |
| KUS 5 FT SO | 5731696 | 7193547 | 596 |
| KUS 5 NOK A2 | 6437832 | 6348947 | 596 |
| KUS 5 NOK FT | 6437771 | 6348939 | 595 |
| KUS 7 A2 | 6191659 | 6349277 | 604 |
| KUS 7 A4 | 6403189 | 6349279 | 604 |
| | | | |
| | | price/pair | |
| KWH 10 FT | 6194537 | 6355048 | 676 |
| KWH 15 FT | 6194599 | 6355056 | 676 |
| KWH 20 FT | 6194650 | 6355064 | 676 |
| KWH 25 FT | 6194711 | 6355072 | 676 |
| KWH 5 FT | 6194476 | 6355021 | 676 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/pair | |
| KWS 10 FT | 6194834 | 6355226 | 676 |
| KWS 15 FT | 6194896 | 6355234 | 676 |
| KWS 20 FT | 6194957 | 6355242 | 676 |
| KWS 25 FT | 6195015 | 6355250 | 676 |
| KWS 5 FT | 6194773 | 6355218 | 676 |
| | | | |
| | | /pc. | |
| LAA 1120 R3 FS | 6445486 | 6225910 | 436 |
| LAA 1120 R3 FT | 6445554 | 6225930 | 436 |
| LAA 1130 R3 FS | 6445493 | 6225912 | 436 |
| LAA 1130 R3 FT | 6445561 | 6225932 | 436 |
| LAA 1140 R3 FS | 6445509 | 6225914 | 436 |
| LAA 1140 R3 FT | 6445578 | 6225934 | 436 |
| LAA 1145 R3 FT | 6445585 | 6225936 | 436 |
| LAA 1150 R3 FS | 6445530 | 6225916 | 436 |
| LAA 1150 R3 FT | 6445592 | 6225938 | 436 |
| LAA 1160 R3 FS | 6445547 | 6225918 | 436 |
| LAA 1160 R3 FT | 6445608 | 6225940 | 436 |
| LAA 620 R3 A2 | 6567393 | 6225882 | 421 |
| LAA 620 R3 A4 | 6567461 | 6225894 | 421 |
| | | /pc. | |
| LAA 620 R3 FS | 6445387 | 6225850 | 421 |
| LAA 620 R3 FT | 6445431 | 6225870 | 421 |
| LAA 630 R3 A2 | 6567409 | 6225884 | 421 |
| LAA 630 R3 A4 | 6567478 | 6225896 | 421 |
| | | /pc. | |
| LAA 630 R3 FS | 6445394 | 6225852 | 421 |
| LAA 630 R3 FT | 6445448 | 6225872 | 421 |
| LAA 640 R3 A2 | 6567416 | 6225886 | 421 |
| LAA 640 R3 A4 | 6567485 | 6225898 | 421 |
| | | /pc. | |
| LAA 640 R3 FS | 6445400 | 6225854 | 421 |
| LAA 640 R3 FT | 6445455 | 6225874 | 421 |
| LAA 650 R3 A2 | 6567423 | 6225888 | 421 |
| LAA 650 R3 A4 | 6567515 | 6225900 | 421 |
| | | /pc. | |
| LAA 650 R3 FS | 6445417 | 6225856 | 421 |
| LAA 650 R3 FT | 6445462 | 6225876 | 421 |
| LAA 660 R3 A2 | 6567454 | 6225890 | 421 |
| LAA 660 R3 A4 | 6567522 | 6225902 | 421 |
| | | /pc. | |
| LAA 660 R3 FS | 6445424 | 6225858 | 421 |
| LAA 660 R3 FT | 6445479 | 6225878 | 421 |
| | | | |
| LAAD 1000 R3 FT | 6536528 | 6226348 | 483 |
| LAAD 1200 R3 FT | 6536559 | 6226352 | 483 |
| LAAD 200 R3 A2 | 6806195 | 6226361 | 483 |
| LAAD 200 R3 A4 | 6806249 | 6226381 | 483 |
| | | /pc. | |
| LAAD 200 R3 FS | 6536313 | 6226310 | 483 |
| LAAD 200 R3 FT | 6536399 | 6226330 | 483 |
| LAAD 300 R3 A2 | 6806201 | 6226363 | 483 |
| LAAD 300 R3 A4 | 6806256 | 6226383 | 483 |
| | | /pc. | |
| LAAD 300 R3 FS | 6536320 | 6226312 | 483 |
| LAAD 300 R3 FT | 6536405 | 6226332 | 483 |
| LAAD 400 R3 A2 | 6806218 | 6226365 | 483 |
| LAAD 400 R3 A4 | 6806263 | 6226385 | 483 |
| | | /pc. | |
| LAAD 400 R3 FS | 6536337 | 6226314 | 483 |
| LAAD 400 R3 FT | 6536436 | 6226334 | 483 |
| LAAD 450 R3 FT | 6536450 | 6226336 | 483 |
| LAAD 500 R3 A2 | 6806225 | 6226367 | 483 |
| LAAD 500 R3 A4 | 6806270 | 6226387 | 483 |
| | | /pc. | |
| LAAD 500 R3 FS | 6536344 | 6226316 | 483 |
| LAAD 500 R3 FT | 6536443 | 6226338 | 483 |
| LAAD 600 R3 A2 | 6806232 | 6226369 | 483 |
| LAAD 600 R3 A4 | 6806287 | 6226389 | 483 |
| | | /pc. | |
| LAAD 600 R3 FS | 6536375 | 6226318 | 483 |
| LAAD 600 R3 FT | 6536467 | 6226340 | 483 |
| LAAD 750 R3 FT | 6536498 | 6226342 | 483 |
| LAAD 800 R3 FT | 6536504 | 6226344 | 483 |
| LAAD 900 R3 FT | 6536511 | 6226346 | 483 |
| | | | |
| LAB 20 A2 | 6261796 | 7164017 | 476 |
| LAB 20 FT | 6163397 | 6220436 | 476 |
| LAB 30 A2 | 6261857 | 7164025 | 476 |
| LAB 30 FT | 6163458 | 6220444 | 476 |
| LAB 40 A2 | 6261918 | 7164033 | 476 |
| LAB 40 FT | 6163519 | 6220452 | 476 |
| LAB 50 A2 | 6261970 | 7164041 | 476 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| LAB 50 FT | 6163571 | 6220460 | 476 |
| LAB 60 A2 | 6262038 | 7164068 | 476 |
| LAB 60 FT | 6163632 | 6220479 | 476 |
| | | | |
| LABE 20 DD | 6164110 | 6220622 | 476 |
| LABE 30 DD | 6164172 | 6220630 | 476 |
| LABE 40 DD | 6164233 | 6220649 | 476 |
| LABE 50 DD | 6165971 | 6220657 | 476 |
| | | | |
| LAL 70 A2 | 6164479 | 6221017 | 478 |
| LAL 70 FS | 6164417 | 6221009 | 478 |
| | | | |
| LALB 20 FT | 6166152 | 6221858 | 476 |
| LALB 30 FT | 6166213 | 6221866 | 476 |
| LALB 40 FT | 6166275 | 6221874 | 476 |
| LALB 50 FT | 6166336 | 6221882 | 476 |
| LALB 60 FT | 6166398 | 6221890 | 476 |
| | | | |
| LAS 110 A2 | 6938117 | 6221432 | 433 |
| LAS 110 FS | 6165254 | 6221416 | 432 |
| LAS 110 FT | 6165315 | 6221424 | 432 |
| LAS 60 A2 | 6165193 | 6221386 | 418 |
| LAS 60 FS | 6165070 | 6221351 | 418 |
| LAS 60 FT | 6165131 | 6221378 | 418 |
| | | | |
| LAW FT | 6165438 | 6221513 | 476 |
| LAW FT | 6165438 | 6221513 | 478 |
| | | | |
| LB 90 1120 R3 FS | 6443871 | 6225122 | 434 |
| LB 90 1120 R3 FT | 6443932 | 6225142 | 434 |
| LB 90 1130 R3 FS | 6443895 | 6225124 | 434 |
| LB 90 1130 R3 FT | 6443949 | 6225144 | 434 |
| LB 90 1140 R3 FS | 6443901 | 6225126 | 434 |
| LB 90 1140 R3 FT | 6443956 | 6225146 | 434 |
| LB 90 1145 R3 FT | 6443963 | 6225148 | 434 |
| LB 90 1150 R3 FS | 6443918 | 6225128 | 434 |
| LB 90 1150 R3 FT | 6443970 | 6225150 | 434 |
| LB 90 1160 R3 FS | 6443925 | 6225130 | 434 |
| LB 90 1160 R3 FT | 6443987 | 6225152 | 434 |
| LB 90 620 R3 A2 | 6443703 | 6225082 | 419 |
| LB 90 620 R3 A4 | 6443758 | 6225102 | 419 |
| LB 90 620 R3 FS | 6443604 | 6225042 | 419 |
| LB 90 620 R3 FT | 6443659 | 6225062 | 419 |
| LB 90 630 R3 A2 | 6443710 | 6225084 | 419 |
| LB 90 630 R3 A4 | 6443765 | 6225104 | 419 |
| LB 90 630 R3 FS | 6443611 | 6225044 | 419 |
| LB 90 630 R3 FT | 6443666 | 6225064 | 419 |
| LB 90 640 R3 A2 | 6443727 | 6225086 | 419 |
| LB 90 640 R3 A4 | 6443772 | 6225106 | 419 |
| LB 90 640 R3 FS | 6443628 | 6225046 | 419 |
| LB 90 640 R3 FT | 6443673 | 6225066 | 419 |
| LB 90 650 R3 A2 | 6443734 | 6225088 | 419 |
| LB 90 650 R3 A4 | 6443789 | 6225108 | 419 |
| LB 90 650 R3 FS | 6443635 | 6225048 | 419 |
| LB 90 650 R3 FT | 6443680 | 6225068 | 419 |
| LB 90 660 R3 A2 | 6443741 | 6225090 | 419 |
| LB 90 660 R3 A4 | 6443796 | 6225110 | 419 |
| LB 90 660 R3 FS | 6443642 | 6225050 | 419 |
| LB 90 660 R3 FT | 6443697 | 6225070 | 419 |
| | | | |
| LBD 90 1000 R3FT | 6534760 | 6226028 | 482 |
| LBD 90 1200 R3FT | 6534777 | 6226032 | 482 |
| LBD 90 200 R3 A2 | 6534784 | 6226050 | 482 |
| LBD 90 200 R3 A4 | 6534876 | 6226070 | 482 |
| LBD 90 200 R3 FS | 6532780 | 6225990 | 482 |
| LBD 90 200 R3 FT | 6534654 | 6226010 | 482 |
| LBD 90 300 R3 A2 | 6534814 | 6226052 | 482 |
| LBD 90 300 R3 A4 | 6534883 | 6226072 | 482 |
| LBD 90 300 R3 FS | 6532797 | 6225992 | 482 |
| LBD 90 300 R3 FT | 6534661 | 6226012 | 482 |
| LBD 90 400 R3 A2 | 6534821 | 6226054 | 482 |
| LBD 90 400 R3 A4 | 6534890 | 6226074 | 482 |
| LBD 90 400 R3 FS | 6532803 | 6225994 | 482 |
| LBD 90 400 R3 FT | 6534678 | 6226014 | 482 |
| LBD 90 450 R3 FT | 6534685 | 6226016 | 482 |
| LBD 90 500 R3 A2 | 6534838 | 6226056 | 482 |
| LBD 90 500 R3 A4 | 6534906 | 6226076 | 482 |
| LBD 90 500 R3 FS | 6532810 | 6225996 | 482 |
| LBD 90 500 R3 FT | 6534692 | 6226018 | 482 |
| LBD 90 600 R3 A2 | 6534845 | 6226058 | 482 |
| LBD 90 600 R3 A4 | 6534937 | 6226078 | 482 |
| LBD 90 600 R3 FS | 6532827 | 6225998 | 482 |
| LBD 90 600 R3 FT | 6534708 | 6226020 | 482 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| LBD 90 750 R3 FT | 6534715 | 6226022 | 482 |
| LBD 90 800 R3 FT | 6534722 | 6226024 | 482 |
| LBD 90 900 R3 FT | 6534753 | 6226026 | 482 |
| | | | |
| LBI 90 620 VS A2 | 6259991 | 7160046 | 420 |
| LBI 90 630 VS A2 | 6260058 | 7160054 | 420 |
| LBI 90 640 VS A2 | 6260119 | 7160062 | 420 |
| LBI 90 650 VS A2 | 6260171 | 7160089 | 420 |
| LBI 90 660 VS A2 | 6260232 | 7160097 | 420 |
| | | | |
| | | price/m | |
| LCIS 1120 6 FT | 6431632 | 6209820 | 425 |
| LCIS 1130 6 FT | 6431649 | 6209822 | 425 |
| LCIS 1140 6 FT | 6431656 | 6209824 | 425 |
| LCIS 1145 6 FT | 6540525 | 6209825 | 425 |
| LCIS 1150 6 FT | 6431663 | 6209826 | 425 |
| LCIS 1160 6 FT | 6431670 | 6209828 | 425 |
| LCIS 620 3 FS | 6487578 | 6209610 | 402 |
| LCIS 620 3 FT | 6431731 | 6209721 | 403 |
| LCIS 620 6 A2 | 6431687 | 6207252 | 406 |
| LCIS 620 6 A4 | 6431960 | 6207202 | 407 |
| LCIS 620 6 FS | 6432035 | 6209630 | 404 |
| LCIS 620 6 FT | 6431786 | 6209643 | 405 |
| LCIS 630 3 FS | 6487585 | 6209612 | 402 |
| LCIS 630 3 FT | 6431748 | 6209723 | 403 |
| LCIS 630 6 A2 | 6431694 | 6207254 | 406 |
| LCIS 630 6 A4 | 6431977 | 6207204 | 407 |
| LCIS 630 6 FS | 6432042 | 6209632 | 404 |
| LCIS 630 6 FT | 6431793 | 6209645 | 405 |
| LCIS 640 3 FS | 6487592 | 6209614 | 402 |
| LCIS 640 3 FT | 6431755 | 6209725 | 403 |
| LCIS 640 6 A2 | 6431700 | 6207256 | 406 |
| LCIS 640 6 A4 | 6431984 | 6207206 | 407 |
| LCIS 640 6 FS | 6432059 | 6209634 | 404 |
| LCIS 640 6 FT | 6431809 | 6209647 | 405 |
| LCIS 650 3 FS | 6487608 | 6209616 | 402 |
| LCIS 650 3 FT | 6431762 | 6209727 | 403 |
| LCIS 650 6 A2 | 6431717 | 6207258 | 406 |
| LCIS 650 6 A4 | 6431991 | 6207208 | 407 |
| LCIS 650 6 FS | 6432066 | 6209636 | 404 |
| LCIS 650 6 FT | 6431823 | 6209649 | 405 |
| LCIS 660 3 FS | 6487615 | 6209618 | 402 |
| LCIS 660 3 FT | 6431779 | 6209729 | 403 |
| LCIS 660 6 A2 | 6431724 | 6207260 | 406 |
| LCIS 660 6 A4 | 6432004 | 6207210 | 407 |
| LCIS 660 6 FS | 6432080 | 6209638 | 404 |
| LCIS 660 6 FT | 6431847 | 6209651 | 405 |
| | | | |
| | | /pc. | |
| LDVG 110 FT | 6464630 | 6216670 | 417 |
| LDVG 60 FT | 6464623 | 6208970 | 416 |
| | | | |
| LEB 25 A2 | 6804214 | 6221207 | 479 |
| | | /pc. | |
| LEB 25 DD | 6089116 | 6221216 | 479 |
| LEB 25 FS | 6164714 | 6221203 | 479 |
| LEB 50 A2 | 6804290 | 6221250 | 479 |
| | | /pc. | |
| LEB 50 DD | 6089239 | 6221259 | 479 |
| LEB 50 FS | 6164837 | 6221246 | 479 |
| | | | |
| | | price/m | |
| LG 112 VS 3 FS | 5064480 | 6216404 | 423 |
| LG 112 VS 3 FT | 5065210 | 6216423 | 424 |
| LG 112 VS 6 FS | 5065289 | 6216442 | 427 |
| LG 112 VS 6 FT | 5065371 | 6216465 | 428 |
| LG 112 VS6 A2 | 6082964 | 6216492 | 429 |
| LG 113 VS 3 FS | 5064497 | 6216407 | 423 |
| LG 113 VS 3 FT | 5065227 | 6216426 | 424 |
| LG 113 VS 6 FS | 5065319 | 6216445 | 427 |
| LG 113 VS 6 FT | 5065388 | 6216468 | 428 |
| LG 113 VS6 A2 | 6039425 | 6216493 | 429 |
| LG 114 VS 3 FS | 5064503 | 6216410 | 423 |
| LG 114 VS 3 FT | 5065258 | 6216429 | 424 |
| LG 114 VS 6 FS | 5065326 | 6216448 | 427 |
| LG 114 VS 6 FT | 5065395 | 6216471 | 428 |
| LG 114 VS 6FT SO | 6023912 | 7186395 | 430 |
| LG 114 VS6 A2 | 6082971 | 6216495 | 429 |
| LG 115 VS 3 FS | 5064534 | 6216413 | 423 |
| LG 115 VS 3 FT | 5065265 | 6216432 | 424 |
| LG 115 VS 6 FS | 5065333 | 6216451 | 427 |
| LG 115 VS 6 FT | 5065401 | 6216474 | 428 |
| LG 115 VS6 A2 | 6082988 | 6216497 | 429 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| LG 116 VS 3 FS | 5065203 | 6216416 | 423 |
| LG 116 VS 3 FT | 5065272 | 6216435 | 424 |
| LG 116 VS 6 FS | 5065340 | 6216454 | 427 |
| LG 116 VS 6 FT | 5065432 | 6216477 | 428 |
| LG 116 VS6 A2 | 6039470 | 6216499 | 429 |
| LG 620 NS 3 FS | 5063957 | 6208506 | 414 |
| LG 620 VS 3 FS | 5064022 | 6208538 | 408 |
| LG 620 VS 3 FS | 5064022 | 6208538 | 490 |
| LG 620 VS 3 FT | 5434153 | 6208562 | 410 |
| LG 620 VS 3 FT | 5434153 | 6208562 | 490 |
| LG 620 VS 6 FS | 5064251 | 6208627 | 409 |
| LG 620 VS 6 FS | 5064251 | 6208627 | 491 |
| LG 620 VS 6 FT | 5064329 | 6208650 | 411 |
| LG 620 VS 6 FT | 5064329 | 6208650 | 491 |
| LG 620 VS6 A2 | 5064411 | 6208700 | 412 |
| LG 620 VS6 A2 | 5064411 | 6208700 | 492 |
| LG 620 VS6 A4 | 6159314 | 6101200 | 413 |
| LG 620 VS6 A4 | 6159314 | 6101200 | 492 |
| LG 630 NS 3 FS | 5063964 | 6208509 | 414 |
| LG 630 VS 3 FS | 5064053 | 6208541 | 408 |
| LG 630 VS 3 FS | 5064053 | 6208541 | 490 |
| LG 630 VS 3 FT | 5434160 | 6208566 | 410 |
| LG 630 VS 3 FT | 5434160 | 6208566 | 490 |
| LG 630 VS 6 FS | 5064268 | 6208630 | 409 |
| LG 630 VS 6 FS | 5064268 | 6208630 | 491 |
| LG 630 VS 6 FT | 5064350 | 6208653 | 411 |
| LG 630 VS 6 FT | 5064350 | 6208653 | 491 |
| LG 630 VS 6FT SO | 6562756 | 7186363 | 415 |
| LG 630 VS6 A2 | 5064428 | 6208703 | 412 |
| LG 630 VS6 A2 | 5064428 | 6208703 | 492 |
| LG 630 VS6 A4 | 6514038 | 6101208 | 413 |
| LG 630 VS6 A4 | 6514038 | 6101208 | 492 |
| LG 640 NS 3 FS | 5063995 | 6208512 | 414 |
| LG 640 VS 3 FS | 5064060 | 6208544 | 408 |
| LG 640 VS 3 FS | 5064060 | 6208544 | 490 |
| LG 640 VS 3 FT | 5434207 | 6208570 | 410 |
| LG 640 VS 3 FT | 5434207 | 6208570 | 490 |
| LG 640 VS 6 FS | 5064299 | 6208633 | 409 |
| LG 640 VS 6 FS | 5064299 | 6208633 | 491 |
| LG 640 VS 6 FT | 5064367 | 6208656 | 411 |
| LG 640 VS 6 FT | 5064367 | 6208656 | 491 |
| LG 640 VS 6 FTSO | 6543793 | 7188633 | 415 |
| LG 640 VS6 A2 | 5064435 | 6208706 | 412 |
| LG 640 VS6 A2 | 5064435 | 6208706 | 492 |
| LG 640 VS6 A4 | 5022114 | 6101216 | 413 |
| LG 640 VS6 A4 | 5022114 | 6101216 | 492 |
| LG 650 NS 3 FS | 5064008 | 6208515 | 414 |
| LG 650 VS 3 FS | 5064077 | 6208547 | 408 |
| LG 650 VS 3 FS | 5064077 | 6208547 | 490 |
| LG 650 VS 3 FT | 5434214 | 6208574 | 410 |
| LG 650 VS 3 FT | 5434214 | 6208574 | 490 |
| LG 650 VS 6 FS | 5064305 | 6208636 | 409 |
| LG 650 VS 6 FS | 5064305 | 6208636 | 491 |
| LG 650 VS 6 FT | 5064374 | 6208659 | 411 |
| LG 650 VS 6 FT | 5064374 | 6208659 | 491 |
| LG 650 VS 6 FTSO | 5020875 | 7188640 | 415 |
| LG 650 VS6 A2 | 5064442 | 6208709 | 412 |
| LG 650 VS6 A2 | 5064442 | 6208709 | 492 |
| LG 650 VS6 A4 | 5022121 | 6101223 | 413 |
| LG 650 VS6 A4 | 5022121 | 6101223 | 492 |
| LG 660 NS 3 FS | 5064015 | 6208518 | 414 |
| LG 660 VS 3 FS | 5064084 | 6208550 | 408 |
| LG 660 VS 3 FS | 5064084 | 6208550 | 490 |
| LG 660 VS 3 FT | 5434221 | 6208578 | 410 |
| LG 660 VS 3 FT | 5434221 | 6208578 | 490 |
| LG 660 VS 6 FS | 5064312 | 6208639 | 409 |
| LG 660 VS 6 FS | 5064312 | 6208639 | 491 |
| LG 660 VS 6 FT | 5064381 | 6208661 | 411 |
| LG 660 VS 6 FT | 5064381 | 6208661 | 491 |
| LG 660 VS6 A2 | 5064473 | 6208712 | 412 |
| LG 660 VS6 A2 | 5064473 | 6208712 | 492 |
| LG 660 VS6 A4 | 6524952 | 6101232 | 413 |
| LG 660 VS6 A4 | 6524952 | 6101232 | 492 |
| | | /pc. | |
| LGBE 1120 FS | 6445042 | 6225490 | 437 |
| LGBE 1120 FT | 6445097 | 6225510 | 437 |
| LGBE 1130 FS | 6445059 | 6225492 | 437 |
| LGBE 1130 FT | 6445103 | 6225512 | 437 |
| LGBE 1140 FS | 6445066 | 6225494 | 437 |
| LGBE 1140 FT | 6445110 | 6225514 | 437 |
| LGBE 1145 FT | 6445127 | 6225516 | 437 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| LGBE 1150 FS | 6445073 | 6225496 | 437 |
| LGBE 1150 FT | 6445134 | 6225518 | 437 |
| LGBE 1160 FS | 6445080 | 6225498 | 437 |
| LGBE 1160 FT | 6445141 | 6225520 | 437 |
| LGBE 620 A2 | 6567218 | 6225460 | 422 |
| LGBE 620 A4 | 6567287 | 6225480 | 422 |
| LGBE 620 FS | 6444885 | 6225450 | 421 |
| LGBE 620 FT | 6444960 | 6225470 | 421 |
| LGBE 630 A2 | 6567225 | 6225462 | 422 |
| LGBE 630 A4 | 6567300 | 6225482 | 422 |
| LGBE 630 FS | 6444892 | 6225452 | 421 |
| LGBE 630 FT | 6445004 | 6225472 | 421 |
| LGBE 640 A2 | 6567232 | 6225464 | 422 |
| LGBE 640 A4 | 6567348 | 6225484 | 422 |
| LGBE 640 FS | 6444908 | 6225454 | 421 |
| LGBE 640 FT | 6445011 | 6225474 | 421 |
| LGBE 650 A2 | 6567249 | 6225466 | 422 |
| LGBE 650 A4 | 6567355 | 6225486 | 422 |
| LGBE 650 FS | 6444946 | 6225456 | 421 |
| LGBE 650 FT | 6445028 | 6225476 | 421 |
| LGBE 660 A2 | 6567270 | 6225468 | 422 |
| LGBE 660 A4 | 6567362 | 6225488 | 422 |
| LGBE 660 FS | 6444953 | 6225458 | 421 |
| LGBE 660 FT | 6445035 | 6225478 | 421 |
| LGBED 1000 FT | 6536221 | 6226248 | 484 |
| LGBED 1200 FT | 6536252 | 6226252 | 484 |
| LGBED 200 FS | 6536078 | 6226210 | 484 |
| LGBED 200 FT | 6536122 | 6226230 | 484 |
| LGBED 300 FS | 6536085 | 6226212 | 484 |
| LGBED 300 FT | 6536269 | 6226232 | 484 |
| LGBED 400 FS | 6536092 | 6226214 | 484 |
| LGBED 400 FT | 6536139 | 6226234 | 484 |
| LGBED 450 FT | 6536146 | 6226236 | 484 |
| LGBED 500 FS | 6536115 | 6226216 | 484 |
| LGBED 500 FT | 6536153 | 6226238 | 484 |
| LGBED 600 FS | 6536108 | 6226218 | 484 |
| LGBED 600 FT | 6536160 | 6226240 | 484 |
| LGBED 750 FT | 6536191 | 6226242 | 484 |
| LGBED 800 FT | 6536207 | 6226244 | 484 |
| LGBED 900 FT | 6536214 | 6226246 | 484 |
| LGBV 112 VS FS | 6160150 | 6218822 | 436 |
| LGBV 112 VS FT | 6160518 | 6218938 | 436 |
| LGBV 113 VS FS | 6160211 | 6218830 | 436 |
| LGBV 113 VS FT | 6160570 | 6218946 | 436 |
| LGBV 114 VS FS | 6160273 | 6218849 | 436 |
| LGBV 114 VS FT | 6160631 | 6218954 | 436 |
| LGBV 115 VS FS | 6160334 | 6218857 | 436 |
| LGBV 115 VS FT | 6160693 | 6218962 | 436 |
| LGBV 116 VS FS | 6160396 | 6218865 | 436 |
| LGBV 116 VS FT | 6160754 | 6218970 | 436 |
| LGBV 620 VS FS | 6149476 | 6213227 | 422 |
| LGBV 620 VS FT | 6149834 | 6213324 | 422 |
| LGBV 630 VS FS | 6149537 | 6213235 | 422 |
| LGBV 630 VS FT | 6149896 | 6213332 | 422 |
| LGBV 640 VS FS | 6149599 | 6213243 | 422 |
| LGBV 640 VS FT | 6149957 | 6213340 | 422 |
| LGBV 650 VS FS | 6149650 | 6213251 | 422 |
| LGBV 650 VS FT | 6150014 | 6213359 | 422 |
| LGBV 660 VS FS | 6149711 | 6213278 | 422 |
| LGBV 660 VS FT | 6150076 | 6213367 | 422 |
| LGVG 110 A2 | 6039531 | 6216648 | 432 |
| LGVG 110 FS | 5065739 | 6216650 | 431 |
| LGVG 110 FT | 5065746 | 6216653 | 431 |
| LGVG 110VS FTSO | 5625148 | 7190590 | 432 |
| LGVG 60 A2 | 5065647 | 6208947 | 417 |
| LGVG 60 A2 | 5065647 | 6208947 | 498 |
| LGVG 60 A4 | 5046370 | 6208932 | 417 |
| LGVG 60 A4 | 5046370 | 6208932 | 498 |
| LGVG 60 FS | 5065623 | 6208941 | 417 |
| LGVG 60 FS | 5065623 | 6208941 | 498 |
| LGVG 60 FT | 5065630 | 6208944 | 417 |
| LGVG 60 FT | 5065630 | 6208944 | 498 |
| LGVG 60 FT SO | 5313120 | 7189251 | 417 |
| LKS 40 A2 | 6295630 | 6017134 | 474 |
| LKS 40 FS | 6164530 | 6221076 | 473 |
| LKS 40 FT | 6164592 | 6221084 | 473 |
| LKS 40 FT SO | 6544271 | 7189192 | 475 |
| LKS 40 FTK LGR | 5238775 | 6479790 | 474 |
| LKS 60 4 A2 | 6015252 | 6221130 | 474 |
| LKS 60 4 A4 | 6524839 | 6221157 | 474 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| LKS 60 4 FT | 6164653 | 6221122 | 474 |
| LKS 60 4 FT 8.8 | 6966387 | 6221124 | 475 |
| LKS 60 4 FTK LGR | 5239024 | 6479435 | 475 |
| LKS 60 5 FT | 6175512 | 6232485 | 474 |
| | | | |
| LMFV 1120 FS | 6443345 | 6225750 | 432 |
| LMFV 1120 FT | 6443390 | 6225770 | 432 |
| LMFV 1130 FS | 6443352 | 6225752 | 432 |
| LMFV 1130 FT | 6443406 | 6225772 | 432 |
| LMFV 1140 FS | 6443369 | 6225754 | 432 |
| LMFV 1140 FT | 6443413 | 6225774 | 432 |
| LMFV 1145 FT | 6443420 | 6225776 | 432 |
| LMFV 1150 FS | 6443376 | 6225756 | 432 |
| LMFV 1150 FT | 6443437 | 6225778 | 432 |
| LMFV 1160 FS | 6443383 | 6225758 | 432 |
| LMFV 1160 FT | 6443444 | 6225780 | 432 |
| LMFV 620 FS | 6443246 | 6225710 | 418 |
| LMFV 620 FT | 6443291 | 6225730 | 418 |
| LMFV 630 FS | 6443253 | 6225712 | 418 |
| LMFV 630 FT | 6443307 | 6225732 | 418 |
| LMFV 640 FS | 6443260 | 6225714 | 418 |
| LMFV 640 FT | 6443314 | 6225734 | 418 |
| LMFV 650 FS | 6443277 | 6225716 | 418 |
| LMFV 650 FT | 6443321 | 6225736 | 418 |
| LMFV 660 FS | 6443284 | 6225718 | 418 |
| LMFV 660 FT | 6443338 | 6225738 | 418 |
| | | | |
| LT 1120 R3 FS | 6444298 | 6225290 | 435 |
| LT 1120 R3 FT | 6444403 | 6225310 | 435 |
| LT 1130 R3 FS | 6444304 | 6225292 | 435 |
| LT 1130 R3 FT | 6444410 | 6225312 | 435 |
| LT 1140 R3 FS | 6444342 | 6225294 | 435 |
| LT 1140 R3 FT | 6444427 | 6225314 | 435 |
| LT 1145 R3 FT | 6444465 | 6225316 | 435 |
| LT 1150 R3 FS | 6444359 | 6225296 | 435 |
| LT 1150 R3 FT | 6444472 | 6225318 | 435 |
| LT 1160 R3 FS | 6444366 | 6225298 | 435 |
| LT 1160 R3 FT | 6444489 | 6225320 | 435 |
| | | | |
| LT 620 R3 A2 | 6444199 | 6225250 | 420 |
| LT 620 R3 A4 | 6444243 | 6225270 | 420 |
| LT 620 R3 FS | 6444090 | 6225210 | 420 |
| LT 620 R3 FT | 6444144 | 6225230 | 420 |
| LT 620 VS A2 | 6261079 | 7162022 | 420 |
| LT 630 R3 A2 | 6444205 | 6225252 | 420 |
| LT 630 R3 A4 | 6444250 | 6225272 | 420 |
| LT 630 R3 FS | 6444106 | 6225212 | 420 |
| LT 630 R3 FT | 6444151 | 6225232 | 420 |
| LT 630 VS A2 | 6261130 | 7162049 | 420 |
| LT 640 R3 A2 | 6444212 | 6225254 | 420 |
| LT 640 R3 A4 | 6444267 | 6225274 | 420 |
| LT 640 R3 FS | 6444113 | 6225214 | 420 |
| LT 640 R3 FT | 6444168 | 6225234 | 420 |
| LT 640 VS A2 | 6261192 | 7162057 | 420 |
| LT 650 R3 A2 | 6444229 | 6225256 | 420 |
| LT 650 R3 A4 | 6444274 | 6225276 | 420 |
| LT 650 R3 FS | 6444120 | 6225216 | 420 |
| LT 650 R3 FT | 6444175 | 6225236 | 420 |
| LT 650 VS A2 | 6261253 | 7162073 | 420 |
| LT 660 R3 A2 | 6444236 | 6225258 | 420 |
| LT 660 R3 A4 | 6444281 | 6225278 | 420 |
| LT 660 R3 FS | 6444137 | 6225218 | 420 |
| LT 660 R3 FT | 6444182 | 6225238 | 420 |
| LT 660 VS A2 | 6261314 | 7162081 | 420 |
| | | | |
| LTD 1000 R3 FT | 6535781 | 6226138 | 482 |
| LTD 1200 R3 FT | 6535798 | 6226142 | 482 |
| LTD 200 R3 A2 | 6535910 | 6226160 | 483 |
| LTD 200 R3 A4 | 6535989 | 6226180 | 483 |
| LTD 200 R3 FS | 6535422 | 6226100 | 482 |
| LTD 200 R3 FT | 6535675 | 6226120 | 482 |
| LTD 300 R3 A2 | 6535927 | 6226162 | 483 |
| LTD 300 R3 A4 | 6536016 | 6226182 | 483 |
| LTD 300 R3 FS | 6535439 | 6226102 | 482 |
| LTD 300 R3 FT | 6535682 | 6226122 | 482 |
| LTD 400 R3 A2 | 6535958 | 6226164 | 483 |
| LTD 400 R3 A4 | 6536023 | 6226184 | 483 |
| LTD 400 R3 FS | 6535446 | 6226104 | 482 |
| LTD 400 R3 FT | 6535712 | 6226124 | 482 |
| LTD 450 R3 FT | 6535729 | 6226126 | 482 |
| LTD 500 R3 A2 | 6535965 | 6226166 | 483 |
| LTD 500 R3 A4 | 6536030 | 6226186 | 483 |
| LTD 500 R3 FS | 6535477 | 6226106 | 482 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| LTD 500 R3 FT | 6535736 | 6226128 | 482 |
| LTD 600 R3 A2 | 6535972 | 6226168 | 483 |
| LTD 600 R3 A4 | 6536047 | 6226188 | 483 |
| LTD 600 R3 FS | 6535484 | 6226108 | 482 |
| LTD 600 R3 FT | 6535743 | 6226130 | 482 |
| LTD 750 R3 FT | 6535750 | 6226132 | 482 |
| LTD 800 R3 FT | 6535767 | 6226134 | 482 |
| LTD 900 R3 FT | 6535774 | 6226136 | 482 |
| | | | |
| | | price/m | |
| LTG 100 A2 | 5652700 | 6003830 | 527 |
| | | | |
| LTK-K 10 G | 6057559 | 6050360 | 522 |
| LTK-K 25 G | 6936137 | 6050370 | 522 |
| | | | |
| LTR 3000 FS | 6943876 | 6055810 | 524 |
| LTR 3000 FSK RW | 5163329 | 6055820 | 525 |
| LTR 3000 FT | 5671282 | 6055817 | 526 |
| LTR 6000 FS | 6943937 | 6055812 | 524 |
| LTR 6000 FSK RW | 6557790 | 6055821 | 525 |
| | | | |
| LTS 100 FS | 5247135 | 6075024 | 517 |
| LTS 50 FS | 6935956 | 6075000 | 515 |
| LTS 50 FT | 6936014 | 6075005 | 516 |
| | | /pc. | |
| LTS B DD | 5453451 | 6074901 | 520 |
| LTS DFB DD | 5453482 | 6074952 | 768 |
| LTS K DD | 5453475 | 6074921 | 520 |
| LTS T DD | 5453468 | 6074912 | 520 |
| | | | |
| LVG 110 A2 | 5623885 | 6216550 | 431 |
| LVG 110 FS | 5065678 | 6216545 | 431 |
| LVG 110 FT | 5065685 | 6216548 | 431 |
| LVG 110 FT SO | 5652267 | 7189256 | 199 |
| LVG 60 A2 | 5065579 | 6208846 | 416 |
| LVG 60 A2 | 5065579 | 6208846 | 497 |
| LVG 60 A4 | 6666799 | 6208835 | 416 |
| LVG 60 A4 | 6666799 | 6208835 | 497 |
| LVG 60 FS | 5065555 | 6208840 | 416 |
| LVG 60 FS | 5065555 | 6208840 | 497 |
| LVG 60 FT | 5065562 | 6208843 | 416 |
| LVG 60 FT | 5065562 | 6208843 | 497 |
| LVG 60 FT SO | 5313137 | 7189253 | 416 |
| | | | |
| LWVG 110 A2 | 5065708 | 6216590 | 431 |
| LWVG 110 FS | 5065692 | 6216587 | 431 |
| LWVG 60 A2 | 5065616 | 6208898 | 417 |
| LWVG 60 A2 | 5065616 | 6208898 | 497 |
| LWVG 60 A4 | 5022084 | 6208891 | 417 |
| LWVG 60 A4 | 5022084 | 6208891 | 497 |
| LWVG 60 FS | 5065586 | 6208895 | 417 |
| LWVG 60 FS | 5065586 | 6208895 | 497 |
| | | | |
| LWVM 200 FT | 6947836 | 6083200 | 238 |
| | | | |
| MAH 050 FS | 6765553 | 6358500 | 654 |
| MAH 075 FS | 6874699 | 6358510 | 654 |
| MAH 100 FS | 6765676 | 6358527 | 654 |
| MAH 150 FS | 6765737 | 6358535 | 654 |
| MAH 200 FS | 6765799 | 6358543 | 654 |
| MAH 35 100 FS | 5364061 | 6358690 | 653 |
| MAH 35 200 FS | 5364078 | 6358692 | 653 |
| MAH 35 300 FS | 5364085 | 6358694 | 653 |
| MAH 60 100 FS | 6939374 | 6358705 | 654 |
| MAH 60 100 FT | 6947171 | 6358752 | 654 |
| MAH 60 150 FS | 6939435 | 6358709 | 654 |
| MAH 60 150 FT | 6947232 | 6358756 | 654 |
| MAH 60 200 FS | 6939497 | 6358713 | 654 |
| MAH 60 200 FT | 6947294 | 6358760 | 654 |
| MAH 60 300 FS | 6939558 | 6358717 | 654 |
| MAH 60 300 FT | 6947355 | 6358764 | 654 |
| MAH 60 400 FS | 6134823 | 6358720 | 654 |
| MAH LTR FS | 5268611 | 6358810 | 526 |
| MAH LTR FT | 5671299 | 6358812 | 526 |
| | | | |
| MAHL 200 FT | 6881239 | 6358659 | 527 |
| MAHL 300 FT | 6881291 | 6358667 | 527 |
| MAHL 400 FT | 6884292 | 6358675 | 527 |
| MAHL 500 FT | 6881352 | 6358683 | 527 |
| MAHL 600 FT | 5009702 | 6358687 | 527 |
| | | | |
| MAHU 200 FS | 5435761 | 6358853 | 655 |
| MAHU 200 FT | 5435839 | 6358884 | 655 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| MAHU 300 FS | 5435778 | 6358856 | 655 |
| MAHU 300 FT | 5435846 | 6358888 | 655 |
| MAHU 400 FS | 5435785 | 6358860 | 655 |
| MAHU 400 FT | 5435877 | 6358892 | 655 |
| MAHU 500 FS | 5435815 | 6358864 | 655 |
| MAHU 500 FT | 5435884 | 6358896 | 655 |
| MAHU 600 FS | 5435822 | 6358868 | 655 |
| MAHU 600 FT | 5435891 | 6358900 | 655 |
| MAS 140 10 FT | 6295753 | 6356311 | 760 |
| MASD 90 FT | 6471195 | 6356915 | 760 |
| | | price/m | |
| MFR 220 FT | 6947652 | 6083056 | 238 |
| MFR 230 FT | 6947713 | 6083060 | 238 |
| MFR 240 FT | 6947775 | 6083064 | 238 |
| MKR 15 050 A2 | 5706663 | 6045830 | 64 |
| MKR 15 050 A4 | 5706748 | 6045850 | 64 |
| MKR 15 050 ALU | 6381975 | 6045707 | 65 |
| MKR 15 050 FS | 6561971 | 6045952 | 62 |
| MKR 15 050 FS | 6288427 | 6046370 | 63 |
| MKR 15 050 FT | 6053650 | 6045057 | 63 |
| MKR 15 075 A2 | 5706670 | 6045832 | 64 |
| MKR 15 075 A4 | 5706755 | 6045852 | 64 |
| MKR 15 075 ALU | 6382033 | 6045715 | 65 |
| MKR 15 075 FS | 6562039 | 6045960 | 62 |
| MKR 15 075 FS | 6288465 | 6046372 | 63 |
| MKR 15 075 FT | 6053711 | 6045073 | 63 |
| MKR 15 100 A2 | 5706687 | 6045834 | 64 |
| MKR 15 100 A4 | 5706762 | 6045854 | 64 |
| MKR 15 100 ALU | 6382095 | 6045723 | 65 |
| MKR 15 100 FS | 6562091 | 6045979 | 62 |
| MKR 15 100 FS | 6288472 | 6046374 | 63 |
| MKR 15 100 FT | 6053773 | 6045103 | 63 |
| MKR 15 125 A2 | 5706694 | 6045836 | 64 |
| MKR 15 125 A4 | 5706779 | 6045856 | 64 |
| MKR 15 125 ALU | 6382156 | 6045731 | 65 |
| MKR 15 125 FS | 6517305 | 6046375 | 63 |
| MKR 15 125 FT | 6053834 | 6045138 | 63 |
| MKR 15 150 A2 | 5706700 | 6045838 | 64 |
| MKR 15 150 A4 | 5706786 | 6045858 | 64 |
| MKR 15 150 ALU | 6382217 | 6045758 | 65 |
| MKR 15 150 FS | 6562213 | 6045995 | 62 |
| MKR 15 150 FS | 6288489 | 6046376 | 63 |
| MKR 15 150 FT | 6053896 | 6045154 | 63 |
| MKR 15 200 A2 | 5706717 | 6045840 | 64 |
| MKR 15 200 A4 | 5706793 | 6045860 | 64 |
| MKR 15 200 ALU | 6382279 | 6045766 | 65 |
| MKR 15 200 FS | 6562275 | 6046002 | 62 |
| MKR 15 200 FS | 6467365 | 6046004 | 63 |
| MKR 15 200 FT | 6053957 | 6045200 | 63 |
| MKR 15 250 A2 | 5706724 | 6045842 | 64 |
| MKR 15 250 A4 | 5706809 | 6045862 | 64 |
| MKR 15 250 ALU | 6382330 | 6045774 | 65 |
| MKR 15 250 FS | 6517312 | 6046379 | 63 |
| MKR 15 250 FT | 6054015 | 6045251 | 63 |
| MKR 15 300 A2 | 5706731 | 6045844 | 64 |
| MKR 15 300 A4 | 5706830 | 6045864 | 64 |
| MKR 15 300 ALU | 6382392 | 6045782 | 65 |
| MKR 15 300 FS | 6562398 | 6046029 | 63 |
| MKR 15 300 FT | 6054077 | 6045308 | 63 |
| MKR 15 400 FS | 6346660 | 6046037 | 63 |
| | | /pc. | |
| MKR EV FT | 6223756 | 7060041 | 66 |
| MKR KV FT | 6064878 | 6066143 | 66 |
| MKR SV A2 | 6517329 | 6066244 | 65 |
| MKR SV A4 | 6517336 | 6066246 | 65 |
| MKR SV ALU | 6517343 | 6066248 | 66 |
| MKR SV FS | 5706847 | 6066242 | 65 |
| MKR SV FT | 6064939 | 6066240 | 66 |
| MKRB 90 15 050FS | 5703983 | 7061146 | 67 |
| MKRB 90 15 050FT | 6223879 | 7061145 | 67 |
| MKRB 90 15 075FS | 5706854 | 7061050 | 67 |
| MKRB 90 15 075FT | 6223817 | 7061048 | 67 |
| MKRB 90 15 100FS | 5706861 | 7061244 | 67 |
| MKRB 90 15 100FT | 6223930 | 7061242 | 67 |
| MKRB 90 15 125FS | 5706878 | 7061252 | 67 |
| MKRB 90 15 125FT | 5807261 | 7061250 | 67 |
| MKRB 90 15 150FS | 5706885 | 7061360 | 67 |
| MKRB 90 15 150FT | 6223992 | 7061358 | 67 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| MKRB 90 15 200FS | 5706892 | 7061449 | 67 |
| MKRB 90 15 200FT | 6224050 | 7061447 | 67 |
| MKRB 90 15 250FS | 5706908 | 7061546 | 67 |
| MKRB 90 15 250FT | 6224111 | 7061544 | 67 |
| MKRB 90 15 300FS | 5706915 | 7061643 | 67 |
| MKRB 90 15 300FT | 6224173 | 7061641 | 67 |
| | | price/m | |
| MKS 110 FS | 6061815 | 6060102 | 218 |
| MKS 110 FT | 6392292 | 6060609 | 219 |
| MKS 120 FS | 6061877 | 6060196 | 218 |
| MKS 120 FT | 6392353 | 6060625 | 219 |
| MKS 130 FS | 6061938 | 6060307 | 218 |
| MKS 130 FT | 6392414 | 6060641 | 219 |
| MKS 140 FS | 6061990 | 6060404 | 218 |
| MKS 140 FT | 6392476 | 6060676 | 219 |
| MKS 150 FS | 6062058 | 6060412 | 218 |
| MKS 155 FS | 6062119 | 6060528 | 218 |
| MKS 310 FS | 6059478 | 6053548 | 81 |
| MKS 310 FT | 6059294 | 6053106 | 82 |
| MKS 315 FS | 6386659 | 6053572 | 81 |
| MKS 315 FT | 6386352 | 6053165 | 82 |
| MKS 320 FS | 6059539 | 6053599 | 81 |
| MKS 320 FT | 6059355 | 6053203 | 82 |
| MKS 330 FS | 6059591 | 6053637 | 81 |
| MKS 330 FT | 6059416 | 6053300 | 82 |
| MKS 610 A2 | 6389292 | 6056016 | 139 |
| MKS 610 FS | 6059652 | 6055109 | 136 |
| MKS 610 FT | 6060016 | 6055532 | 137 |
| MKS 610 FT SO | 6017539 | 7190099 | 138 |
| MKS 615 FS | 6387731 | 6055141 | 136 |
| MKS 615 FT | 6387915 | 6055559 | 137 |
| MKS 615 FT SO | 5763413 | 7190101 | 138 |
| MKS 620 A2 | 6389353 | 6056024 | 139 |
| MKS 620 FS | 6059713 | 6055206 | 136 |
| MKS 620 FT | 6060078 | 6055575 | 137 |
| MKS 620 FT SO | 6017713 | 7190103 | 138 |
| MKS 630 A2 | 6389414 | 6056040 | 139 |
| MKS 630 FS | 6059775 | 6055303 | 136 |
| MKS 630 FT | 6060139 | 6055613 | 137 |
| MKS 630 FT SO | 6440115 | 7190107 | 138 |
| MKS 640 A2 | 6389476 | 6056059 | 139 |
| MKS 640 FS | 6059836 | 6055400 | 136 |
| MKS 640 FT | 6388035 | 6055664 | 137 |
| MKS 640 FT SO | 5978015 | 7190109 | 138 |
| MKS 650 FS | 6059898 | 6055508 | 136 |
| MKS 650 FT | 6388097 | 6055699 | 137 |
| MKS 660 FS | 6059959 | 6055524 | 136 |
| MKS 660 FT | 6388219 | 6055710 | 137 |
| MKS 660 FT SO | 5978022 | 7190111 | 138 |
| MKS 810 FS | 6060733 | 6057101 | 184 |
| MKS 820 FS | 6060795 | 6057209 | 184 |
| MKS 830 FS | 6060856 | 6057306 | 184 |
| MKS 840 FS | 6060917 | 6057403 | 184 |
| MKS 850 FS | 6060979 | 6057500 | 184 |
| MKS 860 FS | 6061037 | 6057535 | 184 |
| MKSM 110 A2 | 5831150 | 6059190 | 202 |
| MKSM 110 FS | 5830627 | 6059156 | 200 |
| MKSM 110 FT | 5831037 | 6059173 | 201 |
| MKSM 115 FS | 5830924 | 6059158 | 200 |
| MKSM 115 FT | 5831044 | 6059175 | 201 |
| MKSM 120 A2 | 5831174 | 6059194 | 202 |
| MKSM 120 FS | 5830931 | 6059160 | 200 |
| MKSM 120 FT | 5831051 | 6059177 | 201 |
| MKSM 130 A2 | 5831181 | 6059196 | 202 |
| MKSM 130 FS | 5830948 | 6059162 | 200 |
| MKSM 130 FT | 5831068 | 6059179 | 201 |
| MKSM 140 A2 | 5831228 | 6059198 | 202 |
| MKSM 140 FS | 5830986 | 6059164 | 200 |
| MKSM 140 FT | 5831105 | 6059181 | 201 |
| MKSM 150 A2 | 5831235 | 6059200 | 202 |
| MKSM 150 FS | 5830993 | 6059166 | 200 |
| MKSM 150 FT | 5831112 | 6059183 | 201 |
| MKSM 160 A2 | 5831242 | 6059202 | 202 |
| MKSM 160 FS | 5831006 | 6059168 | 200 |
| MKSM 160 FT | 5831129 | 6059185 | 201 |
| MKSM 610 FS | 5829553 | 6059000 | 98 |
| MKSM 610 FT | 5830023 | 6059018 | 99 |
| MKSM 615 FS | 5829935 | 6059002 | 98 |
| MKSM 615 FT | 5830030 | 6059020 | 99 |
| MKSM 620 FS | 5829942 | 6059004 | 98 |
| MKSM 620 FT | 5830047 | 6059022 | 99 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| MKSM 630 FS | 5829959 | 6059006 | 98 |
| MKSM 630 FT | 5830085 | 6059025 | 99 |
| MKSM 640 FS | 5829966 | 6059008 | 98 |
| MKSM 640 FT | 5830092 | 6059027 | 99 |
| MKSM 650 FS | 5829973 | 6059010 | 98 |
| MKSM 650 FT | 5830108 | 6059029 | 99 |
| MKSM 660 FS | 5829980 | 6059012 | 98 |
| MKSM 660 FT | 5830146 | 6059032 | 99 |
| MKSM 810 FS | 5830344 | 6059080 | 170 |
| MKSM 810 FT | 5830412 | 6059097 | 171 |
| MKSM 820 FS | 5830368 | 6059084 | 170 |
| MKSM 820 FT | 5830436 | 6059101 | 171 |
| MKSM 830 FS | 5830375 | 6059086 | 170 |
| MKSM 830 FT | 5830443 | 6059103 | 171 |
| MKSM 840 FS | 5830382 | 6059088 | 170 |
| MKSM 840 FT | 5830450 | 6059105 | 171 |
| MKSM 850 FS | 5830399 | 6059090 | 170 |
| MKSM 850 FT | 5830467 | 6059107 | 171 |
| MKSM 860 FS | 5830405 | 6059092 | 170 |
| MKSM 860 FT | 5830474 | 6059109 | 171 |
| MKSMU 110 A2 | 5832249 | 6059416 | 206 |
| MKSMU 110 FS | 5832003 | 6059382 | 205 |
| MKSMU 110 FT | 5832126 | 6059399 | 207 |
| MKSMU 115 FS | 5832010 | 6059384 | 205 |
| MKSMU 115 FT | 5832133 | 6059401 | 207 |
| MKSMU 120 A2 | 5832263 | 6059420 | 206 |
| MKSMU 120 FS | 5832027 | 6059386 | 205 |
| MKSMU 120 FT | 5832140 | 6059403 | 207 |
| MKSMU 130 A2 | 5832300 | 6059422 | 206 |
| MKSMU 130 FS | 5832065 | 6059388 | 205 |
| MKSMU 130 FT | 5832188 | 6059405 | 207 |
| MKSMU 140 A2 | 5832317 | 6059424 | 206 |
| MKSMU 140 FS | 5832072 | 6059390 | 205 |
| MKSMU 140 FT | 5832195 | 6059407 | 207 |
| MKSMU 150 A2 | 5832324 | 6059426 | 206 |
| MKSMU 150 FS | 5832089 | 6059392 | 205 |
| MKSMU 150 FT | 5832201 | 6059409 | 207 |
| MKSMU 160 A2 | 5832355 | 6059428 | 206 |
| MKSMU 160 FS | 5832119 | 6059394 | 205 |
| MKSMU 160 FT | 5832232 | 6059411 | 207 |
| MKSMU 610 A2 | 5831488 | 6059265 | 135 |
| MKSMU 610 FS | 5831341 | 6059230 | 104 |
| MKSMU 610 FT | 5831419 | 6059248 | 105 |
| MKSMU 615 FS | 5831358 | 6059232 | 104 |
| MKSMU 615 FT | 5831426 | 6059250 | 105 |
| MKSMU 620 FS | 5831365 | 6059234 | 104 |
| MKSMU 620 FT | 5831433 | 6059252 | 105 |
| MKSMU 630 FS | 5831372 | 6059237 | 104 |
| MKSMU 630 FT | 5831440 | 6059254 | 105 |
| MKSMU 640 FS | 5831389 | 6059239 | 104 |
| MKSMU 640 FT | 5831457 | 6059256 | 105 |
| MKSMU 650 FS | 5831396 | 6059241 | 104 |
| MKSMU 650 FT | 5831464 | 6059258 | 105 |
| MKSMU 660 FS | 5831402 | 6059243 | 104 |
| MKSMU 660 FT | 5831471 | 6059260 | 105 |
| MKSMU 810 FS | 5831624 | 6059308 | 172 |
| MKSMU 810 FT | 5831693 | 6059325 | 173 |
| MKSMU 820 FS | 5831648 | 6059312 | 172 |
| MKSMU 820 FT | 5831716 | 6059329 | 173 |
| MKSMU 830 FS | 5831655 | 6059314 | 172 |
| MKSMU 830 FT | 5831723 | 6059331 | 173 |
| MKSMU 840 FS | 5831662 | 6059316 | 172 |
| MKSMU 840 FT | 5831730 | 6059333 | 173 |
| MKSMU 850 FS | 5831679 | 6059318 | 172 |
| MKSMU 850 FT | 5831747 | 6059335 | 173 |
| MKSMU 860 FS | 5831686 | 6059320 | 172 |
| MKSMU 860 FT | 5831754 | 6059337 | 173 |
| | | | |
| MKSU 610 FS | 6063611 | 6063160 | 140 |
| MKSU 610 FT | 6396795 | 6064302 | 141 |
| MKSU 615 FS | 6394630 | 6063179 | 140 |
| MKSU 615 FT | 6026760 | 6064319 | 141 |
| MKSU 620 FS | 6063673 | 6063187 | 140 |
| MKSU 620 FT | 6396856 | 6064345 | 141 |
| MKSU 630 FS | 6063734 | 6063209 | 140 |
| MKSU 630 FT | 6396979 | 6064396 | 141 |
| MKSU 640 FS | 6063796 | 6063225 | 140 |
| MKSU 640 FT | 6397099 | 6064426 | 141 |
| MKSU 810 FS | 5805984 | 6063312 | 189 |
| MKSU 810 FT | 5806059 | 6064556 | 188 |
| MKSU 820 FS | 5756217 | 6063314 | 187 |
| MKSU 820 FT | 5806066 | 6064559 | 188 |
| MKSU 830 FS | 5756200 | 6063330 | 187 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| MKSU 830 FT | 5806073 | 6064561 | 188 |
| MKSU 840 FS | 5806028 | 6063332 | 189 |
| MKSU 840 FT | 5806080 | 6064564 | 188 |
| MKSU 850 FS | 5806035 | 6063334 | 189 |
| MKSU 850 FT | 5806097 | 6064568 | 188 |
| MKSU 860 FT | 5806103 | 6064571 | 188 |
| | | | |
| | | /pc. | |
| MP 225 UNI FS | 5012245 | 7084870 | 241 |
| | | | |
| MP FL DD | 5163268 | 7085108 | 241 |
| MP FL FS | 6146772 | 7084757 | 241 |
| MP FS | 6296293 | 7084919 | 240 |
| | | | |
| MP UNI A2 | 5166320 | 7085133 | 241 |
| MP UNI DD | 5163312 | 7085114 | 241 |
| MP UNI FS | 6146895 | 7084773 | 241 |
| | | | |
| MP WI GR. DD | 5286790 | 7085112 | 241 |
| MP WI GR. FS | 6146956 | 7084781 | 241 |
| MP WI KL. DD | 5163305 | 7085111 | 241 |
| MP WI KL. FS | 6146833 | 7084765 | 241 |
| | | | |
| MPG 65 A4 | 6933372 | 6006488 | 386 |
| MPG 65 FT | 6933259 | 6006486 | 386 |
| MPG 90 A4 | 6933433 | 6006489 | 386 |
| MPG 90 FT | 6933310 | 6006487 | 386 |
| | | | |
| | | price/100 | |
| MS 22 L 1MFT | 5502098 | 1122735 | 705 |
| | | /100 pc. | |
| MS 22 L 200 FT | 5499756 | 1122703 | 705 |
| MS 22 L 300 FT | 5499817 | 1122707 | 705 |
| | | price/100 | |
| MS 22 L 3M FT | 5117827 | 1122789 | 706 |
| MS 22 L 3M FT | 5502517 | 1122742 | 705 |
| | | /100 pc. | |
| MS 22 L 400 FT | 5499879 | 1122711 | 705 |
| MS 22 L 500 FT | 5500117 | 1122715 | 705 |
| MS 22 L 600 FT | 5500179 | 1122719 | 705 |
| | | price/100 | |
| MS 22 L 6M FT | 5502579 | 1122746 | 705 |
| | | /100 pc. | |
| MS 22 L 700 FT | 5500773 | 1122723 | 705 |
| MS 22 L 800 FT | 5501978 | 1122727 | 705 |
| | | | |
| MS4022 SK | 5785316 | 1124555 | 730 |
| | | /pc. | |
| MS4022P0192FT | 6355518 | 6007201 | 504 |
| MS4022P0292FT | 6005895 | 6007228 | 504 |
| MS4022P0392FT | 6005956 | 6007236 | 504 |
| MS4022P0492FT | 6006014 | 6007244 | 504 |
| MS4022P0592FT | 6006076 | 6007252 | 504 |
| MS4022P0692FT | 6006137 | 6007260 | 504 |
| MS4022P0792FT | 6006199 | 6007279 | 504 |
| MS4022P0892FT | 6006250 | 6007287 | 504 |
| MS4022P0992FT | 6006311 | 6007295 | 504 |
| MS4022P1092FT | 6006373 | 6007309 | 504 |
| MS4022P1192FT | 6006434 | 6007317 | 504 |
| | | price/100 | |
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| MS4022P2000A4 | 5905585 | 1121963 | 705 |
| MS4022P2000FT | 5050230 | 1121979 | 704 |
| MS4022P6000A2 | 5049999 | 1121901 | 704 |
| MS4022P6000A4 | 5907022 | 1121903 | 705 |
| MS4022P6000FT | 5049937 | 1121898 | 704 |
| | | /100 pc. | |
| MS40HB M10x30 A4 | 6489572 | 1148160 | 720 |
| MS40HB M10x30 ZL | 6489503 | 1148118 | 719 |
| MS40HB M10x60 A4 | 6489589 | 1148164 | 720 |
| MS40HB M10x60 ZL | 6489510 | 1148122 | 719 |
| MS40HB M12x30 A4 | 6489596 | 1148168 | 720 |
| MS40HB M12x30 ZL | 6489527 | 1148126 | 719 |
| MS40HB M12x60 A4 | 6489602 | 1148170 | 720 |
| MS40HB M12x60 ZL | 6489534 | 1148130 | 719 |
| MS40HB M6x30 A4 | 6489541 | 1148146 | 720 |
| MS40HB M6x30 ZL | 6489473 | 1148106 | 719 |
| MS40HB M8x30 A4 | 6489558 | 1148150 | 720 |
| MS40HB M8x30 ZL | 6489480 | 1148110 | 719 |
| MS40HB M8x60 A4 | 6489565 | 1148154 | 720 |
| MS40HB M8x60 ZL | 6489497 | 1148114 | 719 |
| MS40SN M10 A4 | 6489459 | 1147134 | 717 |
| MS40SN M10 ZL | 6489411 | 1147114 | 717 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /100 pc. | |
| MS40SN M12 A4 | 6489466 | 1147138 | 717 |
| MS40SN M12 ZL | 6489428 | 1147118 | 717 |
| MS40SN M6 A4 | 6489435 | 1147126 | 717 |
| MS40SN M6 ZL | 6489398 | 1147106 | 717 |
| MS40SN M8 A4 | 6489442 | 1147130 | 717 |
| MS40SN M8 ZL | 6489404 | 1147110 | 717 |
| | | | |
| MS4121 EK | 6255726 | 1122904 | 731 |
| MS4121 SK | 5686217 | 1122902 | 730 |
| MS4121P0200FS | 6471119 | 1122950 | 709 |
| MS4121P0200FT | 5697626 | 1122933 | 709 |
| MS4121P0300FS | 6471126 | 1122951 | 709 |
| MS4121P0300FT | 5697664 | 1122934 | 709 |
| MS4121P0400FS | 6471157 | 1122953 | 709 |
| MS4121P0400FT | 5697671 | 1122935 | 709 |
| MS4121P0500A2 | 6427239 | 1122930 | 710 |
| MS4121P0500FS | 6471164 | 1122955 | 709 |
| MS4121P0500FT | 5697688 | 1122936 | 709 |
| MS4121P0600FS | 6471171 | 1122956 | 709 |
| MS4121P0600FT | 5697725 | 1122937 | 709 |
| MS4121P0700FS | 6471188 | 1122958 | 709 |
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| MS4121P0800FS | 5848042 | 1122957 | 709 |
| MS4121P0800FT | 5697749 | 1122939 | 709 |
| MS4121P0900FS | 6471218 | 1122959 | 709 |
| MS4121P0900FT | 5697787 | 1122940 | 709 |
| | | price/100 | |
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| MS4121P2000A4 | 5907114 | 1122476 | 709 |
| MS4121P2000FS | 5686262 | 1122918 | 708 |
| MS4121P2000FT | 5697541 | 1122923 | 708 |
| MS4121P3000A2 | 5697558 | 1122928 | 709 |
| MS4121P3000A4 | 5697602 | 1122931 | 709 |
| MS4121P3000FS | 5686279 | 1122920 | 708 |
| MS4121P3000FT | 5686293 | 1122924 | 708 |
| MS4121P6000A2 | 5697565 | 1122929 | 709 |
| MS4121P6000A4 | 5697619 | 1122932 | 709 |
| MS4121P6000FS | 5686286 | 1122922 | 708 |
| MS4121P6000FT | 5686309 | 1122926 | 708 |
| | | /100 pc. | |
| MS4141 EK | 5894117 | 1122906 | 731 |
| MS4141 SK | 5686200 | 1122900 | 731 |
| MS4141P0200FT | 5484516 | 1122509 | 715 |
| MS4141P0300A4 | 5907138 | 1123033 | 713 |
| MS4141P0300FT | 5485896 | 1122517 | 715 |
| MS4141P0400A4 | 5907145 | 1123035 | 713 |
| MS4141P0400FT | 5486251 | 1122525 | 715 |
| MS4141P0500FT | 5486794 | 1122533 | 715 |
| MS4141P0600A4 | 5907169 | 1123039 | 715 |
| MS4141P0600FT | 5486916 | 1122541 | 715 |
| MS4141P0700FT | 5487036 | 1122568 | 715 |
| MS4141P0800FT | 5487098 | 1122576 | 715 |
| MS4141P0900FT | 5487159 | 1122584 | 715 |
| | | price/100 | |
| MS4141P1000FS | 5697503 | 1122908 | 711 |
| MS4141P1000FT | 5487272 | 1122606 | 711 |
| MS4141P3000A4 | 5907213 | 1123049 | 711 |
| MS4141P3000FS | 5686224 | 1122910 | 711 |
| MS4141P3000FT | 5487876 | 1122622 | 711 |
| MS4141P6000A4 | 5907220 | 1123051 | 711 |
| MS4141P6000FS | 5686231 | 1122912 | 711 |
| MS4141P6000FT | 5488170 | 1122657 | 711 |
| | | /100 pc. | |
| MS4141PP0300FT | 5356325 | 1122500 | 716 |
| MS4141PP0400FT | 5356332 | 1122501 | 716 |
| | | price/100 | |
| MS4141PP1000FS | 5697978 | 1122481 | 712 |
| MS4141PP1000FT | 5697961 | 1122479 | 712 |
| MS4141PP3000FS | 5686248 | 1122914 | 712 |
| MS4141PP3000FT | 5050735 | 1122483 | 712 |
| MS4141PP6000FS | 5686255 | 1122916 | 712 |
| MS4141PP6000FT | 5050742 | 1122487 | 712 |
| MS4142P3000FS | 5697848 | 1122947 | 710 |
| MS4142P3000FT | 5697794 | 1122944 | 710 |
| MS4142P6000A2 | 5938019 | 1122954 | 710 |
| MS4142P6000FS | 5697855 | 1122948 | 710 |
| MS4142P6000FT | 5697800 | 1122945 | 710 |
| MS4182P3000A2 | 5938026 | 1122682 | 716 |
| MS4182P3000FS | 5698036 | 1122676 | 716 |
| MS4182P3000FT | 5697985 | 1122671 | 716 |
| MS4182P6000A2 | 5938033 | 1122684 | 716 |
| MS4182P6000FS | 5698043 | 1122678 | 716 |
| MS4182P6000FT | 5698029 | 1122673 | 716 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /100 pc. | |
| MS41HB M10x100A4 | 6490370 | 1148430 | 721 |
| MS41HB M10x100ZL | 6490134 | 1148330 | 720 |
| MS41HB M10x30 A4 | 6490356 | 1148422 | 721 |
| MS41HB M10x30 ZL | 6490110 | 1148322 | 720 |
| MS41HB M10x60 A4 | 6490363 | 1148426 | 721 |
| MS41HB M10x60 ZL | 6490127 | 1148326 | 720 |
| MS41HB M12x100A4 | 6490431 | 1148442 | 721 |
| MS41HB M12x100ZL | 6490189 | 1148342 | 720 |
| MS41HB M12x30 A4 | 6490387 | 1148434 | 721 |
| MS41HB M12x30 ZL | 6490141 | 1148334 | 720 |
| MS41HB M12x60 A4 | 6490424 | 1148438 | 721 |
| MS41HB M12x60 ZL | 6490172 | 1148338 | 720 |
| MS41HB M6x30 A4 | 6490295 | 1148406 | 721 |
| MS41HB M6x30 ZL | 6490059 | 1148306 | 720 |
| MS41HB M8x100 A4 | 6490325 | 1148418 | 721 |
| MS41HB M8x100 ZL | 6490080 | 1148318 | 720 |
| MS41HB M8x20 ZL | 7258207 | 1148350 | 722 |
| | | /100 pc. | |
| MS41HB M8x30 A4 | 6490301 | 1148410 | 721 |
| MS41HB M8x30 ZL | 6490066 | 1148310 | 720 |
| MS41HB M8x60 A4 | 6490318 | 1148414 | 721 |
| MS41HB M8x60 ZL | 6490073 | 1148314 | 720 |
| MS41HBF M10x30A4 | 6490493 | 1148484 | 721 |
| MS41HBF M10x30FT | 6490233 | 1148384 | 721 |
| MS41HBF M10x60A4 | 6490509 | 1148488 | 721 |
| MS41HBF M10x60FT | 6490240 | 1148388 | 721 |
| MS41HBF M12x30A4 | 6490547 | 1148492 | 721 |
| MS41HBF M12x30FT | 6490257 | 1148392 | 721 |
| MS41HBF M12x60A4 | 6490554 | 1148496 | 721 |
| MS41HBF M12x60FT | 6490264 | 1148396 | 721 |
| MS41HBF M8x30 A4 | 6490448 | 1148476 | 721 |
| MS41HBF M8x30 FT | 6490196 | 1148376 | 721 |
| MS41HBF M8x60 A4 | 6490486 | 1148480 | 721 |
| MS41HBF M8x60 FT | 6490202 | 1148380 | 721 |
| MS41SN M10 A4 | 6489916 | 1147234 | 718 |
| MS41SN M10 ZL | 6489879 | 1147214 | 717 |
| MS41SN M12 A4 | 6489923 | 1147238 | 718 |
| MS41SN M12 ZL | 6489886 | 1147218 | 717 |
| MS41SN M6 A4 | 6489893 | 1147226 | 718 |
| MS41SN M6 ZL | 6489855 | 1147206 | 717 |
| MS41SN M8 A4 | 6489909 | 1147230 | 718 |
| MS41SN M8 ZL | 6489862 | 1147210 | 717 |
| MS41SNF M10 A4 | 6490011 | 1147344 | 718 |
| MS41SNF M10 F | 6489954 | 1147314 | 718 |
| MS41SNF M12 A4 | 6490028 | 1147348 | 718 |
| MS41SNF M12 F | 6489961 | 1147318 | 718 |
| MS41SNF M6 A4 | 6489992 | 1147336 | 718 |
| MS41SNF M6 F | 6489930 | 1147306 | 718 |
| MS41SNF M8 A4 | 6490004 | 1147340 | 718 |
| MS41SNF M8 F | 6489947 | 1147310 | 718 |
| | | | |
| MS5030 SK | 5785323 | 1124563 | 730 |
| | | /pc. | |
| MS5030P0200A4 | 5906971 | 1121393 | 708 |
| MS5030P0200FT | 5745037 | 1121391 | 707 |
| MS5030P0300FT | 5672975 | 1121243 | 707 |
| MS5030P0400A4 | 5906919 | 1121280 | 708 |
| MS5030P0400FT | 5672555 | 1121278 | 707 |
| MS5030P0500FT | 5886334 | 1121405 | 707 |
| MS5030P0600FT | 5672494 | 1121294 | 707 |
| MS5030P0700FT | 5672616 | 1121332 | 707 |
| MS5030P0800FT | 5882251 | 1121308 | 707 |
| MS5030P0900FT | 5068310 | 1121336 | 707 |
| | | price/100 | |
| MS5030P1000FT | 5886211 | 1121448 | 707 |
| | | /pc. | |
| MS5030P1500FT | 5514572 | 1121363 | 707 |
| | | price/100 | |
| MS5030P2000A2 | 5049272 | 1121480 | 707 |
| MS5030P2000A4 | 5906995 | 1121465 | 707 |
| MS5030P2000FT | 5049210 | 1121464 | 707 |
| MS5030P3000FT | 5419686 | 1121466 | 707 |
| MS5030P6000A2 | 5049333 | 1121499 | 707 |
| MS5030P6000A4 | 5907015 | 1121473 | 707 |
| MS5030P6000FT | 5462491 | 1121472 | 707 |
| | | /pc. | |
| MS5030RP0220FT | 6191710 | 6349404 | 706 |
| MS5030RP0260FT | 6191772 | 6349412 | 706 |
| MS5030RP0300FT | 6191833 | 6349439 | 706 |
| MS5030RP0340FT | 6191895 | 6349447 | 706 |
| MS5030RP0380FT | 6191956 | 6349463 | 706 |
| | | price/100 | |
| MS5030UP2000FT | 6471065 | 1121524 | 714 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/100 | |
| MS5030UP6000BK | 5049395 | 1121502 | 714 |
| MS5030UP6000FT | 5049517 | 1121529 | 714 |
| MS5040P3000FT | 5771906 | 1111560 | 717 |
| | | /100 pc. | |
| MS50HB M10x30 A4 | 6489794 | 1148268 | 720 |
| MS50HB M10x30 ZL | 6489725 | 1148218 | 720 |
| MS50HB M10x60 A4 | 6489800 | 1148272 | 720 |
| MS50HB M10x60 ZL | 6489732 | 1148222 | 720 |
| MS50HB M12x30 A4 | 6489817 | 1148276 | 720 |
| MS50HB M12x30 ZL | 6489749 | 1148226 | 720 |
| MS50HB M12x60 A4 | 6489824 | 1148280 | 720 |
| MS50HB M12x60 ZL | 6489756 | 1148230 | 720 |
| MS50HB M6x30 A4 | 6489763 | 1148256 | 720 |
| MS50HB M6x30 ZL | 6489695 | 1148206 | 720 |
| MS50HB M8x30 A4 | 6489770 | 1148260 | 720 |
| MS50HB M8x30 ZL | 6489701 | 1148210 | 720 |
| MS50HB M8x60 A4 | 6489787 | 1148264 | 720 |
| MS50HB M8x60 ZL | 6489718 | 1148214 | 720 |
| MS50SN M10 A4 | 6489671 | 1147190 | 718 |
| MS50SN M10 ZL | 6489633 | 1147164 | 718 |
| MS50SN M12 A4 | 6489688 | 1147194 | 718 |
| MS50SN M12 ZL | 6489640 | 1147168 | 718 |
| MS50SN M6 A4 | 6489657 | 1147172 | 718 |
| MS50SN M6 ZL | 6489619 | 1147156 | 718 |
| MS50SN M8 A4 | 6489664 | 1147186 | 718 |
| MS50SN M8 ZL | 6489626 | 1147160 | 718 |
| | | | |
| MSL4141P0200FS | 6471232 | 1123262 | 713 |
| MSL4141P0300FS | 6471249 | 1123264 | 713 |
| MSL4141P0400FS | 6471270 | 1123266 | 713 |
| MSL4141P0500FS | 6471287 | 1123268 | 713 |
| MSL4141P0600FS | 6471294 | 1123270 | 713 |
| MSL4141P0700FS | 6471300 | 1123272 | 713 |
| MSL4141P0800FS | 6471317 | 1123274 | 713 |
| MSL4141P0900FS | 6471324 | 1123276 | 713 |
| | | price/100 | |
| MSL4141P1000A2 | 5698203 | 1122978 | 711 |
| MSL4141P1000A4 | 5698265 | 1122988 | 711 |
| MSL4141P1000FS | 5698142 | 1122970 | 711 |
| MSL4141P1000FT | 5698081 | 1122962 | 711 |
| MSL4141P3000A2 | 5698210 | 1122980 | 711 |
| MSL4141P3000A4 | 5698272 | 1122990 | 711 |
| MSL4141P3000FS | 5698159 | 1122972 | 711 |
| MSL4141P3000FT | 5698098 | 1122964 | 711 |
| MSL4141P6000A2 | 5698227 | 1122982 | 711 |
| MSL4141P6000A4 | 5698289 | 1122992 | 711 |
| MSL4141P6000FS | 5698166 | 1122974 | 711 |
| MSL4141P6000FT | 5698104 | 1122966 | 711 |
| MSL4141PP1000A2 | 5698333 | 1123014 | 712 |
| MSL4141PP1000A4 | 5698395 | 1123021 | 712 |
| MSL4141PP1000FS | 5697923 | 1123008 | 712 |
| MSL4141PP1000FT | 5697862 | 1123001 | 712 |
| MSL4141PP3000A2 | 5698340 | 1123016 | 712 |
| MSL4141PP3000A4 | 5698401 | 1123023 | 712 |
| MSL4141PP3000FS | 5698319 | 1123010 | 712 |
| MSL4141PP3000FT | 5697909 | 1123003 | 712 |
| MSL4141PP6000A2 | 5698388 | 1123018 | 712 |
| MSL4141PP6000A4 | 5698432 | 1123025 | 712 |
| MSL4141PP6000FS | 5698326 | 1123012 | 712 |
| MSL4141PP6000FT | 5697916 | 1123005 | 712 |
| | | | |
| | | /pc. | |
| MW 45 SL10 A2 | 6013753 | 6017339 | 387 |
| MW 45 SL10 FT | 6013692 | 6017320 | 387 |
| | | | |
| MW 90 SL17 A2 | 6012855 | 6016278 | 388 |
| MW 90 SL17 FT | 6013814 | 6017347 | 387 |
| MW 90 SL23 A2 | 6012916 | 6016308 | 388 |
| MW 90 SL23 FT | 6013876 | 6017355 | 387 |
| | | | |
| MWA 12 11S A2 | 7253523 | 6424430 | 548 |
| MWA 12 11S A4 | 7253646 | 6424440 | 548 |
| | | /pc. | |
| MWA 12 11S FS | 6636853 | 6424716 | 547 |
| MWA 12 21S A2 | 7253554 | 6424432 | 548 |
| MWA 12 21S A4 | 7253677 | 6424442 | 548 |
| | | /pc. | |
| MWA 12 21S FS | 6636976 | 6424732 | 547 |
| MWA 12 21SFSK RW | 6649860 | 6424620 | 549 |
| MWA 12 31S A2 | 7253585 | 6424434 | 548 |
| MWA 12 31S A4 | 7253707 | 6424444 | 548 |
| | | /pc. | |
| MWA 12 31S FS | 6637034 | 6424740 | 547 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| MWA 12 41S A2 | 7253615 | 6424436 | 548 |
| MWA 12 41S A4 | 7253738 | 6424446 | 548 |
| | | /pc. | |
| MWA 12 41S FS | 6637096 | 6424759 | 547 |
| | | | |
| MWAG 12 11 A2 | 7253769 | 6424400 | 552 |
| MWAG 12 11 A4 | 7253912 | 6424410 | 552 |
| | | /pc. | |
| MWAG 12 11 FS | 6324736 | 6424600 | 551 |
| MWAG 12 21 A2 | 7253790 | 6424402 | 552 |
| MWAG 12 21 A4 | 7253967 | 6424412 | 552 |
| | | /pc. | |
| MWAG 12 21 FS | 6325030 | 6424608 | 551 |
| MWAG 12 31 A2 | 7253851 | 6424404 | 552 |
| MWAG 12 31 A4 | 7254018 | 6424414 | 552 |
| | | /pc. | |
| MWAG 12 31 FS | 6325337 | 6424616 | 551 |
| MWAG 12 41 A2 | 7253882 | 6424406 | 552 |
| MWAG 12 41 A4 | 7254049 | 6424416 | 552 |
| | | /pc. | |
| MWAG 12 41 FS | 6325634 | 6424624 | 551 |
| | | | |
| MWAM 12 11 FS | 5438526 | 6424550 | 550 |
| MWAM 12 21 FS | 5438533 | 6424552 | 550 |
| MWAM 12 31 FS | 5438540 | 6424554 | 550 |
| MWAM 12 41 FS | 5438571 | 6424556 | 550 |
| | | | |
| OSG 20X3 FT | 6326112 | 6017371 | 377 |
| | | | |
| RAA 110 FS | 6819799 | 7002637 | 234 |
| RAA 110 FT | 6813490 | 7123116 | 234 |
| RAA 120 FS | 6819850 | 7002653 | 234 |
| RAA 120 FT | 6813551 | 7123213 | 234 |
| RAA 130 FS | 6819911 | 7002688 | 234 |
| RAA 130 FT | 6813674 | 7123310 | 234 |
| RAA 140 FS | 6213610 | 7002696 | 234 |
| RAA 140 FT | 6247097 | 7123396 | 234 |
| RAA 150 FS | 6213672 | 7002726 | 234 |
| RAA 150 FT | 6247158 | 7123507 | 234 |
| RAA 155 FS | 6213733 | 7002734 | 234 |
| RAA 155 FT | 6247219 | 7123558 | 234 |
| RAA 160 FT SO | 6028627 | 7196178 | 234 |
| RAA 305 FS | 6687664 | 7120450 | 85 |
| RAA 305 FT | 6688654 | 7120458 | 85 |
| | | /pc. | |
| RAA 310 FS | 6453191 | 6040322 | 85 |
| RAA 310 FT | 6812950 | 7120117 | 85 |
| RAA 315 FT | 5815754 | 7120140 | 85 |
| RAA 320 FS | 6449835 | 6040349 | 85 |
| RAA 320 FT | 6813018 | 7120214 | 85 |
| RAA 330 FS | 6453672 | 6040357 | 85 |
| RAA 330 FT | 6813070 | 7120311 | 85 |
| RAA 605 FS | 6687671 | 7120460 | 164 |
| RAA 605 FT | 6688661 | 7120468 | 164 |
| | | /pc. | |
| RAA 607.5 FS | 6520671 | 6050353 | 528 |
| RAA 607.5 LTR FS | 6520695 | 6050354 | 527 |
| RAA 610 A2 | 6821235 | 7136120 | 165 |
| RAA 610 A4 | 5675686 | 7136122 | 165 |
| RAA 610 FS | 6379392 | 6040403 | 164 |
| RAA 610 FT | 6813131 | 7121109 | 164 |
| RAA 615 FS | 6502639 | 6040411 | 164 |
| RAA 615 FT | 6027002 | 7121205 | 164 |
| RAA 620 A2 | 6821297 | 7136133 | 165 |
| RAA 620 A4 | 5866695 | 7136135 | 165 |
| RAA 620 FS | 6379453 | 6040438 | 164 |
| RAA 620 FT | 6813193 | 7121210 | 164 |
| RAA 630 A2 | 6821358 | 7136141 | 165 |
| RAA 630 A4 | 5866701 | 7136143 | 165 |
| RAA 630 FS | 6379514 | 6040446 | 164 |
| RAA 630 FT | 6813254 | 7121318 | 164 |
| RAA 640 A2 | 6256877 | 7136242 | 165 |
| RAA 640 A4 | 5866749 | 7136244 | 165 |
| RAA 640 FS | 6212897 | 7002394 | 165 |
| RAA 640 FT | 6246373 | 7121407 | 165 |
| RAA 640 FT SO | 5978039 | 7196188 | 165 |
| RAA 650 A2 | 6256938 | 7136250 | 165 |
| RAA 650 A4 | 5866756 | 7136252 | 165 |
| RAA 650 FS | 6212958 | 7002416 | 165 |
| RAA 650 FT | 6246434 | 7121504 | 165 |
| RAA 660 A2 | 6256990 | 7136269 | 165 |
| RAA 660 A4 | 5866763 | 7136271 | 165 |
| RAA 660 FS | 6213016 | 7002432 | 165 |
| RAA 660 FT | 6246496 | 7121601 | 165 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| RAA 660 FT SO | 5862314 | 7196190 | 165 |
| RAA 810 FS | 6819614 | 7002475 | 195 |
| RAA 810 FT | 6813315 | 7122109 | 195 |
| RAA 820 FS | 6819676 | 7002491 | 195 |
| RAA 820 FT | 6813377 | 7122213 | 195 |
| RAA 830 FS | 6819737 | 7002513 | 195 |
| RAA 830 FT | 6813438 | 7122310 | 195 |
| RAA 840 FS | 6213252 | 7002521 | 195 |
| RAA 840 FT | 6246731 | 7122403 | 195 |
| RAA 850 FS | 6213313 | 7002556 | 195 |
| RAA 850 FT | 6246793 | 7122500 | 195 |
| RAA 860 FS | 6213375 | 7002572 | 195 |
| RAA 860 FT | 6246854 | 7122608 | 195 |
| | | | |
| RAAM 110 A2 | 5882176 | 6041960 | 215 |
| RAAM 110 FS | 5882039 | 6041920 | 214 |
| RAAM 110 FT | 5882091 | 6041940 | 214 |
| RAAM 115 FS | 5896067 | 6041921 | 214 |
| RAAM 115 FT | 5896074 | 6041941 | 214 |
| RAAM 120 A2 | 5882183 | 6041962 | 215 |
| RAAM 120 FS | 5882046 | 6041922 | 214 |
| RAAM 120 FT | 5882107 | 6041942 | 214 |
| RAAM 130 A2 | 5882190 | 6041964 | 215 |
| RAAM 130 FS | 5882053 | 6041924 | 214 |
| RAAM 130 FT | 5882114 | 6041944 | 214 |
| RAAM 140 A2 | 5882206 | 6041966 | 215 |
| RAAM 140 FS | 5882060 | 6041926 | 214 |
| RAAM 140 FT | 5882121 | 6041946 | 214 |
| RAAM 150 A2 | 5882213 | 6041968 | 215 |
| RAAM 150 FS | 5882077 | 6041928 | 214 |
| RAAM 150 FT | 5882152 | 6041948 | 214 |
| RAAM 160 A2 | 5882220 | 6041970 | 215 |
| RAAM 160 FS | 5882084 | 6041930 | 214 |
| RAAM 160 FT | 5882169 | 6041950 | 214 |
| RAAM 310 FS | 5881353 | 6041020 | 78 |
| RAAM 320 FS | 5881513 | 6041022 | 78 |
| RAAM 330 FS | 5881520 | 6041024 | 78 |
| RAAM 610 A2 | 5878797 | 6041270 | 116 |
| RAAM 610 A4 | 5878865 | 6041290 | 116 |
| RAAM 610 FS | 5878568 | 6041230 | 115 |
| RAAM 610 FT | 5878698 | 6041250 | 115 |
| RAAM 615 FS | 5878575 | 6041232 | 115 |
| RAAM 615 FT | 5878704 | 6041252 | 115 |
| RAAM 620 A2 | 5878810 | 6041275 | 116 |
| RAAM 620 A4 | 5878889 | 6041294 | 116 |
| RAAM 620 FS | 5878582 | 6041234 | 115 |
| RAAM 620 FT | 5878742 | 6041254 | 115 |
| RAAM 630 A2 | 5878827 | 6041277 | 116 |
| RAAM 630 A4 | 5878926 | 6041296 | 116 |
| RAAM 630 FS | 5878629 | 6041236 | 115 |
| RAAM 630 FT | 5878759 | 6041257 | 115 |
| RAAM 640 A2 | 5878834 | 6041279 | 116 |
| RAAM 640 A4 | 5878933 | 6041298 | 116 |
| RAAM 640 FS | 5878636 | 6041238 | 115 |
| RAAM 640 FT | 5878766 | 6041259 | 115 |
| RAAM 650 A2 | 5878841 | 6041282 | 116 |
| RAAM 650 A4 | 5878940 | 6041300 | 116 |
| RAAM 650 FS | 5878643 | 6041240 | 115 |
| RAAM 650 FT | 5878773 | 6041261 | 115 |
| RAAM 660 A2 | 5878858 | 6041284 | 116 |
| RAAM 660 A4 | 5878988 | 6041303 | 116 |
| RAAM 660 FS | 5878681 | 6041242 | 115 |
| RAAM 660 FT | 5878780 | 6041263 | 115 |
| RAAM 810 FS | 5880851 | 6041570 | 181 |
| RAAM 810 FT | 5880912 | 6041590 | 181 |
| RAAM 820 FS | 5880868 | 6041572 | 181 |
| RAAM 820 FT | 5880929 | 6041592 | 181 |
| RAAM 830 FS | 5880875 | 6041574 | 181 |
| RAAM 830 FT | 5880967 | 6041594 | 181 |
| RAAM 840 FS | 5880882 | 6041576 | 181 |
| RAAM 840 FT | 5880974 | 6041596 | 181 |
| RAAM 850 FS | 5880899 | 6041578 | 181 |
| RAAM 850 FT | 5880981 | 6041598 | 181 |
| RAAM 860 FS | 5880905 | 6041580 | 181 |
| RAAM 860 FT | 5881025 | 6041600 | 181 |
| | | | |
| RB 45 110 FS | 6818594 | 7000634 | 232 |
| RB 45 110 FT | 6991280 | 7068115 | 232 |
| RB 45 120 FS | 6818778 | 7000650 | 232 |
| RB 45 120 FT | 6991341 | 7068212 | 232 |
| RB 45 130 FS | 6818839 | 7000677 | 232 |
| RB 45 130 FT | 6991402 | 7068328 | 232 |
| RB 45 140 FS | 6211098 | 7000685 | 232 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| RB 45 140 FT | 6225552 | 7068409 | 232 |
| RB 45 150 FS | 6211159 | 7000707 | 232 |
| RB 45 150 FT | 6225613 | 7068506 | 232 |
| RB 45 155 FS | 6211210 | 7000715 | 232 |
| RB 45 155 FT | 6225675 | 7068557 | 232 |
| RB 45 310 FS | 6052035 | 6043704 | 84 |
| RB 45 310 FT | 6990740 | 7065116 | 84 |
| RB 45 315 FT | 6926893 | 7065167 | 84 |
| RB 45 320 FS | 6052097 | 6043712 | 84 |
| RB 45 320 FT | 6990801 | 7065213 | 84 |
| RB 45 330 FS | 6052158 | 6043720 | 84 |
| RB 45 330 FT | 6990863 | 7065310 | 84 |
| RB 45 610 FS | 6052271 | 6043763 | 162 |
| RB 45 610 FT | 6990924 | 7066112 | 162 |
| RB 45 615 FS | 6052219 | 6043755 | 162 |
| RB 45 615 FT | 6901579 | 7066158 | 162 |
| RB 45 620 FS | 6052332 | 6043771 | 162 |
| RB 45 620 FT | 6990986 | 7066228 | 162 |
| RB 45 630 FS | 6052394 | 6043798 | 162 |
| RB 45 630 FT | 6991044 | 7066317 | 162 |
| RB 45 640 FS | 6210374 | 7000383 | 162 |
| RB 45 640 FT | 6224838 | 7066406 | 162 |
| RB 45 650 FS | 6210435 | 7000405 | 162 |
| RB 45 650 FT | 6224890 | 7066503 | 162 |
| RB 45 660 FS | 6210497 | 7000421 | 162 |
| RB 45 660 FT | 6224951 | 7066600 | 162 |
| RB 45 810 FS | 6818419 | 7000472 | 193 |
| RB 45 810 FT | 6991105 | 7067119 | 193 |
| RB 45 820 FS | 6818471 | 7000499 | 193 |
| RB 45 820 FT | 6991167 | 7067216 | 193 |
| RB 45 830 FS | 6818532 | 7000510 | 193 |
| RB 45 830 FT | 6991228 | 7067313 | 193 |
| RB 45 840 FS | 6210732 | 7000529 | 193 |
| RB 45 840 FT | 6225194 | 7067402 | 193 |
| RB 45 850 FS | 6210794 | 7000545 | 193 |
| RB 45 850 FT | 6225255 | 7067496 | 193 |
| RB 45 860 FS | 6210855 | 7000561 | 193 |
| RB 45 860 FT | 6225316 | 7067607 | 193 |
| | | | |
| RB 90 110 FS | 6819430 | 7001894 | 232 |
| RB 90 110 FT | 6814695 | 7127103 | 232 |
| RB 90 110 FT SO | 6696307 | 7196105 | 233 |
| | | /pc. | |
| RB 90 120 FS | 6819492 | 7001916 | 232 |
| RB 90 120 FT | 6814756 | 7127227 | 232 |
| RB 90 120 FT SO | 6028412 | 7196107 | 233 |
| RB 90 130 FS | 6819553 | 7001932 | 232 |
| RB 90 130 FT | 6814817 | 7127320 | 232 |
| RB 90 130 FT SO | 5858669 | 7196110 | 233 |
| RB 90 140 FS | 6212354 | 7001940 | 232 |
| RB 90 140 FT | 6248414 | 7127413 | 232 |
| RB 90 140 FT SO | 6067510 | 7196113 | 233 |
| RB 90 150 FS | 6212415 | 7001967 | 232 |
| RB 90 150 FT | 6248476 | 7127499 | 232 |
| RB 90 150 FT SO | 6696321 | 7196115 | 233 |
| | | /pc. | |
| RB 90 155 FS | 6212477 | 7001975 | 232 |
| RB 90 155 FT | 6248537 | 7127545 | 232 |
| RB 90 160 FT | 6935475 | 7127627 | 232 |
| RB 90 160 FT SO | 6696390 | 7196122 | 233 |
| RB 90 305 FS | 6687640 | 7124400 | 85 |
| RB 90 305 FT | 6688630 | 7124410 | 85 |
| | | /pc. | |
| RB 90 310 FS | 6050239 | 6043119 | 85 |
| RB 90 310 FT | 6813919 | 7124120 | 85 |
| RB 90 315 FS | 6926657 | 6043123 | 85 |
| RB 90 320 FS | 6050291 | 6043127 | 85 |
| RB 90 320 FT | 6813971 | 7124236 | 85 |
| RB 90 330 FS | 6050352 | 6043135 | 85 |
| RB 90 330 FT | 6814039 | 7124325 | 85 |
| RB 90 605 FS | 6687657 | 7124430 | 163 |
| RB 90 605 FT | 6688647 | 7124438 | 163 |
| | | /pc. | |
| RB 90 610 A2 | 6820870 | 7134122 | 163 |
| RB 90 610 A4 | 5866541 | 7134286 | 163 |
| RB 90 610 FS | 6050475 | 6043216 | 163 |
| RB 90 610 FT | 6814091 | 7125100 | 163 |
| RB 90 615 FS | 6050413 | 6043208 | 163 |
| RB 90 615 FT | 6901753 | 7125189 | 163 |
| RB 90 620 A2 | 6820931 | 7134130 | 163 |
| RB 90 620 A4 | 5866558 | 7134288 | 163 |
| RB 90 620 FS | 6050536 | 6043224 | 163 |
| RB 90 620 FT | 6814152 | 7125220 | 163 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. /pc. | Page |
|---|---|---|---|
| RB 90 630 A2 | 6820993 | 7134138 | 163 |
| RB 90 630 A4 | 5866565 | 7134290 | 163 |
| RB 90 630 FS | 6050598 | 6043232 | 163 |
| RB 90 630 FT | 6814336 | 7125305 | 163 |
| RB 90 640 FS | 6211630 | 7001290 | 163 |
| RB 90 640 FT | 6247691 | 7125410 | 163 |
| RB 90 640 FT SO | 5385806 | 7196286 | 164 |
| RB 90 650 FS | 6211692 | 7001304 | 163 |
| RB 90 650 FT | 6247752 | 7125526 | 163 |
| RB 90 660 FS | 6211753 | 7001312 | 163 |
| RB 90 660 FT | 6247813 | 7125585 | 163 |
| RB 90 660 FT SO | 5385851 | 7196290 | 115 |
| RB 90 810 FS | 6818891 | 7001762 | 193 |
| RB 90 810 FT | 6814510 | 7126127 | 193 |
| RB 90 820 FS | 6819317 | 7001789 | 193 |
| RB 90 820 FT | 6814572 | 7126216 | 193 |
| RB 90 830 FS | 6819379 | 7001800 | 193 |
| RB 90 830 FT | 6814633 | 7126301 | 193 |
| RB 90 840 FS | 6211999 | 7001819 | 194 |
| RB 90 840 FT | 6248056 | 7126417 | 194 |
| RB 90 850 FS | 6212057 | 7001835 | 194 |
| RB 90 850 FT | 6248117 | 7126514 | 194 |
| RB 90 860 FS | 6212118 | 7001851 | 194 |
| RB 90 860 FT | 6248179 | 7126611 | 194 |
| RBM 45 110 FS | 5880141 | 6041750 | 213 |
| RBM 45 110 FT | 5880264 | 6041780 | 213 |
| RBM 45 115 FS | 5895961 | 6041751 | 213 |
| RBM 45 115 FT | 5895978 | 6041781 | 213 |
| RBM 45 120 FS | 5880189 | 6041752 | 213 |
| RBM 45 120 FT | 5880295 | 6041782 | 213 |
| RBM 45 130 FS | 5880196 | 6041754 | 213 |
| RBM 45 130 FT | 5880301 | 6041784 | 213 |
| RBM 45 140 FS | 5880202 | 6041756 | 213 |
| RBM 45 140 FT | 5880318 | 6041786 | 213 |
| RBM 45 150 FS | 5880240 | 6041758 | 213 |
| RBM 45 150 FT | 5880325 | 6041788 | 213 |
| RBM 45 160 FS | 5880257 | 6041760 | 213 |
| RBM 45 160 FT | 5880356 | 6041790 | 213 |
| RBM 45 310 FS | 5877615 | 6041000 | 78 |
| RBM 45 320 FS | 5881285 | 6041002 | 78 |
| RBM 45 330 FS | 5881315 | 6041004 | 78 |
| RBM 45 610 FS | 5881537 | 6041040 | 114 |
| RBM 45 610 FT | 5881605 | 6041060 | 114 |
| RBM 45 615 FS | 5881544 | 6041042 | 114 |
| RBM 45 615 FT | 5881612 | 6041062 | 114 |
| RBM 45 620 FS | 5881551 | 6041044 | 114 |
| RBM 45 620 FT | 5881629 | 6041064 | 114 |
| RBM 45 630 FS | 5881568 | 6041046 | 114 |
| RBM 45 630 FT | 5881636 | 6041066 | 114 |
| RBM 45 640 FS | 5881575 | 6041048 | 114 |
| RBM 45 640 FT | 5881643 | 6041068 | 114 |
| RBM 45 650 FS | 5881582 | 6041050 | 114 |
| RBM 45 650 FT | 5881650 | 6041070 | 114 |
| RBM 45 660 FS | 5881599 | 6041052 | 114 |
| RBM 45 660 FT | 5881667 | 6041072 | 114 |
| RBM 45 810 FS | 5879541 | 6041410 | 180 |
| RBM 45 810 FT | 5879657 | 6041430 | 180 |
| RBM 45 820 FS | 5879589 | 6041412 | 180 |
| RBM 45 820 FT | 5879664 | 6041432 | 180 |
| RBM 45 830 FS | 5879596 | 6041414 | 180 |
| RBM 45 830 FT | 5879701 | 6041434 | 180 |
| RBM 45 840 FS | 5879602 | 6041416 | 180 |
| RBM 45 840 FT | 5879718 | 6041436 | 180 |
| RBM 45 850 FS | 5879633 | 6041418 | 180 |
| RBM 45 850 FT | 5879725 | 6041438 | 180 |
| RBM 45 860 FS | 5879640 | 6041420 | 180 |
| RBM 45 860 FT | 5879756 | 6041440 | 180 |
| RBM 90 110 A2 | 5880783 | 6041880 | 214 |
| RBM 90 110 FS | 5880547 | 6041840 | 213 |
| RBM 90 110 FT | 5880608 | 6041860 | 213 |
| RBM 90 115 FS | 5896029 | 6041841 | 213 |
| RBM 90 115 FT | 5896036 | 6041861 | 213 |
| RBM 90 120 A2 | 5880790 | 6041882 | 214 |
| RBM 90 120 FS | 5880554 | 6041842 | 213 |
| RBM 90 120 FT | 5880738 | 6041862 | 213 |
| RBM 90 130 A2 | 5880806 | 6041884 | 214 |
| RBM 90 130 FS | 5880561 | 6041844 | 213 |
| RBM 90 130 FT | 5880745 | 6041864 | 213 |
| RBM 90 140 A2 | 5880813 | 6041886 | 214 |
| RBM 90 140 FS | 5880578 | 6041846 | 213 |
| RBM 90 140 FT | 5880752 | 6041866 | 213 |
| RBM 90 150 A2 | 5880820 | 6041888 | 214 |

| Type | GTIN | Item no. /pc. | Page |
|---|---|---|---|
| RBM 90 150 FS | 5880585 | 6041848 | 213 |
| RBM 90 150 FT | 5880769 | 6041868 | 213 |
| RBM 90 160 A2 | 5880837 | 6041890 | 214 |
| RBM 90 160 FS | 5880592 | 6041850 | 213 |
| RBM 90 160 FT | 5880776 | 6041870 | 213 |
| RBM 90 310 FS | 5881322 | 6041010 | 78 |
| RBM 90 320 FS | 5881339 | 6041012 | 78 |
| RBM 90 330 FS | 5881346 | 6041014 | 78 |
| RBM 90 610 A2 | 5881957 | 6041180 | 115 |
| RBM 90 610 A4 | 5878407 | 6041200 | 115 |
| RBM 90 610 FS | 5881810 | 6041130 | 114 |
| RBM 90 610 FT | 5881889 | 6041150 | 114 |
| RBM 90 615 A4 | 5878445 | 6041202 | 115 |
| RBM 90 615 FS | 5881827 | 6041132 | 114 |
| RBM 90 615 FT | 5881896 | 6041152 | 114 |
| RBM 90 620 A2 | 5878322 | 6041184 | 115 |
| RBM 90 620 A4 | 5878452 | 6041204 | 115 |
| RBM 90 620 FS | 5881834 | 6041134 | 114 |
| RBM 90 620 FT | 5881902 | 6041154 | 114 |
| RBM 90 630 A2 | 5878339 | 6041186 | 115 |
| RBM 90 630 A4 | 5878469 | 6041206 | 115 |
| RBM 90 630 FS | 5881841 | 6041136 | 114 |
| RBM 90 630 FT | 5881919 | 6041156 | 114 |
| RBM 90 640 A2 | 5878346 | 6041188 | 115 |
| RBM 90 640 A4 | 5878506 | 6041208 | 115 |
| RBM 90 640 FS | 5881858 | 6041138 | 114 |
| RBM 90 640 FT | 5881926 | 6041158 | 114 |
| RBM 90 650 A2 | 5878384 | 6041190 | 115 |
| RBM 90 650 A4 | 5878513 | 6041210 | 115 |
| RBM 90 650 FS | 5881865 | 6041140 | 114 |
| RBM 90 650 FT | 5881933 | 6041160 | 114 |
| RBM 90 660 A2 | 5878391 | 6041192 | 115 |
| RBM 90 660 A4 | 5878520 | 6041212 | 115 |
| RBM 90 660 FS | 5881872 | 6041142 | 114 |
| RBM 90 660 FT | 5881940 | 6041162 | 114 |
| RBM 90 810 FS | 5879886 | 6041490 | 180 |
| RBM 90 810 FT | 5879978 | 6041510 | 180 |
| RBM 90 820 FS | 5879893 | 6041492 | 180 |
| RBM 90 820 FT | 5879985 | 6041512 | 180 |
| RBM 90 830 FS | 5879909 | 6041494 | 180 |
| RBM 90 830 FT | 5879992 | 6041514 | 180 |
| RBM 90 840 FS | 5879947 | 6041496 | 180 |
| RBM 90 840 FT | 5880004 | 6041516 | 180 |
| RBM 90 850 FS | 5879954 | 6041498 | 180 |
| RBM 90 850 FT | 5880011 | 6041518 | 180 |
| RBM 90 860 FS | 5879961 | 6041500 | 180 |
| RBM 90 860 FT | 5880028 | 6041520 | 180 |
| RBMV 110 FS | 5992745 | 6040680 | 214 |
| RBMV 110 FT | 5992813 | 6040700 | 214 |
| RBMV 115 FS | 5992752 | 6040682 | 214 |
| RBMV 115 FT | 5992820 | 6040702 | 214 |
| RBMV 120 FS | 5992769 | 6040684 | 214 |
| RBMV 120 FT | 5992837 | 6040704 | 214 |
| RBMV 130 FS | 5992776 | 6040686 | 214 |
| RBMV 130 FT | 5992844 | 6040706 | 214 |
| RBMV 140 FS | 5992783 | 6040688 | 214 |
| RBMV 140 FT | 5992851 | 6040708 | 214 |
| RBMV 150 FS | 5992790 | 6040690 | 214 |
| RBMV 150 FT | 5992868 | 6040710 | 214 |
| RBMV 160 FS | 5992806 | 6040692 | 214 |
| RBMV 160 FT | 5992875 | 6040712 | 214 |
| RBMV 610 A2 | 5992288 | 6040520 | 114 |
| RBMV 610 A4 | 5992356 | 6040540 | 114 |
| RBMV 610 FS | 5992141 | 6040480 | 113 |
| RBMV 610 FT | 5992219 | 6040500 | 113 |
| RBMV 615 FS | 5992158 | 6040482 | 113 |
| RBMV 615 FT | 5992226 | 6040502 | 113 |
| RBMV 620 A2 | 5992301 | 6040524 | 114 |
| RBMV 620 A4 | 5992370 | 6040544 | 114 |
| RBMV 620 FS | 5992165 | 6040484 | 113 |
| RBMV 620 FT | 5992233 | 6040504 | 113 |
| RBMV 630 A2 | 5992318 | 6040526 | 114 |
| RBMV 630 A4 | 5992387 | 6040546 | 114 |
| RBMV 630 FS | 5992172 | 6040486 | 113 |
| RBMV 630 FT | 5992240 | 6040506 | 113 |
| RBMV 640 A2 | 5992325 | 6040528 | 114 |
| RBMV 640 A4 | 5992394 | 6040548 | 114 |
| RBMV 640 FS | 5992189 | 6040488 | 113 |
| RBMV 640 FT | 5992257 | 6040508 | 113 |
| RBMV 650 A2 | 5992332 | 6040530 | 114 |
| RBMV 650 A4 | 5992400 | 6040550 | 114 |
| RBMV 650 FS | 5992196 | 6040490 | 113 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| RBMV 650 FT | 5992264 | 6040510 | 113 |
| RBMV 660 A2 | 5992349 | 6040532 | 114 |
| RBMV 660 A4 | 5992417 | 6040552 | 114 |
| RBMV 660 FS | 5992202 | 6040492 | 113 |
| RBMV 660 FT | 5992271 | 6040512 | 113 |
| RBMV 810 FS | 5992424 | 6040580 | 180 |
| RBMV 810 FT | 5992530 | 6040600 | 180 |
| RBMV 820 FS | 5992479 | 6040584 | 180 |
| RBMV 820 FT | 5992554 | 6040604 | 180 |
| RBMV 830 FS | 5992493 | 6040586 | 180 |
| RBMV 830 FT | 5992561 | 6040606 | 180 |
| RBMV 840 FS | 5992509 | 6040588 | 180 |
| RBMV 840 FT | 5992578 | 6040608 | 180 |
| RBMV 850 FS | 5992516 | 6040590 | 180 |
| RBMV 850 FT | 5992585 | 6040610 | 180 |
| RBMV 860 FS | 5992523 | 6040592 | 180 |
| RBMV 860 FT | 5992592 | 6040612 | 180 |
| | | | |
| RBU 45 640 A2 | 6253630 | 7133235 | 162 |
| RBU 90 640 A2 | 6254712 | 7134231 | 164 |
| RBU 90 640 A4 | 5866572 | 7134292 | 164 |
| RBU 90 650 A2 | 6254774 | 7134258 | 164 |
| RBU 90 650 A4 | 5866589 | 7134294 | 164 |
| RBU 90 660 A2 | 6254835 | 7134266 | 164 |
| RBU 90 660 A4 | 5866626 | 7134296 | 164 |
| | | | |
| RBV 110 F FS | 5711810 | 7007350 | 216 |
| RBV 110 F FS | 5711810 | 7007350 | 235 |
| RBV 110 F FT | 5850922 | 7007468 | 216 |
| RBV 110 F FT | 5850922 | 7007468 | 235 |
| RBV 110 S FS | 5711711 | 7007310 | 216 |
| RBV 110 S FS | 5711711 | 7007310 | 234 |
| RBV 110 S FT | 5850908 | 7007398 | 216 |
| RBV 110 S FT | 5850908 | 7007398 | 234 |
| RBV 115 F FS | 5995616 | 7007352 | 216 |
| RBV 115 F FT | 5995630 | 7007353 | 216 |
| RBV 115 S FS | 5995579 | 7007312 | 233 |
| RBV 115 S FT | 5995593 | 7007313 | 233 |
| RBV 115 S FT | 5995593 | 7007313 | 234 |
| RBV 115 S FT | 5995593 | 7007313 | 216 |
| RBV 120 F FS | 5711827 | 7007354 | 216 |
| RBV 120 F FS | 5711827 | 7007354 | 235 |
| RBV 120 F FT | 5809210 | 7007470 | 216 |
| RBV 120 F FT | 5809210 | 7007470 | 235 |
| RBV 120 S FS | 5711728 | 7007314 | 216 |
| RBV 120 S FS | 5711728 | 7007314 | 234 |
| RBV 120 S FT | 5809197 | 7007400 | 234 |
| RBV 120 S FT | 5809197 | 7007400 | 216 |
| RBV 130 F FS | 5711834 | 7007358 | 216 |
| RBV 130 F FS | 5711834 | 7007358 | 235 |
| RBV 130 F FT | 5863649 | 7007359 | 216 |
| RBV 130 F FT | 5863649 | 7007359 | 235 |
| RBV 130 S FS | 5711759 | 7007318 | 216 |
| RBV 130 S FS | 5711759 | 7007318 | 234 |
| RBV 130 S FT | 5863618 | 7007319 | 234 |
| RBV 130 S FT | 5863618 | 7007319 | 216 |
| RBV 140 F FS | 5711841 | 7007362 | 216 |
| RBV 140 F FS | 5711841 | 7007362 | 235 |
| RBV 140 F FT | 5809227 | 7007474 | 216 |
| RBV 140 F FT | 5809227 | 7007474 | 235 |
| RBV 140 S FS | 5711766 | 7007322 | 216 |
| RBV 140 S FS | 5711766 | 7007322 | 234 |
| RBV 140 S FT | 5809203 | 7007404 | 234 |
| RBV 140 S FT | 5809203 | 7007404 | 216 |
| RBV 150 F FS | 5711872 | 7007366 | 216 |
| RBV 150 F FS | 5711872 | 7007366 | 235 |
| RBV 150 F FT | 5863687 | 7007367 | 216 |
| RBV 150 F FT | 5863687 | 7007367 | 235 |
| RBV 150 S FS | 5711773 | 7007326 | 216 |
| RBV 150 S FS | 5711773 | 7007326 | 234 |
| RBV 150 S FT | 5863625 | 7007327 | 234 |
| RBV 150 S FT | 5863625 | 7007327 | 216 |
| RBV 155 F FS | 5711889 | 7007370 | 216 |
| RBV 155 F FT | 5863694 | 7007371 | 216 |
| RBV 155 S FS | 5711780 | 7007330 | 233 |
| RBV 155 S FT | 5863632 | 7007331 | 234 |
| RBV 155 S FT | 5863632 | 7007331 | 216 |
| RBV 160 F FS | 5995623 | 7007373 | 216 |
| RBV 160 F FS | 5995623 | 7007373 | 235 |
| RBV 160 F FT | 5995647 | 7007374 | 216 |
| RBV 160 F FT | 5995647 | 7007374 | 235 |
| RBV 160 S FS | 5995586 | 7007333 | 216 |
| RBV 160 S FS | 5995586 | 7007333 | 234 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| RBV 160 S FT | 5995609 | 7007334 | 234 |
| RBV 160 S FT | 5995609 | 7007334 | 216 |
| RBV 310 F FS | 5711476 | 7007204 | 86 |
| RBV 310 F FT | 5863199 | 7007206 | 86 |
| RBV 310 S FS | 5711421 | 7007174 | 86 |
| RBV 310 S FT | 5863236 | 7007176 | 86 |
| RBV 315 F FS | 5711483 | 7007208 | 86 |
| RBV 315 F FT | 5863205 | 7007210 | 86 |
| RBV 315 S FS | 5711438 | 7007178 | 86 |
| RBV 315 S FT | 5863250 | 7007180 | 86 |
| RBV 320 F FS | 5711513 | 7007212 | 86 |
| RBV 320 F FT | 5863212 | 7007214 | 86 |
| RBV 320 S FS | 5711445 | 7007182 | 86 |
| RBV 320 S FT | 5863267 | 7007184 | 86 |
| RBV 330 F FS | 5711520 | 7007216 | 86 |
| RBV 330 F FT | 5863229 | 7007218 | 86 |
| RBV 330 S FS | 5711452 | 7007186 | 86 |
| RBV 330 S FT | 5863274 | 7007188 | 86 |
| RBV 610 F A2 | 5688563 | 7007155 | 118 |
| RBV 610 F A4 | 5886457 | 7006750 | 118 |
| RBV 610 F FS | 5047445 | 7007055 | 118 |
| RBV 610 F FT | 5476818 | 7007056 | 118 |
| RBV 610 S A2 | 5688556 | 7007105 | 117 |
| RBV 610 S A4 | 5886570 | 7006720 | 117 |
| RBV 610 S FS | 5047322 | 7007005 | 117 |
| RBV 610 S FT | 5703730 | 7007006 | 117 |
| RBV 615 F FS | 5047452 | 7007059 | 118 |
| RBV 615 F FT | 5811022 | 7007060 | 118 |
| RBV 615 S FS | 5047339 | 7007009 | 117 |
| RBV 615 S FT | 5811015 | 7007010 | 117 |
| RBV 620 F A2 | 5886112 | 7007157 | 118 |
| RBV 620 F A4 | 5886471 | 7006754 | 118 |
| RBV 620 F FS | 5047469 | 7007063 | 118 |
| RBV 620 F FT | 5703785 | 7007064 | 118 |
| RBV 620 S A2 | 5886181 | 7007109 | 117 |
| RBV 620 S A4 | 5886587 | 7006724 | 117 |
| RBV 620 S FS | 5047346 | 7007013 | 117 |
| RBV 620 S FT | 5703747 | 7007014 | 117 |
| RBV 630 F A2 | 5886129 | 7007159 | 118 |
| RBV 630 F A4 | 5886488 | 7006758 | 118 |
| RBV 630 F FS | 5047490 | 7007067 | 118 |
| RBV 630 F FT | 5863298 | 7007068 | 118 |
| RBV 630 S A2 | 5886198 | 7007113 | 117 |
| RBV 630 S A4 | 5886594 | 7006728 | 117 |
| RBV 630 S FS | 5047377 | 7007017 | 117 |
| RBV 630 S FT | 5863342 | 7007018 | 117 |
| RBV 630 S FT SO | 5958208 | 7195589 | 169 |
| RBV 640 F A2 | 5886136 | 7007161 | 118 |
| RBV 640 F A4 | 5886501 | 7006762 | 118 |
| RBV 640 F FS | 5047506 | 7007071 | 118 |
| RBV 640 F FT | 5863304 | 7007072 | 118 |
| RBV 640 S A2 | 5886204 | 7007117 | 117 |
| RBV 640 S A4 | 5886600 | 7006732 | 117 |
| RBV 640 S FS | 5047384 | 7007021 | 117 |
| RBV 640 S FT | 5863380 | 7007022 | 117 |
| RBV 650 F A2 | 5886143 | 7007163 | 118 |
| RBV 650 F A4 | 5886532 | 7006766 | 118 |
| RBV 650 F FS | 5047513 | 7007075 | 118 |
| RBV 650 F FT | 5863311 | 7007076 | 118 |
| RBV 650 S A2 | 5886235 | 7007119 | 117 |
| RBV 650 S A4 | 5886617 | 7006736 | 117 |
| RBV 650 S FS | 5047391 | 7007025 | 117 |
| RBV 650 S FT | 5863397 | 7007026 | 117 |
| RBV 660 F A2 | 5886174 | 7007165 | 118 |
| RBV 660 F A4 | 5886549 | 7006770 | 118 |
| RBV 660 F FS | 5047520 | 7007079 | 118 |
| RBV 660 F FT | 5863328 | 7007080 | 118 |
| RBV 660 S A2 | 5886242 | 7007121 | 117 |
| RBV 660 S A4 | 5886624 | 7006740 | 117 |
| RBV 660 S FS | 5047407 | 7007029 | 117 |
| RBV 660 S FT | 5863403 | 7007030 | 117 |
| RBV 810 F FS | 5711636 | 7007270 | 182 |
| RBV 810 F FS | 5711636 | 7007270 | 194 |
| RBV 810 F FT | 5863410 | 7007271 | 182 |
| RBV 810 F FT | 5863410 | 7007271 | 194 |
| RBV 810 S FS | 5711537 | 7007230 | 182 |
| RBV 810 S FS | 5711537 | 7007230 | 194 |
| RBV 810 S FT | 5863502 | 7007231 | 182 |
| RBV 810 S FT | 5863502 | 7007231 | 194 |
| RBV 820 F FS | 5711643 | 7007274 | 182 |
| RBV 820 F FS | 5711643 | 7007274 | 194 |
| RBV 820 F FT | 5863427 | 7007275 | 182 |
| RBV 820 F FT | 5863427 | 7007275 | 194 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| RBV 820 S FS | 5711544 | 7007234 | 182 |
| RBV 820 S FS | 5711544 | 7007234 | 194 |
| RBV 820 S FT | 5863519 | 7007235 | 182 |
| RBV 820 S FT | 5863519 | 7007235 | 194 |
| RBV 830 F FS | 5711650 | 7007278 | 182 |
| RBV 830 F FS | 5711650 | 7007278 | 194 |
| RBV 830 F FT | 5863434 | 7007279 | 182 |
| RBV 830 F FT | 5863434 | 7007279 | 194 |
| RBV 830 S FS | 5711575 | 7007238 | 182 |
| RBV 830 S FS | 5711575 | 7007238 | 194 |
| RBV 830 S FT | 5863526 | 7007239 | 182 |
| RBV 830 S FT | 5863526 | 7007239 | 194 |
| RBV 840 F FS | 5711667 | 7007282 | 182 |
| RBV 840 F FS | 5711667 | 7007282 | 194 |
| RBV 840 F FT | 5863441 | 7007283 | 182 |
| RBV 840 F FT | 5863441 | 7007283 | 194 |
| RBV 840 S FS | 5711582 | 7007242 | 182 |
| RBV 840 S FS | 5711582 | 7007242 | 194 |
| RBV 840 S FT | 5863564 | 7007243 | 182 |
| RBV 840 S FT | 5863564 | 7007243 | 194 |
| RBV 850 F FS | 5711698 | 7007286 | 182 |
| RBV 850 F FS | 5711698 | 7007286 | 194 |
| RBV 850 F FT | 5863458 | 7007287 | 182 |
| RBV 850 F FT | 5863458 | 7007287 | 194 |
| RBV 850 S FS | 5711599 | 7007246 | 182 |
| RBV 850 S FS | 5711599 | 7007246 | 194 |
| RBV 850 S FT | 5863571 | 7007247 | 182 |
| RBV 850 S FT | 5863571 | 7007247 | 194 |
| RBV 860 F FS | 5711704 | 7007290 | 182 |
| RBV 860 F FS | 5711704 | 7007290 | 194 |
| RBV 860 F FT | 5863465 | 7007291 | 182 |
| RBV 860 F FT | 5863465 | 7007291 | 194 |
| RBV 860 S FS | 5711605 | 7007250 | 182 |
| RBV 860 S FS | 5711605 | 7007250 | 194 |
| RBV 860 S FT | 5863588 | 7007251 | 182 |
| RBV 860 S FT | 5863588 | 7007251 | 194 |
| | | | |
| RDV 610 DD | 6218035 | 6065974 | 161 |
| RDV 620 DD | 6218042 | 6065976 | 161 |
| RDV 630 DD | 6218103 | 6065978 | 161 |
| RDV 640 DD | 6218073 | 6065980 | 161 |
| RDV 650 DD | 6218080 | 6065982 | 161 |
| RDV 660 DD | 6218097 | 6065984 | 161 |
| | | | |
| REV 110 A2 | 6400812 | 6068049 | 212 |
| REV 110 DD | 6067817 | 6069339 | 212 |
| REV 110 DD | 6067817 | 6069339 | 231 |
| REV 110 FS | 6066438 | 6067999 | 212 |
| REV 110 FS | 6066438 | 6067999 | 231 |
| REV 35 DD | 6067633 | 6069304 | 77 |
| REV 35 DD | 6067633 | 6069304 | 84 |
| REV 35 FS | 6066254 | 6067956 | 77 |
| REV 35 FS | 6066254 | 6067956 | 84 |
| REV 60 A2 | 6066490 | 6068022 | 112 |
| REV 60 A2 | 6066490 | 6068022 | 160 |
| REV 60 A4 | 5021483 | 6068054 | 112 |
| REV 60 A4 | 5021483 | 6068054 | 160 |
| REV 60 DD | 6337033 | 6069410 | 112 |
| REV 60 DD | 6337033 | 6069410 | 160 |
| REV 60 FS | 6066315 | 6067972 | 112 |
| REV 60 FS | 6066315 | 6067972 | 160 |
| REV 85 DD | 6067756 | 6069320 | 179 |
| REV 85 DD | 6067756 | 6069320 | 192 |
| REV 85 FS | 6066377 | 6067980 | 179 |
| REV 85 FS | 6066377 | 6067980 | 192 |
| | | | |
| RGBEV 110 FS | 6217274 | 7005628 | 217 |
| RGBEV 110 FS | 6217274 | 7005628 | 235 |
| RGBEV 110 FT | 6228799 | 7077106 | 217 |
| RGBEV 110 FT | 6228799 | 7077106 | 235 |
| RGBEV 115 FS | 5995890 | 7005636 | 235 |
| RGBEV 115 FT | 5995913 | 7077112 | 217 |
| RGBEV 115 FT | 5995913 | 7077112 | 235 |
| RGBEV 120 FS | 6217335 | 7005644 | 217 |
| RGBEV 120 FS | 6217335 | 7005644 | 235 |
| RGBEV 120 FT | 6228850 | 7077203 | 217 |
| RGBEV 120 FT | 6228850 | 7077203 | 235 |
| RGBEV 130 FS | 6217397 | 7005660 | 217 |
| RGBEV 130 FS | 6217397 | 7005660 | 235 |
| RGBEV 130 FT | 6228911 | 7077300 | 217 |
| RGBEV 130 FT | 6228911 | 7077300 | 235 |
| RGBEV 140 FS | 6217458 | 7005687 | 217 |
| RGBEV 140 FS | 6217458 | 7005687 | 235 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| RGBEV 140 FT | 6228973 | 7077408 | 217 |
| RGBEV 140 FT | 6228973 | 7077408 | 235 |
| RGBEV 150 FS | 6217519 | 7005709 | 217 |
| RGBEV 150 FS | 6217519 | 7005709 | 235 |
| RGBEV 150 FT | 6229031 | 7077505 | 217 |
| RGBEV 150 FT | 6229031 | 7077505 | 235 |
| RGBEV 155 FS | 6217571 | 7005717 | 235 |
| RGBEV 160 FS | 5995906 | 7005723 | 217 |
| RGBEV 160 FS | 5995906 | 7005723 | 235 |
| RGBEV 160 FT | 5778912 | 7077972 | 217 |
| RGBEV 160 FT | 5778912 | 7077972 | 235 |
| RGBEV 610 A2 | 6804139 | 7075651 | 120 |
| RGBEV 610 A2 | 6804139 | 7075651 | 169 |
| RGBEV 610 A4 | 6804191 | 7075671 | 120 |
| RGBEV 610 A4 | 6804191 | 7075671 | 169 |
| | | /pc. | |
| RGBEV 610 FS | 6216550 | 7005326 | 119 |
| RGBEV 610 FS | 6216550 | 7005326 | 168 |
| RGBEV 610 FT | 6228072 | 7075103 | 119 |
| RGBEV 610 FT | 6228072 | 7075103 | 168 |
| RGBEV 615 FS | 6500239 | 7005334 | 168 |
| RGBEV 615 FT | 6511877 | 7075154 | 119 |
| RGBEV 615 FT | 6511877 | 7075154 | 168 |
| RGBEV 620 A2 | 6804146 | 7075653 | 120 |
| RGBEV 620 A2 | 6804146 | 7075653 | 169 |
| RGBEV 620 A4 | 6804207 | 7075673 | 120 |
| RGBEV 620 A4 | 6804207 | 7075673 | 169 |
| | | /pc. | |
| RGBEV 620 FS | 6216611 | 7005342 | 119 |
| RGBEV 620 FS | 6216611 | 7005342 | 168 |
| RGBEV 620 FT | 6228133 | 7075200 | 119 |
| RGBEV 620 FT | 6228133 | 7075200 | 168 |
| RGBEV 630 A2 | 6804153 | 7075655 | 120 |
| RGBEV 630 A2 | 6804153 | 7075655 | 169 |
| RGBEV 630 A4 | 6804221 | 7075675 | 120 |
| RGBEV 630 A4 | 6804221 | 7075675 | 169 |
| | | /pc. | |
| RGBEV 630 FS | 6216673 | 7005369 | 119 |
| RGBEV 630 FS | 6216673 | 7005369 | 168 |
| RGBEV 630 FT | 6228195 | 7075308 | 119 |
| RGBEV 630 FT | 6228195 | 7075308 | 168 |
| RGBEV 640 A2 | 6804160 | 7075657 | 120 |
| RGBEV 640 A2 | 6804160 | 7075657 | 169 |
| RGBEV 640 A4 | 6804238 | 7075677 | 120 |
| RGBEV 640 A4 | 6804238 | 7075677 | 169 |
| | | /pc. | |
| RGBEV 640 FS | 6216734 | 7005385 | 119 |
| RGBEV 640 FS | 6216734 | 7005385 | 168 |
| RGBEV 640 FT | 6228256 | 7075405 | 119 |
| RGBEV 640 FT | 6228256 | 7075405 | 168 |
| RGBEV 650 A2 | 6804177 | 7075659 | 120 |
| RGBEV 650 A2 | 6804177 | 7075659 | 169 |
| RGBEV 650 A4 | 6804245 | 7075679 | 120 |
| RGBEV 650 A4 | 6804245 | 7075679 | 169 |
| | | /pc. | |
| RGBEV 650 FS | 6216796 | 7005407 | 119 |
| RGBEV 650 FS | 6216796 | 7005407 | 168 |
| RGBEV 650 FT | 6228317 | 7075502 | 119 |
| RGBEV 650 FT | 6228317 | 7075502 | 168 |
| RGBEV 660 A2 | 6804184 | 7075661 | 120 |
| RGBEV 660 A2 | 6804184 | 7075661 | 169 |
| RGBEV 660 A4 | 6804283 | 7075681 | 120 |
| RGBEV 660 A4 | 6804283 | 7075681 | 169 |
| | | /pc. | |
| RGBEV 660 FS | 6216857 | 7005423 | 119 |
| RGBEV 660 FS | 6216857 | 7005423 | 168 |
| RGBEV 660 FT | 6228379 | 7075596 | 119 |
| RGBEV 660 FT | 6228379 | 7075596 | 168 |
| RGBEV 810 FS | 6216918 | 7005466 | 183 |
| RGBEV 810 FS | 6216918 | 7005466 | 196 |
| RGBEV 810 FT | 6228430 | 7076096 | 183 |
| RGBEV 810 FT | 6228430 | 7076096 | 196 |
| RGBEV 820 FS | 6216970 | 7005482 | 183 |
| RGBEV 820 FS | 6216970 | 7005482 | 196 |
| RGBEV 820 FT | 6228492 | 7076207 | 183 |
| RGBEV 820 FT | 6228492 | 7076207 | 196 |
| RGBEV 830 FS | 6217038 | 7005504 | 183 |
| RGBEV 830 FS | 6217038 | 7005504 | 196 |
| RGBEV 830 FT | 6228553 | 7076304 | 183 |
| RGBEV 830 FT | 6228553 | 7076304 | 196 |
| RGBEV 840 FS | 6217090 | 7005520 | 183 |
| RGBEV 840 FS | 6217090 | 7005520 | 196 |
| RGBEV 840 FT | 6228614 | 7076401 | 183 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| RGBEV 840 FT | 6228614 | 7076401 | 196 |
| RGBEV 850 FS | 6217151 | 7005547 | 183 |
| RGBEV 850 FS | 6217151 | 7005547 | 196 |
| RGBEV 850 FT | 6228676 | 7076509 | 183 |
| RGBEV 850 FT | 6228676 | 7076509 | 196 |
| RGBEV 860 FS | 6217212 | 7005563 | 183 |
| RGBEV 860 FS | 6217212 | 7005563 | 196 |
| RGBEV 860 FT | 6228737 | 7076606 | 183 |
| RGBEV 860 FT | 6228737 | 7076606 | 196 |
| | | | |
| RGBV 110 FS | 6218592 | 7006624 | 197 |
| RGBV 110 FT | 6230112 | 7081103 | 197 |
| RGBV 115 FS | 5995852 | 7006632 | 197 |
| RGBV 115 FT | 5995876 | 7081108 | 197 |
| RGBV 120 FS | 6218653 | 7006640 | 197 |
| RGBV 120 FT | 6230174 | 7081200 | 197 |
| RGBV 130 FS | 6218714 | 7006667 | 197 |
| RGBV 130 FT | 6230235 | 7081308 | 197 |
| RGBV 140 FS | 6218776 | 7006683 | 197 |
| RGBV 140 FT | 6230297 | 7081405 | 197 |
| RGBV 150 FS | 6218837 | 7006705 | 197 |
| RGBV 150 FT | 6230358 | 7081502 | 197 |
| RGBV 155 FS | 6218899 | 7006713 | 197 |
| RGBV 155 FT | 6230419 | 7081553 | 197 |
| RGBV 160 FS | 5995869 | 7006717 | 197 |
| RGBV 160 FT | 5995883 | 7081555 | 197 |
| RGBV 610 A2 | 6258499 | 7138113 | 167 |
| RGBV 610 A2 | 6258499 | 7138113 | 168 |
| RGBV 610 FS | 6217878 | 7006322 | 120 |
| RGBV 610 FT | 6229390 | 7079109 | 167 |
| RGBV 610 FT | 6229390 | 7079109 | 167 |
| RGBV 615 FS | 6500352 | 7006330 | 167 |
| RGBV 615 FS | 6500352 | 7006330 | 167 |
| RGBV 615 FT | 6984985 | 7079141 | 167 |
| RGBV 615 FT | 6984985 | 7079141 | 167 |
| RGBV 620 FS | 6217939 | 7006349 | 120 |
| RGBV 620 FT | 6229451 | 7079206 | 167 |
| RGBV 620 FT | 6229451 | 7079206 | 167 |
| RGBV 630 FS | 6217991 | 7006365 | 120 |
| RGBV 630 FT | 6229512 | 7079303 | 167 |
| RGBV 630 FT | 6229512 | 7079303 | 167 |
| RGBV 640 FS | 6218059 | 7006381 | 120 |
| RGBV 640 FT | 6229574 | 7079400 | 167 |
| RGBV 640 FT | 6229574 | 7079400 | 167 |
| RGBV 650 FS | 6218110 | 7006411 | 120 |
| RGBV 650 FT | 6229635 | 7079508 | 167 |
| RGBV 650 FT | 6229635 | 7079508 | 167 |
| RGBV 660 FS | 6218172 | 7006446 | 120 |
| RGBV 660 FT | 6229697 | 7079605 | 167 |
| RGBV 660 FT | 6229697 | 7079605 | 167 |
| RGBV 810 FS | 6218233 | 7006462 | 196 |
| RGBV 810 FT | 6229758 | 7080107 | 196 |
| RGBV 820 FS | 6218295 | 7006489 | 196 |
| RGBV 820 FT | 6229819 | 7080204 | 196 |
| RGBV 830 FS | 6218356 | 7006500 | 196 |
| RGBV 830 FT | 6229871 | 7080301 | 196 |
| RGBV 840 FS | 6218417 | 7006527 | 196 |
| RGBV 840 FT | 6229932 | 7080409 | 196 |
| RGBV 850 FS | 6218479 | 7006543 | 196 |
| RGBV 850 FT | 6229994 | 7080506 | 196 |
| RGBV 860 FS | 6218530 | 7006578 | 196 |
| RGBV 860 FT | 6230051 | 7080603 | 196 |
| | | | |
| RGV 110 A2 | 6986361 | 7082479 | 212 |
| RGV 110 FS | 6230655 | 7082037 | 211 |
| RGV 110 FT | 6230952 | 7082436 | 211 |
| RGV 35 FS | 6230471 | 7082002 | 77 |
| RGV 35 FS | 6230471 | 7082002 | 83 |
| RGV 35 FT | 6230716 | 7082126 | 83 |
| RGV 60 A2 | 6230839 | 7082258 | 111 |
| RGV 60 A2 | 6230839 | 7082258 | 160 |
| RGV 60 A4 | 6080113 | 7082265 | 111 |
| RGV 60 A4 | 6080113 | 7082265 | 160 |
| RGV 60 FS | 6230532 | 7082010 | 111 |
| RGV 60 FS | 6230532 | 7082010 | 160 |
| RGV 60 FT | 6230778 | 7082223 | 111 |
| RGV 60 FT | 6230778 | 7082223 | 160 |
| RGV 85 FS | 6230594 | 7082029 | 178 |
| RGV 85 FS | 6230594 | 7082029 | 192 |
| RGV 85 FT | 6230891 | 7082320 | 178 |
| RGV 85 FT | 6230891 | 7082320 | 192 |
| | | | |
| RGV110-SM FS | 6985647 | 7081995 | 432 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| RK 110 FS | 6820511 | 7004648 | 236 |
| RK 110 FT | 6990085 | 7115113 | 236 |
| RK 120 FS | 6820573 | 7004664 | 236 |
| RK 120 FT | 6811878 | 7115210 | 236 |
| RK 130 FS | 6820634 | 7004680 | 236 |
| RK 130 FT | 6811939 | 7115318 | 236 |
| RK 140 FS | 6216130 | 7004699 | 236 |
| RK 140 FT | 6244454 | 7115407 | 236 |
| RK 150 FS | 6216192 | 7004710 | 236 |
| RK 150 FT | 6244515 | 7115504 | 236 |
| RK 160 FT | 6935239 | 7115564 | 236 |
| | | | |
| RK 610 FS | 6051670 | 6043615 | 121 |
| RK 610 FT | 6991709 | 7113110 | 167 |
| RK 615 FS | 6051618 | 6043607 | 121 |
| RK 620 FS | 6051731 | 6043623 | 121 |
| RK 620 FT | 6991761 | 7113218 | 167 |
| RK 630 FS | 6051793 | 6043631 | 121 |
| RK 630 FT | 6991822 | 7113315 | 167 |
| RK 640 FS | 6215416 | 7004397 | 121 |
| RK 640 FT | 6243730 | 7113404 | 121 |
| RK 650 FS | 6215478 | 7004419 | 121 |
| RK 650 FT | 6243792 | 7113501 | 121 |
| RK 660 FS | 6215539 | 7004435 | 121 |
| RK 660 FT | 6243853 | 7113609 | 121 |
| | | | |
| RKM 110 FS | 5928041 | 7027161 | 215 |
| RKM 110 FT | 5928157 | 7027181 | 215 |
| RKM 115 FS | 5928058 | 7027163 | 215 |
| RKM 115 FT | 5928164 | 7027183 | 215 |
| RKM 120 FS | 5928065 | 7027165 | 215 |
| RKM 120 FT | 5928171 | 7027185 | 215 |
| RKM 130 FS | 5928072 | 7027167 | 215 |
| RKM 130 FT | 5928188 | 7027187 | 215 |
| RKM 140 FS | 5928089 | 7027169 | 215 |
| RKM 140 FT | 5928195 | 7027189 | 215 |
| RKM 150 FS | 5928096 | 7027171 | 215 |
| RKM 150 FT | 5928201 | 7027191 | 215 |
| RKM 160 FS | 5928102 | 7027173 | 215 |
| RKM 160 FT | 5928218 | 7027193 | 215 |
| RKM 310 FS | 5929161 | 7027241 | 86 |
| RKM 320 FS | 5929178 | 7027243 | 86 |
| RKM 330 FS | 5929185 | 7027245 | 86 |
| RKM 610 FS | 5927389 | 7027001 | 116 |
| RKM 610 FT | 5927471 | 7027021 | 116 |
| RKM 615 FS | 5927396 | 7027003 | 116 |
| RKM 620 FS | 5927402 | 7027005 | 116 |
| RKM 620 FT | 5927518 | 7027025 | 116 |
| RKM 630 A2 | 5927655 | 7027047 | 117 |
| RKM 630 FS | 5927419 | 7027007 | 116 |
| RKM 630 FT | 5927525 | 7027027 | 116 |
| RKM 640 FS | 5927426 | 7027009 | 116 |
| RKM 640 FT | 5927532 | 7027029 | 116 |
| RKM 650 FS | 5927457 | 7027011 | 116 |
| RKM 650 FT | 5927549 | 7027031 | 116 |
| RKM 660 FS | 5927464 | 7027013 | 116 |
| RKM 660 FT | 5927587 | 7027033 | 116 |
| RKM 810 FS | 5927761 | 7027081 | 181 |
| RKM 810 FT | 5927839 | 7027101 | 181 |
| RKM 820 FS | 5927785 | 7027085 | 181 |
| RKM 820 FT | 5927853 | 7027105 | 181 |
| RKM 830 FS | 5927792 | 7027087 | 181 |
| RKM 830 FT | 5927860 | 7027107 | 181 |
| RKM 840 FS | 5927808 | 7027089 | 181 |
| RKM 840 FT | 5927877 | 7027109 | 181 |
| RKM 850 FS | 5927815 | 7027091 | 181 |
| RKM 850 FT | 5927884 | 7027111 | 181 |
| RKM 860 FS | 5927822 | 7027093 | 181 |
| RKM 860 FT | 5927891 | 7027113 | 181 |
| | | | |
| RKS 305 FS | 6662104 | 6047410 | 79 |
| RKS 305 FT | 6662142 | 6047412 | 80 |
| RKS 605 FS | 6662159 | 6047600 | 132 |
| RKS 605 FT | 6662166 | 6047602 | 133 |
| | | price/m | |
| RKS 607 FS | 6388691 | 6055893 | 134 |
| | | | |
| RKSM 310 FS | 5390848 | 6047417 | 75 |
| RKSM 320 FS | 5390855 | 6047433 | 75 |
| RKSM 330 FS | 5390862 | 6047460 | 75 |
| RKSM 610 A2 | 5706083 | 6047613 | 96 |
| RKSM 610 A4 | 5706113 | 6047614 | 97 |
| RKSM 610 FS | 5390879 | 6047611 | 94 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| RKSM 610 FT | 5903895 | 6047612 | 95 |
| RKSM 615 A4 | 5706137 | 6047633 | 97 |
| RKSM 615 FS | 5391197 | 6047630 | 94 |
| RKSM 615 FT | 5903901 | 6047631 | 95 |
| RKSM 620 A2 | 5706144 | 6047640 | 96 |
| RKSM 620 A4 | 5706175 | 6047641 | 97 |
| RKSM 620 FS | 5391203 | 6047638 | 94 |
| RKSM 620 FT | 5903932 | 6047639 | 95 |
| RKSM 630 A2 | 5706182 | 6047656 | 96 |
| RKSM 630 A4 | 5706199 | 6047657 | 97 |
| RKSM 630 FS | 5391210 | 6047654 | 94 |
| RKSM 630 FT | 5903949 | 6047655 | 95 |
| RKSM 640 A2 | 5706205 | 6047691 | 96 |
| RKSM 640 A4 | 5706236 | 6047692 | 97 |
| RKSM 640 FS | 5391227 | 6047689 | 94 |
| RKSM 640 FT | 5903956 | 6047690 | 95 |
| RKSM 650 A2 | 5706243 | 6047721 | 96 |
| RKSM 650 A4 | 5706250 | 6047722 | 97 |
| RKSM 650 FS | 5391234 | 6047719 | 94 |
| RKSM 650 FT | 5903963 | 6047720 | 95 |
| RKSM 660 A2 | 5706267 | 6047737 | 96 |
| RKSM 660 A4 | 5706298 | 6047738 | 97 |
| RKSM 660 FS | 5391241 | 6047735 | 94 |
| RKSM 660 FT | 5903994 | 6047736 | 95 |
| | | /pc. | |
| RLVK 35 FS | 6065356 | 6067085 | 76 |
| RLVK 35 FS | 6065356 | 6067085 | 83 |
| RLVK 35 FT | 6065714 | 6067301 | 76 |
| RLVK 35 FT | 6065714 | 6067301 | 83 |
| RLVK 60 A2 | 6066018 | 6067654 | 110 |
| RLVK 60 A2 | 6066018 | 6067654 | 159 |
| RLVK 60 A4 | 6955459 | 6067675 | 110 |
| RLVK 60 A4 | 6955459 | 6067675 | 159 |
| RLVK 60 FS | 6065417 | 6067093 | 110 |
| RLVK 60 FS | 6065417 | 6067093 | 158 |
| RLVK 60 FT | 6065899 | 6067603 | 110 |
| RLVK 60 FT | 6065899 | 6067603 | 158 |
| RLVK 60 FT SO | 6014958 | 7190522 | 159 |
| RLVKV 60 FS | 6456154 | 6067101 | 158 |
| RLVL 110 A2 | 6400690 | 6067948 | 211 |
| RLVL 110 FS | 6065653 | 6067131 | 211 |
| RLVL 110 FS | 6065653 | 6067131 | 231 |
| RLVL 110 FT | 6066193 | 6067913 | 211 |
| RLVL 110 FT | 6066193 | 6067913 | 231 |
| RLVL 85 FS | 6065592 | 6067123 | 178 |
| RLVL 85 FS | 6065592 | 6067123 | 192 |
| RLVL 85 FT | 6066131 | 6067816 | 178 |
| RLVL 85 FT | 6066131 | 6067816 | 192 |
| RT 110 FS | 6820153 | 7003633 | 233 |
| RT 110 FT | 6812714 | 7119119 | 233 |
| RT 120 FS | 6820214 | 7003668 | 233 |
| RT 120 FT | 6812776 | 7119216 | 233 |
| RT 130 FS | 6820276 | 7003684 | 233 |
| RT 130 FT | 6812837 | 7119313 | 233 |
| RT 140 FS | 6214877 | 7003692 | 233 |
| RT 140 FT | 6245772 | 7119402 | 233 |
| RT 150 FS | 6214938 | 7003714 | 233 |
| RT 150 FT | 6245833 | 7119496 | 233 |
| RT 155 FT | 6245895 | 7119550 | 233 |
| RT 610 FS | 6051076 | 6043410 | 166 |
| RT 610 FT | 6812356 | 7117116 | 166 |
| RT 615 FS | 6051014 | 6043402 | 166 |
| RT 615 FT | 6901692 | 7117162 | 166 |
| RT 620 FS | 6051137 | 6043429 | 166 |
| RT 620 FT | 6812417 | 7117209 | 166 |
| RT 630 FS | 6051199 | 6043437 | 166 |
| RT 630 FT | 6812479 | 7117306 | 166 |
| RT 640 FS | 6214150 | 7003390 | 166 |
| RT 640 FT | 6245055 | 7117396 | 166 |
| RT 650 FS | 6214211 | 7003412 | 166 |
| RT 650 FT | 6245116 | 7117507 | 166 |
| RT 660 FS | 6214273 | 7003439 | 166 |
| RT 660 FT | 6245178 | 7117604 | 166 |
| RTM 110 FS | 5882336 | 6042010 | 215 |
| RTM 110 FT | 5882428 | 6042030 | 215 |
| RTM 115 FS | 5896104 | 6042011 | 215 |
| RTM 115 FT | 5896135 | 6042032 | 215 |
| RTM 120 FS | 5882343 | 6042012 | 215 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| RTM 120 FT | 5882466 | 6042034 | 215 |
| RTM 130 FS | 5882350 | 6042014 | 215 |
| RTM 130 FT | 5882473 | 6042036 | 215 |
| RTM 140 FS | 5882367 | 6042018 | 215 |
| RTM 140 FT | 5882480 | 6042038 | 215 |
| RTM 150 FS | 5882404 | 6042020 | 215 |
| RTM 150 FT | 5882527 | 6042040 | 215 |
| RTM 160 FS | 5882411 | 6042022 | 215 |
| RTM 160 FT | 5882534 | 6042042 | 215 |
| RTM 310 FS | 5915386 | 6041030 | 79 |
| RTM 320 FS | 5915423 | 6041032 | 79 |
| RTM 330 FS | 5915713 | 6041034 | 79 |
| RTM 610 FS | 5878995 | 6041320 | 116 |
| RTM 610 FT | 5879121 | 6041340 | 116 |
| RTM 615 FS | 5879008 | 6041322 | 116 |
| RTM 615 FT | 5879169 | 6041342 | 116 |
| RTM 620 FS | 5879046 | 6041324 | 116 |
| RTM 620 FT | 5879176 | 6041344 | 116 |
| RTM 630 FS | 5879053 | 6041326 | 116 |
| RTM 630 FT | 5879183 | 6041348 | 116 |
| RTM 640 FS | 5879060 | 6041328 | 116 |
| RTM 640 FT | 5879220 | 6041350 | 116 |
| RTM 650 FS | 5879107 | 6041330 | 116 |
| RTM 650 FT | 5879237 | 6041352 | 116 |
| RTM 660 FS | 5879114 | 6041332 | 116 |
| RTM 660 FT | 5879244 | 6041354 | 116 |
| RTM 810 FS | 5881278 | 6041660 | 181 |
| RTM 810 FT | 5881414 | 6041680 | 181 |
| RTM 820 FS | 5881360 | 6041662 | 181 |
| RTM 820 FT | 5881421 | 6041682 | 181 |
| RTM 830 FS | 5881377 | 6041664 | 181 |
| RTM 830 FT | 5881438 | 6041684 | 181 |
| RTM 840 FS | 5881384 | 6041666 | 181 |
| RTM 840 FT | 5881445 | 6041686 | 181 |
| RTM 850 FS | 5881391 | 6041668 | 181 |
| RTM 850 FT | 5881452 | 6041688 | 181 |
| RTM 860 FS | 5881407 | 6041670 | 181 |
| RTM 860 FT | 5881469 | 6041690 | 181 |
| RUVK 100 FS | 6446292 | 6067870 | 198 |
| RV 605 FS | 6049325 | 6068146 | 159 |
| RV 607 DD | 5671312 | 6068152 | 537 |
| RV 607 FS | 6897070 | 6068150 | 159 |
| RV 607 FS | 6897070 | 6068150 | 526 |
| RV 610 FS | 6066797 | 6068154 | 159 |
| RV 615 FS | 6066858 | 6068162 | 159 |
| RV 620 FS | 6066919 | 6068170 | 159 |
| RV 630 FS | 6066971 | 6068189 | 159 |
| RV 640 FS | 6067039 | 6068197 | 159 |
| RV 650 FS | 6067091 | 6068200 | 159 |
| RV 660 FS | 6067152 | 6068219 | 159 |
| RWEB 1010 FS | 6341801 | 7111802 | 198 |
| RWEB 1020 FS | 6341818 | 7111804 | 198 |
| RWEB 1030 FS | 6341825 | 7111806 | 198 |
| RWEB 1040 FS | 6341832 | 7111808 | 198 |
| RWEB 1050 FS | 6341849 | 7111810 | 198 |
| RWEB 1060 FS | 6341856 | 7111812 | 198 |
| RWEB 110 DD | 6241033 | 7107455 | 212 |
| RWEB 110 DD | 6241033 | 7107455 | 231 |
| RWEB 110 FS | 6242771 | 7111096 | 212 |
| RWEB 110 FS | 6242771 | 7111096 | 231 |
| RWEB 110 FT SO | 5624042 | 7195351 | 231 |
| RWEB 115 FS | 5995500 | 7111201 | 231 |
| RWEB 120 DD | 6241095 | 7107471 | 212 |
| RWEB 120 DD | 6241095 | 7107471 | 231 |
| RWEB 120 FS | 6242894 | 7111207 | 212 |
| RWEB 120 FS | 6242894 | 7111207 | 231 |
| RWEB 130 DD | 6241156 | 7107501 | 212 |
| RWEB 130 DD | 6241156 | 7107501 | 231 |
| RWEB 130 FS | 6243013 | 7111304 | 212 |
| RWEB 130 FS | 6243013 | 7111304 | 231 |
| RWEB 130 FT SO | 5624066 | 7195355 | 231 |
| RWEB 140 DD | 6241217 | 7107536 | 212 |
| RWEB 140 DD | 6241217 | 7107536 | 231 |
| RWEB 140 FS | 6243136 | 7111428 | 212 |
| RWEB 140 FS | 6243136 | 7111428 | 231 |
| RWEB 150 DD | 6241279 | 7107552 | 212 |
| RWEB 150 DD | 6241279 | 7107552 | 231 |
| RWEB 150 FS | 6243198 | 7111509 | 212 |
| RWEB 150 FS | 6243198 | 7111509 | 231 |
| RWEB 155 DD | 6241330 | 7107560 | 212 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| RWEB 155 DD | 6241330 | 7107560 | 231 |
| RWEB 155 FS | 6243259 | 7111541 | 231 |
| RWEB 160 DD | 5995524 | 7107562 | 212 |
| RWEB 160 DD | 5995524 | 7107562 | 231 |
| RWEB 160 FS | 5995517 | 7111740 | 212 |
| RWEB 160 FS | 5995517 | 7111740 | 231 |
| RWEB 160 FT SO | 6204533 | 7195362 | 231 |
| RWEB 305 FS | 6241392 | 7108052 | 78 |
| RWEB 305 FS | 6241392 | 7108052 | 84 |
| RWEB 310 DD | 6240135 | 7107013 | 78 |
| RWEB 310 DD | 6240135 | 7107013 | 84 |
| RWEB 310 FS | 6241453 | 7108109 | 78 |
| RWEB 310 FS | 6241453 | 7108109 | 84 |
| RWEB 320 DD | 6240197 | 7107048 | 78 |
| RWEB 320 DD | 6240197 | 7107048 | 84 |
| RWEB 320 FS | 6241514 | 7108206 | 78 |
| RWEB 320 FS | 6241514 | 7108206 | 84 |
| RWEB 330 FS | 6241576 | 7108311 | 78 |
| RWEB 330 FS | 6241576 | 7108311 | 84 |
| RWEB 605 DD | 6988525 | 7107145 | 161 |
| RWEB 610 A2 | 6242054 | 7109814 | 112 |
| RWEB 610 A2 | 6242054 | 7109814 | 161 |
| RWEB 610 A4 | 6804078 | 7109951 | 113 |
| RWEB 610 A4 | 6804078 | 7109951 | 162 |
| | | /pc. | |
| RWEB 610 DD | 6982820 | 7106106 | 112 |
| RWEB 610 DD | 6982820 | 7106106 | 161 |
| RWEB 610 FS | 6241637 | 7109105 | 112 |
| RWEB 610 FS | 6241637 | 7109105 | 161 |
| RWEB 615 A2 | 5981084 | 7109816 | 112 |
| RWEB 615 A2 | 5981084 | 7109816 | 161 |
| RWEB 615 DD | 6308170 | 7106110 | 112 |
| RWEB 615 DD | 6308170 | 7106110 | 161 |
| RWEB 615 FS | 6241699 | 7109156 | 112 |
| RWEB 615 FS | 6241699 | 7109156 | 161 |
| RWEB 620 A2 | 6242115 | 7109830 | 112 |
| RWEB 620 A2 | 6242115 | 7109830 | 161 |
| RWEB 620 A4 | 6804085 | 7109953 | 113 |
| RWEB 620 A4 | 6804085 | 7109953 | 162 |
| | | /pc. | |
| RWEB 620 DD | 6982769 | 7106114 | 112 |
| RWEB 620 DD | 6982769 | 7106114 | 161 |
| RWEB 620 FS | 6241750 | 7109202 | 112 |
| RWEB 620 FS | 6241750 | 7109202 | 161 |
| RWEB 630 A2 | 6242177 | 7109857 | 112 |
| RWEB 630 A2 | 6242177 | 7109857 | 161 |
| RWEB 630 A4 | 6804092 | 7109955 | 113 |
| RWEB 630 A4 | 6804092 | 7109955 | 162 |
| | | /pc. | |
| RWEB 630 DD | 6982707 | 7106118 | 112 |
| RWEB 630 DD | 6982707 | 7106118 | 161 |
| RWEB 630 FS | 6241811 | 7109296 | 112 |
| RWEB 630 FS | 6241811 | 7109296 | 161 |
| RWEB 640 A2 | 6242238 | 7109873 | 112 |
| RWEB 640 A2 | 6242238 | 7109873 | 161 |
| RWEB 640 A4 | 6804108 | 7109957 | 113 |
| RWEB 640 A4 | 6804108 | 7109957 | 162 |
| | | /pc. | |
| RWEB 640 DD | 6024612 | 7106122 | 112 |
| RWEB 640 DD | 6024612 | 7106122 | 161 |
| RWEB 640 FS | 6241873 | 7109407 | 112 |
| RWEB 640 FS | 6241873 | 7109407 | 161 |
| RWEB 645 DD | 6083930 | 7106124 | 161 |
| RWEB 650 A2 | 6242290 | 7109903 | 112 |
| RWEB 650 A2 | 6242290 | 7109903 | 161 |
| RWEB 650 A4 | 6804115 | 7109959 | 113 |
| RWEB 650 A4 | 6804115 | 7109959 | 162 |
| | | /pc. | |
| RWEB 650 DD | 6024735 | 7106126 | 112 |
| RWEB 650 DD | 6024735 | 7106126 | 161 |
| RWEB 650 FS | 6241934 | 7109504 | 112 |
| RWEB 650 FS | 6241934 | 7109504 | 161 |
| RWEB 660 A2 | 6242351 | 7109938 | 112 |
| RWEB 660 A2 | 6242351 | 7109938 | 161 |
| RWEB 660 A4 | 6804122 | 7109961 | 113 |
| RWEB 660 A4 | 6804122 | 7109961 | 162 |
| | | /pc. | |
| RWEB 660 DD | 6034697 | 7106130 | 112 |
| RWEB 660 DD | 6034697 | 7106130 | 161 |
| RWEB 660 FS | 6241996 | 7109601 | 112 |
| RWEB 660 FS | 6241996 | 7109601 | 161 |
| RWEB 810 DD | 6240678 | 7107315 | 179 |
| RWEB 810 DD | 6240678 | 7107315 | 193 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| RWEB 810 FS | 6242412 | 7110103 | 179 |
| RWEB 810 FS | 6242412 | 7110103 | 193 |
| RWEB 820 DD | 6240739 | 7107331 | 179 |
| RWEB 820 DD | 6240739 | 7107331 | 193 |
| RWEB 820 FS | 6242474 | 7110200 | 179 |
| RWEB 820 FS | 6242474 | 7110200 | 193 |
| RWEB 830 DD | 6240791 | 7107366 | 179 |
| RWEB 830 DD | 6240791 | 7107366 | 193 |
| RWEB 830 FS | 6242535 | 7110308 | 179 |
| RWEB 830 FS | 6242535 | 7110308 | 193 |
| RWEB 840 DD | 6240852 | 7107382 | 179 |
| RWEB 840 DD | 6240852 | 7107382 | 193 |
| RWEB 840 FS | 6242597 | 7110405 | 179 |
| RWEB 840 FS | 6242597 | 7110405 | 193 |
| RWEB 850 DD | 6240913 | 7107404 | 179 |
| RWEB 850 DD | 6240913 | 7107404 | 193 |
| RWEB 850 FS | 6242658 | 7110502 | 179 |
| RWEB 850 FS | 6242658 | 7110502 | 193 |
| RWEB 860 DD | 6240975 | 7107420 | 179 |
| RWEB 860 DD | 6240975 | 7107420 | 193 |
| RWEB 860 FS | 6242719 | 7110618 | 179 |
| RWEB 860 FS | 6242719 | 7110618 | 193 |
| | | | |
| RWVL 35 FS | 6065479 | 6067107 | 77 |
| RWVL 35 FS | 6065479 | 6067107 | 83 |
| RWVL 35 FT | 6065776 | 6067328 | 77 |
| RWVL 35 FT | 6065776 | 6067328 | 83 |
| RWVL 60 A2 | 6066070 | 6067662 | 111 |
| RWVL 60 A2 | 6066070 | 6067662 | 159 |
| RWVL 60 A4 | 6343157 | 6067664 | 111 |
| RWVL 60 A4 | 6343157 | 6067664 | 159 |
| RWVL 60 FS | 6065530 | 6067115 | 111 |
| RWVL 60 FS | 6065530 | 6067115 | 159 |
| RWVL 60 FT | 6065950 | 6067611 | 111 |
| RWVL 60 FT | 6065950 | 6067611 | 159 |
| | | | |
| | | price/pair | |
| SA MS4022 FT | 5439448 | 6007496 | 508 |
| | | | |
| SAA MS4022 FT | 5439479 | 6007498 | 508 |
| | | | |
| | | price/m | |
| SB 100 BKS FS | 6640683 | 6049241 | 264 |
| SB 110 BKS FS | 6640713 | 6049243 | 264 |
| | | | |
| SB BKS FS | 6147816 | 6049252 | 264 |
| | | | |
| | | /100 pc. | |
| SB MS 41 M8 A4 | 6123117 | 1124719 | 677 |
| SB MS 41 M8 A4 | 6123117 | 1124719 | 736 |
| SB MS 41 M8 FT | 6624232 | 1124679 | 676 |
| SB MS 41 M8 FT | 6624232 | 1124679 | 736 |
| | | | |
| | | /pc. | |
| SEB 85 FS | 6568802 | 7083008 | 260 |
| | | | |
| SF 140 11 FT | 6295814 | 6356397 | 760 |
| | | | |
| | | price/m | |
| SGR 105 150 A2 | 6622047 | 6003623 | 348 |
| SGR 105 150 FT | 6397716 | 6003175 | 347 |
| SGR 105 150 G | 6397907 | 6002608 | 346 |
| SGR 105 200 A2 | 6622054 | 6003625 | 348 |
| SGR 105 200 FT | 5670742 | 6003214 | 347 |
| SGR 105 200 G | 6397914 | 6002612 | 346 |
| SGR 105 300 A2 | 6622061 | 6003627 | 348 |
| SGR 105 300 FT | 6397723 | 6003309 | 347 |
| SGR 105 300 G | 6397921 | 6002614 | 346 |
| SGR 105 400 A2 | 6622078 | 6003629 | 348 |
| SGR 105 400 FT | 5651765 | 6003402 | 347 |
| SGR 105 400 G | 6397938 | 6002616 | 346 |
| SGR 105 500 A2 | 6622085 | 6003631 | 348 |
| SGR 105 500 FT | 6397730 | 6003515 | 347 |
| SGR 105 500 G | 6397945 | 6002620 | 346 |
| SGR 105 600 A2 | 6622092 | 6003633 | 348 |
| SGR 105 600 FT | 6397747 | 6003616 | 347 |
| SGR 105 600 G | 6397952 | 6002622 | 346 |
| SGR 155 300 FT | 5380276 | 6003692 | 351 |
| SGR 155 300 G | 5380153 | 6003681 | 350 |
| SGR 155 450 FT | 5380283 | 6003695 | 351 |
| SGR 155 450 G | 5380160 | 6003684 | 350 |
| SGR 155 500 FT | 5382553 | 6003696 | 351 |
| SGR 155 500 G | 5382546 | 6003685 | 350 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| SGR 155 600 FT | 5380313 | 6003698 | 351 |
| SGR 155 600 G | 5380191 | 6003687 | 350 |
| SGR 55 100 A2 | 6622108 | 6000909 | 339 |
| SGR 55 100 FT | 6397655 | 6000122 | 337 |
| SGR 55 100 G | 6397778 | 6005470 | 338 |
| SGR 55 150 A2 | 6622115 | 6000913 | 339 |
| SGR 55 150 FT | 6397662 | 6000190 | 337 |
| SGR 55 150 G | 6397785 | 6005472 | 338 |
| SGR 55 200 A2 | 6622139 | 6000917 | 339 |
| SGR 55 200 FT | 5651758 | 6000209 | 337 |
| SGR 55 200 G | 6397792 | 6005474 | 338 |
| SGR 55 300 A2 | 6622146 | 6000925 | 339 |
| SGR 55 300 FT | 6397679 | 6000331 | 337 |
| SGR 55 300 G | 6397808 | 6005476 | 338 |
| SGR 55 400 A2 | 6448388 | 6000933 | 339 |
| SGR 55 400 FT | 6397686 | 6000451 | 337 |
| SGR 55 400 G | 6397846 | 6005478 | 338 |
| SGR 55 500 A2 | 6622153 | 6000941 | 339 |
| SGR 55 500 FT | 6397693 | 6000515 | 337 |
| SGR 55 500 G | 6397860 | 6005480 | 338 |
| SGR 55 600 A2 | 6448418 | 6000958 | 339 |
| SGR 55 600 FT | 6397709 | 6000775 | 337 |
| SGR 55 600 G | 6397853 | 6005482 | 338 |
| | | /100 pc. | |
| SGR KS OR | 5872900 | 6003758 | 384 |
| | | /pc. | |
| SH KAB 20 FS | 6649990 | 6015425 | 387 |
| SH KAB 25 FS | 6650057 | 6015433 | 387 |
| SH M10 A4 | 6952038 | 6015340 | 389 |
| SH M10 FS | 6608539 | 6015336 | 389 |
| SH M10 FT | 6951970 | 6015338 | 389 |
| SHU M12 A4 | 5851882 | 6015328 | 390 |
| SHU M12 DD | 5851868 | 6015324 | 390 |
| SHU M12 FS | 5851844 | 6015322 | 390 |
| | | price/pair | |
| SKH 110 OR | 5668015 | 6222553 | 478 |
| SKH 60 OR | 5668008 | 6222537 | 416 |
| SKH 60 OR | 5668008 | 6222537 | 477 |
| SKH 60 OR | 5668008 | 6222537 | 497 |
| SKHW 110 OR | 5668022 | 6310398 | 293 |
| SKHW 110 OR | 5668022 | 6310398 | 478 |
| | | /100 pc. | |
| SKS 10x110 G | 6348794 | 6418244 | 522 |
| | | price/m | |
| SKS 110 FS | 6062171 | 6061109 | 220 |
| SKS 110 FT | 6062539 | 6061605 | 221 |
| SKS 110 FT SO | 6055630 | 7196008 | 227 |
| SKS 120 FS | 6062232 | 6061206 | 220 |
| SKS 120 FT | 6062591 | 6061621 | 221 |
| SKS 120 FT SO | 5384724 | 7196011 | 227 |
| SKS 130 FS | 6062294 | 6061303 | 220 |
| SKS 130 FT | 6062652 | 6061656 | 221 |
| SKS 130 FT SO | 5872504 | 7196025 | 223 |
| SKS 140 FS | 6062355 | 6061400 | 220 |
| SKS 140 FT | 6062713 | 6061672 | 221 |
| SKS 140 FT SO | 6055692 | 7196016 | 227 |
| SKS 150 FS | 6062416 | 6061508 | 220 |
| SKS 150 FT | 6062775 | 6061702 | 221 |
| SKS 150 FT SO | 5872665 | 7196019 | 227 |
| SKS 155 FS | 6062478 | 6061559 | 220 |
| SKS 155 FT | 6062836 | 6061729 | 221 |
| SKS 160 FT | 5778684 | 6061733 | 222 |
| SKS 160 FT SO | 5893998 | 7196026 | 227 |
| SKS 605 FT | 6820740 | 6056634 | 146 |
| | | price/m | |
| SKS 610 A2 | 6120550 | 6056735 | 145 |
| SKS 610 A4 | 6050048 | 6056750 | 144 |
| SKS 610 FS | 6060191 | 6056105 | 142 |
| SKS 610 FT | 6389957 | 6056636 | 143 |
| SKS 615 FS | 6389711 | 6056156 | 142 |
| SKS 615 FT | 6390014 | 6056644 | 143 |
| SKS 620 A2 | 6120611 | 6056737 | 145 |
| SKS 620 A4 | 6044887 | 6056755 | 144 |
| SKS 620 FS | 6060252 | 6056202 | 142 |
| SKS 620 FT | 6390076 | 6056652 | 143 |
| SKS 630 A2 | 6120673 | 6056739 | 145 |
| SKS 630 A4 | 6050161 | 6056757 | 144 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| SKS 630 FS | 6060313 | 6056296 | 142 |
| SKS 630 FT | 6390137 | 6056679 | 143 |
| SKS 640 A2 | 6120734 | 6056742 | 145 |
| SKS 640 A4 | 6050284 | 6056759 | 144 |
| SKS 640 FS | 6060375 | 6056407 | 142 |
| SKS 640 FT | 6060559 | 6056695 | 143 |
| SKS 650 A2 | 6120796 | 6056744 | 145 |
| SKS 650 A4 | 6050406 | 6056761 | 144 |
| SKS 650 FS | 6060436 | 6056504 | 142 |
| SKS 650 FT | 6060610 | 6056717 | 143 |
| SKS 660 A2 | 6120857 | 6056746 | 145 |
| SKS 660 A4 | 6050529 | 6056763 | 144 |
| SKS 660 FS | 6060498 | 6056601 | 142 |
| SKS 660 FT | 6060672 | 6056733 | 143 |
| SKS 810 FS | 6061099 | 6058108 | 185 |
| SKS 810 FT | 6061457 | 6058620 | 186 |
| SKS 820 FS | 6061150 | 6058205 | 185 |
| SKS 820 FT | 6061518 | 6058647 | 186 |
| SKS 830 FS | 6061211 | 6058302 | 185 |
| SKS 830 FT | 6061570 | 6058663 | 186 |
| SKS 840 FS | 6061273 | 6058396 | 185 |
| SKS 840 FT | 6061631 | 6058698 | 186 |
| SKS 850 FS | 6061334 | 6058507 | 185 |
| SKS 850 FT | 6061693 | 6058728 | 186 |
| SKS 860 FS | 6061396 | 6058604 | 185 |
| SKS 860 FT | 6061754 | 6058744 | 186 |
| SKSM 110 FS | 5829560 | 6059614 | 203 |
| SKSM 110 FT | 5829638 | 6059631 | 204 |
| SKSM 115 FS | 5829577 | 6059616 | 203 |
| SKSM 115 FT | 5829645 | 6059633 | 204 |
| SKSM 120 FS | 5829584 | 6059618 | 203 |
| SKSM 120 FT | 5829652 | 6059635 | 204 |
| SKSM 130 FS | 5829591 | 6059620 | 203 |
| SKSM 130 FT | 5829669 | 6059637 | 204 |
| SKSM 140 FS | 5829607 | 6059622 | 203 |
| SKSM 140 FT | 5829676 | 6059639 | 204 |
| SKSM 150 FS | 5829614 | 6059624 | 203 |
| SKSM 150 FT | 5829683 | 6059641 | 204 |
| SKSM 160 FS | 5829621 | 6059626 | 203 |
| SKSM 160 FT | 5829690 | 6059643 | 204 |
| SKSM 610 A2 | 5832720 | 6059490 | 102 |
| SKSM 610 A4 | 5832843 | 6059507 | 103 |
| SKSM 610 FS | 5832485 | 6059456 | 100 |
| SKSM 610 FT | 5832607 | 6059473 | 101 |
| SKSM 615 FS | 5832492 | 6059458 | 100 |
| SKSM 615 FT | 5832614 | 6059475 | 101 |
| SKSM 620 A2 | 5832744 | 6059494 | 102 |
| SKSM 620 A4 | 5832867 | 6059511 | 103 |
| SKSM 620 FS | 5832508 | 6059460 | 100 |
| SKSM 620 FT | 5832621 | 6059477 | 101 |
| SKSM 630 A2 | 5832782 | 6059496 | 102 |
| SKSM 630 A4 | 5832904 | 6059513 | 103 |
| SKSM 630 FS | 5832546 | 6059462 | 100 |
| SKSM 630 FT | 5832669 | 6059479 | 101 |
| SKSM 640 A2 | 5832799 | 6059498 | 102 |
| SKSM 640 A4 | 5832911 | 6059515 | 103 |
| SKSM 640 FS | 5832553 | 6059464 | 100 |
| SKSM 640 FT | 5832676 | 6059481 | 101 |
| SKSM 650 A2 | 5832805 | 6059500 | 102 |
| SKSM 650 A4 | 5832928 | 6059517 | 103 |
| SKSM 650 FS | 5832560 | 6059466 | 100 |
| SKSM 650 FT | 5832683 | 6059483 | 101 |
| SKSM 660 A2 | 5832836 | 6059502 | 102 |
| SKSM 660 A4 | 5832959 | 6059519 | 103 |
| SKSM 660 FS | 5832591 | 6059468 | 100 |
| SKSM 660 FT | 5832713 | 6059485 | 101 |
| SKSM 810 FS | 5832966 | 6059530 | 174 |
| SKSM 810 FT | 5833086 | 6059549 | 175 |
| SKSM 820 FS | 5832980 | 6059534 | 174 |
| SKSM 820 FT | 5833109 | 6059553 | 175 |
| SKSM 830 FS | 5833024 | 6059536 | 174 |
| SKSM 830 FT | 5833147 | 6059555 | 175 |
| SKSM 840 FS | 5833031 | 6059538 | 174 |
| SKSM 840 FT | 5833154 | 6059557 | 175 |
| SKSM 850 FS | 5833048 | 6059540 | 174 |
| SKSM 850 FT | 5833161 | 6059559 | 175 |
| SKSM 860 FS | 5833079 | 6059542 | 174 |
| SKSM 860 FT | 5833192 | 6059561 | 175 |
| SKSMU 110 FS | 5833925 | 6059836 | 208 |
| SKSMU 110 FT | 5834045 | 6059853 | 209 |
| SKSMU 115 FS | 5833932 | 6059838 | 208 |
| SKSMU 115 FT | 5834052 | 6059855 | 209 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| SKSMU 120 FS | 5833949 | 6059840 | 208 |
| SKSMU 120 FT | 5834069 | 6059857 | 209 |
| SKSMU 130 FS | 5833987 | 6059842 | 208 |
| SKSMU 130 FT | 5834106 | 6059859 | 209 |
| SKSMU 140 FS | 5833994 | 6059844 | 208 |
| SKSMU 140 FT | 5834113 | 6059861 | 209 |
| SKSMU 150 FS | 5834007 | 6059846 | 208 |
| SKSMU 150 FT | 5834120 | 6059863 | 209 |
| SKSMU 160 FS | 5834038 | 6059848 | 208 |
| SKSMU 160 FT | 5834151 | 6059865 | 209 |
| SKSMU 610 A2 | 5830689 | 6059722 | 108 |
| SKSMU 610 FS | 5829843 | 6059688 | 106 |
| SKSMU 610 FT | 5829911 | 6059705 | 107 |
| SKSMU 615 FS | 5829850 | 6059690 | 106 |
| SKSMU 615 FT | 5829928 | 6059707 | 107 |
| SKSMU 620 A2 | 5830702 | 6059726 | 108 |
| SKSMU 620 FS | 5829867 | 6059692 | 106 |
| SKSMU 620 FT | 5830634 | 6059709 | 107 |
| SKSMU 630 A2 | 5830740 | 6059728 | 108 |
| SKSMU 630 FS | 5829874 | 6059694 | 106 |
| SKSMU 630 FT | 5830641 | 6059711 | 107 |
| SKSMU 640 A2 | 5830757 | 6059730 | 108 |
| SKSMU 640 FS | 5829881 | 6059696 | 106 |
| SKSMU 640 FT | 5830658 | 6059713 | 107 |
| SKSMU 650 A2 | 5830764 | 6059732 | 108 |
| SKSMU 650 FS | 5829898 | 6059698 | 106 |
| SKSMU 650 FT | 5830665 | 6059715 | 107 |
| SKSMU 660 A2 | 5830795 | 6059734 | 108 |
| SKSMU 660 FS | 5829904 | 6059700 | 106 |
| SKSMU 660 FT | 5830672 | 6059717 | 107 |
| SKSMU 810 FS | 5833444 | 6059762 | 176 |
| SKSMU 810 FT | 5833567 | 6059779 | 177 |
| SKSMU 820 FS | 5833468 | 6059766 | 176 |
| SKSMU 820 FT | 5833581 | 6059783 | 177 |
| SKSMU 830 FS | 5833505 | 6059768 | 176 |
| SKSMU 830 FT | 5833628 | 6059785 | 177 |
| SKSMU 840 FS | 5833512 | 6059770 | 176 |
| SKSMU 840 FT | 5833635 | 6059787 | 177 |
| SKSMU 850 FS | 5833529 | 6059772 | 176 |
| SKSMU 850 FT | 5833642 | 6059789 | 177 |
| SKSMU 860 FS | 5833550 | 6059774 | 176 |
| SKSMU 860 FT | 5833673 | 6059791 | 177 |
| | | | |
| SKSU 110 FS | 6395231 | 6063403 | 224 |
| SKSU 110 FT | 6397754 | 6064795 | 225 |
| SKSU 120 FS | 6395293 | 6063438 | 224 |
| SKSU 120 FT | 6397877 | 6064833 | 225 |
| SKSU 120 FT SO | 5738275 | 7196012 | 226 |
| SKSU 130 FS | 6395354 | 6063454 | 224 |
| SKSU 130 FT | 6397990 | 6064884 | 225 |
| SKSU 130 FT SO | 5652403 | 7196013 | 228 |
| SKSU 140 FS | 6395415 | 6063470 | 224 |
| SKSU 140 FT | 5069690 | 6064922 | 225 |
| SKSU 140 FT SO | 5851202 | 7196014 | 228 |
| SKSU 150 FS | 6395477 | 6063497 | 224 |
| SKSU 150 FT | 6398232 | 6064965 | 225 |
| SKSU 155 FS | 5038702 | 6063500 | 224 |
| SKSU 155 FT | 6102433 | 6064973 | 225 |
| SKSU 610 FS | 5060369 | 6063234 | 150 |
| SKSU 610 FT | 5069836 | 6064307 | 151 |
| SKSU 620 FS | 5060390 | 6063236 | 150 |
| SKSU 620 FT | 6050888 | 6064353 | 151 |
| SKSU 630 FS | 5060406 | 6063238 | 150 |
| SKSU 630 FT | 5069843 | 6064409 | 151 |
| SKSU 640 FS | 5060413 | 6063950 | 150 |
| SKSU 640 FT | 5069874 | 6064435 | 151 |
| SKSU 650 FS | 6063857 | 6063241 | 150 |
| SKSU 650 FT | 6308958 | 6064515 | 151 |
| SKSU 660 FS | 6063918 | 6063276 | 150 |
| SKSU 660 FT | 6397273 | 6064523 | 151 |
| | | | |
| SL 42 075 A2 | 5706922 | 7097080 | 442 |
| SL 42 075 A4 | 6509799 | 7099702 | 444 |
| SL 42 075 ALU | 6509874 | 7099722 | 446 |
| SL 42 075 FT | 6506897 | 7097115 | 440 |
| SL 42 075 SG | 6506538 | 7097026 | 438 |
| SL 42 100 A2 | 5706953 | 7097082 | 442 |
| SL 42 100 A4 | 6509805 | 7099704 | 444 |
| SL 42 100 ALU | 6509881 | 7099724 | 446 |
| SL 42 100 FT | 6506958 | 7097123 | 440 |
| SL 42 100 SG | 6506590 | 7097034 | 438 |
| SL 42 150 A2 | 5706960 | 7097084 | 442 |
| SL 42 150 A4 | 6509812 | 7099706 | 444 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| SL 42 150 ALU | 6509911 | 7099726 | 446 |
| SL 42 150 FT | 6507016 | 7097131 | 440 |
| SL 42 150 SG | 6506651 | 7097042 | 438 |
| SL 42 200 A2 | 5706977 | 7097086 | 442 |
| SL 42 200 A4 | 6509829 | 7099708 | 444 |
| SL 42 200 ALU | 6509928 | 7099728 | 446 |
| SL 42 200 FT | 6507078 | 7097158 | 440 |
| SL 42 200 SG | 6506712 | 7097050 | 438 |
| SL 42 250 A2 | 5706984 | 7097088 | 442 |
| SL 42 250 A4 | 6509850 | 7099710 | 444 |
| SL 42 250 ALU | 6509935 | 7099730 | 446 |
| SL 42 250 FT | 6507139 | 7097166 | 440 |
| SL 42 250 SG | 6506774 | 7097069 | 438 |
| SL 42 300 A2 | 5707011 | 7097090 | 442 |
| SL 42 300 A4 | 6509867 | 7099712 | 444 |
| SL 42 300 ALU | 6509942 | 7099732 | 446 |
| SL 42 300 FT | 6979646 | 7097174 | 440 |
| SL 42 300 SG | 6506835 | 7097077 | 438 |
| | | | |
| SL 62 100 A2 | 5707028 | 7097094 | 452 |
| SL 62 100 A4 | 5707080 | 7097358 | 454 |
| SL 62 100 ALU | 6509973 | 7099752 | 456 |
| SL 62 100 FT | 6980246 | 7097409 | 450 |
| SL 62 100 SG | 6506477 | 7097212 | 448 |
| SL 62 150 FT | 6980307 | 7097417 | 450 |
| SL 62 200 A2 | 5707035 | 7097096 | 452 |
| SL 62 200 A4 | 5707097 | 7097360 | 454 |
| SL 62 200 ALU | 6509980 | 7099754 | 456 |
| SL 62 200 FT | 6980369 | 7097425 | 450 |
| SL 62 200 SG | 6979769 | 7097239 | 448 |
| SL 62 300 A2 | 5707042 | 7097098 | 452 |
| SL 62 300 A4 | 5707103 | 7097362 | 454 |
| SL 62 300 ALU | 6509997 | 7099756 | 456 |
| SL 62 300 FT | 6980420 | 7097433 | 450 |
| SL 62 300 SG | 6979820 | 7097247 | 448 |
| SL 62 400 A2 | 5707059 | 7097100 | 452 |
| SL 62 400 A4 | 5707110 | 7097364 | 454 |
| SL 62 400 ALU | 6510009 | 7099758 | 456 |
| SL 62 400 FT | 6980482 | 7097441 | 450 |
| SL 62 400 SG | 6979882 | 7097255 | 448 |
| SL 62 500 A2 | 5707066 | 7097102 | 452 |
| SL 62 500 A4 | 5707127 | 7097366 | 454 |
| SL 62 500 ALU | 6510030 | 7099760 | 456 |
| SL 62 500 FT | 6508099 | 7097468 | 450 |
| SL 62 500 SG | 6979943 | 7097263 | 448 |
| SL 62 600 A2 | 5707073 | 7097104 | 452 |
| SL 62 600 A4 | 5707134 | 7097368 | 454 |
| SL 62 600 ALU | 6510047 | 7099762 | 456 |
| SL 62 600 FT | 6508150 | 7097476 | 450 |
| SL 62 600 SG | 6980000 | 7097271 | 448 |
| | | | |
| | | /pc. | |
| SLAA 11100 R3 FT | 6445721 | 6225968 | 436 |
| SLAA 11120 R3 FT | 6445738 | 6225970 | 436 |
| SLAA 1120 R3 FT | 6445615 | 6225950 | 436 |
| SLAA 1130 R3 FT | 6445622 | 6225952 | 436 |
| SLAA 1140 R3 FT | 6445639 | 6225954 | 436 |
| SLAA 1145 R3 FT | 6445646 | 6225956 | 436 |
| SLAA 1150 R3 FT | 6445653 | 6225958 | 436 |
| SLAA 1160 R3 FT | 6445660 | 6225960 | 436 |
| SLAA 1175 R3 FT | 6445677 | 6225962 | 436 |
| SLAA 1180 R3 FT | 6445684 | 6225964 | 436 |
| SLAA 1190 R3 FT | 6445714 | 6225966 | 436 |
| | | | |
| SLB 90 1120R3 FT | 6443994 | 6225172 | 434 |
| SLB 90 1130R3 FT | 6444007 | 6225174 | 434 |
| SLB 90 1140R3 FT | 6444014 | 6225176 | 434 |
| SLB 90 1145R3 FT | 6444021 | 6225178 | 434 |
| SLB 90 1150R3 FT | 6444038 | 6225180 | 434 |
| SLB 90 1160R3 FT | 6444045 | 6225182 | 434 |
| SLB 90 1175R3 FT | 6444052 | 6225184 | 434 |
| SLB 90 1180R3 FT | 6444069 | 6225186 | 434 |
| SLB 90 1190R3 FT | 6444076 | 6225188 | 434 |
| SLB 90 42 075 A2 | 6516292 | 7098654 | 443 |
| SLB 90 42 075 A4 | 6516308 | 7098670 | 445 |
| SLB 90 42 075 FT | 6516469 | 7098614 | 441 |
| SLB 90 42 075 SG | 6516452 | 7098500 | 439 |
| SLB 90 42 075ALU | 6516759 | 7098684 | 447 |
| SLB 90 42 100 A2 | 6515615 | 7098656 | 443 |
| SLB 90 42 100 A4 | 6515691 | 7098672 | 445 |
| SLB 90 42 100 FT | 6509713 | 7098618 | 441 |
| SLB 90 42 100 SG | 6509416 | 7098502 | 439 |
| SLB 90 42 100ALU | 6516476 | 7098686 | 447 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| SLB 90 42 150 A2 | 6515622 | 7098658 | 443 |
| SLB 90 42 150 A4 | 6515707 | 7098674 | 445 |
| SLB 90 42 150 FT | 6509775 | 7098626 | 441 |
| SLB 90 42 150 SG | 6509478 | 7098510 | 439 |
| SLB 90 42 150ALU | 6516483 | 7098688 | 447 |
| SLB 90 42 200 A2 | 6515639 | 7098660 | 443 |
| SLB 90 42 200 A4 | 6515738 | 7098676 | 445 |
| SLB 90 42 200 FT | 6509836 | 7098634 | 441 |
| SLB 90 42 200 SG | 6509539 | 7098529 | 439 |
| SLB 90 42 200ALU | 6516506 | 7098690 | 447 |
| SLB 90 42 250 A2 | 6515677 | 7098662 | 443 |
| SLB 90 42 250 A4 | 6515745 | 7098678 | 445 |
| SLB 90 42 250 FT | 6509898 | 7098642 | 441 |
| SLB 90 42 250 SG | 6509591 | 7098537 | 439 |
| SLB 90 42 250ALU | 6516513 | 7098692 | 447 |
| SLB 90 42 300 A2 | 6515684 | 7098664 | 443 |
| SLB 90 42 300 A4 | 6515752 | 7098680 | 445 |
| SLB 90 42 300 FT | 6509959 | 7098650 | 441 |
| SLB 90 42 300 SG | 6509652 | 7098545 | 439 |
| SLB 90 42 300ALU | 6516520 | 7098694 | 447 |
| SLB 90 62 100 A2 | 6515769 | 7099150 | 453 |
| SLB 90 62 100 A4 | 6515868 | 7099168 | 455 |
| SLB 90 62 100 FT | 6510610 | 7098855 | 451 |
| SLB 90 62 100 SG | 6510016 | 7098707 | 449 |
| SLB 90 62 100ALU | 6516537 | 7099186 | 457 |
| SLB 90 62 200 A2 | 6515790 | 7099152 | 453 |
| SLB 90 62 200 A4 | 6515875 | 7099170 | 455 |
| SLB 90 62 200 FT | 6510733 | 7098871 | 451 |
| SLB 90 62 200 SG | 6510139 | 7098723 | 449 |
| SLB 90 62 200ALU | 6516544 | 7099188 | 457 |
| SLB 90 62 300 A2 | 6515813 | 7099154 | 453 |
| SLB 90 62 300 A4 | 6515882 | 7099172 | 455 |
| SLB 90 62 300 FT | 6510795 | 7098898 | 451 |
| SLB 90 62 300 SG | 6510191 | 7098731 | 449 |
| SLB 90 62 300ALU | 6516568 | 7099190 | 457 |
| SLB 90 62 400 A2 | 6515806 | 7099156 | 453 |
| SLB 90 62 400 A4 | 6515912 | 7099174 | 455 |
| SLB 90 62 400 FT | 6510856 | 7098901 | 451 |
| SLB 90 62 400 SG | 6510252 | 7098758 | 449 |
| SLB 90 62 400ALU | 6516575 | 7099192 | 457 |
| SLB 90 62 500 A2 | 6515820 | 7099158 | 453 |
| SLB 90 62 500 A4 | 6515929 | 7099176 | 455 |
| SLB 90 62 500 FT | 6510917 | 7098928 | 451 |
| SLB 90 62 500 SG | 6510313 | 7098766 | 449 |
| SLB 90 62 500ALU | 6516582 | 7099194 | 457 |
| SLB 90 62 600 A2 | 6515851 | 7099160 | 453 |
| SLB 90 62 600 A4 | 6515936 | 7099178 | 455 |
| SLB 90 62 600 FT | 6510979 | 7098936 | 451 |
| SLB 90 62 600 SG | 6510375 | 7098774 | 449 |
| SLB 90 62 600ALU | 6516599 | 7099196 | 457 |
| SLB90 11100R3 FT | 6449095 | 6225190 | 434 |
| SLB90 11120R3 FT | 6444083 | 6225194 | 434 |
| | | price/m | |
| SLCS 11100 3 FT | 6431946 | 6207320 | 426 |
| SLCS 11100 3FTSO | 6696970 | 7186416 | 472 |
| | | price/m | |
| SLCS 11120 3 FT | 6431953 | 6207322 | 426 |
| SLCS 1120 3 FT | 6431854 | 6207302 | 426 |
| SLCS 1120 3 FTSO | 6693627 | 7186400 | 472 |
| | | price/m | |
| SLCS 1130 3 FT | 6431861 | 6207304 | 426 |
| SLCS 1140 3 FT | 6431878 | 6207306 | 426 |
| SLCS 1140 3 FTSO | 6693641 | 7186404 | 472 |
| | | price/m | |
| SLCS 1145 3 FT | 6431885 | 6207308 | 426 |
| SLCS 1150 3 FT | 6431892 | 6207310 | 426 |
| SLCS 1150 3 FTSO | 6696925 | 7186406 | 472 |
| | | price/m | |
| SLCS 1160 3 FT | 6431908 | 6207312 | 426 |
| SLCS 1160 3 FTSO | 6696932 | 7186408 | 472 |
| | | price/m | |
| SLCS 1175 3 FT | 6431915 | 6207314 | 426 |
| SLCS 1175 3 FTSO | 6696949 | 7186410 | 472 |
| | | price/m | |
| SLCS 1180 3 FT | 6431922 | 6207316 | 426 |
| SLCS 1180 3 FTSO | 6696956 | 7186412 | 472 |
| | | price/m | |
| SLCS 1190 3 FT | 6431939 | 6207318 | 426 |
| SLCS 1190 3 FTSO | 6696963 | 7186414 | 472 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| SLGBE 11100 FT | 6445240 | 6225548 | 437 |
| SLGBE 11120 FT | 6445257 | 6225550 | 437 |
| SLGBE 1120 FT | 6445158 | 6225530 | 437 |
| SLGBE 1130 FT | 6445165 | 6225532 | 437 |
| SLGBE 1140 FT | 6445172 | 6225534 | 437 |
| SLGBE 1145 FT | 6445189 | 6225536 | 437 |
| SLGBE 1150 FT | 6445196 | 6225538 | 437 |
| SLGBE 1160 FT | 6445202 | 6225540 | 437 |
| SLGBE 1175 FT | 6445219 | 6225542 | 437 |
| SLGBE 1180 FT | 6445226 | 6225544 | 437 |
| SLGBE 1190 FT | 6445233 | 6225546 | 437 |
| | | price/m | |
| SLH 42 2000 A2 | 5708667 | 7103620 | 723 |
| SLH 42 2000 A4 | 5708674 | 7103626 | 723 |
| SLH 42 2000 FT | 6582136 | 7103611 | 723 |
| SLH 42 2000 SG | 6115518 | 7103603 | 723 |
| SLH 62 3000 A2 | 5708681 | 7103650 | 724 |
| SLH 62 3000 A4 | 5708698 | 7103656 | 725 |
| SLH 62 3000 FT | 6468911 | 7103643 | 724 |
| SLH 62 3000 SG | 6582495 | 7103635 | 724 |
| SLL 45 30 CP FS | 5064916 | 6011908 | 493 |
| SLL 45 50 CP FS | 5065098 | 6011959 | 494 |
| SLL 620 CPS 4 FS | 5433965 | 6010620 | 495 |
| SLL 620 CPS 4 FT | 5434047 | 6010630 | 496 |
| SLL 630 CPS 4 FS | 5433972 | 6010622 | 495 |
| SLL 630 CPS 4 FT | 5434085 | 6010632 | 496 |
| SLL 640 CPS 4 FS | 5433989 | 6010624 | 495 |
| SLL 640 CPS 4 FT | 5434092 | 6010634 | 496 |
| SLL 650 CPS 4 FS | 5434023 | 6010626 | 495 |
| SLL 650 CPS 4 FT | 5434108 | 6010636 | 496 |
| SLL 660 CPS 4 FS | 5434030 | 6010628 | 495 |
| SLL 660 CPS 4 FT | 5434146 | 6010638 | 496 |
| SLM 50 C40 10 FT | 6168613 | 6010547 | 500 |
| SLM 50 C40 11 FT | 6168552 | 6010555 | 500 |
| SLM 50 C40 12 FT | 6168491 | 6010563 | 500 |
| SLM 50 C40 2 FT | 6146116 | 6010466 | 500 |
| SLM 50 C40 3 FT | 6146178 | 6010474 | 500 |
| SLM 50 C40 4 FT | 6146239 | 6010482 | 500 |
| SLM 50 C40 5 FT | 6146291 | 6010490 | 500 |
| SLM 50 C40 6 FT | 6168859 | 6010504 | 500 |
| SLM 50 C40 7 FT | 6168798 | 6010512 | 500 |
| SLM 50 C40 8 FT | 6168736 | 6010520 | 500 |
| SLM 50 C40 9 FT | 6168675 | 6010539 | 500 |
| SLS 80 C40 10 FT | 6011599 | 6013465 | 505 |
| SLS 80 C40 11 FT | 6011650 | 6013473 | 505 |
| SLS 80 C40 12 FT | 6011711 | 6013481 | 505 |
| SLS 80 C40 2 FT | 6358632 | 6013384 | 505 |
| SLS 80 C40 3 FT | 6358694 | 6013392 | 505 |
| SLS 80 C40 4 FT | 6011230 | 6013406 | 505 |
| SLS 80 C40 5 FT | 6011292 | 6013414 | 505 |
| SLS 80 C40 6 FT | 6011353 | 6013422 | 505 |
| SLS 80 C40 7 FT | 6011414 | 6013430 | 505 |
| SLS 80 C40 8 FT | 6011476 | 6013449 | 505 |
| SLS 80 C40 9 FT | 6011537 | 6013457 | 505 |
| SLS 80 W40 10 FT | 6012138 | 6013902 | 506 |
| SLS 80 W40 4 FT | 6011773 | 6013848 | 506 |
| SLS 80 W40 5 FT | 6011834 | 6013856 | 506 |
| SLS 80 W40 6 FT | 6011896 | 6013864 | 506 |
| SLS 80 W40 7 FT | 6011957 | 6013872 | 506 |
| SLS 80 W40 8 FT | 6012015 | 6013880 | 506 |
| SLS 80 W40 9 FT | 6012077 | 6013899 | 506 |
| | | /pc. | |
| SLT 11100 R3 FT | 6444700 | 6225368 | 435 |
| SLT 11120 R3 FT | 6444717 | 6225372 | 435 |
| SLT 1120 R3 FT | 6444526 | 6225350 | 435 |
| SLT 1130 R3 FT | 6444533 | 6225352 | 435 |
| SLT 1140 R3 FT | 6444540 | 6225354 | 435 |
| SLT 1145 R3 FT | 6444588 | 6225356 | 435 |
| SLT 1150 R3 FT | 6444595 | 6225358 | 435 |
| SLT 1160 R3 FT | 6444601 | 6225360 | 435 |
| SLT 1175 R3 FT | 6444649 | 6225362 | 435 |
| SLT 1180 R3 FT | 6444656 | 6225364 | 435 |
| SLT 1190 R3 FT | 6444663 | 6225366 | 435 |
| SLV 42 A4 | 5980490 | 7103560 | 442 |
| SLV 42 A4 | 5980490 | 7103560 | 444 |
| SLV 42 ALU | 6519224 | 7103552 | 440 |
| SLV 42 ALU | 6519224 | 7103552 | 442 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| SLV 42 FT | 5980469 | 7103540 | 440 |
| SLV 52 A4 | 6698134 | 7103592 | 461 |
| SLV 52 FT | 6635993 | 7103532 | 464 |
| SLV 62 A4 | 6698141 | 7103594 | 452 |
| SLV 62 ALU | 6698127 | 7103586 | 456 |
| SLV 62 FT | 6698110 | 7103576 | 450 |
| | | | |
| | | price/m | |
| SLZ 100 A2 | 5708285 | 7098192 | 468 |
| SLZ 100 A4 | 5708414 | 7098222 | 469 |
| SLZ 100 ALU | 6510054 | 7099772 | 471 |
| SLZ 100 FT | 5708032 | 7098132 | 466 |
| SLZ 100 SG | 5708148 | 7098162 | 464 |
| SLZ 150 FT | 6046423 | 7098133 | 466 |
| SLZ 200 A2 | 5708292 | 7098194 | 468 |
| SLZ 200 A4 | 5708421 | 7098224 | 469 |
| SLZ 200 ALU | 6510061 | 7099774 | 471 |
| SLZ 200 FT | 5708049 | 7098134 | 466 |
| SLZ 200 SG | 5708155 | 7098164 | 464 |
| SLZ 300 A2 | 5708308 | 7098196 | 468 |
| SLZ 300 A4 | 5708438 | 7098226 | 469 |
| SLZ 300 ALU | 6510092 | 7099776 | 471 |
| SLZ 300 FT | 5708056 | 7098136 | 466 |
| SLZ 300 SG | 5708162 | 7098166 | 464 |
| SLZ 400 A2 | 5708339 | 7098198 | 468 |
| SLZ 400 A4 | 5708445 | 7098228 | 469 |
| SLZ 400 ALU | 6510108 | 7099778 | 471 |
| SLZ 400 FT | 5708063 | 7098138 | 466 |
| SLZ 400 SG | 5708179 | 7098168 | 464 |
| SLZ 500 A2 | 5708346 | 7098200 | 468 |
| SLZ 500 A4 | 5708452 | 7098230 | 469 |
| SLZ 500 ALU | 6510115 | 7099780 | 471 |
| SLZ 500 FT | 5708070 | 7098140 | 466 |
| SLZ 500 SG | 5708186 | 7098170 | 464 |
| SLZ 600 A2 | 5708353 | 7098202 | 468 |
| SLZ 600 A4 | 5708469 | 7098232 | 469 |
| SLZ 600 ALU | 6510122 | 7099782 | 471 |
| SLZ 600 FT | 5708087 | 7098142 | 466 |
| SLZ 600 SG | 5708193 | 7098172 | 464 |
| SLZ L 100 A2 | 5707813 | 7098062 | 460 |
| SLZ L 100 A4 | 5707943 | 7098082 | 463 |
| SLZ L 100 FT | 5707646 | 7098002 | 459 |
| SLZ L 100 SG | 5707745 | 7098032 | 458 |
| SLZ L 200 A2 | 5707868 | 7098066 | 460 |
| SLZ L 200 A4 | 5707981 | 7098086 | 463 |
| SLZ L 200 FT | 5707691 | 7098006 | 459 |
| SLZ L 200 SG | 5707769 | 7098036 | 458 |
| SLZ L 300 A2 | 5707875 | 7098068 | 460 |
| SLZ L 300 A4 | 5707998 | 7098088 | 463 |
| SLZ L 300 FT | 5707707 | 7098008 | 459 |
| SLZ L 300 SG | 5707776 | 7098038 | 458 |
| SLZ L 400 A2 | 5707882 | 7098070 | 460 |
| SLZ L 400 A4 | 5708001 | 7098090 | 463 |
| SLZ L 400 FT | 5707714 | 7098010 | 459 |
| SLZ L 400 SG | 5707783 | 7098040 | 458 |
| SLZ L 500 A2 | 5707929 | 7098072 | 460 |
| SLZ L 500 A4 | 5708018 | 7098092 | 463 |
| SLZ L 500 FT | 5707721 | 7098012 | 459 |
| SLZ L 500 SG | 5707790 | 7098042 | 458 |
| SLZ L 600 A2 | 5707936 | 7098074 | 460 |
| SLZ L 600 A4 | 5708025 | 7098094 | 463 |
| SLZ L 600 FT | 5707738 | 7098014 | 459 |
| SLZ L 600 SG | 5707806 | 7098044 | 458 |
| | | | |
| | | /pc. | |
| SLZB 90 100 A2 | 6515943 | 7099030 | 468 |
| SLZB 90 100 A4 | 6516117 | 7099060 | 469 |
| SLZB 90 100 ALU | 6516605 | 7099090 | 470 |
| SLZB 90 100 FT | 5807759 | 7099000 | 467 |
| SLZB 90 100 SG | 6516322 | 7098976 | 465 |
| SLZB 90 200 A2 | 6515974 | 7099032 | 468 |
| SLZB 90 200 A4 | 6516162 | 7099062 | 469 |
| SLZB 90 200 ALU | 6516629 | 7099092 | 470 |
| SLZB 90 200 FT | 5807766 | 7099002 | 467 |
| SLZB 90 200 SG | 6516339 | 7098978 | 465 |
| SLZB 90 300 A2 | 6515981 | 7099034 | 468 |
| SLZB 90 300 A4 | 6516179 | 7099064 | 469 |
| SLZB 90 300 ALU | 6516636 | 7099094 | 470 |
| SLZB 90 300 FT | 5784807 | 7099004 | 467 |
| SLZB 90 300 SG | 6516346 | 7098980 | 465 |
| SLZB 90 400 A2 | 6515998 | 7099036 | 468 |
| SLZB 90 400 A4 | 6515578 | 7099066 | 469 |
| SLZB 90 400 ALU | 6516643 | 7099096 | 470 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| SLZB 90 400 FT | 5807773 | 7099006 | 467 |
| SLZB 90 400 SG | 6516353 | 7098982 | 465 |
| SLZB 90 500 A2 | 6516001 | 7099038 | 468 |
| SLZB 90 500 A4 | 6516186 | 7099068 | 469 |
| SLZB 90 500 ALU | 6516650 | 7099098 | 470 |
| SLZB 90 500 FT | 5784838 | 7099008 | 467 |
| SLZB 90 500 SG | 6516360 | 7098984 | 465 |
| SLZB 90 600 A2 | 6516032 | 7099040 | 468 |
| SLZB 90 600 A4 | 6516216 | 7099070 | 469 |
| SLZB 90 600 ALU | 6516667 | 7099100 | 470 |
| SLZB 90 600 FT | 5807780 | 7099010 | 467 |
| SLZB 90 600 SG | 6516384 | 7098986 | 465 |
| SLZB L 90 100 A2 | 6519064 | 7099241 | 462 |
| SLZB L 90 100 A4 | 6519156 | 7099261 | 463 |
| SLZB L 90 100 FT | 6518975 | 7099221 | 459 |
| SLZB L 90 100 SG | 6518906 | 7099201 | 458 |
| SLZB L 90 200 A2 | 6519088 | 7099243 | 462 |
| SLZB L 90 200 A4 | 6519170 | 7099263 | 463 |
| SLZB L 90 200 FT | 6518999 | 7099224 | 459 |
| SLZB L 90 200 SG | 6518920 | 7099203 | 458 |
| SLZB L 90 300 A2 | 6519095 | 7099245 | 462 |
| SLZB L 90 300 A4 | 6519187 | 7099265 | 463 |
| SLZB L 90 300 FT | 6519002 | 7099226 | 459 |
| SLZB L 90 300 SG | 6518937 | 7099205 | 458 |
| SLZB L 90 400 A2 | 6519101 | 7099247 | 462 |
| SLZB L 90 400 A4 | 6519194 | 7099268 | 463 |
| SLZB L 90 400 FT | 6519033 | 7099228 | 459 |
| SLZB L 90 400 SG | 6518944 | 7099208 | 458 |
| SLZB L 90 500 A2 | 6519118 | 7099249 | 462 |
| SLZB L 90 500 A4 | 6519200 | 7099270 | 463 |
| SLZB L 90 500 FT | 6519040 | 7099230 | 459 |
| SLZB L 90 500 SG | 6518951 | 7099210 | 458 |
| SLZB L 90 600 A2 | 6519125 | 7099251 | 462 |
| SLZB L 90 600 A4 | 6519217 | 7099272 | 463 |
| SLZB L 90 600 FT | 6519057 | 7099232 | 459 |
| SLZB L 90 600 SG | 6518968 | 7099212 | 458 |
| | | | |
| | | price/m | |
| SLZL 100MW FTKVW | 6566518 | 7098300 | 461 |
| SLZL 200MW FTKVW | 6565955 | 7098302 | 461 |
| | | | |
| SPHS 4,8x9,5 G | | 6049248 | 770 |
| | | | |
| | | /pc. | |
| SPR C30 195 FS | 5740803 | 6009959 | 485 |
| SPR C30 195 FT | 5709664 | 6009979 | 485 |
| SPR C30 295 FS | 5740810 | 6009961 | 485 |
| SPR C30 395 FS | 5740827 | 6009963 | 485 |
| SPR C30 395 FT | 5709688 | 6009983 | 485 |
| SPR C30 495 FS | 5740858 | 6009965 | 485 |
| SPR C30 495 FT | 5709725 | 6009985 | 485 |
| SPR C30 595 FS | 5740865 | 6009967 | 485 |
| SPR C30 595 FT | 5709732 | 6009987 | 485 |
| SPR C30 795 FS | 5740872 | 6009969 | 485 |
| SPR C30 995 FS | 5740889 | 6009971 | 485 |
| | | | |
| SSE SSLB 100 FS | 6632879 | 6049290 | 262 |
| SSE SSLB 200 FS | 6632886 | 6049292 | 262 |
| SSE SSLB 300 FS | 6632893 | 6049294 | 262 |
| SSE SSLB 400 FS | 6632909 | 6049296 | 262 |
| SSE SSLB 500 FS | 6632916 | 6049298 | 262 |
| SSE SSLB 600 FS | 6632923 | 6049300 | 262 |
| | | | |
| SSLB 100 A2 | 6095728 | 7070353 | 240 |
| SSLB 100 A2 | 6095728 | 7070353 | 275 |
| SSLB 100 A2 | 6095728 | 7070353 | 283 |
| SSLB 100 A4 | 5021520 | 7070390 | 240 |
| SSLB 100 A4 | 5021520 | 7070390 | 275 |
| SSLB 100 A4 | 5021520 | 7070390 | 283 |
| SSLB 100 DD | 6095247 | 7070306 | 240 |
| SSLB 100 DD | 6095247 | 7070306 | 275 |
| SSLB 100 DD | 6095247 | 7070306 | 282 |
| SSLB 100 FS | 6079971 | 7070205 | 240 |
| SSLB 100 FS | 6079971 | 7070205 | 275 |
| SSLB 100 FS | 6079971 | 7070205 | 282 |
| SSLB 150 DD | 6095308 | 7070310 | 240 |
| SSLB 150 DD | 6095308 | 7070310 | 275 |
| SSLB 150 DD | 6095308 | 7070310 | 282 |
| SSLB 150 FS | 6094820 | 7070209 | 240 |
| SSLB 150 FS | 6094820 | 7070209 | 275 |
| SSLB 150 FS | 6094820 | 7070209 | 282 |
| SSLB 200 A2 | 6095780 | 7070361 | 240 |
| SSLB 200 A2 | 6095780 | 7070361 | 275 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| SSLB 200 A2 | 6095780 | 7070361 | 283 |
| SSLB 200 A4 | 5021582 | 7070392 | 240 |
| SSLB 200 A4 | 5021582 | 7070392 | 275 |
| SSLB 200 A4 | 5021582 | 7070392 | 283 |
| SSLB 200 DD | 6095360 | 7070314 | 240 |
| SSLB 200 DD | 6095360 | 7070314 | 275 |
| SSLB 200 DD | 6095360 | 7070314 | 282 |
| SSLB 200 FS | 6094882 | 7070213 | 240 |
| SSLB 200 FS | 6094882 | 7070213 | 275 |
| SSLB 200 FS | 6094882 | 7070213 | 282 |
| SSLB 300 A2 | 6095841 | 7070365 | 240 |
| SSLB 300 A2 | 6095841 | 7070365 | 275 |
| SSLB 300 A2 | 6095841 | 7070365 | 283 |
| SSLB 300 A4 | 5021605 | 7070394 | 240 |
| SSLB 300 A4 | 5021605 | 7070394 | 275 |
| SSLB 300 A4 | 5021605 | 7070394 | 283 |
| SSLB 300 DD | 6095421 | 7070318 | 240 |
| SSLB 300 DD | 6095421 | 7070318 | 275 |
| SSLB 300 DD | 6095421 | 7070318 | 282 |
| SSLB 300 FS | 6094943 | 7070217 | 240 |
| SSLB 300 FS | 6094943 | 7070217 | 275 |
| SSLB 300 FS | 6094943 | 7070217 | 282 |
| SSLB 400 A2 | 6095902 | 7070369 | 240 |
| SSLB 400 A2 | 6095902 | 7070369 | 275 |
| SSLB 400 A2 | 6095902 | 7070369 | 283 |
| SSLB 400 A4 | 5021766 | 7070396 | 240 |
| SSLB 400 A4 | 5021766 | 7070396 | 275 |
| SSLB 400 A4 | 5021766 | 7070396 | 283 |
| SSLB 400 DD | 6095483 | 7070322 | 240 |
| SSLB 400 DD | 6095483 | 7070322 | 275 |
| SSLB 400 DD | 6095483 | 7070322 | 282 |
| SSLB 400 FS | 6095001 | 7070221 | 240 |
| SSLB 400 FS | 6095001 | 7070221 | 275 |
| SSLB 400 FS | 6095001 | 7070221 | 282 |
| SSLB 500 A2 | 6095964 | 7070373 | 240 |
| SSLB 500 A2 | 6095964 | 7070373 | 275 |
| SSLB 500 A2 | 6095964 | 7070373 | 283 |
| SSLB 500 A4 | 5021711 | 7070398 | 240 |
| SSLB 500 A4 | 5021711 | 7070398 | 275 |
| SSLB 500 A4 | 5021711 | 7070398 | 283 |
| SSLB 500 DD | 6095544 | 7070326 | 240 |
| SSLB 500 DD | 6095544 | 7070326 | 275 |
| SSLB 500 DD | 6095544 | 7070326 | 282 |
| SSLB 500 FS | 6095063 | 7070225 | 240 |
| SSLB 500 FS | 6095063 | 7070225 | 275 |
| SSLB 500 FS | 6095063 | 7070225 | 282 |
| SSLB 550 DD | 6095605 | 7070330 | 275 |
| SSLB 550 DD | 6095605 | 7070330 | 282 |
| SSLB 550 DD | 6095605 | 7070330 | 240 |
| SSLB 550 FS | 6095124 | 7070229 | 240 |
| SSLB 550 FS | 6095124 | 7070229 | 275 |
| SSLB 550 FS | 6095124 | 7070229 | 282 |
| SSLB 600 A2 | 6096022 | 7070381 | 240 |
| SSLB 600 A2 | 6096022 | 7070381 | 275 |
| SSLB 600 A2 | 6096022 | 7070381 | 283 |
| SSLB 600 A4 | 5021827 | 7070400 | 240 |
| SSLB 600 A4 | 5021827 | 7070400 | 275 |
| SSLB 600 A4 | 5021827 | 7070400 | 283 |
| SSLB 600 DD | 6095667 | 7070334 | 240 |
| SSLB 600 DD | 6095667 | 7070334 | 275 |
| SSLB 600 DD | 6095667 | 7070334 | 282 |
| SSLB 600 FS | 6095186 | 7070233 | 240 |
| SSLB 600 FS | 6095186 | 7070233 | 275 |
| SSLB 600 FS | 6095186 | 7070233 | 282 |
| | | /100 pc. | |
| SSP 20-40 M6 A2 | 6342174 | 1486242 | 669 |
| SSP 20-40 M6 A4 | 6342181 | 1486244 | 669 |
| SSP 20-40 M6 FT | 6342167 | 1486238 | 669 |
| SSP 20-40 M8 A2 | 6342211 | 1486292 | 669 |
| SSP 20-40 M8 A4 | 6342228 | 1486294 | 669 |
| SSP 20-40 M8 FT | 6342204 | 1486288 | 669 |
| SSP 6-21 M6 A2 | 6342136 | 1486234 | 668 |
| SSP 6-21 M6 A4 | 6342150 | 1486236 | 668 |
| SSP 6-21 M6 FT | 6342112 | 1486232 | 668 |
| SSP 6-21 M8 A2 | 6342143 | 1486284 | 668 |
| SSP 6-21 M8 A4 | 6342198 | 1486286 | 668 |
| SSP 6-21 M8 FT | 6342129 | 1486282 | 668 |
| | | /pc. | |
| SSV A2 | 6064816 | 6066054 | 543 |
| SSV FT | 6064755 | 6066046 | 543 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| STA BKRS 100 FT | 6695096 | 6044541 | 264 |
| STA BKRS 200 FT | 6695089 | 6044543 | 264 |
| STA BKRS 300 FT | 6695102 | 6044545 | 264 |
| STA BKRS 400 FT | 6695119 | 6044547 | 264 |
| STA BKRS 500 FT | 6695126 | 6044551 | 264 |
| STA BKRS 600 FT | 6695133 | 6044553 | 264 |
| | | /pc. | |
| STP Z 1010 FS | 6341726 | 6044581 | 265 |
| STP Z 1020 FS | 6341733 | 6044583 | 265 |
| STP Z 1030 FS | 6341740 | 6044585 | 265 |
| | | price/m | |
| STP Z 10300 FS | 6341795 | 6044596 | 265 |
| | | /pc. | |
| STP Z 1040 FS | 6341757 | 6044587 | 265 |
| STP Z 1050 FS | 6341764 | 6044589 | 265 |
| STP Z 1060 FS | 6341771 | 6044591 | 265 |
| SV A2 | 6065233 | 6066933 | 543 |
| SV DD | 6084432 | 6066941 | 543 |
| | | /100 pc. | |
| SVE 41 A2 | 5939238 | 1123126 | 732 |
| SVE 41 A4 | 5939245 | 1123128 | 732 |
| SVE 41 FT | 5939214 | 1123121 | 732 |
| | | /pc. | |
| TGK 30 42 FT | 6014415 | 6018963 | 507 |
| TGK 30 42 FT | 6014415 | 6018963 | 620 |
| | | /100 pc. | |
| TK 213 | 5145936 | 1484702 | 667 |
| TK FL G | 5407140 | 1488111 | 667 |
| TK MULTI 16 | 5928133 | 1485144 | 665 |
| TK MULTI 24 | 5928140 | 1485148 | 665 |
| TK MULTI 8 | 5928126 | 1485140 | 665 |
| | | price/pair | |
| TKH-L-25 FT | 6579259 | 6355812 | 679 |
| TKH-S-30 ZL | 6677702 | 6355805 | 679 |
| | | /100 pc. | |
| TKL 4 | 5146353 | 1485105 | 665 |
| TKL 6 | 5146414 | 1485113 | 665 |
| TKR 9 | 5141495 | 1481711 | 665 |
| TKS 213-25 | 5145998 | 1484818 | 668 |
| TKS 213-32 | 5146056 | 1484826 | 668 |
| TKS 213-42 | 6471355 | 1484838 | 668 |
| | | price/pair | |
| TKS-L-25 FT | 6579075 | 6355808 | 678 |
| | | /pc. | |
| TKS-L36 M12 A2 | 6039548 | 6355836 | 677 |
| TKS-L36 M12 A4 | 6045211 | 6355837 | 678 |
| TKS-L-36 M12 FT | 5966029 | 6355829 | 678 |
| TKS-L36 M8 A2 | 6039593 | 6355834 | 677 |
| TKS-L36 M8 A4 | 6045181 | 6355835 | 677 |
| TKS-L-36 M8 FT | 5966012 | 6355828 | 678 |
| TKS-S-30 ZL | 6677696 | 6355798 | 679 |
| | | /100 pc. | |
| TKT | 5149231 | 1486861 | 671 |
| | | /pc. | |
| TPB 100 A2 | 5523673 | 6357516 | 656 |
| TPB 100 FS | 5523666 | 6357506 | 521 |
| TPB 100 FS | 5523666 | 6357506 | 656 |
| TPB 180 A2 | 6859078 | 6357524 | 657 |
| TPB 180 FS | 6859085 | 6357522 | 656 |
| | | /pc. | |
| TPB R A2 | 5523727 | 6357538 | 657 |
| TPB R FS | 5523680 | 6357536 | 522 |
| TPB R FS | 5523680 | 6357536 | 657 |
| TPD 145 FS | 6198610 | 6363806 | 636 |
| TPD 145 FT | 5076858 | 6363861 | 637 |
| TPD 245 FS | 6198672 | 6363814 | 636 |
| TPD 245 FT | 5076865 | 6363865 | 637 |
| TPD 345 FS | 6198733 | 6363822 | 636 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| TPD 345 FT | 5076896 | 6363869 | 637 |
| TPD 445 FS | 5460381 | 6363826 | 636 |
| TPD 545 FS | 5460428 | 6363829 | 636 |
| | | | |
| TPDG 145 A2 | 5617747 | 6365989 | 640 |
| TPDG 145 FS | 6511754 | 6365906 | 638 |
| TPDG 145 FT | 5076902 | 6365977 | 639 |
| TPDG 195 A2 | 5617754 | 6365991 | 640 |
| TPDG 195 FS | 6042609 | 6365914 | 638 |
| TPDG 245 A2 | 5617761 | 6365993 | 640 |
| TPDG 245 FS | 6511815 | 6365922 | 638 |
| TPDG 245 FT | 5076919 | 6365981 | 639 |
| TPDG 345 A2 | 5617778 | 6365995 | 640 |
| TPDG 345 FS | 6984329 | 6365949 | 638 |
| TPDG 345 FT | 5076926 | 6365985 | 639 |
| | | | |
| TPS 3000 FS | 6282739 | 6364802 | 697 |
| TPS 445 A2 | 5617730 | 6364848 | 629 |
| TPS 445 FS | 6199334 | 6364322 | 627 |
| TPS 445 FT | 6473717 | 6364403 | 628 |
| TPS 545 A2 | 5617860 | 6364850 | 629 |
| TPS 545 FS | 6199396 | 6364349 | 627 |
| TPS 545 FT | 6473779 | 6364500 | 628 |
| TPS 645 A2 | 5617877 | 6364852 | 629 |
| TPS 645 FS | 6199457 | 6364365 | 627 |
| TPS 645 FT | 6473830 | 6364608 | 628 |
| TPS KS OR | 5668084 | 6364625 | 645 |
| | | | |
| TPSA 145 A2 | 5733157 | 6364871 | 631 |
| TPSA 145 FS | 6198979 | 6364101 | 632 |
| TPSA 145 FT | 6473892 | 6364659 | 633 |
| TPSA 195 FT | 6555673 | 6364683 | 633 |
| TPSA 245 A2 | 5733164 | 6364876 | 631 |
| TPSA 245 FS | 6199099 | 6364209 | 632 |
| TPSA 245 FT | 6473953 | 6364667 | 633 |
| TPSA 345 A2 | 5733171 | 6364881 | 631 |
| TPSA 345 FS | 6199273 | 6364306 | 632 |
| TPSA 345 FT | 6474011 | 6364675 | 633 |
| TPSAG 145 A2 | 5617785 | 6366145 | 644 |
| TPSAG 145 FS | 6627554 | 6366015 | 634 |
| TPSAG 145 FT | 5076957 | 6366131 | 635 |
| TPSAG 195 A2 | 5617792 | 6366146 | 644 |
| TPSAG 195 FS | 6627615 | 6366023 | 634 |
| TPSAG 195 FT | 5076964 | 6366135 | 635 |
| TPSAG 245 A2 | 5617808 | 6366148 | 644 |
| TPSAG 245 FS | 6545353 | 6366031 | 634 |
| TPSAG 245 FT | 5076971 | 6366139 | 635 |
| TPSAG 345 A2 | 5617815 | 6366149 | 644 |
| TPSAG 345 FS | 6545292 | 6366066 | 634 |
| TPSAG 345 FT | 5076988 | 6366143 | 635 |
| | | | |
| TPSG 150L FS | 5381693 | 6366533 | 630 |
| TPSG 200L FS | 5381709 | 6366536 | 630 |
| TPSG 250L FS | 5381716 | 6366539 | 630 |
| TPSG 3000 A2 | 7274504 | 6366094 | 697 |
| | | /pc. | |
| TPSG 3000 FS | 6079032 | 6366090 | 697 |
| TPSG 3000 FT | 5424925 | 6366093 | 697 |
| TPSG 300L FS | 5381723 | 6366542 | 697 |
| TPSG 400L FS | 5381754 | 6366545 | 630 |
| TPSG 500L FS | 5381761 | 6366548 | 630 |
| TPSG 600L FS | 5381778 | 6366551 | 630 |
| TPSG 700L FS | 5381785 | 6366554 | 630 |
| | | | |
| | | /100 pc. | |
| TR M10 1M A2 | 5023579 | 3141312 | 656 |
| TR M10 1M A4 | 6098446 | 3141502 | 656 |
| TR M10 1M G | 5253396 | 3141209 | 521 |
| TR M10 1M G | 5253396 | 3141209 | 655 |
| TR M10 2M A2 | 6096909 | 3141339 | 656 |
| TR M10 2M G | 5123583 | 3141140 | 521 |
| TR M10 2M G | 5123583 | 3141140 | 655 |
| TR M10 3M G | 5895152 | 3141233 | 655 |
| TR M12 1M A2 | 5594437 | 3141314 | 656 |
| TR M12 1M G | 5253457 | 3141306 | 521 |
| TR M12 1M G | 5253457 | 3141306 | 655 |
| TR M12 2M G | 5123644 | 3141144 | 521 |
| TR M12 2M G | 5123644 | 3141144 | 655 |
| TR M6 1M A2 | 6096886 | 3141327 | 656 |
| TR M6 1M A4 | 6098385 | 3141482 | 656 |
| TR M6 1M G | 5253211 | 3141047 | 655 |
| TR M6 2M A2 | 6096893 | 3141328 | 656 |
| TR M6 2M A4 | 6098392 | 3141484 | 656 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /100 pc. | |
| TR M6 2M G | 6096640 | 3141048 | 655 |
| TR M8 1M A2 | 5023456 | 3141310 | 656 |
| TR M8 1M A4 | 6098408 | 3141492 | 656 |
| TR M8 1M G | 5253334 | 3141128 | 521 |
| TR M8 1M G | 5253334 | 3141128 | 655 |
| TR M8 2M A2 | 5882886 | 3141330 | 656 |
| TR M8 2M A4 | 6098439 | 3141494 | 656 |
| TR M8 2M G | 5119982 | 3141136 | 521 |
| TR M8 2M G | 5119982 | 3141136 | 655 |
| | | | |
| | | price/m | |
| TSG 110 A2 | 5778431 | 6062255 | 210 |
| TSG 110 A2 | 5778431 | 6062255 | 283 |
| TSG 110 DD | 5694700 | 6062335 | 210 |
| TSG 110 DD | 5694700 | 6062335 | 230 |
| TSG 110 DD | 5694700 | 6062335 | 283 |
| TSG 110 DD | 5694700 | 6062335 | 303 |
| TSG 110 DD | 5694700 | 6062335 | 306 |
| TSG 110 FS | 5694588 | 6062122 | 210 |
| TSG 110 FS | 5694588 | 6062122 | 230 |
| TSG 110 FS | 5694588 | 6062122 | 283 |
| TSG 110 FS | 5694588 | 6062122 | 303 |
| TSG 110 FS | 5694588 | 6062122 | 306 |
| TSG 110 FT SO | 6029020 | 7190498 | 230 |
| TSG 135 DD | 5694717 | 6062338 | 284 |
| TSG 135 DD | 5694717 | 6062338 | 303 |
| TSG 135 DD | 5694717 | 6062338 | 307 |
| TSG 135 FS | 5694595 | 6062132 | 284 |
| TSG 135 FS | 5694595 | 6062132 | 303 |
| TSG 135 FS | 5694595 | 6062132 | 307 |
| TSG 30 A2 | 5694502 | 6062052 | 325 |
| TSG 30 DD | 5694663 | 6062314 | 76 |
| TSG 30 DD | 5694663 | 6062314 | 83 |
| TSG 30 DD | 5694663 | 6062314 | 325 |
| TSG 30 FS | 5694496 | 6062050 | 76 |
| TSG 30 FS | 5694496 | 6062050 | 83 |
| TSG 30 FS | 5694496 | 6062050 | 325 |
| TSG 45 A2 | 5694441 | 6062025 | 109 |
| TSG 45 A2 | 5694441 | 6062025 | 157 |
| TSG 45 A2 | 5694441 | 6062025 | 334 |
| TSG 45 A2 | 5694441 | 6062025 | 418 |
| TSG 45 A4 | 5694472 | 6062028 | 109 |
| TSG 45 A4 | 5694472 | 6062028 | 157 |
| TSG 45 A4 | 5694472 | 6062028 | 334 |
| TSG 45 A4 | 5694472 | 6062028 | 418 |
| TSG 45 DD | 5694670 | 6062321 | 109 |
| TSG 45 DD | 5694670 | 6062321 | 156 |
| TSG 45 DD | 5694670 | 6062321 | 334 |
| TSG 45 DD | 5694670 | 6062321 | 418 |
| TSG 45 FS | 5694489 | 6062033 | 109 |
| TSG 45 FS | 5694489 | 6062033 | 156 |
| TSG 45 FS | 5694489 | 6062033 | 334 |
| TSG 45 FS | 5694489 | 6062033 | 418 |
| TSG 60 A2 | 5694557 | 6062084 | 109 |
| TSG 60 A2 | 5694557 | 6062084 | 157 |
| TSG 60 A4 | 5694564 | 6062086 | 109 |
| TSG 60 A4 | 5694564 | 6062086 | 157 |
| TSG 60 DD | 5694687 | 6062327 | 109 |
| TSG 60 DD | 5694687 | 6062327 | 157 |
| TSG 60 DD | 5694687 | 6062327 | 191 |
| TSG 60 FS | 5694540 | 6062068 | 109 |
| TSG 60 FS | 5694540 | 6062068 | 157 |
| TSG 60 FS | 5694540 | 6062068 | 191 |
| TSG 60 FT SO | 5943686 | 7190495 | 157 |
| TSG 85 A2 | 5694601 | 6062173 | 276 |
| TSG 85 A2 | 5694601 | 6062173 | 295 |
| TSG 85 A2 | 5694601 | 6062173 | 344 |
| TSG 85 A2 | 5694601 | 6062173 | 433 |
| TSG 85 DD | 5694694 | 6062331 | 178 |
| TSG 85 DD | 5694694 | 6062331 | 192 |
| TSG 85 DD | 5694694 | 6062331 | 210 |
| TSG 85 DD | 5694694 | 6062331 | 230 |
| TSG 85 DD | 5694694 | 6062331 | 276 |
| TSG 85 DD | 5694694 | 6062331 | 294 |
| TSG 85 DD | 5694694 | 6062331 | 344 |
| TSG 85 DD | 5694694 | 6062331 | 433 |
| TSG 85 FS | 5694571 | 6062114 | 178 |
| TSG 85 FS | 5694571 | 6062114 | 192 |
| TSG 85 FS | 5694571 | 6062114 | 210 |
| TSG 85 FS | 5694571 | 6062114 | 230 |
| TSG 85 FS | 5694571 | 6062114 | 276 |
| TSG 85 FS | 5694571 | 6062114 | 294 |
| TSG 85 FS | 5694571 | 6062114 | 344 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| TSG 85 FS | 5694571 | 6062114 | 433 |
| | | | |
| TSG100Z BKRS FS | 6341788 | 6062390 | 199 |
| TSG110Z BKRS FS | 6147779 | 6062391 | 230 |
| | | | |
| | | /pc. | |
| TSGV A2 | 5694724 | 6067970 | 76 |
| TSGV A2 | 5694724 | 6067970 | 83 |
| TSGV A2 | 5694724 | 6067970 | 109 |
| TSGV A2 | 5694724 | 6067970 | 157 |
| TSGV A2 | 5694724 | 6067970 | 178 |
| TSGV A2 | 5694724 | 6067970 | 192 |
| TSGV A2 | 5694724 | 6067970 | 210 |
| TSGV A2 | 5694724 | 6067970 | 230 |
| TSGV A2 | 5694724 | 6067970 | 276 |
| TSGV A2 | 5694724 | 6067970 | 284 |
| TSGV A2 | 5694724 | 6067970 | 295 |
| TSGV A2 | 5694724 | 6067970 | 303 |
| TSGV A2 | 5694724 | 6067970 | 307 |
| TSGV A2 | 5694724 | 6067970 | 325 |
| TSGV A2 | 5694724 | 6067970 | 334 |
| TSGV A2 | 5694724 | 6067970 | 344 |
| TSGV A2 | 5694724 | 6067970 | 419 |
| TSGV A2 | 5694724 | 6067970 | 433 |
| | | | |
| US 3 100 A2 | 5705727 | 6342460 | 607 |
| US 3 100 A4 | 5705833 | 6342491 | 607 |
| US 3 100 FS | 6223572 | 6342318 | 606 |
| US 3 150 A2 | 5705765 | 6342463 | 607 |
| US 3 150 A4 | 5705840 | 6342494 | 607 |
| US 3 150 FS | 6223633 | 6342328 | 606 |
| US 3 20 FS | 6221776 | 6342302 | 606 |
| US 3 200 A2 | 5705772 | 6342466 | 607 |
| US 3 200 A4 | 5705871 | 6342497 | 607 |
| US 3 200 FS | 6224296 | 6342338 | 606 |
| US 3 30 A2 | 5705703 | 6342455 | 607 |
| US 3 30 A4 | 5705789 | 6342485 | 607 |
| US 3 30 FS | 6222018 | 6342304 | 606 |
| US 3 300 FS | 5710905 | 6342340 | 606 |
| US 3 40 FS | 6222070 | 6342306 | 606 |
| US 3 50 A2 | 5705710 | 6342457 | 607 |
| US 3 50 A4 | 5705826 | 6342488 | 607 |
| US 3 50 FS | 6222315 | 6342308 | 606 |
| US 3 60 FS | 6222377 | 6342310 | 606 |
| US 3 600 A2 | 5706373 | 6342468 | 607 |
| US 3 600 A4 | 5618478 | 6342505 | 607 |
| US 3 600 FS | 6224418 | 6342345 | 606 |
| US 3 600 FT | 6225491 | 6342450 | 606 |
| US 3 600 FT | 6225491 | 6342450 | 502 |
| US 3 70 FS | 6222438 | 6342312 | 606 |
| US 3 80 FS | 6222490 | 6342314 | 606 |
| US 3 90 FS | 6223510 | 6342316 | 606 |
| US 3 K 100 A2 | 5705437 | 6342417 | 585 |
| US 3 K 100 A4 | 5705697 | 6342397 | 586 |
| US 3 K 100 FT | 6225132 | 6342368 | 584 |
| US 3 K 110 A4 | 5912873 | 6342396 | 586 |
| US 3 K 110 FT | 6225378 | 6342370 | 584 |
| US 3 K 120 A4 | 5912880 | 6342398 | 586 |
| US 3 K 120 FT | 6225439 | 6342372 | 584 |
| US 3 K 20 A2 | 5705352 | 6342401 | 585 |
| US 3 K 20 A4 | 5705635 | 6342375 | 586 |
| US 3 K 20 FT | 6224470 | 6342351 | 584 |
| US 3 K 30 A2 | 5705369 | 6342403 | 585 |
| US 3 K 30 A4 | 5395355 | 6342530 | 586 |
| US 3 K 30 FT | 6224531 | 6342353 | 584 |
| US 3 K 40 A2 | 5705376 | 6342405 | 585 |
| US 3 K 40 A4 | 5705642 | 6342379 | 586 |
| US 3 K 40 FT | 6224593 | 6342355 | 584 |
| US 3 K 50 A2 | 5705383 | 6342407 | 585 |
| US 3 K 50 A4 | 5705659 | 6342381 | 586 |
| US 3 K 50 FT | 6224654 | 6342357 | 584 |
| US 3 K 60 A2 | 5705390 | 6342409 | 585 |
| US 3 K 60 A4 | 5618461 | 6342389 | 586 |
| US 3 K 60 FT | 6224715 | 6342359 | 584 |
| US 3 K 70 A2 | 5705406 | 6342411 | 585 |
| US 3 K 70 A4 | 5705666 | 6342391 | 586 |
| US 3 K 70 FT | 6224777 | 6342362 | 584 |
| US 3 K 80 A2 | 5705413 | 6342413 | 585 |
| US 3 K 80 A4 | 5705673 | 6342393 | 586 |
| US 3 K 80 FT | 6225019 | 6342364 | 584 |
| US 3 K 90 A2 | 5705420 | 6342415 | 585 |
| US 3 K 90 A4 | 5705680 | 6342395 | 586 |
| US 3 K 90 FT | 6225071 | 6342366 | 584 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| US 3 KS OR | 5668039 | 6338458 | 502 |
| US 3 KS OR | 5668039 | 6338458 | 587 |
| | | | |
| US 5 100 A2 | 6082094 | 6341133 | 608 |
| US 5 100 FT | 6284177 | 6340962 | 501 |
| US 5 100 FT | 6284177 | 6340962 | 608 |
| US 5 100 FT SO | 6954438 | 7193580 | 609 |
| US 5 110 A2 | 6082155 | 6341137 | 608 |
| US 5 110 FT | 5776277 | 6340964 | 501 |
| US 5 110 FT | 5776277 | 6340964 | 608 |
| US 5 120 A2 | 6082216 | 6341141 | 608 |
| US 5 150 FT | 6437597 | 6340966 | 501 |
| US 5 150 FT | 6437597 | 6340966 | 608 |
| US 5 20 A2 | 6081554 | 6341101 | 608 |
| US 5 20 FT | 6959006 | 6340881 | 501 |
| US 5 20 FT | 6959006 | 6340881 | 608 |
| US 5 200 FT | 6437658 | 6340970 | 501 |
| US 5 200 FT | 6437658 | 6340970 | 608 |
| US 5 30 A2 | 6081615 | 6341105 | 608 |
| US 5 30 A4 | 5020981 | 6341053 | 608 |
| US 5 30 FT | 6959068 | 6340903 | 501 |
| US 5 30 FT | 6959068 | 6340903 | 608 |
| US 5 300 A2 | 6082278 | 6341152 | 608 |
| US 5 300 A4 | 5022305 | 6341073 | 608 |
| US 5 300 FT | 6446957 | 6340989 | 501 |
| US 5 300 FT | 6446957 | 6340989 | 608 |
| US 5 40 A2 | 6081677 | 6341109 | 608 |
| US 5 40 A4 | 6181995 | 6341055 | 608 |
| US 5 40 FT | 6959129 | 6340911 | 501 |
| US 5 40 FT | 6959129 | 6340911 | 608 |
| US 5 50 A2 | 6081738 | 6341113 | 608 |
| US 5 50 A4 | 6182053 | 6341057 | 608 |
| US 5 50 FT | 6959181 | 6340938 | 501 |
| US 5 50 FT | 6959181 | 6340938 | 608 |
| US 5 50 FT SO | 5763505 | 7193560 | 609 |
| US 5 60 A2 | 6081790 | 6341117 | 608 |
| US 5 60 A4 | 6183319 | 6341059 | 608 |
| US 5 60 FT | 6601752 | 6340946 | 501 |
| US 5 60 FT | 6601752 | 6340946 | 608 |
| US 5 600 FT | 6437719 | 6340997 | 501 |
| US 5 600 FT | 6437719 | 6340997 | 608 |
| US 5 70 A2 | 6081851 | 6341121 | 608 |
| US 5 70 FT | 6043927 | 6340950 | 501 |
| US 5 70 FT | 6043927 | 6340950 | 608 |
| US 5 80 A2 | 6081912 | 6341125 | 608 |
| US 5 80 A4 | 6237135 | 6341063 | 608 |
| US 5 80 FT | 6044047 | 6340954 | 501 |
| US 5 80 FT | 6044047 | 6340954 | 608 |
| US 5 90 A2 | 6081974 | 6341129 | 608 |
| US 5 90 A4 | 6183371 | 6341065 | 608 |
| US 5 90 FT | 6044160 | 6340958 | 501 |
| US 5 90 FT | 6044160 | 6340958 | 608 |
| US 5 K 100 A2 | 6350711 | 6341390 | 591 |
| US 5 K 100 A4 | 6459919 | 6341241 | 592 |
| US 5 K 100 FT | 6536290 | 6341616 | 590 |
| US 5 K 100 FT SO | 5864752 | 7193524 | 593 |
| US 5 K 110 A2 | 6350773 | 6341394 | 591 |
| US 5 K 110 A4 | 6816552 | 6341245 | 592 |
| US 5 K 110 FT | 6536238 | 6341624 | 590 |
| US 5 K 120 A2 | 6350834 | 6341398 | 591 |
| US 5 K 120 A4 | 6816613 | 6341249 | 592 |
| US 5 K 120 FT | 6536177 | 6341632 | 590 |
| US 5 K 120 FT SO | 5389620 | 7193527 | 593 |
| US 5 K 150 FT | 6561056 | 6341640 | 590 |
| US 5 K 20 A2 | 6477135 | 6341358 | 591 |
| US 5 K 20 A4 | 6815531 | 6341209 | 592 |
| US 5 K 20 FT | 6536771 | 6341527 | 590 |
| US 5 K 30 A2 | 6644230 | 6341362 | 591 |
| US 5 K 30 A4 | 6815593 | 6341213 | 592 |
| US 5 K 30 FT | 6536719 | 6341535 | 590 |
| US 5 K 30 FT SO | 5894605 | 7193509 | 593 |
| | | /pc. | |
| US 5 K 40 A2 | 6350292 | 6341366 | 591 |
| US 5 K 40 A4 | 6815654 | 6341217 | 592 |
| US 5 K 40 FT | 6536658 | 6341543 | 590 |
| US 5 K 50 A2 | 6350414 | 6341370 | 591 |
| US 5 K 50 A4 | 6815715 | 6341221 | 592 |
| US 5 K 50 FT | 6536597 | 6341551 | 590 |
| US 5 K 50 FT SO | 5882664 | 7193511 | 593 |
| | | /pc. | |
| US 5 K 60 A2 | 6350476 | 6341374 | 591 |
| US 5 K 60 A4 | 6815890 | 6341225 | 592 |
| US 5 K 60 FT | 6536535 | 6341578 | 590 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| US 5 K 60 FT SO | 5389613 | 7193516 | 593 |
| US 5 K 70 A2 | 6350537 | 6341378 | 591 |
| US 5 K 70 A4 | 6816194 | 6341228 | 592 |
| US 5 K 70 FT | 6536474 | 6341586 | 590 |
| US 5 K 80 A2 | 6350599 | 6341382 | 591 |
| US 5 K 80 A4 | 6816316 | 6341233 | 592 |
| US 5 K 80 FT | 6536412 | 6341594 | 590 |
| US 5 K 90 A2 | 6624492 | 6341386 | 591 |
| US 5 K 90 A4 | 6816439 | 6341237 | 592 |
| US 5 K 90 FT | 6536351 | 6341608 | 590 |
| US 5 KS OR | 5668046 | 6338462 | 501 |
| US 5 KS OR | 5668046 | 6338462 | 594 |
| | | | |
| US 7 100 A2 | 6189434 | 6341810 | 610 |
| US 7 100 FT | 6188178 | 6340180 | 503 |
| US 7 100 FT | 6188178 | 6340180 | 610 |
| US 7 110 FT | 6188239 | 6340199 | 610 |
| US 7 120 FT | 6188291 | 6340202 | 503 |
| US 7 120 FT | 6188291 | 6340202 | 610 |
| US 7 130 FT | 6188352 | 6340210 | 503 |
| US 7 130 FT | 6188352 | 6340210 | 610 |
| US 7 140 FT | 6188413 | 6340229 | 503 |
| US 7 140 FT | 6188413 | 6340229 | 610 |
| US 7 150 A2 | 6189731 | 6341861 | 611 |
| US 7 150 FT | 6188475 | 6340237 | 503 |
| US 7 150 FT | 6188475 | 6340237 | 610 |
| US 7 160 FT | 6188536 | 6340245 | 503 |
| US 7 160 FT | 6188536 | 6340245 | 610 |
| US 7 170 FT | 6188598 | 6340253 | 503 |
| US 7 170 FT | 6188598 | 6340253 | 610 |
| US 7 180 FT | 6188659 | 6340261 | 503 |
| US 7 180 FT | 6188659 | 6340261 | 610 |
| US 7 190 FT | 6188710 | 6340288 | 503 |
| US 7 190 FT | 6188710 | 6340288 | 610 |
| US 7 20 FT | 6187690 | 6340016 | 503 |
| US 7 20 FT | 6187690 | 6340016 | 610 |
| US 7 200 A2 | 6190034 | 6341950 | 610 |
| US 7 200 FT | 6188772 | 6340296 | 503 |
| US 7 200 FT | 6188772 | 6340296 | 610 |
| US 7 250 FT | 6458172 | 6340385 | 503 |
| US 7 250 FT | 6458172 | 6340385 | 610 |
| US 7 30 A4 | 6803705 | 6341750 | 610 |
| | | /pc. | |
| US 7 30 FT | 6187751 | 6340032 | 503 |
| US 7 30 FT | 6187751 | 6340032 | 610 |
| US 7 300 A2 | 6190096 | 6341969 | 610 |
| US 7 300 A4 | 6802418 | 6341970 | 610 |
| | | /pc. | |
| US 7 300 FT | 6188895 | 6340377 | 503 |
| US 7 300 FT | 6188895 | 6340377 | 610 |
| US 7 40 A4 | 6803736 | 6341758 | 610 |
| | | /pc. | |
| US 7 40 FT | 6187812 | 6340059 | 503 |
| US 7 40 FT | 6187812 | 6340059 | 610 |
| US 7 400 FT | 6458233 | 6340393 | 503 |
| US 7 400 FT | 6458233 | 6340393 | 610 |
| US 7 50 A2 | 6189137 | 6341764 | 610 |
| US 7 50 A4 | 6803743 | 6341766 | 610 |
| | | /pc. | |
| US 7 50 FT | 6187874 | 6340075 | 503 |
| US 7 50 FT | 6187874 | 6340075 | 610 |
| US 7 60 A4 | 6803750 | 6341774 | 610 |
| | | /pc. | |
| US 7 60 FT | 6187935 | 6340091 | 503 |
| US 7 60 FT | 6187935 | 6340091 | 610 |
| US 7 600 A2 | 6190157 | 6341993 | 610 |
| US 7 600 A4 | 6411634 | 6341995 | 610 |
| US 7 600 FT | 6188833 | 6340318 | 503 |
| US 7 600 FT | 6188833 | 6340318 | 610 |
| US 7 70 FT | 6187997 | 6340113 | 503 |
| US 7 70 FT | 6187997 | 6340113 | 610 |
| US 7 80 A4 | 6803859 | 6341800 | 610 |
| | | /pc. | |
| US 7 80 FT | 6188055 | 6340148 | 503 |
| US 7 80 FT | 6188055 | 6340148 | 610 |
| US 7 90 A4 | 6803866 | 6341804 | 610 |
| | | /pc. | |
| US 7 90 FT | 6188116 | 6340164 | 610 |
| US 7 K 100 A2 | 6185894 | 6338690 | 599 |
| US 7 K 100 A4 | 5913238 | 6338872 | 600 |
| US 7 K 100 FT SO | 6176175 | 7193661 | 602 |
| US 7 K 110 A2 | 6185955 | 6338704 | 599 |
| US 7 K 120 A2 | 6186013 | 6338712 | 599 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| US 7 K 120 A4 | 6803699 | 6338876 | 601 |
| | | /pc. | |
| US 7 K 140 A2 | 6186136 | 6338739 | 599 |
| US 7 K 150 A2 | 6186198 | 6338747 | 599 |
| US 7 K 20 A2 | 6185412 | 6338607 | 599 |
| US 7 K 200 A2 | 6186495 | 6338801 | 599 |
| US 7 K 200 A4 | 5913245 | 6338881 | 600 |
| US 7 K 30 A2 | 6185474 | 6338615 | 599 |
| US 7 K 30 A4 | 6803637 | 6338858 | 601 |
| | | /pc. | |
| US 7 K 40 A2 | 6185535 | 6338623 | 599 |
| US 7 K 40 A4 | 6803644 | 6338860 | 601 |
| | | /pc. | |
| US 7 K 50 A2 | 6185597 | 6338631 | 599 |
| US 7 K 60 A2 | 6185658 | 6338658 | 599 |
| US 7 K 60 A4 | 6803675 | 6338864 | 601 |
| | | /pc. | |
| US 7 K 70 A2 | 6185719 | 6338666 | 599 |
| US 7 K 80 A2 | 6185771 | 6338674 | 599 |
| US 7 K 80 A4 | 6803682 | 6338868 | 601 |
| | | /pc. | |
| US 7 K 90 A2 | 6185832 | 6338682 | 599 |
| US 7 KS OR | 5668060 | 6338497 | 503 |
| US 7 KS OR | 5668060 | 6338497 | 603 |
| | | | |
| USL 5 200 FS | 6640270 | 6344305 | 609 |
| | | | |
| VEK-GRM 3.9 FS | 5304111 | 6016694 | 386 |
| VEK-GRM 4.8 FS | 5304128 | 6016696 | 386 |
| | | | |
| VF AZK 50 A2 | 5863861 | 6066629 | 537 |
| VF AZK 50 DD | 6046089 | 6066623 | 517 |
| VF AZK 50 DD | 6046089 | 6066623 | 537 |
| VF AZK 50 FS | 5049623 | 6066615 | 517 |
| VF AZK 50 FS | 5049623 | 6066615 | 537 |
| VF AZK A2 | 6065059 | 6066569 | 538 |
| VF AZK A4 | 5866206 | 6066571 | 538 |
| VF AZK FT | 6064991 | 6066550 | 518 |
| VF AZK FT | 6064991 | 6066550 | 538 |
| VF AZK FTK KGR | 6424191 | 6066640 | 766 |
| | | | |
| VIS 8 FT | 6014231 | 6018300 | 507 |
| | | | |
| VL-3Q2.5 10 SW | 5123248 | 6108159 | 520 |
| VL-3Q2.5 3 SW | 5123118 | 6108152 | 520 |
| VL-3Q2.5 5 SW | 5123163 | 6108154 | 520 |
| | | | |
| VUS 3 A2 | 5706007 | 6018517 | 587 |
| VUS 3 A4 | 5618454 | 6018520 | 587 |
| VUS 3 FT | 6229154 | 6018513 | 502 |
| VUS 3 FT | 6229154 | 6018513 | 586 |
| VUS 5 A2 | 6803453 | 6018512 | 594 |
| | | /pc. | |
| VUS 5 A4 | 6082773 | 6018509 | 594 |
| VUS 5 FT | 6446896 | 6018505 | 501 |
| VUS 5 FT | 6446896 | 6018505 | 593 |
| VUS 7 A2 | 6014354 | 6018408 | 603 |
| VUS 7 A4 | 6803873 | 6018412 | 603 |
| | | /pc. | |
| VUS 7 FT | 6014293 | 6018378 | 503 |
| VUS 7 FT | 6014293 | 6018378 | 602 |
| | | | |
| WAAD 200 DD | 6080717 | 6231922 | 310 |
| WAAD 200 FS | 6080410 | 6231900 | 310 |
| WAAD 300 DD | 6080779 | 6231926 | 310 |
| WAAD 300 FS | 6080472 | 6231904 | 310 |
| WAAD 400 DD | 6080830 | 6231930 | 310 |
| WAAD 400 FS | 6080533 | 6231908 | 310 |
| WAAD 500 DD | 6080892 | 6231934 | 310 |
| WAAD 500 FS | 6080595 | 6231912 | 310 |
| WAAD 600 DD | 6080953 | 6231938 | 310 |
| WAAD 600 FS | 6080656 | 6231916 | 310 |
| | | | |
| WB 30 75 A2 | 6014774 | 6019668 | 498 |
| WB 30 75 FT | 6014712 | 6019617 | 498 |
| | | | |
| WB GR A4 | 6561261 | 6017164 | 385 |
| WB GR FT | 6561254 | 6017160 | 384 |
| | | | |
| | | /100 pc. | |
| WBDHE 41 A2 | 5939290 | 1123195 | 731 |
| WBDHE 41 A4 | 5939306 | 1123197 | 731 |
| WBDHE 41 FT | 5939276 | 1123191 | 731 |

Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

# Type listing

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| WBH CGR50 A2 | 5890690 | 6016411 | 385 |
| WBV CGR50 A2 | 5890706 | 6016415 | 385 |
| WDB L 100 A2 | 6862252 | 6363742 | 643 |
| WDB L 100 FS | 6862078 | 6363702 | 641 |
| WDB L 100 FT | 6862177 | 6363722 | 642 |
| WDB L 150 A2 | 6862269 | 6363744 | 643 |
| WDB L 150 FS | 6862085 | 6363704 | 641 |
| WDB L 150 FT | 6862191 | 6363724 | 642 |
| WDB L 200 A2 | 6862290 | 6363746 | 643 |
| WDB L 200 FS | 6862115 | 6363706 | 641 |
| WDB L 200 FT | 6862207 | 6363726 | 642 |
| WDB L 300 A2 | 6862306 | 6363748 | 643 |
| WDB L 300 FS | 6862122 | 6363708 | 641 |
| WDB L 300 FT | 6862238 | 6363728 | 642 |
| WDB L 400 A2 | 6862313 | 6363750 | 643 |
| WDB L 400 FS | 6862139 | 6363710 | 641 |
| WDB L 400 FT | 6862245 | 6363730 | 642 |
| WDB L 50 A2 | 6862184 | 6363740 | 643 |
| WDB L 50 FS | 6862061 | 6363700 | 641 |
| WDB L 50 FT | 6862146 | 6363720 | 642 |
| | | /pc. | |
| WDBRL 90 20 DD | 6504015 | 6231527 | 309 |
| WDBRL 90 20 FS | 6503711 | 6231462 | 309 |
| WDBRL 90 30 DD | 6504077 | 6231535 | 309 |
| WDBRL 90 30 FS | 6503773 | 6231470 | 309 |
| WDBRL 90 40 DD | 6504138 | 6231543 | 309 |
| WDBRL 90 40 FS | 6503834 | 6231489 | 309 |
| WDBRL 90 50 DD | 6504190 | 6231551 | 309 |
| WDBRL 90 50 FS | 6503896 | 6231497 | 309 |
| WDBRL 90 60 DD | 6504251 | 6231578 | 309 |
| WDBRL 90 60 FS | 6503957 | 6231500 | 309 |
| | | price/m | |
| WDRL 1116 20 A2 | 5751267 | 6227360 | 308 |
| WDRL 1116 20 A4 | 6802449 | 6227361 | 309 |
| | | price/m | |
| WDRL 1116 20 DD | 6072613 | 6227600 | 308 |
| WDRL 1116 20 FS | 6169696 | 6227422 | 308 |
| WDRL 1116 30 A2 | 5751304 | 6227362 | 308 |
| WDRL 1116 30 A4 | 6802470 | 6227363 | 309 |
| | | price/m | |
| WDRL 1116 30 DD | 6072736 | 6227604 | 308 |
| WDRL 1116 30 FS | 6169757 | 6227430 | 308 |
| WDRL 1116 40 A2 | 5751311 | 6227364 | 308 |
| WDRL 1116 40 A4 | 6802500 | 6227365 | 309 |
| | | price/m | |
| WDRL 1116 40 DD | 6072910 | 6227608 | 308 |
| WDRL 1116 40 FS | 6169818 | 6227449 | 308 |
| WDRL 1116 50 A2 | 5751328 | 6227366 | 308 |
| WDRL 1116 50 A4 | 6802531 | 6227367 | 309 |
| | | price/m | |
| WDRL 1116 50 DD | 6073092 | 6227612 | 308 |
| WDRL 1116 50 FS | 6169870 | 6227457 | 308 |
| WDRL 1116 60 A2 | 5751359 | 6227368 | 308 |
| WDRL 1116 60 A4 | 6803590 | 6227369 | 309 |
| | | price/m | |
| WDRL 1116 60 DD | 6073276 | 6227616 | 308 |
| WDRL 1116 60 FS | 6169931 | 6227465 | 308 |
| WDRLU DF1116 2FT | 6428496 | 6227261 | 310 |
| WDRLU DF1116 3FT | 6218851 | 6227263 | 310 |
| WDRLU DF1116 4FT | 6218868 | 6227265 | 310 |
| WDRLU DF1116 5FT | 6218875 | 6227267 | 310 |
| WDRLU DF1116 6FT | 6218882 | 6227269 | 310 |
| | | /pc. | |
| WDTRL 200 DD | 6504619 | 6231667 | 310 |
| WDTRL 300 DD | 6504671 | 6231675 | 310 |
| WDTRL 400 DD | 6504732 | 6231683 | 310 |
| WDTRL 500 DD | 6977420 | 6231691 | 310 |
| WDTRL 600 DD | 6977482 | 6231705 | 310 |
| WEAS 110 A2 | 5242536 | 6098483 | 277 |
| WEAS 110 FS | 5242512 | 6098475 | 277 |
| WEAS 110 FT | 5242529 | 6098479 | 277 |
| WEAS 160 A2 | 5696346 | 6098868 | 285 |
| WEAS 160 FS | 5242543 | 6098860 | 285 |
| WEAS 160 FT | 5242550 | 6098864 | 285 |
| | | price/m | |
| WESP 50 20 BK | 6239955 | 7105665 | 728 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| WESP 50 40 FT | 5705567 | 7105673 | 729 |
| WESP 50 40 SG | 5705574 | 7105675 | 728 |
| | | /pc. | |
| WFP 110 FT | 6423583 | 6232500 | 294 |
| WH GRM35 A4 | 5863021 | 6016445 | 385 |
| WH GRM35 FT | 5863014 | 6016443 | 385 |
| | | price/m | |
| WKL 2020 FT | 6614844 | 6232102 | 305 |
| WKL 2030 FT | 6614851 | 6232104 | 305 |
| WKL 2040 FT | 6614868 | 6232106 | 305 |
| WKL 2050 FT | 6614875 | 6232108 | 305 |
| WKL 2060 FT | 6614882 | 6232110 | 305 |
| WKLD 2020 DD | 6614790 | 6232402 | 309 |
| WKLD 2030 DD | 6614806 | 6232404 | 309 |
| WKLD 2040 DD | 6614813 | 6232406 | 309 |
| WKLD 2050 DD | 6614820 | 6232408 | 309 |
| WKLD 2060 DD | 6614837 | 6232410 | 309 |
| WKLG 1120 A2 | 5037262 | 6311202 | 291 |
| WKLG 1120 A4 | 5403128 | 6311225 | 292 |
| WKLG 1120 FS | 6883035 | 6311008 | 289 |
| WKLG 1120 FT | 6883332 | 6311059 | 290 |
| WKLG 1130 A2 | 5037293 | 6311206 | 291 |
| WKLG 1130 A4 | 5866282 | 6311227 | 292 |
| WKLG 1130 FS | 6883097 | 6311012 | 289 |
| WKLG 1130 FT | 6883394 | 6311063 | 290 |
| WKLG 1140 A2 | 5037309 | 6311210 | 291 |
| WKLG 1140 A4 | 5403135 | 6311229 | 292 |
| WKLG 1140 FS | 6883158 | 6311016 | 289 |
| WKLG 1140 FT | 6883455 | 6311067 | 290 |
| WKLG 1150 A2 | 5037316 | 6311214 | 291 |
| WKLG 1150 A4 | 5866329 | 6311231 | 292 |
| WKLG 1150 FS | 6883219 | 6311020 | 289 |
| WKLG 1150 FT | 6883516 | 6311071 | 290 |
| WKLG 1160 A2 | 5037323 | 6311218 | 291 |
| WKLG 1160 A4 | 5403142 | 6311233 | 292 |
| WKLG 1160 FS | 6883271 | 6311024 | 289 |
| WKLG 1160 FT | 6883578 | 6311075 | 290 |
| WKLG 1620 A4 | 5909965 | 6227170 | 300 |
| WKLG 1620 FS | 6169092 | 6227023 | 298 |
| WKLG 1620 FT | 6169399 | 6227120 | 299 |
| WKLG 1620 FT SO | 5888529 | 7189040 | 301 |
| WKLG 1630 A4 | 5909996 | 6227172 | 300 |
| WKLG 1630 FS | 6169153 | 6227031 | 298 |
| WKLG 1630 FT | 6169450 | 6227139 | 299 |
| WKLG 1630 FT SO | 5888536 | 7189042 | 301 |
| WKLG 1640 A4 | 5910008 | 6227174 | 300 |
| WKLG 1640 FS | 6169214 | 6227058 | 298 |
| WKLG 1640 FT | 6169511 | 6227147 | 299 |
| WKLG 1640 FT SO | 5888543 | 7189044 | 301 |
| WKLG 1650 A4 | 5910015 | 6227176 | 300 |
| WKLG 1650 FS | 6169276 | 6227066 | 298 |
| WKLG 1650 FT | 6169573 | 6227155 | 299 |
| WKLG 1650 FT SO | 5888574 | 7189046 | 301 |
| WKLG 1660 A4 | 5910022 | 6227178 | 300 |
| WKLG 1660 FS | 6169337 | 6227074 | 298 |
| WKLG 1660 FT | 6169634 | 6227163 | 299 |
| WKLG 1660 FT SO | 5888581 | 7189048 | 301 |
| WKSG 120 A2 | 5683506 | 6098161 | 273 |
| WKSG 120 FS | 6351435 | 6098111 | 271 |
| WKSG 120 FT | 6351732 | 6098141 | 272 |
| WKSG 130 A2 | 5683513 | 6098165 | 273 |
| WKSG 130 FS | 6351497 | 6098115 | 271 |
| WKSG 130 FT | 6370030 | 6098145 | 272 |
| WKSG 140 A2 | 5683520 | 6098169 | 273 |
| WKSG 140 FS | 6351558 | 6098119 | 271 |
| WKSG 140 FT | 6034277 | 6098149 | 272 |
| WKSG 150 A2 | 5683568 | 6098173 | 273 |
| WKSG 150 FS | 6351619 | 6098123 | 271 |
| WKSG 150 FT | 6034031 | 6098153 | 272 |
| WKSG 160 A2 | 5683575 | 6098177 | 273 |
| WKSG 160 FS | 6351671 | 6098127 | 271 |
| WKSG 160 FT | 6033973 | 6098157 | 272 |
| WKSG 162 A2 | 5683582 | 6098571 | 280 |
| WKSG 162 FS | 6334810 | 6098501 | 278 |
| WKSG 162 FT | 6810734 | 6098550 | 279 |
| WKSG 163 A2 | 5683599 | 6098573 | 280 |
| WKSG 163 FS | 6812059 | 6098505 | 278 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | price/m | |
| WKSG 163 FT | 6766390 | 6098554 | 279 |
| WKSG 164 A2 | 5683605 | 6098575 | 280 |
| WKSG 164 FS | 6808939 | 6098509 | 278 |
| WKSG 164 FT | 6766451 | 6098558 | 279 |
| WKSG 165 A2 | 5683612 | 6098577 | 280 |
| WKSG 165 FS | 6808397 | 6098513 | 278 |
| WKSG 165 FT | 6656059 | 6098562 | 279 |
| WKSG 166 A2 | 5683629 | 6098579 | 280 |
| WKSG 166 FS | 6808335 | 6098517 | 278 |
| WKSG 166 FT | 6656295 | 6098566 | 279 |
| | | /pc. | |
| WKV 35 FS | 6050116 | 6043038 | 77 |
| WKV 35 FS | 6050116 | 6043038 | 84 |
| WKV 60 FS | 6050178 | 6043062 | 111 |
| WKV 60 FS | 6050178 | 6043062 | 160 |
| WKV 60 FT | 6990382 | 6042910 | 111 |
| WKV 60 FT | 6990382 | 6042910 | 160 |
| WL 607.5 LTR FS | 6581078 | 6050345 | 390 |
| | | /pc. | |
| WLB 90 112 A2 | 6121151 | 6312539 | 296 |
| WLB 90 112 A4 | 5910251 | 6312550 | 296 |
| WLB 90 112 FS | 6301874 | 6312330 | 295 |
| WLB 90 112 FT | 6302178 | 6312438 | 295 |
| WLB 90 113 A2 | 6121212 | 6312541 | 296 |
| WLB 90 113 A4 | 5910268 | 6312552 | 296 |
| WLB 90 113 FS | 6301935 | 6312349 | 295 |
| WLB 90 113 FT | 6302239 | 6312446 | 295 |
| WLB 90 114 A2 | 6901999 | 6312543 | 296 |
| WLB 90 114 A4 | 5910312 | 6312554 | 296 |
| WLB 90 114 FS | 6301997 | 6312357 | 295 |
| WLB 90 114 FT | 6302291 | 6312454 | 295 |
| WLB 90 115 A2 | 6121274 | 6312545 | 296 |
| WLB 90 115 A4 | 5910329 | 6312556 | 296 |
| WLB 90 115 FS | 6302055 | 6312365 | 295 |
| WLB 90 115 FT | 6302352 | 6312462 | 295 |
| WLB 90 116 A2 | 6121335 | 6312547 | 296 |
| WLB 90 116 A4 | 5910350 | 6312558 | 296 |
| WLB 90 116 FS | 6302116 | 6312373 | 295 |
| WLB 90 116 FT | 6302413 | 6312470 | 295 |
| WLB 90 162 FS | 6171798 | 6229336 | 304 |
| WLB 90 162 FT | 6172092 | 6229425 | 304 |
| WLB 90 163 FS | 6171859 | 6229344 | 304 |
| WLB 90 163 FT | 6172153 | 6229433 | 304 |
| WLB 90 164 FS | 6171910 | 6229352 | 304 |
| WLB 90 164 FT | 6172214 | 6229441 | 304 |
| WLB 90 165 FS | 6171972 | 6229360 | 304 |
| WLB 90 165 FT | 6172276 | 6229468 | 304 |
| WLB 90 166 FS | 6172030 | 6229379 | 304 |
| WLB 90 166 FT | 6172337 | 6229476 | 304 |
| WLB 90 2020 FT | 6176298 | 6233422 | 307 |
| WLB 90 2030 FT | 6176359 | 6233430 | 307 |
| WLB 90 2040 FT | 6176410 | 6233449 | 307 |
| WLB 90 2050 FT | 6176472 | 6233457 | 307 |
| WLB 90 2060 FT | 6176533 | 6233465 | 307 |
| WLBF 90 162 FT | 6174492 | 6230725 | 304 |
| WLBF 90 163 FT | 6174553 | 6230733 | 304 |
| WLBF 90 164 FT | 6174614 | 6230741 | 304 |
| WLBF 90 165 FT | 6174676 | 6230768 | 304 |
| WLBF 90 166 FT | 6174737 | 6230776 | 304 |
| WLBS 90 162 FT | 6173891 | 6230423 | 304 |
| WLBS 90 163 FT | 6173952 | 6230431 | 304 |
| WLBS 90 164 FT | 6174010 | 6230458 | 304 |
| WLBS 90 165 FT | 6174072 | 6230466 | 304 |
| WLBS 90 166 FT | 6174133 | 6230474 | 304 |
| WLK 1120 FT | 6303311 | 6312934 | 297 |
| WLK 1130 FT | 6303373 | 6312942 | 297 |
| WLK 1140 FT | 6303434 | 6312950 | 297 |
| WLK 1150 FT | 6303496 | 6312969 | 297 |
| WLK 1160 FT | 6303557 | 6312977 | 297 |
| WLT 1120 A4 | 5910367 | 6312815 | 297 |
| WLT 1120 FS | 6302475 | 6312632 | 296 |
| WLT 1120 FT | 6302710 | 6312713 | 296 |
| WLT 1130 A4 | 5910374 | 6312817 | 297 |
| WLT 1130 FS | 6302536 | 6312640 | 296 |
| WLT 1130 FT | 6302772 | 6312721 | 296 |
| WLT 1140 A4 | 5910381 | 6312819 | 297 |

| Type | GTIN | Item no. | Page |
|---|---|---|---|
| | | /pc. | |
| WLT 1140 FS | 6302598 | 6312659 | 296 |
| WLT 1140 FT | 6302833 | 6312748 | 296 |
| WLT 1150 A4 | 5910435 | 6312821 | 297 |
| WLT 1150 FS | 6304271 | 6312667 | 296 |
| WLT 1150 FT | 6302895 | 6312756 | 296 |
| WLT 1160 A4 | 5910442 | 6312823 | 297 |
| WLT 1160 FS | 6302659 | 6312675 | 296 |
| WLT 1160 FT | 6302956 | 6312764 | 296 |
| WLT 1620 A4 | 5910183 | 6229820 | 308 |
| WLT 1620 FT | 6172696 | 6229727 | 304 |
| WLT 1630 A4 | 5910190 | 6229822 | 308 |
| WLT 1630 FT | 6172757 | 6229735 | 304 |
| WLT 1640 A4 | 5910206 | 6229824 | 308 |
| WLT 1640 FT | 6172818 | 6229743 | 304 |
| WLT 1650 A4 | 5910237 | 6229826 | 308 |
| WLT 1650 FT | 6172870 | 6229751 | 304 |
| WLT 1660 A4 | 5910244 | 6229828 | 308 |
| WLT 1660 FT | 6172931 | 6229778 | 304 |
| WLT 2020 FT | 6176595 | 6233627 | 307 |
| WLT 2030 FT | 6176656 | 6233635 | 307 |
| WLT 2040 FT | 6176717 | 6233643 | 307 |
| WLT 2050 FT | 6176779 | 6233651 | 307 |
| WLT 2060 FT | 6176830 | 6233678 | 307 |
| WP 30 35 2000 FT | 6199754 | 6373100 | 727 |
| WP 30 35 5000 FT | 5614159 | 6373103 | 727 |
| | | price/m | |
| WP 40 50 3000 FT | 6169160 | 6373200 | 727 |
| WP 40 65 5000 A2 | 6199631 | 6373062 | 728 |
| WP 40 65 5000 FT | 6199693 | 6373070 | 727 |
| | | /pc. | |
| WPK SL OR | 5668107 | 6372898 | 730 |
| WPK SR OR | 5668091 | 6372881 | 730 |
| WRAA 120 FS | 6352395 | 6098405 | 277 |
| WRAA 120 FS | 6352395 | 6098405 | 296 |
| WRAA 120 FT | 6001033 | 6098445 | 277 |
| WRAA 120 FT | 6001033 | 6098445 | 296 |
| WRAA 130 FS | 6352456 | 6098409 | 277 |
| WRAA 130 FS | 6352456 | 6098409 | 296 |
| WRAA 130 FT | 6001095 | 6098449 | 277 |
| WRAA 130 FT | 6001095 | 6098449 | 296 |
| WRAA 140 FS | 6352517 | 6098413 | 277 |
| WRAA 140 FS | 6352517 | 6098413 | 296 |
| WRAA 140 FT | 6001156 | 6098453 | 277 |
| WRAA 140 FT | 6001156 | 6098453 | 296 |
| WRAA 150 FS | 6352579 | 6098417 | 277 |
| WRAA 150 FS | 6352579 | 6098417 | 296 |
| WRAA 150 FT | 6001217 | 6098457 | 277 |
| WRAA 150 FT | 6001217 | 6098457 | 296 |
| WRAA 160 FS | 6000975 | 6098421 | 277 |
| WRAA 160 FS | 6000975 | 6098421 | 296 |
| WRAA 160 FT | 6001279 | 6098461 | 277 |
| WRAA 160 FT | 6001279 | 6098461 | 296 |
| WRAA 162 FS | 6656653 | 6098800 | 284 |
| WRAA 162 FT | 6335770 | 6098827 | 284 |
| WRAA 163 FS | 6656714 | 6098804 | 284 |
| WRAA 163 FT | 6335831 | 6098831 | 284 |
| WRAA 164 FS | 6335596 | 6098808 | 284 |
| WRAA 164 FT | 6335893 | 6098835 | 284 |
| WRAA 165 FS | 6335657 | 6098812 | 284 |
| WRAA 165 FT | 6656776 | 6098839 | 284 |
| WRAA 166 FS | 6335718 | 6098816 | 284 |
| WRAA 166 FT | 6657018 | 6098843 | 284 |
| WRB 90 120 FS | 6033676 | 6098304 | 276 |
| WRB 90 120 FT | 6352159 | 6098344 | 276 |
| WRB 90 130 FS | 6351916 | 6098308 | 276 |
| WRB 90 130 FT | 6352210 | 6098348 | 276 |
| WRB 90 140 FS | 6351978 | 6098312 | 276 |
| WRB 90 140 FT | 6624737 | 6098352 | 276 |
| WRB 90 150 FS | 6352036 | 6098316 | 276 |
| WRB 90 150 FT | 6352272 | 6098356 | 276 |
| WRB 90 160 FS | 6352098 | 6098320 | 276 |
| WRB 90 160 FT | 6352333 | 6098360 | 276 |
| WRB 90 162 FS | 6335237 | 6098703 | 284 |
| WRB 90 162 FT | 6335534 | 6098730 | 284 |
| WRB 90 163 FS | 6335299 | 6098707 | 284 |
| WRB 90 163 FT | 6656417 | 6098734 | 284 |
| WRB 90 164 FS | 6335350 | 6098711 | 284 |
| WRB 90 164 FT | 6656479 | 6098738 | 284 |



Industrieinstallationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

Always indicate the item number when ordering.

# Type listing

| Type | GTIN | Item no. /pc. | Page |
|---|---|---|---|
| WRB 90 165 FS | 6335411 | 6098715 | 284 |
| WRB 90 165 FT | 6656530 | 6098742 | 284 |
| WRB 90 166 FS | 6335473 | 6098719 | 284 |
| WRB 90 166 FT | 6656592 | 6098746 | 284 |
| WRGV 110 A2 | 6897018 | 6091338 | 275 |
| WRGV 110 A2 | 6897018 | 6091338 | 294 |
| WRGV 110 A4 | 5403081 | 6091343 | 275 |
| WRGV 110 A4 | 5403081 | 6091343 | 294 |
| WRGV 110 FS | 6299294 | 6091318 | 275 |
| WRGV 110 FS | 6299294 | 6091318 | 294 |
| WRGV 110 FT | 6299355 | 6091334 | 275 |
| WRGV 110 FT | 6299355 | 6091334 | 294 |
| WRGV 160 A2 | 5696407 | 6227965 | 283 |
| WRGV 160 FS | 6171071 | 6227953 | 283 |
| WRGV 160 FS | 6171071 | 6227953 | 303 |
| WRGV 160 FT | 6171132 | 6227961 | 283 |
| WRGV 160 FT | 6171132 | 6227961 | 303 |
| WRGV 160 FT SO | 6024643 | 7189220 | 313 |
| WRV 200 FT | 6175574 | 6232507 | 306 |
| WRVL 110 A2 | 6901814 | 6091229 | 274 |
| WRVL 110 A2 | 6901814 | 6091229 | 293 |
| WRVL 110 A4 | 5403074 | 6091234 | 274 |
| WRVL 110 A4 | 5403074 | 6091234 | 293 |
| WRVL 110 FS | 6299171 | 6091164 | 274 |
| WRVL 110 FS | 6299171 | 6091164 | 293 |
| WRVL 110 FT | 6299232 | 6091180 | 274 |
| WRVL 110 FT | 6299232 | 6091180 | 293 |
| WRVL 160 A2 | 5684107 | 6227724 | 281 |
| WRVL 160 A4 | 5910077 | 6227730 | 281 |
| WRVL 160 FS | 6170470 | 6227708 | 281 |
| WRVL 160 FS | 6170470 | 6227708 | 302 |
| WRVL 160 FT | 6170531 | 6227716 | 281 |
| WRVL 160 FT | 6170531 | 6227716 | 302 |
| WRVL 160 FT SO | 5888390 | 6227732 | 313 |
| WRWV 160 A A2 | 5696353 | 6227868 | 282 |
| WRWV 160 A FS | 6170838 | 6227856 | 282 |
| WRWV 160 A FS | 6170838 | 6227856 | 302 |
| WRWV 160 A FT | 6170890 | 6227864 | 282 |
| WRWV 160 A FT | 6170890 | 6227864 | 302 |
| WRWV 160 I A2 | 5696360 | 6227914 | 282 |
| WRWV 160 I FS | 6170951 | 6227902 | 281 |
| WRWV 160 I FS | 6170951 | 6227902 | 302 |
| WRWV 160 I FT | 6171019 | 6227910 | 281 |
| WRWV 160 I FT | 6171019 | 6227910 | 302 |
| WRWV 200 A FT | 6175758 | 6232604 | 306 |
| WRWV 200 I FT | 6175819 | 6232612 | 306 |
| WRWV 200 V FT | 6175932 | 6232663 | 306 |
| WRWVK 110 A2 | 6309672 | 6091393 | 274 |
| WRWVK 110 A2 | 6309672 | 6091393 | 293 |
| WRWVK 110 A4 | 5403111 | 6091397 | 274 |
| WRWVK 110 A4 | 5403111 | 6091397 | 293 |
| WRWVK 110 FS | 6309610 | 6091377 | 274 |
| WRWVK 110 FS | 6309610 | 6091377 | 293 |
| WRWVK 160 A2 | 5767923 | 6227836 | 281 |
| WRWVK 160 A2 | 5767923 | 6227836 | 302 |
| WRWVK 160 FS | 5767701 | 6227832 | 281 |
| WRWVK 160 FS | 5767701 | 6227832 | 302 |
| WRWVV 110 FS | 5437918 | 6091379 | 294 |
| WSK 40 100 FT | 6007455 | 6008100 | 508 |
| WSK 40 40 FT | 6007097 | 6008046 | 508 |
| WSK 40 50 FT | 6007158 | 6008054 | 508 |
| WSK 40 60 FT | 6007219 | 6008062 | 508 |
| WSK 40 70 FT | 6007271 | 6008070 | 508 |
| WSK 40 80 FT | 6007332 | 6008089 | 508 |
| WSK 40 90 FT | 6007394 | 6008097 | 508 |
| WW 100 15 FS | 6608591 | 6015360 | 659 |
| WW 100 20 FS | 6608652 | 6015379 | 659 |
| ZABF | 6699063 | 2362979 | 260 |
| ZSE90-25-11 | 5958857 | 7215702 | 509 |
| ZSE90-25-17 | 5958901 | 7215713 | 509 |
| ZSE90-35-11 | 5958864 | 7215706 | 509 |
| ZSE90-35-17 | 5958918 | 7215716 | 509 |
| ZSE90-45-11 | 5958871 | 7215709 | 509 |
| ZSE90-45-17 | 5958925 | 7215719 | 509 |

| Type | GTIN | Item no. /pc. | Page |
|---|---|---|---|
| ZSE90-55-17 | 5958932 | 7215726 | 509 |
| ZSE90-65-17 | 5958963 | 7215730 | 509 |
| ZSF | 5518419 | 2362970 | 260 |
| ZST 100 BKRS FT | 6640669 | 6044601 | 263 |
| ZST 110 BKRS FT | 6640676 | 6044603 | 263 |



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