

LFS



**Cable routing systems -
Wall
India**

2019/2020

Building Connections

OBO
BETTERMANN



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Planning and mounting aids

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OBO LFS seminars: First-hand knowledge

With a comprehensive programme of training courses and seminars on the subject of cable routing systems, OBO is able to support its customers with specialist knowledge from a single source. Alongside the basic theoretical principles, the programme also deals with practical implementation in everyday applications. 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
- Data sheets

Invitations to tender for lightning protection/earthing at the highest level:

OBO manufacturers products to RAL GZ642-5 and is dedicated to compliance with the RAL directives. Lightning protection and earthing products can be used for invitations to tender according to RAL.

These documents are continually updated and can be downloaded for free at any time from the Internet download area at www.obo-bettermann.com.

Invitations to tender on the Internet at www.ausschreiben.de

More than 10,000 entries from the cable support systems, fire protection systems, connection and fastening systems, transient and lightning protection systems, cable routing systems, device systems and underfloor systems can be recalled for free. 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

Inclusion of the cable routing systems and metal service poles in the service measures



Specifications for protective measures

If there is a fault, touchable metallic parts must not carry voltage. For this reason it is necessary to carry out appropriate safety measures. These are specified in the currently valid standards. EN 50085-1 and EN 50085-2-1 apply to the set-up of the cable routing system, whilst the erection regulations DIN VDE 0100 Parts 410 and 540 apply to the installation (protection measure against dangerous shock currents).

Different installation types in the European standard

The European standard DIN EN 50085-1 takes different installation types into account, as they are used in different countries within the EU. While only equipotential bonding testing was previously required for installation trunking systems, now the listed component standards also require protective conductor functions. This is because, in some countries, it is possible to route insulated cable in trunking.

All metallic components must be included

DIN EN 50085-1 requires that all the metallic components can be included in the protective measures. The manufacturers must carry out the appropriate tests and document them. OBO installation trunking is also tested and certified by an external testing office – that of the VDE.

Continuous protection measures

If the trunking is interrupted at a wall penetration, then continuation of the protective measures is required, as, in this case, the trunking is a foreign, conductive part,

which spreads through different areas of a building.

The connection between the covers and the device installation trunking is made using the self-contacting cover. This guarantees self-contacting and continuous protection of the trunking covers and of the device installation trunking. A continuous protection measure is made without additional wiring. The connection between the bases is made via the joint connector. Joint connectors guarantee equipotential bonding between the bases. Important: Powder-coated metallic covers do not count as mixed construction and are thus not considered as insulating! They should thus be included in the protection measures. The sheet-steel partitions are self-contacting. The shielding measure reduces electro-smog and generally achieves improved EMC protection. Protective conductor connections should be created permanently. If there is a change to the system, e.g. for retro-installations, it is important to guarantee the maintenance of the protective functions.

Who needs to observe which standards



OBO as a manufacturer

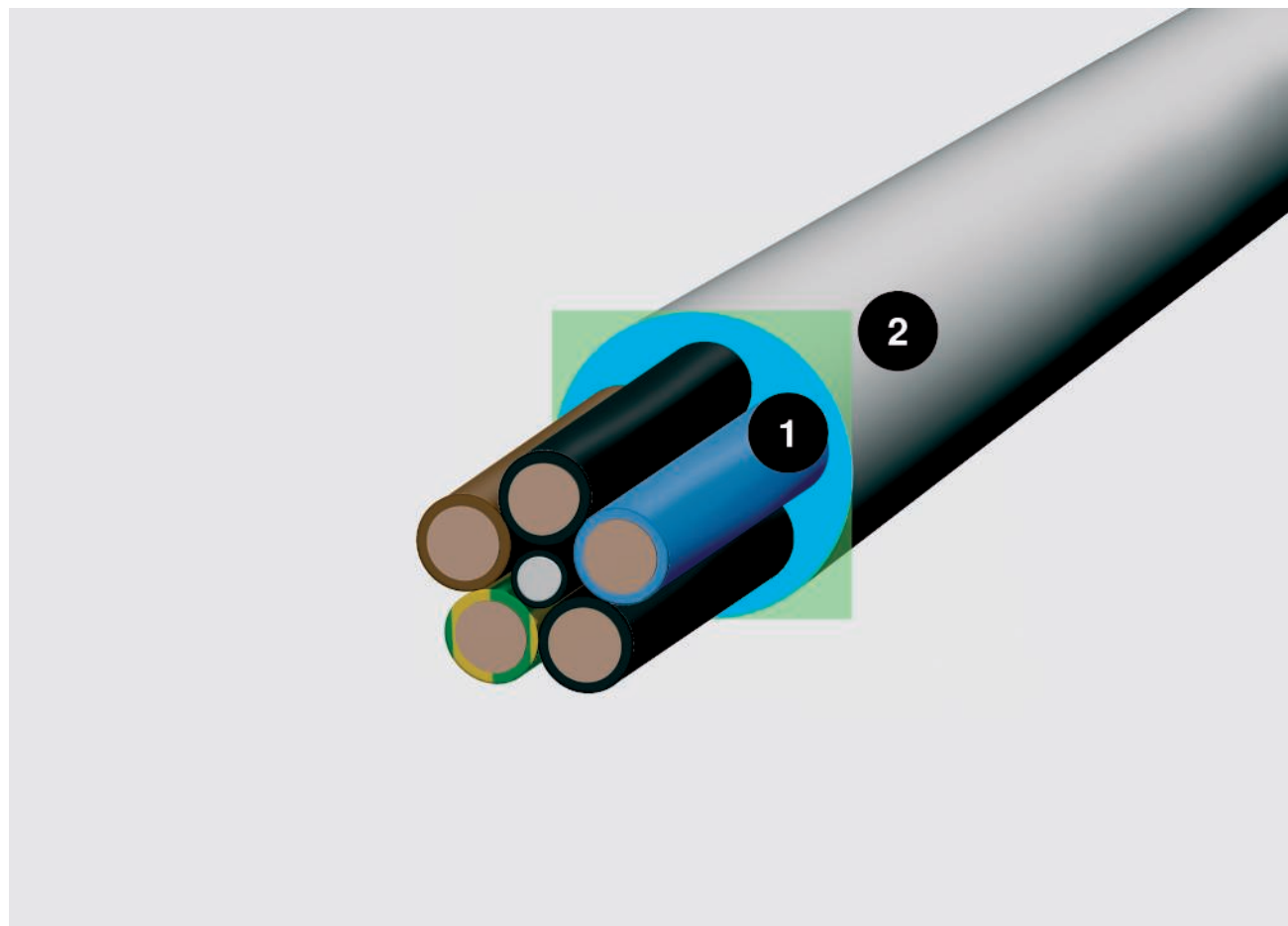
Standard	Title	OBO system
DIN EN 50085-1 Device testing directive	Electrical installation trunking systems for electrical installations – Part 1: General requirements	All systems
DIN EN 50085-2-1	Special requirements for electrical installation trunking systems on walls or ceilings.	WDK, LKM, SKL, GEK-K, GEK-S, GEK-A
DIN EN 50085-2-2	Special requirements for electrical installation systems for underfloor, flushfloor or on-floor installation.	UFS
DIN EN 50085-2-3	Special requirements for wiring trunking systems for installation in switchgear cabinets.	VK
DIN EN 50085-2-4	Special requirements for freestanding installation units.	ISS

The installation engineer as systems engineer

Standard	Title	OBO system
VDE 0100 Part 410	Set-up of electrical systems with rated voltages of up to 1,000 V. Protection against electric shock.	All systems
VDE 0100 Part 520	Set-up of electrical systems with rated voltages of up to 1,000 V. Cables.	All systems
VDE 0100 Part 540	Set-up of electrical systems with rated voltages of up to 1,000 V. Equipotential bonding.	All systems
VDE 0100 Part 610	Set-up of electrical systems with rated voltages of up to 1,000 V. First testing of electrical systems before handover to the operator.	All systems
VDE 0298	Set-up of electrical systems with rated voltages of up to 1,000 V. Insulated cables in heavy current systems.	All systems
DIN EN 50310	Application of equipotential bonding and earthing in buildings with information technology equipment.	All systems



How can I work out the cable volume?



Cable diameter and space required; 1 = diameter in mm, 2 = space required in cm²

An important criterion for the selection of the right trunking size of the underfloor system is the cable volume. As the cables are never packed tightly together or are absolutely parallel, it is not enough to base the volume calculation solely on the cable diameter. A realistic calculation is provided by the formula $(2r)^2$. To simplify your work, we have listed the diameters and space requirements of the most important cable types on this double page. Important: the values are average values, which may vary between manufacturers. Please refer to the manufacturer's specifications for the exact values.

The right choice

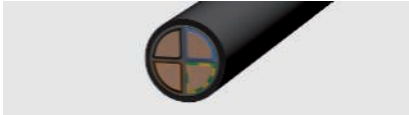
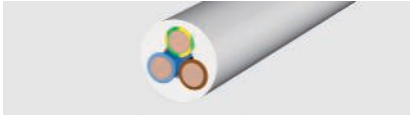
The table on the next pages will help you to select the correct trunking size. Besides the usable cross-section of the appropriate trunking, please observe the current DIN/VDE standards for the fill factor and the approved cable heating.

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.



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



Coax cable (standard)

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



IT cables type Cat...

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



Processing materials with the correct tool

Different materials must be processed differently. Chop saws have proved to be very useful when laying device installation trunking. This allows exact cutting. Trunking made of PVC and PC/ABS:

- Hand saw, fine-tooth (iron saw)
- Piercing saw with iron or plastic saw blade with fine teeth
- Circular saw with plastic saw blade, 350 mm diameter, 80–108 teeth/inch and 2,800 rpm

Sheet steel and aluminium trunking:

- Ribbon saw with saw ribbon for hard metals
- Circular saw with saw blade for hard metals, 350 mm diameter, 80–108 teeth/inch and 2,800 rpm
- Angle grinder with metal separating disc

Thermal expansion coefficient:

- Steel: $14 \times 10^{-6} \text{ 1/K}$
- Aluminium: $23.1 \times 10^{-6} \text{ 1/K}$
- Hard PVC: $71 \times 10^{-6} \text{ 1/K}$

Take the length expansion of the materials into account

Different materials expand differently and this must be taken into account. The expansion of the materials PVC, steel and aluminium can be calculated using the formula below.

$$\Delta L = L \cdot \alpha \cdot \Delta T$$

L = Length m

α = Thermal expansion co-efficient

ΔT = Temperature change

Examples

At a temperature difference ΔT of 20 °C, the 2,000 mm standard length changes as follows:

- For hard PVC, 2.84 mm
- For steel, 0.56 mm
- For aluminium, 0.924 mm

Perfect interplay for more efficient working

Faster and better installation sequences – this is the aim of both ourselves and the manufacturers of electrical devices. Previously used bolt-firing devices have thus become modern nail guns. With its Pulsa 700E, Spit can offer devices of the highest quality for this area of the electrical industry. Many OBO products can be processed particularly efficiently using the devices. This is proved by tests for mounting cable and device installation trunking, carried out with Spit devices.

Properties of the hard PVC used

Property	Value	DIN
Material designation	PVC-U-E-D-08-04-28	to DIN 7748
Tensile strength	min. 40 N/mm ²	to DIN 53 455
Crack expansion	min. 85%	to DIN 53 455
Breakdown voltage	min. 20 KV/mm	to DIN 53 481
Surface resistance	min. 1010 Ohm	to DIN 53 455
Shape heat resistance	min. 75 °C	to DIN 53 400/B
Temperature resistance in the application	max. 65 °C	
Flammability	Level V0	to UL 94

You can find more details in the chapter "Chemical resistance of hard PVC" in the "Additional information" part.

Halogen-free cable routing systems

Low smoke gas production, low corrosion, safe. Halogen-free installation materials belong in any fire protection plan.

This is what it's all about:

- If there is a fire, halogen-free materials reduce the amount of toxic smoke gases. They do not create any corrosive substances.
- In many public buildings, insurance companies require halogen-free materials to protect people and property.
- Particularly in public areas, halogen-free OBO cable routing systems are a safe choice.

Dangerous smoke gases from plastics

Plastics have good insulating properties and can be processed easily. However, during a fire, they can create aggressive gases. A danger to people and property.

Heavy smoke creation

Flame-protection agents, based on halogen compounds such as fluorine, iodine, chlorine and bromine, are used to keep the flammability of PVC low. If there is a fire, this safety aspect becomes a dangerous disadvantage: Toxic smoke gases, such as carbon dioxide and carbon monoxide, are created. These usually endanger people far faster than flames and heat. For example, in the fire catastrophe at Düsseldorf Airport in 1996 or in the Tauern Tunnel in 1999, considerable quantities of burned plastics contributed to the formation of smoke and hazardous substances. A highly toxic mixture, which can be lethal after just a few breaths.

Corrosive fire gases

PVC releases corrosive hydrogen chloride gas, which, in conjunction with water, forms hydrochloric acid. Hydrochloric acid has a highly caustic effect on the respiratory channels. As an electrically conductive substance, it can cause short circuits and destroy devices. Additional corrosive combustion gas products are cyanide and ammonia. In addition, extremely toxic dioxins can damage the building to such an extent that the reconstruction of parts of the building is very expensive or even impossible.

Therefore, from a fire protection perspective, halogen-free installation materials are a safe alternative. The Association of Property Insurers also prescribes halogen-free materials for building areas in which many people meet. The term "halogen-free" excludes any organic chlorine or bromine compounds.



The new standard for cable routing with PVC trunking

OBO halogen-free cable routing systems protect people, the environment and property. All the products are made from high-quality PC/ABS (polycarbonate/acrylonitrile butadiene styrene). This material is one of the self-extinguishing plastics.

For safe cable routing, OBO can offer halogen-free WDKH wall and ceiling trunking, as well as halogen-free VKH wiring trunking for switching cabinet construction. A new feature of the product range is the Rapid 80 device installation trunking system GKH, which is completely halogen-free, along with all of its fittings. OBO makes the three cable routing systems available in all the standard dimensions. They are easy to mount and are stable, are produced to a high level of quality and are dimensionally stable.

Rapid 80 GKH halogen-free

Rapid 80 device installation trunking allows flexible and quick access to energy and data on the wall. It is primarily used in public facilities and offices.

WDKH halogen-free

OBO wall and ceiling trunking ensures safe cable routing. It can be used as wall or ceiling trunking.

VKH halogen-free

OBO wiring trunking from our Dahl system ensures tidy, clear wiring in a switching cabinet.

The safety aspects

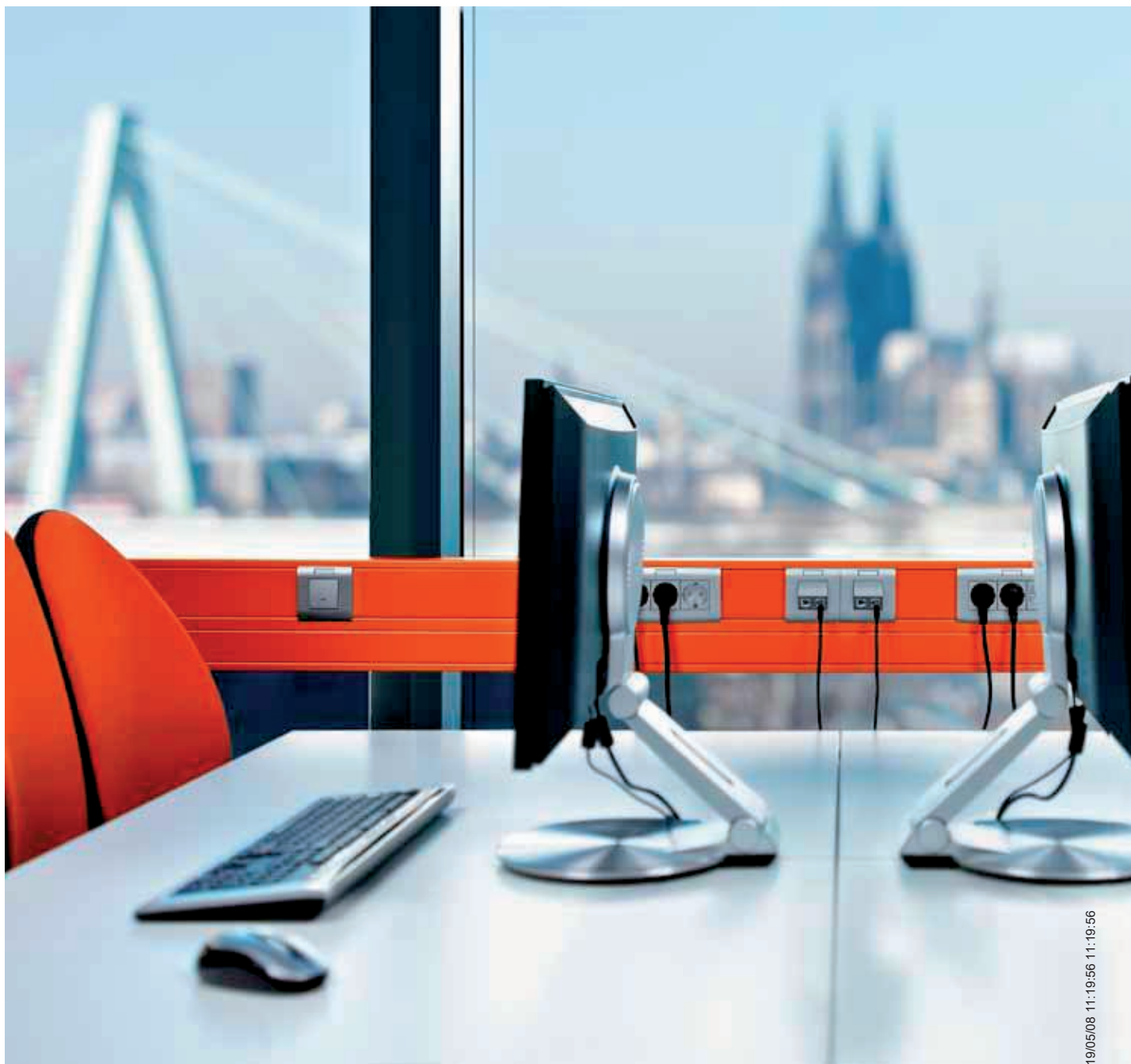
- Low smoke creation
- Low toxicity of the smoke gases
- Scarcely any release of corrosive gases
- Perfectly suited for public areas

HALOGEN
FREE





Individual special colours



PVC trunking

The wide range of standard colours and the many possible special colours mean that it is possible to integrate the colour of the cable routing systems into any office landscape. The plastic cable routing trunking and device installation trunking systems are available in the RAL colours pure white (RAL 9010), light grey (RAL 7035), grey (RAL 7030) and cream (RAL 9001) as standard.

Sheet steel and aluminium trunking

The device installation trunking systems and service poles are made of sheet steel or aluminium and are available in the standard colours pure white, light grey and cream. Powder coating means that all the other RAL colours are possible on sheet steel and aluminium trunking. Alternatively to the RAL standard, both NCS and DB colours can be applied on request.



Colour deviations

Material-dependent colour deviations may occur on PVC trunking and fittings. Causes for this are the different degrees in gloss of the different surfaces. They only absorb part of the light. "Silky matt" painted surfaces and "matted" surfaces on moulded parts have dif-

ferent structures and thus different levels of gloss. Absolute evenness is impossible. With a shiny surface, a colour appears lighter (greater reflection) and, with a matt surface, darker (greater absorption). Measurement of the differences is therefore extremely difficult.

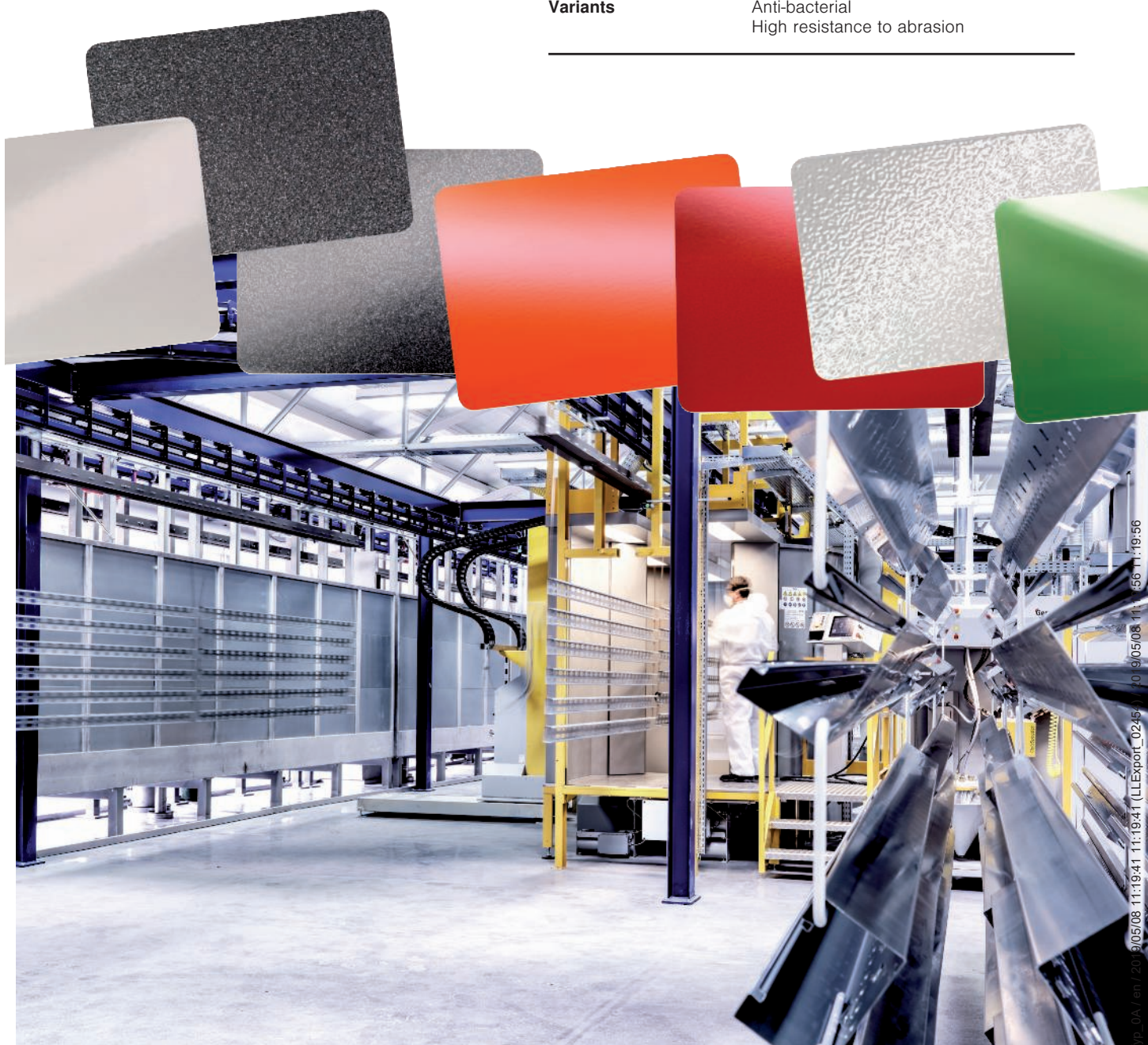
Powder coatings for indoor use

Three materials. One system.

Versatile. Attractive. Robust.

Powdered surface coatings offer a wide range of options. They turn a standard product into an individual solution, whose colour and function are matched exactly to your requirements. The colour and structure ensure a decorative exterior, whilst the coating properties offer high resistance to chemicals, very good corrosion protection and the best possible insulation properties.

Basic	Sheet steel or aluminium
Coating	Epoxy powder coating
Standard colours	RAL 9010, pure white RAL 9001, cream RAL 7035, light grey
Special colours	RAL, NCS and DB colours Metallic colours
Surface structure	Standard structure: Smooth transitions Diverse variants from fine to coarse
Surface shine level	Standard shininess: Approx. 22% Diverse variants from matt to high-gloss
Variants	Anti-bacterial High resistance to abrasion

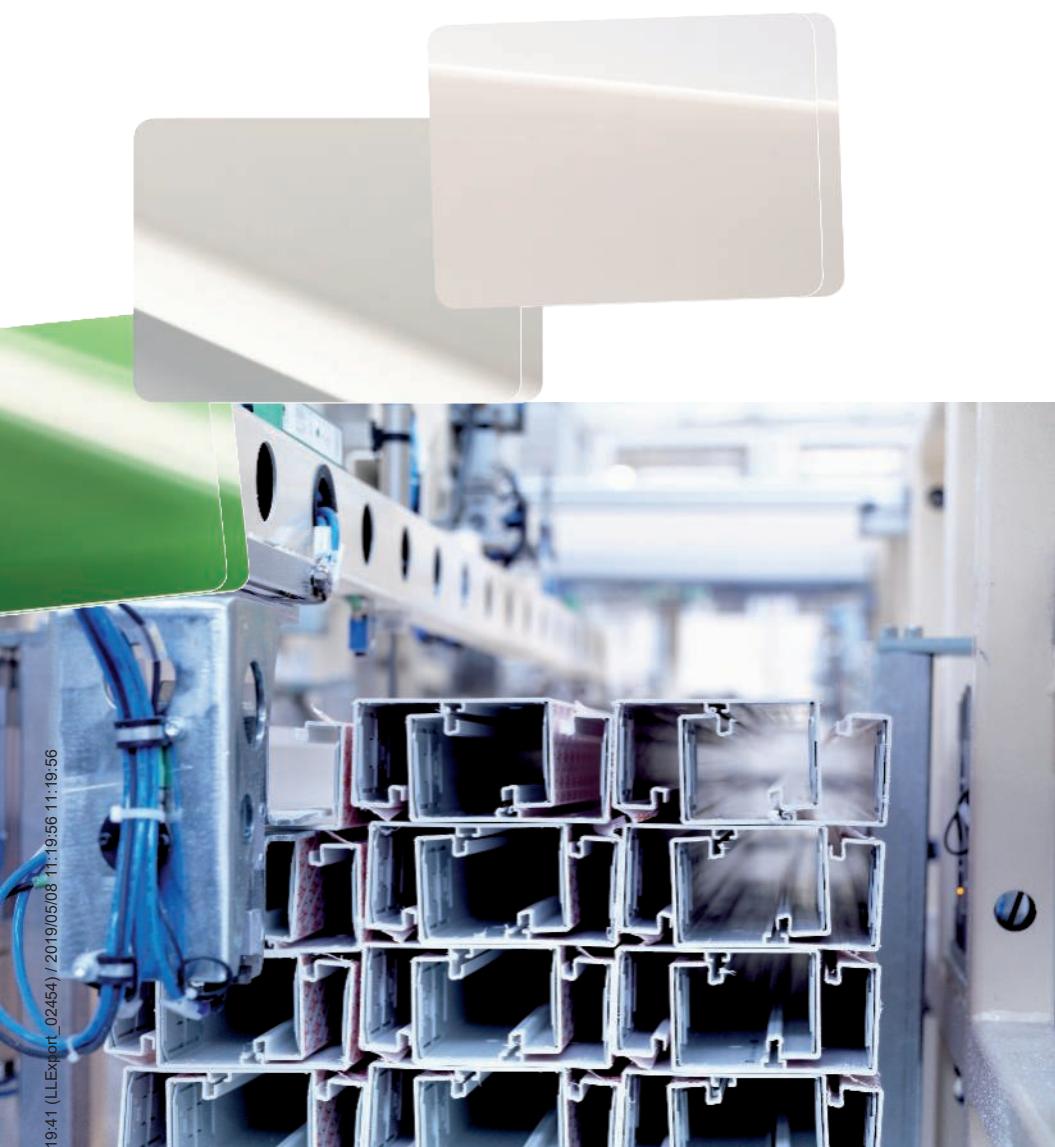




Plastic surfaces

OBO uses high-quality plastics with the best material properties. The PVC withstands high and low temperatures, as well as UV radiation, various chemicals and high mechanical loads. In addition, the halogen-free variants possess perfect fire protection properties, as they prevent corrosive smoke gases.

Plastic types
Polyvinylchloride (PVC)
Polycarbonate/acrylonitrile butadiene styrene (PC/ABS)



Plastic materials

ABS/ ASA	Acrylonitrile butadiene styrene
Temperature resistance:	to about minus 40 °C*, permanently up to 70 °C, briefly up to 85 °C
Resistant to:	Formic acid, citric acid, lactic acid
Unstable with:	Acetone, petrol, benzene, solvents for paints and butyric acid, chlorine, acetic acid, nitric acid.
Conditionally resistant to:	Hydrochloric acid, sulphuric acid.
Risk of stress cracks:	Relatively high, similar to polystyrene.
PA	Polyamide
Temperature resistance:	permanently up to approx. 90 °C, briefly up to around 130 °C, and to around minus 40 °C*
Resistant to:	Petrol, benzene, diesel oil, acetone, solvents for paints and lacquers, oils and greases
Unstable with:	Bleach, most acids, chlorine.
Risk of stress cracks:	Low in humid conditions; only with some aqueous salt solutions. Highly desiccated parts (high temperature and extremely low air humidity) are highly sensitive to fuels and various solvents.
PA/ GF	Polyamide, fibre-glass reinforced
Temperature resistance:	permanently up to approx. 100–110 °C, briefly up to around 160 °C, and to around minus 40 °C*
Resistant to:	Petrol, benzene, diesel oil, acetone, solvents for paints and lacquers, oils and greases. Slightly susceptible to stress cracking.
Unstable with:	Bleach, most acids, chlorine.
Risk of stress cracks:	Low in humid conditions; only with some aqueous salt solutions. Highly desiccated parts (high temperature and extremely low air humidity) are highly sensitive to fuels and various solvents.
PBPT	Polybutylene terephthalate
Temperature resistance:	permanently up to approx. 120 °C, briefly up to around 140 °C and to around minus 40 °C*.
Resistant to:	Petrol, diesel oil, most weak acids, oils and greases.
Unstable with:	Strong acids, chlorine, fluorine, bromine vapour, bleach, trichloroethylene, methylene chloride.
Conditionally resistant to:	Acetone, ammonia, benzene.
Risk of stress cracks:	
PE	Polyethylene
Temperature resistance:	hard types permanently up to approx. 90 °C, briefly up to approx. 105 °C, soft types permanently up to approx. 80 °C, briefly up to approx. 100 °C and to approx. minus 40 °C*.
Resistant to:	Alkalis and inorganic acids.
Unstable with:	Chlorine, hydrocarbons, oxidising acids.
Conditionally resistant to:	Acetone, organic acids, petrol, benzene, diesel oil, most oils.
Risk of stress cracks:	Stress cracks can be caused by, among other things, acetone, various alcohols, formic acid, ethanol, petrol, benzene, butyric acid, acetic acid, formaldehyde, various oils, petroleum, propanol, nitric acid, hydrochloric acid, sulphuric acid, soap solutions, turpentine, trichloroethylene, citric acid.
PP/GF	Polypropylene, fibre-glass reinforced
Temperature resistance:	permanently up to approx. 90 °C, briefly up to around 110 °C, and to around minus 30 °C. Chem. resistance generally as for polyethylene
Resistant to:	Alkalis and inorganic structures
Unstable with:	Chlorine, hydrocarbons, oxidising acids.
Risk of stress cracks:	Low, only with some acids such as chromic acid, hydrofluoric acid and hydrochloric acid, as well as nitrogen oxide.



PC	Polycarbonate
Temperature resistance:	permanently up to approx. 110 °C (in water 60 °C), briefly up to 125 °C, and to below minus 35 °C. *
Resistant to:	Petrol, turpentine, most weak acids.
Unstable with:	Acetone, benzene, chlorine, methylene chloride, most concentrated acids.
Risk of stress cracks:	Relatively low, media which can cause tension cracking include petrol, aromatic hydrocarbons, methanol, butanol, acetone, turpentine.

PC / ABS	Polycarbonate/acrylonitrile butadiene styrene
Temperature resistance:	–30 °C to + 90 °C, briefly up to approx. 105 °C, melting range at approx. 200 °C, thermal decomposition at 300 °C. Material thicknesses of 1.5 mm or more can achieve UL94 V-0. At material thicknesses of 1 mm or more, the glow wire temperature of 960 °C according to IEC 60695-2-12 is achieved.
Resistant to:	Mineral acids, organic acids and aqueous salt solutions
Conditionally resistant to:	Alkalis, hydrocarbons, aromatics and (in trace form) a series of greases and oils.

POM	Polyacetal
Temperature resistance:	permanently up to approx. 100 °C, briefly up to around 130 °C and to around minus 40 °C*
Resistant to:	Acetone, ether, petrol, weak acetic acid, benzene, heating oil, oils and greases, toluene.
Unstable with:	Methylene chloride, trichloroethylene, hydrochloric acid, nitric acid, sulphuric acid.
Risk of stress cracks:	Low

PP	Polypropylene
Temperature resistance:	permanently up to approx. 90 °C, briefly up to around 110 °C, and to around minus 30 °C. Chemical resistance generally as for polyethylene.
Resistant to:	Alkalis and inorganic acids.
Unstable with:	Chlorine, hydrocarbons, oxidising acids.
Conditionally resistant to:	Acetone, organic acids, petrol, benzene, diesel oil, most oils.
Risk of stress cracks:	Low, only with some acids such as chromic acid, hydrofluoric acid and hydrochloric acid, as well as nitrogen oxide.

PS	Polystyrene
Temperature resistance:	Because of its relatively high sensitivity to the effects of chemicals, its use is not recommended at temperatures above normal room temperature, about 25 °C. Resistance to cold: to about minus 40 °C*.
Resistant to:	Alkalis, most acids, alcohol.
Unstable with:	Butyric acid, concentrated nitric acid, concentrated acetic acid, acetone, ether, petrol and benzene, solvents for paints and lacquers, chlorine, diesel fuel.
Conditionally resistant to:	Oils and greases.
Risk of stress cracks:	Relatively high. Stress cracks can be caused by, among other things, acetone, ether, petrol, cyclohexane, heptane, methanol, propanol and the softeners of some mixes used in PVC cables.



PVC	Polyvinylchloride
Temperature resistance:	permanently up to approx. 65 °C, briefly up to around 75 °C and to around minus 30 °C.
Resistant to:	Weak acids, alkalis, oils and greases, petrol
Unstable with:	Strong acids, benzene, acetone, iodine, toluene, trichloroethylene.
Risk of stress cracks:	Low, only with some solvents such as benzene and acetone.
Material designation according to DIN 7748:	PVC-U-E-D-080-04-28
Tensile strength to DIN 53 455:	min. 40 N/mm ²
Elongation at tear according to DIN 53 455:	min. 65%
Impact resistance according to DIN 53 481:	min. 20 KV/mm
Surface resistance according to DIN 53 482:	min. 10 ¹⁰
Thermoforming resistance according to DIN 53 460/B:	min. 75 °C
Flammability according to UL 94:	Level V0
Materials classification according to DIN EN 4102:	Class B1 and B2 tested

The minus values apply only for parts in the idle condition with no severe impact stress. There is no plastic that is resistant to every chemical. The agents listed are only a small selection. Plastic parts are especially at risk in the presence of chemicals and high temperatures. Stress cracks may occur. If in doubt, please consult us and/or ask for a detailed chemical resistance table. Stress crack formation: Stress cracks may occur if plastic parts under tension are exposed to chemicals at the same time. Parts made of polystyrene and polyethylene are particularly susceptible. Stress cracks may even be caused by agents to which the plastic in question is resistant in the absence of stress. Typical examples of parts under constant stress when used as intended: grip clips, intermediate connectors of cable glands, ribbon clips.



European classification

Classification to EN 50085-1

		WDK cable trunking	WDKH cable trunking	LKM cable trunking	SKL skirting trunking	VK wiring trunking	VKH wiring trunking	Rapid 45-2 GK PVC device installation trunking	Rapid 45-2 GA aluminium device installation trunking	Rapid 80 GK PVC device installation trunking	Rapid 80 GKH PC/ABS device installation trunking	Rapid 80 GS steel device installation trunking	Rapid 80 GA aluminium device installation trunking	ISS service pole
6.1	According to material	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
6.2	According to impact resistance for installation and application			*1										
6.2.1	Electrical installation trunking systems for impact energy 0.5 J	x	x	*1										
6.2.2	Electrical installation trunking systems for impact energy 1 J			*1										
6.2.3	Electrical installation trunking systems for impact energy 2 J			*1	x									
6.2.4	Electrical installation trunking systems for impact energy 5 J			*1					x					
6.2.5	Electrical installation trunking systems for impact energy 20 J			*1							x	x	x	x
6.3	According to temperature, as specified in the Tables 1, 2 and 3													
	Table 1: Minimum storage and transport temperatures $\pm 2^{\circ}\text{C}$													
	-45													
	-25			x								x	x	x
	-15				x				x					
	-5	x	x			x	x							
	Table 2: Minimum installation and application temperatures $\pm 2^{\circ}\text{C}$													
	-25			x								x	x	x
	-15								x					
	-5	x	x		x									
	+5													
	+15					x	x							
	Table 3: Maximum application temperatures $\pm 2^{\circ}\text{C}$													
	+60	x	x		x	x	x			x		x	x	x
	+90													
	+105													
	+120													
6.4	According to the resistance against fire spread													
6.4.1	Electrical installation trunking systems which permit the spread of fire	x	x			x	x			x				
6.4.2	Electrical installation trunking systems which do not permit the spread of fire			x	x							x	x	x

x appropriate classification, *1 in test, *2 in consultation



European classification

Classification to EN 50085-1

		WDK cable trunking	WDKH cable trunking	LKM cable trunking	SKL skirting trunking	VK wiring trunking	VKH wiring trunking	Rapid 45-2 GK PVC device installation trunking	Rapid 45-2 GA aluminium device installation trunking	Rapid 80 GK PVC device installation trunking	Rapid 80 GKH PC/ABS device installation trunking	Rapid 80 GS steel device installation trunking	Rapid 80 GA aluminium device installation trunking	ISS service pole
6.5	According to the electrical conductivity													
6.5.1	Electrical installation trunking system with electrical conductivity			x								x	x	x
6.5.2	Electrical installation trunking system without electrical conductivity	x	x		x	x	x			x				
6.6	According to the electrical insulation property													
6.6.1	Electrical installation trunking system without electrical insulation property			x								x	x	x
6.6.2	Electrical installation trunking system with electrical insulation property	x	x		x	x	x			x				
6.7	According to the protection ratings offered by the housing or casing to EN 60529:1991													
6.7.1	According to protection against ingress of solid foreign bodies	IP 20	IP 20	IP 30	IP 41			IP 40	IP 40	IP 30	IP 30	IP 30	IP 30	IP 30
6.7.2	According to protection against ingress of water													
6.7.3	According to protection against contact with dangerous parts													
6.8	According to protection against corrosive or impure substances	-	-	-	-	-	-	-	-	-	-	-	-	-
6.9	According to the fastening type of the system trunking cover													
6.9.1	Only open the trunking cover of the electrical installation trunking system without tools	x	x	x		x	x							
6.9.2	Only open the trunking cover of the electrical installation trunking system with tools									x		x	x	
6.10	According to the electrical protection separation													
6.10.1	Electrical installation trunking systems without internal protection separation element			x		x	x					x	x	
6.10.2	Electrical installation trunking systems with internal protection separation element	x	x		x					x	x			

x Appropriate classification, *2 under consultation

European classification

Classification to EN 50085-2-1

		WDK cable trunking	WDKH cable trunking	LKM cable trunking	SKL skirting trunking	VK wiring trunking	VKH wiring trunking	Rapid 45-2 GK PVC device installation trunking	Rapid 45-2 GA aluminium device installation trunking	Rapid 80 GK PVC device installation trunking	Rapid 80 GKH PC/ABS device installation trunking	Rapid 80 GS steel device installation trunking	Rapid 80 GA aluminium device installation trunking	ISS service pole
6.101.3	Concealed/surface-mounded electrical installation trunking on the wall or ceiling.													
6.101.3.1	Concealed/surface-mounded electrical installation trunking on the wall.	x	x	x					x			x	x	
6.101.3.2	Concealed/surface-mounded electrical installation trunking on the ceiling.	x	x	x				x	x	x	x	x	x	
6.101.3.3	Electrical installation trunking on the wall and supported by the base.				x									
6.101.3.4	Electrical installation trunking on the wall and supported by a different horizontal surface to the floor.													
6.101.4	Electrical installation trunking system, mounted at a distance to the wall or ceiling with fastenings								x			x	x	
6.102	According to the protection against contact between liquids and insulated cables and parts carrying voltage in the case of skirting trunking and wet cleaning of the floor													
6.102.1	No data													
6.102.2	Add to the instructions of the manufacturer, which limit the installation position of the electrical installation trunking system.													
6.102.3	Add to the instructions of the manufacturer, which allow all the installations of the electrical installation trunking system, but limits the layers of insulated cables and parts carrying voltage in the electrical installation trunking system.													
6.102.4	Add to the instructions of the manufacturer, which allow all the installations of the electrical installation trunking system and allows the layers of insulated cables and parts carrying voltage in the electrical installation trunking system.													
6.103	According to type													
6.103.1	Type 1 Electrical installation trunking system				x									
6.103.2	Type 2 Electrical installation trunking system (distribution electrical installation trunking system)	x	x	x										
6.103.3	Type 3 Electrical installation trunking system (installation electrical installation trunking system)					x	x		x			x	x	

x appropriate classification



Test marks

	KEMA-KEUR, Netherlands
	Underwriters Laboratories Inc., USA + CSA, Canada
	Verband der Elektrotechnik, Elektronik, Informationstechnik e.V., Germany
	South African Bureau of Standards



Chemical resistances of hard PVC

A = very good resistance
B = average resistance
C = not resistant

Medium	Temp. °C	Resistance
1.3-benzole disulphonic acid	20	A
1.3-butadiene	20	A
2.4-chlorobenzoyl chloride	20	A
2-amino-2.2-diphenylacetic acid	20	A
4-chlorine-2-nitroaniline	20	C
4-chlorobenzaldehyde-2-sulphonic acid	20	A
5-amino-2-hydroxybenzoic acid	20	A
Abietic acid	20	A
Acetaldehyde 100%	20	C
Acetaldehyde 40%	20	A
Acetaldehyde 40%	40	B
Acetaldehyde, acetic acid ratio 90:10	20	B
Acetanilide 100%	20	A
Acetates (ammonium-, Na- and others)	50	A
Acetic acid 10%	60	A
Acetic acid 100%	20	A
Acetic acid 100%	60	B
Acetic acid 25%	40	A
Acetic acid 25-70%	40	A
Acetic anhydride	20	C
Acetone	20	C
Acetophenone (methyl phenyl ketone)	20	C
Acetylacetone (2.4-pentanedione)	20	C
Acetylene 100%	20	B
Acetylsalicylic acid	20	A
Adipic acid	20	A
Adipic acid	60	B
Alcoholic drinks	< 40	A
Alizarin 100%	20	A
Alkanolic sulphonic acids	50	A
Allyl alcohol 100%	20	B
Allyl alcohol 100%	60	C
Allyl chloride	20	C
Aminobenzene (p-)	20	A
Aminobenzenesulphonic acid (m-, o-, p-)	20	A
Aminosalicylic acid (p-)	20	A
Ammonia (vapours of all concentrations)	40	A
Ammonia (vapours of all concentrations)	60	B
Ammonia, anhydrous, liquid	< 60	B
Ammonium hydroxide	60	A
Aniline 100%	20	A
Aniline chloride, saturated solution	20	C
Apple juice	60	A
Ascorbic acid	20	A
Aspartic acid	20	A
Beer	60	A
Benzene, containing benzole	20	C
Benzene, free from aromatic hydrocarbons	60	A
Benzoic acid	40	A
Benzoic anhydride	30	A
Benzole	20	C
Benzophenone 100%	20	C
Benzosulphonic acid	60	A
Benzotrifluoride	20	C
Benzotrifluoride	20	C
Benzoylbenzoic acid	20	A
Benzyl chloride	20	C
Betene	20	A
Bleaching liquor, 12% active chlorine	40	A
Bleaching liquor, 12% active chlorine	60	B
Blood	40	A
Boiled oil	60	C
Borates (NA-)	20	A
Borax	40	A
Boric acid	20	A
Brewer's wort	20	A
Brine	60	A
Bromates (K-, Na-)	40	A
Bromic acid	20	A
Bromides (K-, Na- and others)	60	A
Bromine water	20	A
Bromine, gaseous, dry	20	A
Bromine, liquid	20	C
Bromobenzene	20	C
Bromochloromethane	20	C
Bromochloropropane	20	C
Bromoform 100%	20	C
Butane, gaseous, 30%	20	A
Butanediol over 60%	40	B
Butanediol over 60%	20	C
Butanediol to 10%	20	A
Butanol	60	A
Buttermilk	20	A
Butyl acetate	20	C
Butyl butyrate	20	C
Butyl chloride	20	C
Butyl glycolate	20	C

A = very good resistance
B = average resistance
C = not resistant

Medium	Temp. °C	Resistance
Butyl phenoles	20	C
Butyric acid 100%	20	C
Butyric acid 20%	20	A
Butyric acid 20%	60	C
Carbon dioxide	60	A
Carbon disulphide 100%	20	B
Carbon monoxide	60	A
Castor oil	60	A
Chlorates (K-, Na- and others)	20	A
Chlorates (K-, Na- and others)	60	B
Chlorates (K-, Na- and others)	60	A
Chloric acid to 20%	40	A
Chloric acid to 20%	60	B
Chlorides (ammonium-, Na- and others)	20	A
Chlorine cyanide	20	A
Chlorine water (saturated solution)	20	B
Chlorine, gaseous, dry 0.5%	20	A
Chlorine, gaseous, dry 100%	20	B
Chlorine, gaseous, moist 5%	20	B
Chlorine, liquid	20	C
Chloroacetaldehyde	20	C
Chloroacetic acid	20	A
Chloroacetones	20	C
Chloroacetylchloride	20	C
Chloroanilines	20	C
Chlorobenzaldehyde	20	C
Chlorobenzene	20	C
Chlorobenzotrifluoride	20	C
Chlorobenzoylchloride	20	C
Chlorocresoles	20	C
Chloroethylbenzene	20	C
Chloroform	20	C
Chloronaphthalenes	20	C
Chloronitrobenzoic acid	20	A
Chromates (K-, Na- to 50%)	50	A
Chrome alum	60	A
Chromic acid	30	A
Chromic acid to 50%	40	A
Citrates (ammonium-, Na)	20	A
Citric acid	20	A
Citric acid	60	B
Cresol	20	C
Cumene	20	C
Cyanacetic acid	20	C
Cyanamide	20	A
Cyanides (K-, Na- to 50%)	60	A
Cyclohexanol	20	C
Cyclohexanone	20	C
Developer	40	A
Dextrose	50	A
Dibromomethylene	20	C
Dibutyl phthalate	20	C
Dibutylxalate	20	C
Dichloroethylene	20	C
Dichloropropylene	20	C
Dichromates (K-, Na-)	50	C
Diethyl ether	20	C
Diethylamine 100%	20	C
Diethylene glycol	60	C
Dimethylether	20	C
Di-n-butylether	20	C
Diethylphthalate	20	C
Dioxan	20	C
Diphenyl	20	C
Diphenylamine	20	C
Ethane	20	A
Ethanol	40	A
Ethanolamine	20	B
Ethyl acetate	20	C
Ethyl acrylate	20	C
Ethyl chloride	20	C
Ethylbenzene	20	C
Ethylene glycol	20	A
Fish oil	20	A
Fixing bath	60	A
Fluorides (ammonium-, K-, Na- and others)	60	A
Fluorine	20	B
Fluorine	60	C
Formaldehyde	60	A
Formamide 100%	20	C
Formiates (ammonium- and others)	20	A
Formic acid 100%	20	B
Formic acid 100%	60	C
Formic acid 50%	40	A
Furfural	20	C
Furfuryl alcohol	20	C
Gelatine	60	A

Chemical resistances of hard PVC

A = very good resistance
B = average resistance
C = not resistant

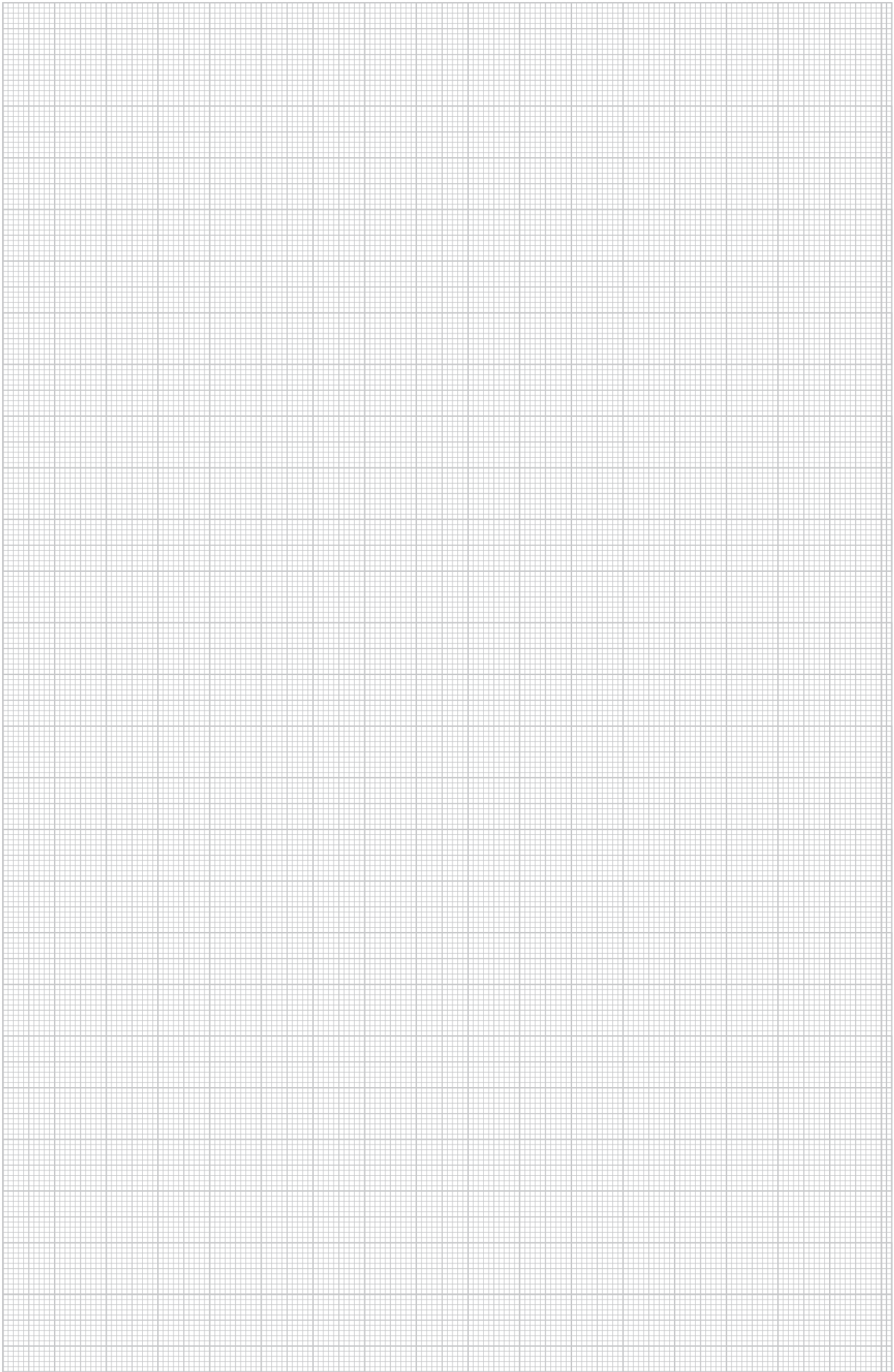


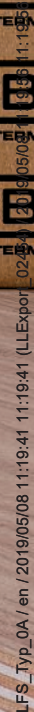
Medium	Temp. °C	Resistance
Gluconic acid	20	A
Glucose	60	A
Glutamic acid	20	A
Glycerine	60	A
Glycine	40	A
Glycol	60	A
Heptanes	20	A
Hexachloroethane	20	C
Hexacyanoferrates-II (Na-)	40	A
Hexacyanoferrates-III (K-)	40	A
Hexafluorosilicates (ammonium-, K- and others)	60	A
Hexafluorosilicic acid 32%	60	A
Hexamethylenetetramine (urotropine) 40% aqueous solution	60	A
Humic acids	20	A
Hydrazine, diluted solution 100%	20	C
Hydrazine, diluted solution 30%	20	A
Hydrobromic acid to 40%	60	A
Hydrochloric acid to 30%	20	A
Hydrochloric acid to 30%	60	B
Hydrochloric acid to 37%	20	A
Hydrochloric acid to 37%	40	B
Hydrofluoric acid to 40%	40	A
Hydrofluoric acid to 60%	60	B
Hydrogen bromide 100%	20	A
Hydrogen bromide 100%	60	B
Hydrogen chloride (gaseous, dry and moist)	40	A
Hydrogen cyanide	40	A
Hydrogen peroxide to 30%	60	A
Hydrogen peroxide to 90%	20	A
Hydrogen sulphide	60	A
Hydroxides (alkaline-earth metal)	60	A
Hydroxides (K-, Na-)	60	A
Hypochlorites (K-, Na- and others)	60	A
hypochlorous acid	60	A
Illuminating gas	20	A
Iodates (K-, Na- and others)	60	A
Iodides (K-, Na-)	60	A
Iodine	20	C
Isobutylphosphate	20	C
Lactic acid 10%	20	A
Lactic acid 10%	60	C
Lactic acid 100%	20	C
Lard	20	A
Linoleic acid	60	A
Linseed oil	60	A
Malic acid	20	A
Methanol 100%	40	A
Methanol 100%	60	B
Methyl bromide	20	C
Methyl chloride	20	C
Methyl methacrylate	20	C
Methylamine	20	B
Methylene dichloride	20	C
Milk	20	A
Mineral oils	60	C
N,N-diethyl aniline	20	C
Naphthalene	20	C
Nitrates (ammonium-, K-, Na- and others)	60	A
Nitric acid 25%	20	A
Nitric acid 25%	60	B
Nitric acid 50%	20	A
Nitric acid 50%	50	B
Nitric acid 95%	20	C
Nitrites (K-, Na- and others)	60	A
Nitrobenzene	20	C
Nitrogen oxide	20	C
Nitroglycerine	20	B
Nitrous acid to 50%	50	A
Nitrous acid to 98%	20	C
Oleic acid	60	A
Oxalates (ammonium-, K-, Na- and others)	60	A
Oxalic acid	40	A
Oxygen	60	A
Ozone 10%	30	A
Ozone 10%	60	B
Palmitic acid	20	A
Paraffin	40	A
Pentyl laurate	20	C
Pentylacetate	20	C
Pentylalcohol	60	A
Pentylchloride	20	C
Perbonate (K-)	60	A
Perchlorate	40	A
Perchloric acid 70%	20	A
Permanganate (K-) 6 to 15%	40	A

A = very good resistance
B = average resistance
C = not resistant

Medium	Temp. °C	Resistance
Permanganate (K-) 6 to 15%	60	B
Permanganate (K-) to 6%	60	A
Peroxymonosulphuric acid (Caro's acid)	20	A
Persulphate (Ammonium-, K-, Na- and others)	40	A
Petroleum	60	A
Phenol 1%	20	A
Phenol 90%	45	B
Phenylhydrazine	20	C
Phenylhydrazine chloride	20	B
Phenylhydrazine chloride	60	C
Phosgene, gaseous	20	A
Phosgene, gaseous	60	B
Phosgene, liquid	20	C
Phosphates (ammonium-, K-, Na- and others)	60	A
Phosphoric acid	40	A
Phosphoric acid	60	B
Phosphorus pentoxide	20	A
Propane	20	A
Propanol	60	A
Pyridine	20	A
Rhodianides (ammonium-, K-, Na- and others)	60	A
Salicylic acid	20	A
Silicates (K-)	20	A
Soap solution	40	A
Stearic acid	60	A
Sulphates (ammonium-, K-, Na- and others)	60	A
Sulphites (ammonium-, K-, Na- and others)	60	A
Sulphur dioxide, gaseous, dry and moist 100%	60	A
Sulphuric acid to 40%	20	C
Sulphuric acid to 50%	50	A
Sulphuric acid to 50%	60	A
Sulphuric acid to 80%	40	C
Sulphuric acid to 80%	60	B
Sulphuric acid to 96%	20	A
Sulphuric acid to 96%	60	B
Sulphuric acid, fuming (10% oleum)	20	C
Sulphurous acid	60	A
Tallow	60	A
Tan bark	20	A
Tar, free from aromatic hydrocarbons	20	A
Tartaric acid	60	A
Tetraethyl lead	60	A
Tetrafluoroboric acid	20	A
Tetrahydrofurane	20	C
Thickness	60	A
Toluene	20	A
Transformer oil	60	A
Trichloroethylene	20	C
Turpentine	20	A
Urea	60	C
Vegetable oils	40	A
Vinyl acetate	20	C
Viscose spinning solutions	60	A
Water	40	A
Water	60	B
Wine	40	A
Wine vinegar	50	A
Wood tar	20	C
Xylenes	20	C

Material properties of the hard PVC used
Material description according to DIN 7748 PVC-U-E-D-080-04-28
Tensile strength according to DIN 53 455 min. 40 N/mm²
Elongation at tear according to DIN 53 455 min. 65%
Puncture strength according to DIN 53 481 min. 20 KV/mm
Surface resistance according to DIN 53 482 min. 10 10
Thermoforming resistance according to DIN 53 460/B min. 75 °C
Temperature resistance in the application max. 65 °C
Flammability according to UL 94 Level V-0
Material classification to DIN EN 4102, Class B1 and B2-tested







WDK cable routing trunking systems, PVC

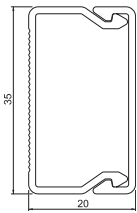
	Nominal height 20 mm	28
	Nominal height 40 mm	29
	Nominal height 60 mm	30
	Nominal height 60 mm, device installation	34





Trunking height 20 mm, trunking width 35 mm

Trunking, type WDK 20035

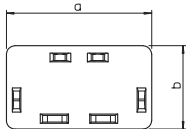


Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
WDK20035CW	Cream	2000	32	23.900	6026370

PVC Polyvinylchloride

Trunking cover and base with base perforation.

End piece



Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HE20035CW	Cream	35	20	10	0.334	6162487

PVC Polyvinylchloride

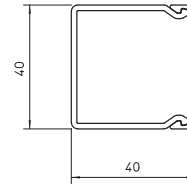
End piece to close the WDK trunking.

Trunking, type WDK 40040

Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
WDK40040CW	Cream	2000	36	42.100	6025412

PVC Polyvinylchloride

Trunking cover and base with base perforation.

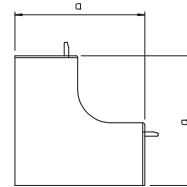


Internal corner cover

Type	Colour	Dimension a mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HI40040CW	Cream	65	—	4	2.502	6160093

PVC Polyvinylchloride

Internal corner cover for changing the direction of the WDK trunking.

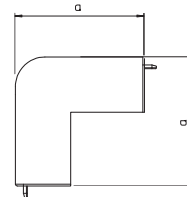


External corner cover

Type	Colour	Dimension a mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HA40040CW	Cream	66	—	4	3.139	6160697

PVC Polyvinylchloride

External corner hood for changing the direction of the WDK trunking.

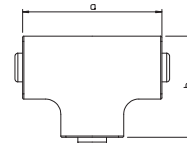


T and intersection cover

Type	Colour	Dimension a mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HT40040CW	Cream	83	43	4	2.681	6161995

PVC Polyvinylchloride

T and crosspiece hood for changing the direction of the WDK trunking.

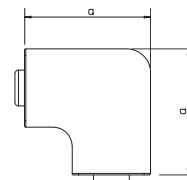


Flat angle cover

Type	Colour	Dimension a mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HF40040CW	Cream	63	—	4	2.534	6161294

PVC Polyvinylchloride

Flat angle cover for changing the direction of the WDK trunking.

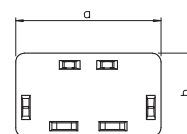


End piece

Type	Colour	Dimension a mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HE40040CW	Cream	40	40	10	0.615	6162592

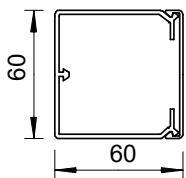
PVC Polyvinylchloride

End piece to close the WDK trunking.



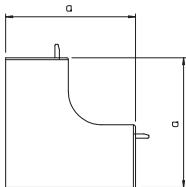
Trunking height 60 mm, trunking width 60 mm

Trunking, type WDK 60060



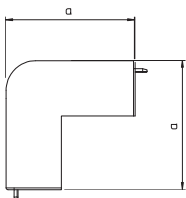
Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
WDK60060CW	Cream	2000	32	81.600	6021948
PVC Polyvinylchloride					
Trunking cover and base with base perforation. Four cover clips included					

Internal corner cover



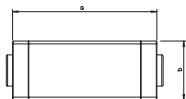
Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HI60060CW	Cream	130	—	2	10.932	6160301
PVC Polyvinylchloride						
Internal corner hood for changing the direction of the WDK trunking. Fittings are generally designed as cover fittings.						

External corner cover



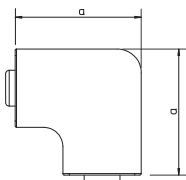
Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HA60060CW	Cream	100	—	2	9.931	6160905
PVC Polyvinylchloride						
External corner hood for changing the direction of the WDK trunking. Fittings are generally designed as cover fittings.						

T and intersection cover



Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HK60060CW	Cream	190	65	2	12.876	6162207
PVC Polyvinylchloride						
T and intersection cover for changing the direction of the WDK trunking. Fittings are generally designed as hood fittings.						

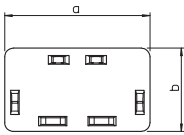
Flat angle cover



Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HF60060CW	Cream	101	—	2	8.016	6161502
PVC Polyvinylchloride						
Flat angle hood for changing the direction of the WDK trunking. Fittings are generally designed as hood/cover fittings.						

End piece

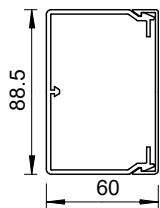
Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HE60060CW	Cream	60	60	10	1.551	6162800
PVC Polyvinylchloride						



End piece to close the WDK trunking.
The end pieces are pushed onto the trunking and kept in place by the spring action.

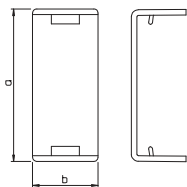
Trunking height 60 mm, trunking width 90 mm

Trunking, type WDK 60090



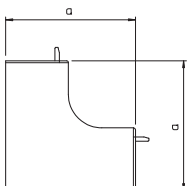
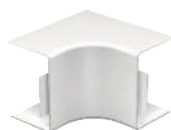
Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
WDK60090CW	Cream	2000	24	110.000	6021913
PVC Polyvinylchloride					
Trunking cover and base with base perforation. Four cover fixing devices included.					

Joint cover



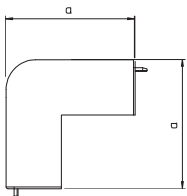
Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HS60090RW	Pure white	94	18	20	1.002	6193590
WDK HS60090CW	Cream	94	18	20	1.008	6193592
PVC Polyvinylchloride						
Joint cover for hiding cut edges and for smooth connection of trunking segments. Fittings are generally designed as hood/cover fittings.						

Internal corner cover



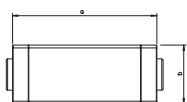
Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HI60090CW	Cream	130	—	2	12.989	6160328
PVC Polyvinylchloride						
Internal corner hood for changing the direction of the WDK trunking. Fittings are generally designed as cover fittings.						

External corner cover



Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HA60090CW	Cream	100	—	2	10.965	6160913
PVC Polyvinylchloride						
External corner hood for changing the direction of the WDK trunking. Fittings are generally designed as cover fittings.						

T and intersection cover

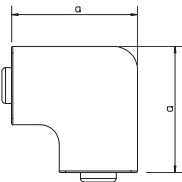


Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HK60090CW	Cream	230	65	2	16.992	6162215
PVC Polyvinylchloride						
T and intersection cover for changing the direction of the WDK trunking. Fittings are generally designed as hood fittings.						

Flat angle cover

Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HF60090CW	Cream	129	—	2	11.454	6161510
PVC Polyvinylchloride						

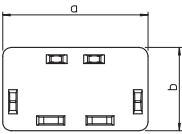
Flat angle hood for changing the direction of the WDK trunking.
Fittings are generally designed as hood/cover fittings.



End piece

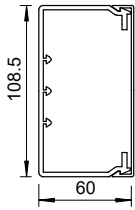
Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HE60090CW	Cream	90	60	10	2.337	6162819
PVC Polyvinylchloride						

End piece to close the WDK trunking.
The end pieces are pushed onto the trunking and kept in place by the spring action.



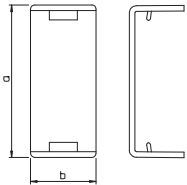
Trunking height 60 mm, trunking width 110 mm, device installation

Trunking, type WDK 60110



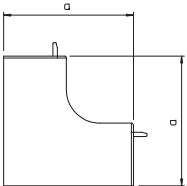
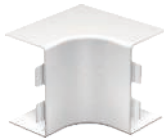
Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
WDK60110CW	Cream	2000	16	117.000	6021840
PVC Polyvinylchloride					
Trunking cover and base with base perforation. Four cover fixing devices included.					

Joint cover



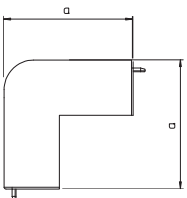
Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HS60110CW	Cream	113	18	20	1.142	6193598
PVC Polyvinylchloride						
Joint cover for hiding cut edges and for smooth connection of trunking segments. Fittings are generally designed as hood/cover fittings.						

Internal corner cover



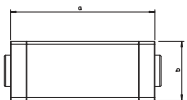
Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HI60110CW	Cream	130	—	2	13.312	6160336
PVC Polyvinylchloride						
Internal corner hood for changing the direction of the WDK trunking. Fittings are generally designed as cover fittings.						

External corner cover



Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HA60110CW	Cream	100	—	2	13.017	6160921
PVC Polyvinylchloride						
External corner hood for changing the direction of the WDK trunking. Fittings are generally designed as cover fittings.						

T and intersection cover

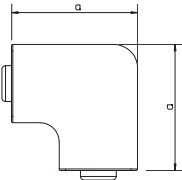


Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HK60110CW	Cream	272	65	2	22.905	6162223
PVC Polyvinylchloride						
T and intersection cover for changing the direction of the WDK trunking. Fittings are generally designed as hood fittings.						

Flat angle cover

Type	Colour	Dimension a mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HF60110CW	Cream	149	—	2	14.399	6161529
PVC Polyvinylchloride						

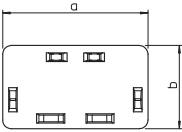
Flat angle hood for changing the direction of the WDK trunking.
Fittings are generally designed as hood/cover fittings.



End piece

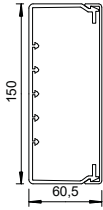
Type	Colour	Dimension a mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HE60110CW	Cream	110	60	10	2.934	6162827
PVC Polyvinylchloride						

End piece for closing the WDK trunking.
The end pieces are pushed onto the trunking and kept in place by the spring action.



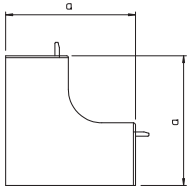
Trunking height 60 mm, trunking width 150 mm, device installation

Trunking, type WDK 60150



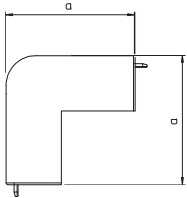
Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
WDK60150CW	Cream	2000	8	175.000	6021883
PVC Polyvinylchloride					
Trunking cover and base with base perforation. Four cover fixing devices included.					

Internal corner cover



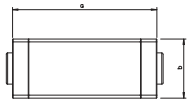
Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HI60150CW	Cream	130	—	2	14.449	6160379
PVC Polyvinylchloride						
Internal corner hood for changing the direction of the WDK trunking. Fittings are generally designed as cover fittings.						

External corner cover



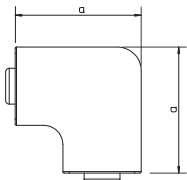
Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HA60150CW	Cream	100	—	2	17.452	6160972
PVC Polyvinylchloride						
External corner hood for changing the direction of the WDK trunking. Fittings are generally designed as cover fittings.						

T and intersection cover



Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HK60150CW	Cream	291	66	2	26.831	6162274
PVC Polyvinylchloride						
T and intersection cover for changing the direction of the WDK trunking. Fittings are generally designed as hood fittings.						

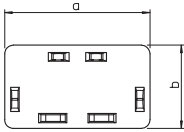
Flat angle cover



Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HF60150CW	Cream	190	—	2	19.910	6161561
PVC Polyvinylchloride						
Flat angle hood for changing the direction of the WDK trunking. Fittings are generally designed as hood/cover fittings.						

End piece

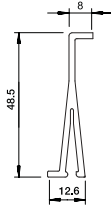
Type	Colour	Dimension a mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDK HE60150CW	Cream	150	60	10	4.223	6162878
PVC Polyvinylchloride						



End piece to close the WDK trunking.
The end pieces are pushed onto the trunking and kept in place by the spring action.

PVC cable routing trunking accessories

Partition for trunking height 60 mm



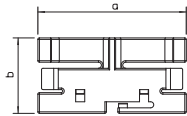
Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
2371 60	Light grey	2000	40	17.000	6023118

PVC Polyvinylchloride

Partition to divide the WDK trunking, with 60 mm trunking height for the installation of different voltage levels.

The partitions are pinned on the connectors in the base.

Cover clip for 60 mm trunking width

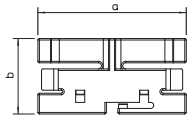


Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2370 60	Light grey	48.8	24.8	20	0.500	6022995

PVC Polyvinylchloride

Cover clip for better and easier laying of lines in the WDK trunking.

Cover clip for 90 mm trunking width

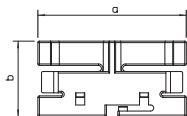


Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2370 90	Light grey	75.7	28.8	20	1.100	6023509

PVC Polyvinylchloride

Cover clip for better and easier laying of lines in the WDK trunking.

Cover clip for 110 mm trunking width

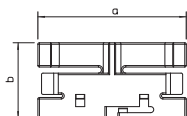


Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2370 110	Light grey	95.7	28.8	20	1.400	6023517

PVC Polyvinylchloride

Cover clip for better and easier laying of lines in the WDK trunking.

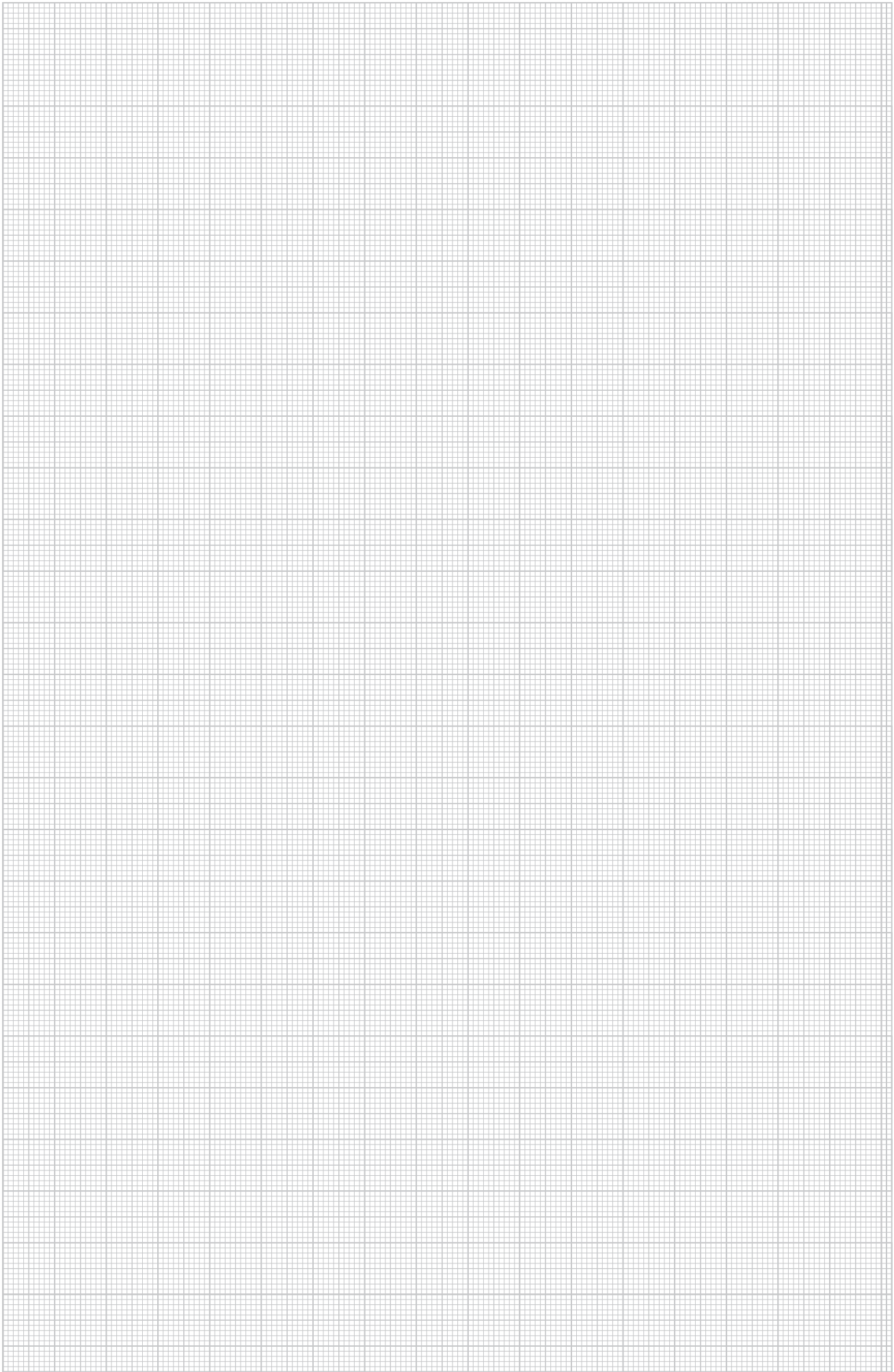
Cover clip for 150 mm trunking width



Type	Colour	Di- men- sion a mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2370 150	Light grey	136.2	36	20	3.000	6023533

PVC Polyvinylchloride

Cover clip for better and easier laying of lines in the WDK trunking.







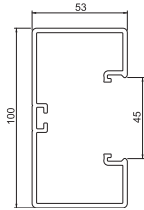
Rapid 45-2 PVC device installation trunking systems

	Device installation trunking, 1-compartment, trunking width 100 mm	42
	Device installation trunking, 2-compartment, trunking width 130 mm	45
	Device installation trunking, 2-compartment, trunking width 165 mm	48



Trunking height 53 mm, trunking width 100 mm

Device installation trunking Rapid 45-2, type GK-53100

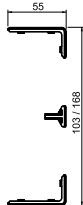


Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-53100RW	Pure white	2000	12	130.300	6113000
GK-53100LGR	Light grey	2000	12	130.300	6113002

PVC Polyvinylchloride

Trunking base and cover with base perforation for direct wall mounting.

Trunking connector and joint cover

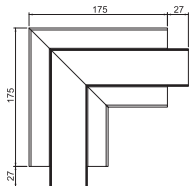


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-KS45-1RW	Pure white	6	0.861	6113020
GK-KS45-1LGR	Light grey	6	0.861	6113022

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Joint cover for the bases of the Rapid 45-2 device installation trunking to hide cut edges and provide a perfect connection of the trunking segments. The joint covers are attached. Suitable for trunking width 100 mm and 165 mm.

Flat angle

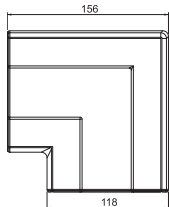


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-FS53100RW	Pure white	1	34.600	6113080
GK-FS53100LGR	Light grey	1	34.600	6113082

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Flat angle for changing the direction of the Rapid 45-2 device installation trunking.

Flat angle cover

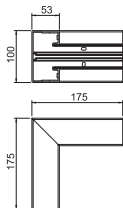


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-FH53100RW	Pure white	2	10.911	6113090
GK-FH53100LGR	Light grey	2	10.911	6113092

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Flat angle as hood fitting for changing the direction of the Rapid 45-2 device installation trunking.

Internal corner

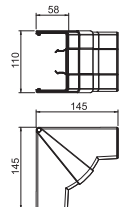


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-IS53100RW	Pure white	1	34.200	6113060
GK-IS53100LGR	Light grey	1	34.200	6113062

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

90° internal corner for changing the direction of the Rapid 45-2 device installation trunking.

Internal corner cover



Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-IH53100RW	Pure white	1	12.856	6113070
GK-IH53100LGR	Light grey	1	12.856	6113072

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

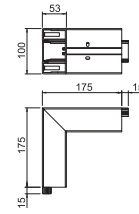
Internal corner for changing the direction of Rapid 45 device installation trunking.

External corner

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-AS53100RW	Pure white	1	40.400	6113040
GK-AS53100LGR	Light grey	1	40.400	6113042

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

90° fixed external corner for changing the direction of Rapid 45-2 device installation trunking.

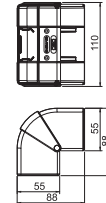


External corner cover

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-AH53100RW	Pure white	1	7.153	6113050
GK-AH53100LGR	Light grey	1	7.153	6113052

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

External corner for changing the direction of Rapid 45-2 device installation trunking. The fittings can be adjusted between 80–110°.

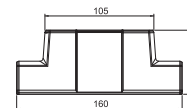


T piece adapter

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-TR53100RW	Pure white	1	3.405	6113100
GK-TR53100LGR	Light grey	1	3.405	6113102

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

T-piece to create a 90° -junction of the system size 53100 on the system size 53100th

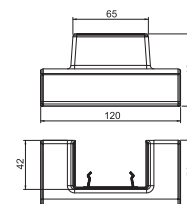


T piece adapter WDK 40060

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-TA WDK 1RW	Pure white	1	3.002	6113310
GK-TA WDK 1LGR	Light grey	1	2.940	6113312

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

T-piece adapter to create a 90° junction from the system size Rapid 45-2 53100 and 53165 on a cable trunking WDK40060.

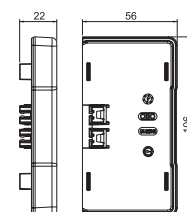


End piece

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-E53100RW	Pure white	1	2.493	6113110
GK-E53100LGR	Light grey	1	2.493	6113112

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

End piece for lateral closing the device installation trunking, Rapid 45-2 GK and GA 53100.

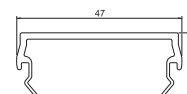


Cover

Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-OT45RW	Pure white	2000	24	20.550	6113010
GK-OT45LGR	Light grey	2000	24	20.550	6113012

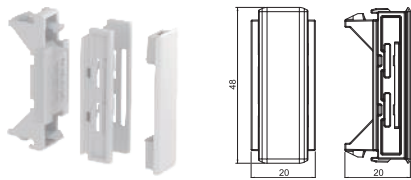
PVC Polyvinylchloride

Trunking cover for closing the Rapid 45-2 device installation trunking.



▶ Trunking height 53 mm, trunking width 100 mm

Joint cover

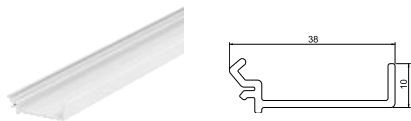


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-OTSA45RW	Pure white	6	0.624	6113030
GK-OTSA45LGR	Light grey	6	0.624	6113032

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Joint cover for the covers of the Rapid 45-2 device installation trunking to hide cut edges and provide a tidy connection to installed Modul 45 devices.

Partition



Type	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-TW53	2000	40	28.700	6113290

PVC Polyvinylchloride

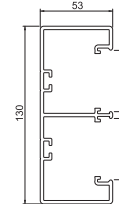
Partition for mounting in Rapid 45-2 GK and GA device installation trunking for installing cables of different voltage levels.

Device installation trunking Rapid 45-2, Type GK-53130

Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-53130RW	Pure white	2000	8	174.000	6113200
GK-53130LGR	Light grey	2000	8	174.000	6113202

PVC Polyvinylchloride

Trunking base and cover with base perforation for direct wall mounting.



Trunking connector and joint cover

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-KS45-2RW	Pure white	6	0.707	6113210
GK-KS45-2LGR	Light grey	6	0.707	6113212

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Joint cover for the bases of the Rapid 45 device installation trunking to hide cut edges and provide a perfect connection of the trunking segments. The joint covers are attached. Suitable for trunking width 130 mm.

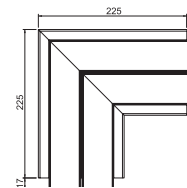


Flat angle

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-FS53130RW	Pure white	1	60.200	6113260
GK-FS53130LGR	Light grey	1	60.200	6113262

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Flat angle for changing the direction of the Rapid 45-2 device installation trunking.

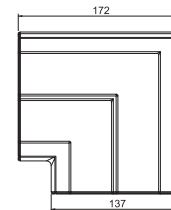


Flat angle cover

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-FH53130RW	Pure white	2	14.754	6113270

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Flat angle as hood fitting for changing the direction of the Rapid 45-2 device installation trunking.

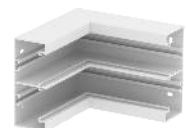
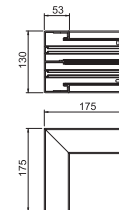


Internal corner

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-IS53130RW	Pure white	1	44.400	6113240
GK-IS53130LGR	Light grey	1	44.400	6113242

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

90° internal corner for changing the direction of the Rapid 45-2 device installation trunking.

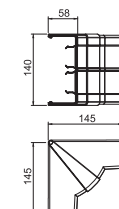


Internal corner cover

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-IH53130RW	Pure white	1	14.730	6113250

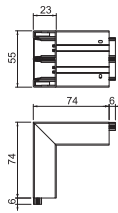
PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Internal corner for changing the direction of Rapid 45 device installation trunking.



Trunking height 53 mm, trunking width 130 mm

External corner

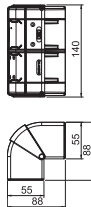


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-AS53130RW	Pure white	1	56.200	6113220
GK-AS53130LGR	Light grey	1	56.200	6113222

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

External corner for changing the direction of Rapid 45-2 device installation trunking.

External corner cover

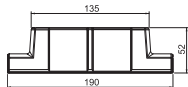


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-AH53130RW	Pure white	1	8.440	6113230

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

External corner for changing the direction of Rapid 45-2 device installation trunking. The fittings can be adjusted between 80–110°.

T piece adapter

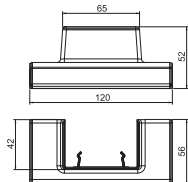


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-TR53130RW	Pure white	1	3.514	6113300

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

T-piece adapter to create a 90° -junction of the system size 53130 on the system size 53130.

T piece adapter on WDK 40060

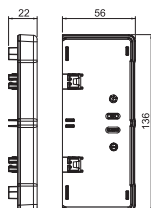


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-TA WDK 2RW	Pure white	1	2.717	6113320

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

T-piece adapter to create a 90° junction from the system size Rapid 45-2 53130 to a cable trunking WDK40060.

End piece

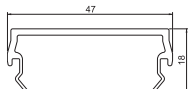


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-E53130RW	Pure white	1	2.972	6113280

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

End piece for side closing of the Rapid 45-2 GK and GA 53130 device installation trunking.

Cover



Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-OT45RW	Pure white	2000	24	20.550	6113010
GK-OT45LGR	Light grey	2000	24	20.550	6113012

PVC Polyvinylchloride

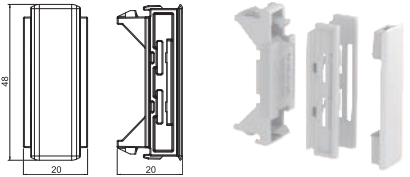
Trunking cover for closing the Rapid 45-2 device installation trunking.

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-OTSA45RW	Pure white	6	0.624	6113030
GK-OTSA45LGR	Light grey	6	0.624	6113032

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Joint cover for the covers of the Rapid 45-2 device installation trunking to hide cut edges and provide a tidy connection to installed Modul 45 devices.

Joint cover

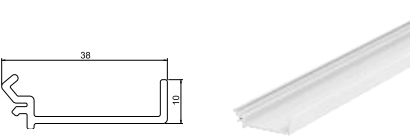


Type	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-TW53	2000	40	28.700	6113290

PVC Polyvinylchloride

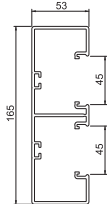
Partition for mounting in Rapid 45-2 GK and GA device installation trunking for installing cables of different voltage levels.

Partition



Trunking height 53 mm, trunking width 165 mm

Device installation trunking Rapid 45-2, Type GK-53165

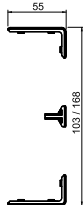


Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-53165RW	Pure white	2000	8	216.250	6113400
GK-53165LGR	Light grey	2000	8	216.250	6113402

PVC Polyvinylchloride

Trunking base and cover with base perforation for direct wall mounting.

Trunking connector and joint cover

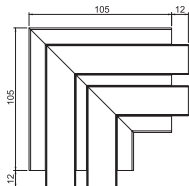


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-KS45-1RW	Pure white	6	0.861	6113020
GK-KS45-1LGR	Light grey	6	0.861	6113022

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Joint cover for the bases of the Rapid 45-2 device installation trunking to hide cut edges and provide a perfect connection of the trunking segments. The joint covers are attached. Suitable for trunking width 100 mm and 165 mm.

Flat angle

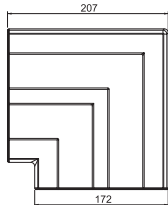


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-FS53165RW	Pure white	1	64.500	6113450
GK-FS53165LGR	Light grey	1	64.500	6113452

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Flat angle for changing the direction of the Rapid 45-2 device installation trunking.

Flat angle cover

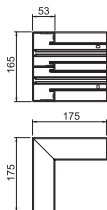


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-FH53165RW	Pure white	2	16.300	6113460
GK-FH53165LGR	Light grey	2	16.300	6113462

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Flat angle as hood fitting for changing the direction of the Rapid 45-2 device installation trunking.

Internal corner

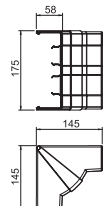


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-IS53165RW	Pure white	1	54.500	6113430
GK-IS53165LGR	Light grey	1	54.500	6113432

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

90° internal corner for changing the direction of the Rapid 45-2 device installation trunking.

Internal corner cover



Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-IH53165RW	Pure white	1	15.634	6113440
GK-IH53165LGR	Light grey	1	15.634	6113442

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

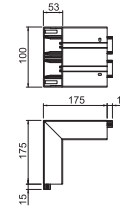
Internal corner for changing the direction of Rapid 45 device installation trunking.

External corner

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-AS53165RW	Pure white	1	66.800	6113410
GK-AS53165LGR	Light grey	1	66.800	6113412

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

External corner for changing the direction of Rapid 45-2 device installation trunking.



External corner cover

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-AH53165RW	Pure white	1	9.230	6113420
GK-AH53165LGR	Light grey	1	9.230	6113422

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

External corner for changing the direction of Rapid 45-2 device installation trunking. The fittings can be adjusted between 80–110°.

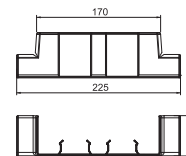


T piece adapter

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-TR53165RW	Pure white	1	4.545	6113480
GK-TR53165LGR	Light grey	1	4.515	6113482

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

T-piece adapter to create a 90° -junction of the system size 53165 on the system size 53165.

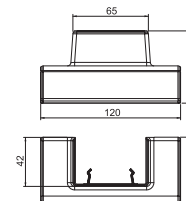


T piece adapter WDK 40060

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-TA WDK 1RW	Pure white	1	3.002	6113310
GK-TA WDK 1LGR	Light grey	1	2.940	6113312

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

T-piece adapter to create a 90° junction from the system size Rapid 45-2 53100 and 53165 on a cable trunking WDK40060.

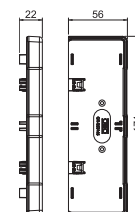


End piece

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-E53165RW	Pure white	1	3.561	6113470
GK-E53165LGR	Light grey	1	3.561	6113472

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

End piece for side closing of the Rapid 45-2 GK and GA 53165 device installation trunking.

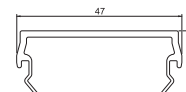


Cover

Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-OT45RW	Pure white	2000	24	20.550	6113010
GK-OT45LGR	Light grey	2000	24	20.550	6113012

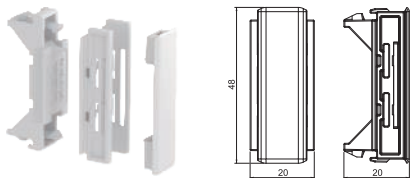
PVC Polyvinylchloride

Trunking cover for closing the Rapid 45-2 device installation trunking.



▶ Trunking height 53 mm, trunking width 165 mm

Joint cover

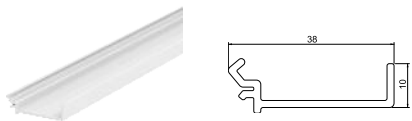


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-OTSA45RW	Pure white	6	0.624	6113030
GK-OTSA45LGR	Light grey	6	0.624	6113032

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Joint cover for the covers of the Rapid 45-2 device installation trunking to hide cut edges and provide a tidy connection to installed Modul 45 devices.

Partition



Type	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-TW53	2000	40	28.700	6113290

PVC Polyvinylchloride

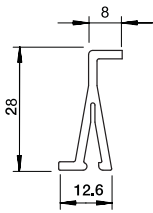
Partition for mounting in Rapid 45-2 GK and GA device installation trunking for installing cables of different voltage levels.

Partition for trunking height 40 mm

Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
2371 40	Light grey	2000	60	13.500	6023096

PVC Polyvinylchloride

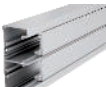
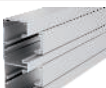
Partition to divide the WDK trunking, with 40 mm trunking height, and various ISS service poles for the installation of different voltage levels.







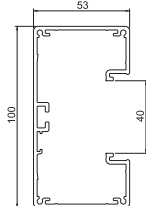
Rapid 45-2 aluminium device installation trunking systems

	Device installation trunking, 1-compartment, trunking width 100 mm	54
	Device installation trunking, 2-compartment, trunking width 130 mm	57
	Device installation trunking, 2-compartment, trunking width 165 mm	60



Trunking height 53 mm, trunking width 100 mm

Device installation trunking Rapid 45-2, Type GA-53100



Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
GA-53100EL	—	2000	8	223.800	6112403
GA-53100RW	Pure white	2000	8	223.800	6112400

Alu Aluminium

EL Anodised

Aluminium complete device installation trunking, consisting of a base and cover. The base has no floor perforation.

Trunking connector and joint cover

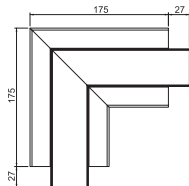


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-KS45-1AL	Aluminium	1	0.580	6113024
GK-KS45-1RW	Pure white	6	0.861	6113020

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Joint cover for the bases of the Rapid 45-2 device installation trunking to hide cut edges and provide a perfect connection of the trunking segments. The joint covers are attached. Suitable for trunking width 100 mm and 165 mm.

Flat angle



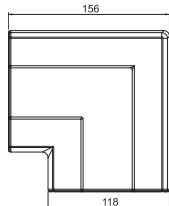
Type	Colour	Surface finish	Pack. pcs	Weight kg/100 pcs.	Item No.
GA-FS53100EL	—	Anodised	1	69.200	6112443
GA-FS53100RW	Pure white	—	1	69.200	6112440

Alu Aluminium

EL Anodised

90° aluminium flat angle for direction change of Rapid 45-2 GA... device installation trunking.

Flat angle cover

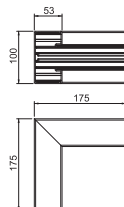


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-FH53100AL	Aluminium	2	9.800	6113094
GK-FH53100RW	Pure white	2	10.911	6113090

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Flat angle as hood fitting for changing the direction of the Rapid 45-2 device installation trunking.

Internal corner



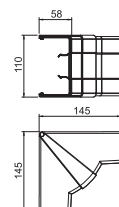
Type	Colour	Surface finish	Pack. pcs	Weight kg/100 pcs.	Item No.
GA-IS53100EL	—	Anodised	1	69.200	6112433
GA-IS53100RW	Pure white	—	1	69.200	6112430

Alu Aluminium

EL Anodised

Corner 90° aluminium for changing the direction of device installation trunking Rapid 45-2 GA...

Internal corner cover



Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-IH53100AL	Aluminium	1	12.000	6113074
GK-IH53100RW	Pure white	1	12.856	6113070

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Internal corner for changing the direction of Rapid 45 device installation trunking.

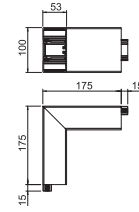
External corner

Type	Colour	Surface finish	Pack. pcs	Weight kg/100 pcs.	Item No.
GA-AS53100EL	—	Anodised	1	84.100	6112423
GA-AS53100RW	Pure white	—	1	84.100	6112420

Alu Aluminium

EL Anodised

Outside corner 90° aluminium for changing the direction of device installation trunking Rapid 45-2 GA...

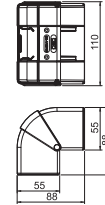


External corner cover

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-AH53100AL	Aluminium	1	6.900	6113054
GK-AH53100RW	Pure white	1	7.153	6113050

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

External corner for changing the direction of Rapid 45-2 device installation trunking. The fittings can be adjusted between 80–110°.

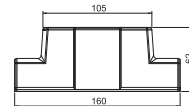


T piece adapter

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-TR53100AL	Aluminium	1	3.405	6113104
GK-TR53100RW	Pure white	1	3.405	6113100

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

T-piece to create a 90° -junction of the system size 53100 on the system size 53100th

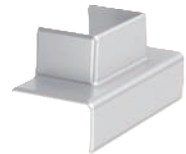
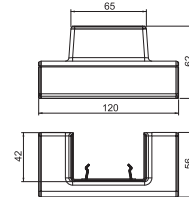


T piece adapter WDK 40060

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-TA WDK 1AL	Aluminium	1	3.002	6113314
GK-TA WDK 1RW	Pure white	1	3.002	6113310

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

T-piece adapter to create a 90° junction from the system size Rapid 45-2 53100 and 53165 on a cable trunking WDK40060.

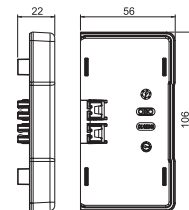


End piece

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-E53100AL	Aluminium	1	2.200	6113114
GK-E53100RW	Pure white	1	2.493	6113110

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

End piece for lateral closing the device installation trunking, Rapid 45-2 GK and GA 53100.



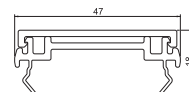
Cover

Type	Colour	Surface finish	Length mm	Pack. m	Weight kg/100 m	Item No.
GA-OT45EL	—	Anodised	2000	20	47.450	6112413
GA-OT45RW	Pure white	—	2000	20	47.450	6112410

Alu Aluminium

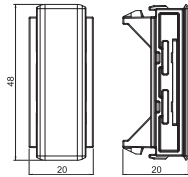
EL Anodised

Cover for closing the device installation trunking of the series Rapid 45-2 GA The 2-piece shell is made of a PVC-base profile and an aluminium screening profile.



Trunking height 53 mm, trunking width 100 mm

Joint cover

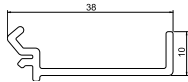


Type	Colour	Pack.		Weight	Item No.
		pcs	kg/100 pcs.		
GK-OTSA45AL	Aluminium	1	0.550		6113034
GK-OTSA45RW	Pure white	6	0.624		6113030

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Joint cover for the covers of the Rapid 45-2 device installation trunking to hide cut edges and provide a tidy connection to installed Modul 45 devices.

Partition

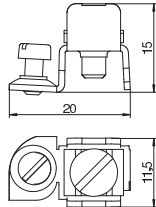


Type	Length mm	Pack.		Weight	Item No.
		m	kg/100 m		
GK-TW53	2000	40	28.700		6113290

PVC Polyvinylchloride

Partition for mounting in Rapid 45-2 GK and GA device installation trunking for installing cables of different voltage levels.

Protective conductor connection bracket



Type	Surface finish	Pack.		Weight	Item No.
		pcs	kg/100 pcs.		
8AWR	Electrogalvanised	10	0.610		6288704

St Steel

G Electrogalvanised

Protective conductor connection bracket to include steel and aluminium device installation trunking, service poles and system components of underfloor trunking systems in the protective measure.

Clamping area: 2 x 1.5 – 4 mm²

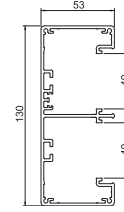
Device installation trunking Rapid 45-2, Type GA-53130

Type	Colour	Surface finish	Length mm	Pack. m	Weight kg/100 m	Item No.
GA-53130EL	—	Anodised	2000	8	326.500	6112503
GA-53130RW	Pure white	—	2000	8	326.500	6112500

Alu Aluminium

EL Anodised

Aluminium complete device installation trunking, consisting of a base and cover. The base has no floor perforation.



Trunking connector and joint cover

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-KS45-2AL	Aluminium	1	0.450	6113214
GK-KS45-1RW	Pure white	6	0.861	6113020

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Joint cover for the bases of the Rapid 45 device installation trunking to hide cut edges and provide a perfect connection of the trunking segments. The joint covers are attached. Suitable for trunking width 130 mm.



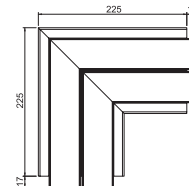
Flat angle

Type	Colour	Surface finish	Pack. pcs	Weight kg/100 pcs.	Item No.
GA-FS53130EL	—	Anodised	1	119.900	6112533
GA-FS53130RW	Pure white	—	1	119.900	6112530

Alu Aluminium

EL Anodised

90° aluminium flat angle for direction change of Rapid 45-2 GA... device installation trunking.

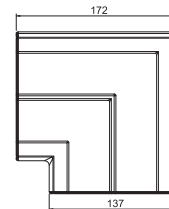


Flat angle cover

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-FH53130AL	Aluminium	2	12.700	6113274
GK-FH53130RW	Pure white	2	14.754	6113270

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Flat angle as hood fitting for changing the direction of the Rapid 45-2 device installation trunking.



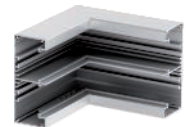
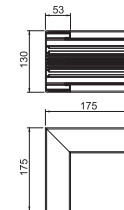
Internal corner

Type	Colour	Surface finish	Pack. pcs	Weight kg/100 pcs.	Item No.
GA-IS53130EL	—	Anodised	1	89.200	6112523
GA-IS53130RW	Pure white	—	1	89.200	6112520

Alu Aluminium

EL Anodised

Corner 90° aluminium for changing the direction of device installation trunking Rapid 45-2 GA...

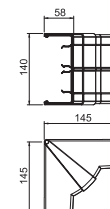


Internal corner cover

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-IH53130AL	Aluminium	1	13.170	6113254
GK-IH53130RW	Pure white	1	14.730	6113250

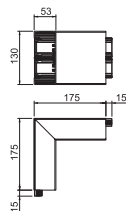
PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Internal corner for changing the direction of Rapid 45 device installation trunking.



Trunking height 53 mm, trunking width 130 mm

External corner



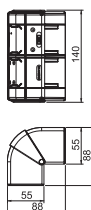
Type	Colour	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GA-AS53130EL	—	2000	1	117.700	6112513
GA-AS53130RW	Pure white	2000	1	117.700	6112510

Alu Aluminium

EL Anodised

Outside corner 90° aluminium for changing the direction of device installation trunking Rapid 45-2 GA...

External corner cover

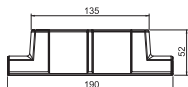


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-AH53130AL	Aluminium	1	8.000	6113234
GK-AH53130RW	Pure white	1	8.440	6113230

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

External corner for changing the direction of Rapid 45-2 device installation trunking. The fittings can be adjusted between 80–110°.

T piece adapter

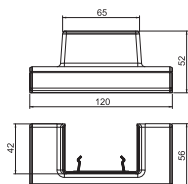
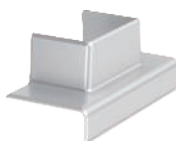


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-TR53130AL	Aluminium	1	3.514	6113304
GK-TR53130RW	Pure white	1	3.514	6113300

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

T-piece adapter to create a 90° -junction of the system size 53130 on the system size 53130.

T piece adapter on WDK 40060

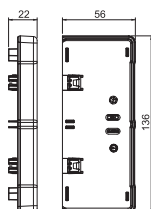


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-TA WDK 2AL	Aluminium	1	2.200	6113324
GK-TA WDK 2RW	Pure white	1	2.717	6113320

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

T-piece adapter to create a 90° junction from the system size Rapid 45-2 53130 to a cable trunking WDK40060.

End piece

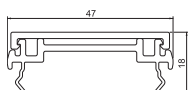


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-E53130AL	Aluminium	1	2.700	6113284
GK-E53130RW	Pure white	1	2.972	6113280

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

End piece for side closing of the Rapid 45-2 GK and GA 53130 device installation trunking.

Cover



Type	Colour	Surface finish	Length mm	Pack. m	Weight kg/100 m	Item No.
GA-OT45EL	—	Anodised	2000	20	47.450	6112413
GA-OT45RW	Pure white	—	2000	20	47.450	6112410

Alu Aluminium

EL Anodised

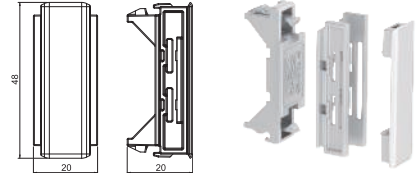
Cover for closing the device installation trunking of the series Rapid 45-2 GA The 2-piece shell is made of a PVC-base profile and an aluminium screening profile.

Joint cover

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-OTSA45AL	Aluminium	1	0.550	6113034
GK-OTSA45RW	Pure white	6	0.624	6113030

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Joint cover for the covers of the Rapid 45-2 device installation trunking to hide cut edges and provide a tidy connection to installed Modul 45 devices.

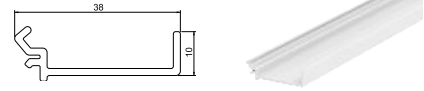


Partition

Type	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-TW53	2000	40	28.700	6113290

PVC Polyvinylchloride

Partition for mounting in Rapid 45-2 GK and GA device installation trunking for installing cables of different voltage levels.



Protective conductor connection bracket

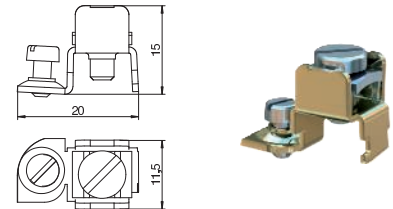
Type	Surface finish	Pack. pcs	Weight kg/100 pcs.	Item No.
8AWR	Electrogalvanised	10	0.610	6288704

St Steel

G Electrogalvanised

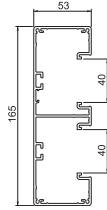
Protective conductor connection bracket to include steel and aluminium device installation trunking, service poles and system components of underfloor trunking systems in the protective measure.

Clamping area: 2 x 1.5 – 4 mm²



Trunking height 53 mm, trunking width 165 mm

Device installation trunking Rapid 45-2, Type GA-53165



Type	Colour	Surface finish	Length mm	Pack. m	Weight kg/100 m	Item No.
GA-53165EL	—	Anodised	2000	6	370.750	6112603
GA-53165RW	Pure white	—	2000	6	370.750	6112600

Alu Aluminium

EL Anodised

Aluminium complete device installation trunking, consisting of a base and cover. The base has no floor perforation.

Trunking connector and joint cover

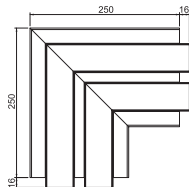


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-KS45-1AL	Aluminium	1	0.580	6113024
GK-KS45-1RW	Pure white	6	0.861	6113020

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Joint cover for the bases of the Rapid 45-2 device installation trunking to hide cut edges and provide a perfect connection of the trunking segments. The joint covers are attached. Suitable for trunking width 100 mm and 165 mm.

Flat angle



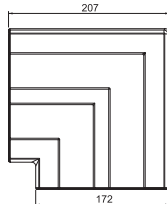
Type	Colour	Surface finish	Pack. pcs	Weight kg/100 pcs.	Item No.
GA-FS53165EL	—	Anodised	1	121.900	6112633
GA-FS53165RW	Pure white	—	1	121.900	6112630

Alu Aluminium

EL Anodised

90° aluminium flat angle for direction change of Rapid 45-2 GA... device installation trunking.

Flat angle cover

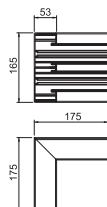
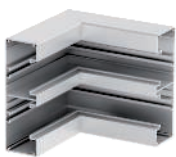


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-FH53165AL	Aluminium	2	16.300	6113464
GK-FH53165RW	Pure white	2	16.300	6113460

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Flat angle as hood fitting for changing the direction of the Rapid 45-2 device installation trunking.

Internal corner



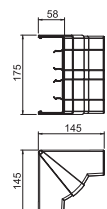
Type	Colour	Surface finish	Pack. pcs	Weight kg/100 pcs.	Item No.
GA-IS53165EL	—	Anodised	1	100.100	6112623
GA-IS53165RW	Pure white	—	1	100.100	6112620

Alu Aluminium

EL Anodised

Corner 90° aluminium for changing the direction of device installation trunking Rapid 45-2 GA...

Internal corner cover



Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-IH53165AL	Aluminium	1	14.660	6113444
GK-IH53165RW	Pure white	1	15.634	6113440

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Internal corner for changing the direction of Rapid 45 device installation trunking.

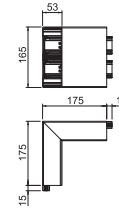
External corner

Type	Colour	Surface finish	Pack. pcs	Weight kg/100 pcs.	Item No.
GA-AS53165EL	—	Anodised	1	114.200	6112613
GA-AS53165RW	Pure white	—	1	114.200	6112610

Alu Aluminium

EL Anodised

Outside corner 90° aluminium for changing the direction of device installation trunking Rapid 45-2 GA...



External corner cover

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-AH53165AL	Aluminium	1	9.230	6113424
GK-AH53165RW	Pure white	1	9.230	6113420

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

External corner for changing the direction of Rapid 45-2 device installation trunking. The fittings can be adjusted between 80–110°.

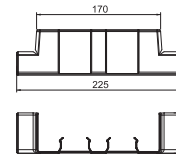


T piece adapter

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-TR53165AL	Aluminium	1	4.040	6113484
GK-TR53165RW	Pure white	1	4.545	6113480

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

T-piece adapter to create a 90° -junction of the system size 53165 on the system size 53165.

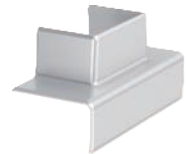
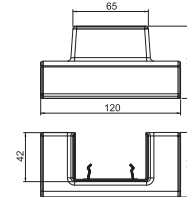


T piece adapter WDK 40060

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-TA WDK 1AL	Aluminium	1	3.002	6113314
GK-TA WDK 1RW	Pure white	1	3.002	6113310

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

T-piece adapter to create a 90° junction from the system size Rapid 45-2 53100 and 53165 on a cable trunking WDK40060.

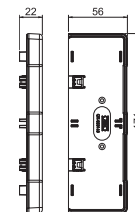


End piece

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-E53165AL	Aluminium	1	3.240	6113474
GK-E53165RW	Pure white	1	3.561	6113470

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

End piece for side closing of the Rapid 45-2 GK and GA 53165 device installation trunking.



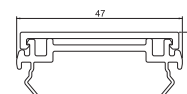
Cover

Type	Colour	Surface finish	Length mm	Pack. m	Weight kg/100 m	Item No.
GA-OT45EL	—	Anodised	2000	20	47.450	6112413
GA-OT45RW	Pure white	—	2000	20	47.450	6112410

Alu Aluminium

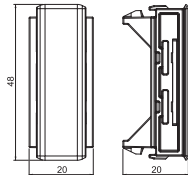
EL Anodised

Cover for closing the device installation trunking of the series Rapid 45-2 GA The 2-piece shell is made of a PVC-base profile and an aluminium screening profile.



Trunking height 53 mm, trunking width 165 mm

Joint cover

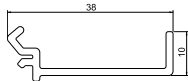


Type	Colour	Pack.		Weight	Item No.
		pcs	kg/100 pcs.		
GK-OTSA45AL	Aluminium	1	0.550		6113034
GK-OTSA45RW	Pure white	6	0.624		6113030

PC/ABS Polycarbonate/Acrylnitrile-butadiene-styrene

Joint cover for the covers of the Rapid 45-2 device installation trunking to hide cut edges and provide a tidy connection to installed Modul 45 devices.

Partition

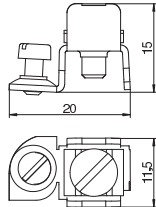


Type	Length mm	Pack.		Weight	Item No.
		m	kg/100 m		
GK-TW53	2000	40	28.700		6113290

PVC Polyvinylchloride

Partition for mounting in Rapid 45-2 GK and GA device installation trunking for installing cables of different voltage levels.

Protective conductor connection bracket



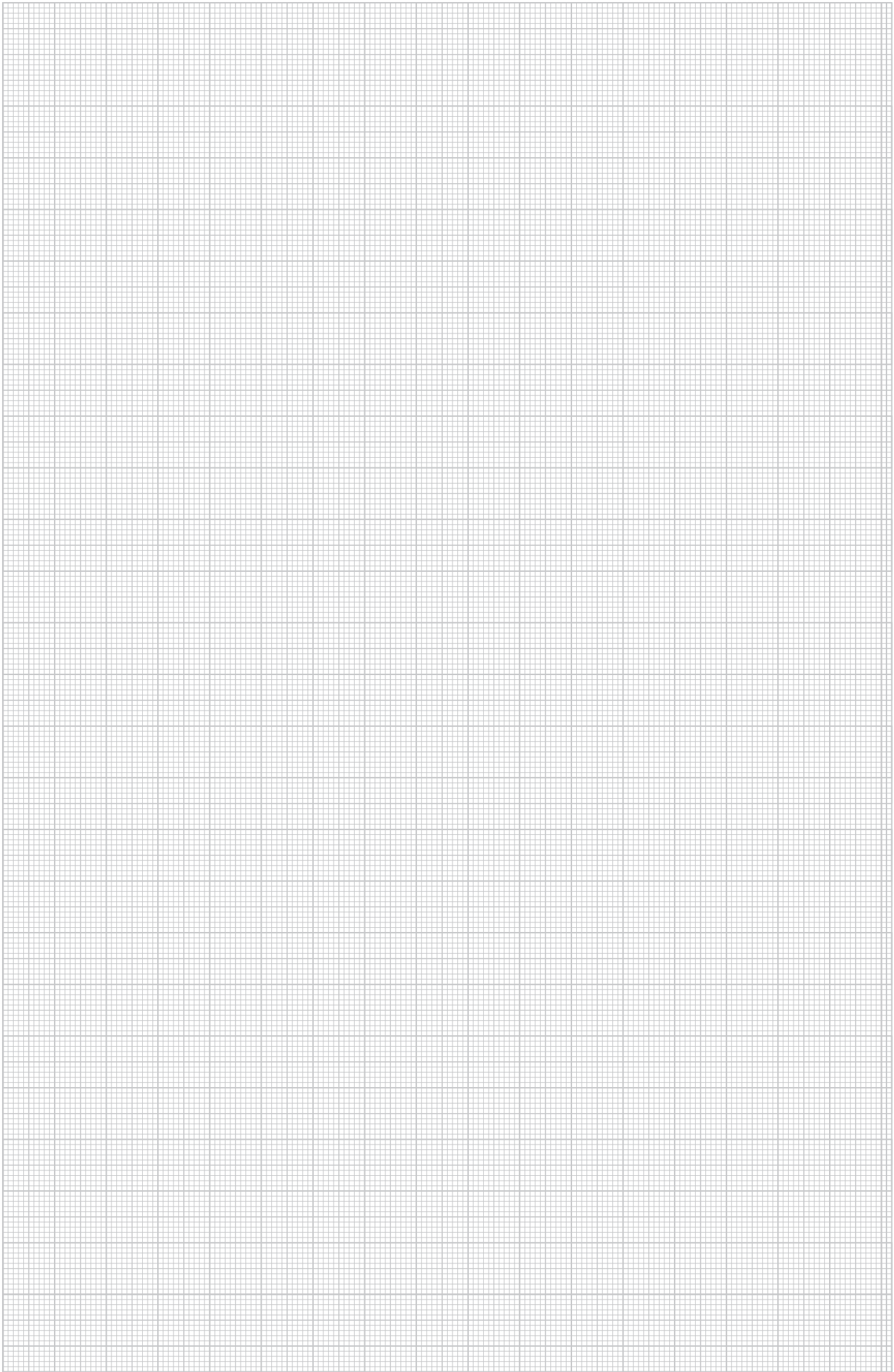
Type	Surface finish	Pack.		Weight	Item No.
		pcs	kg/100 pcs.		
8AWR	Electrogalvanised	10	0.610		6288704

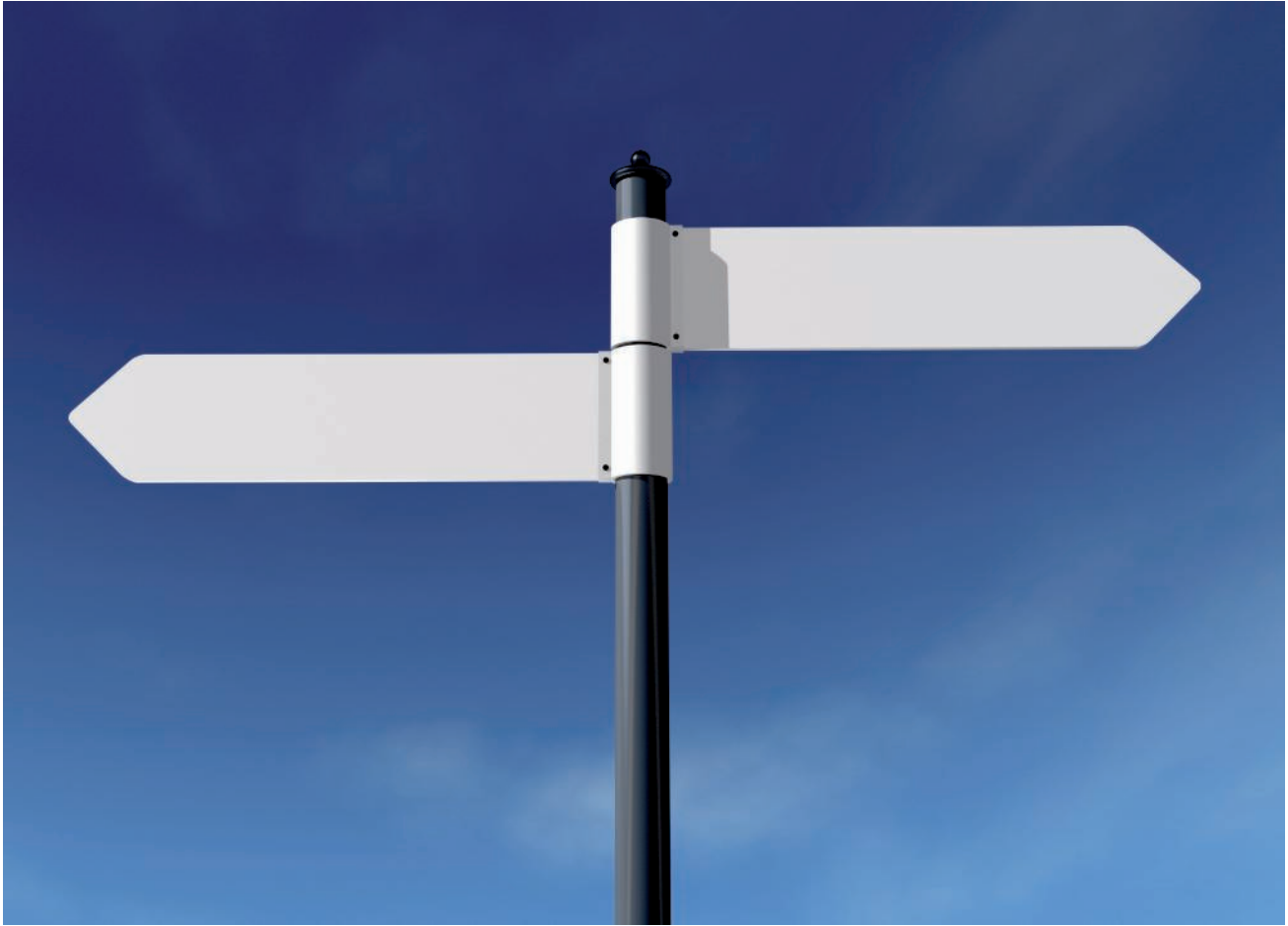
St Steel

G Electrogalvanised

Protective conductor connection bracket to include steel and aluminium device installation trunking, service poles and system components of underfloor trunking systems in the protective measure.

Clamping area: 2 x 1.5 – 4 mm²





Directories

	Numeric directory	66
	Type listing	67



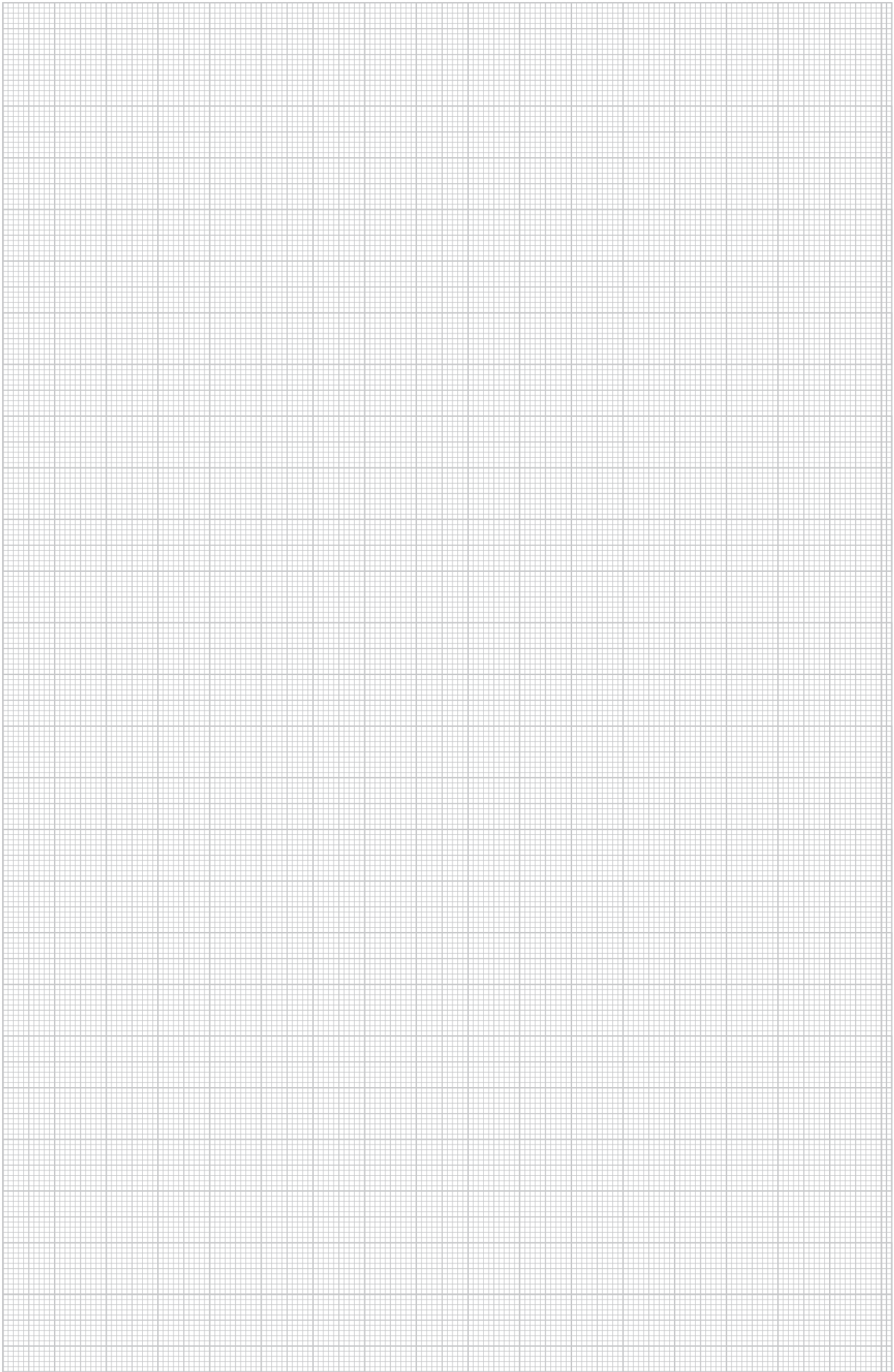
GTIN	Art. no.	Page	GTIN	Art. no.	Page	GTIN	Art. no.	Page
6019816	6021840	34	6419371	6113112	43	6109937	6162819	33
6637577	6021883	36	6418206	6113114	55	6109999	6162827	35
6020119	6021913	32		/m		6637997	6162878	37
6020171	6021948	30	6419388	6113200	45			
			6419395	6113202	45	5461838	6193590	32
	/100 pc.			/pc.		5462217	6193592	32
6023776	6022995	38	6419418	6113210	45	5462224	6193598	34
	/m		6419432	6113212	45			
6024315	6023096	51	6418268	6113214	57	5149101	6288704	56
6024377	6023118	38	6419456	6113220	46			
	/100 pc.		6419463	6113222	46			
6026111	6023509	38	6419470	6113230	46			
6026173	6023517	38	6418305	6113234	58			
6637874	6023533	38	6419517	6113240	45			
	/m		6419531	6113242	45			
6028870	6025412	29	6419555	6113250	45			
			6418312	6113254	57			
6642854	6026370	28	6419586	6113260	45			
			6419609	6113262	45			
6417902	6112400	54	6419616	6113270	45			
6417919	6112403	54	6418374	6113274	57			
6417926	6112410	55	6419647	6113280	46			
6417933	6112413	55	6418381	6113284	58			
	/pc.			/m				
6417964	6112420	55	6419685	6113290	44			
6417971	6112423	55		/pc.				
6417995	6112430	54	6419814	6113300	46			
6418008	6112433	54	6418411	6113304	58			
6418022	6112440	54	6419845	6113310	43			
6418039	6112443	54	6419869	6113312	43			
	/m		6418398	6113314	55			
6418213	6112500	57	6419876	6113320	46			
6418251	6112503	57	6418428	6113324	58			
	/pc.			/m				
6418275	6112510	58	6419913	6113400	48			
6418299	6112513	58	6419920	6113402	48			
6418329	6112520	57		/pc.				
6418336	6112523	57	6419937	6113410	49			
6418350	6112530	57	6419944	6113412	49			
6418367	6112533	57	6419975	6113420	49			
	/m		6419982	6113422	49			
6418503	6112600	60	6418565	6113424	61			
6418534	6112603	60	6419999	6113430	48			
	/pc.		6420001	6113432	48			
6418558	6112610	61	6420032	6113440	48			
6418541	6112613	61	6420049	6113442	48			
6418572	6112620	60	6418602	6113444	60			
6418596	6112623	60	6420056	6113450	48			
6418619	6112630	60	6420063	6113452	48			
6418626	6112633	60	6420094	6113460	48			
	/m		6420100	6113462	48			
6419036	6113000	42	6418633	6113464	60			
6419074	6113002	42	6420117	6113470	49			
6419081	6113010	43	6420124	6113472	49			
6419104	6113012	43	6418657	6113474	61			
	/pc.		6420155	6113480	49			
6419111	6113020	42	6420162	6113482	49			
6419142	6113022	42	6418664	6113484	61			
6417940	6113024	54						
6419159	6113030	44	6584598	6160093	29			
6419166	6113032	44	6106271	6160301	30			
6417957	6113034	56	6106332	6160328	32			
6419173	6113040	43	6106394	6160336	34			
6419197	6113042	43	6638178	6160379	36			
6419203	6113050	43	6580279	6160697	29			
6419210	6113052	43	6107179	6160905	30			
6417988	6113054	55	6107230	6160913	32			
6419227	6113060	42	6107292	6160921	34			
6419234	6113062	42	6638352	6160972	36			
6419258	6113070	42						
6419265	6113072	42	6583157	6161294	29			
6418015	6113074	54	6108077	6161502	30			
6419272	6113080	42	6108138	6161510	33			
6419289	6113082	42	6108190	6161529	35			
6419296	6113090	42	6638536	6161561	36			
6419319	6113092	42	6581719	6161995	29			
6418046	6113094	54						
6419333	6113100	43	6108978	6162207	30			
6419340	6113102	43	6109036	6162215	32			
6418176	6113104	55	6109098	6162223	34			
6419357	6113110	43	6638710	6162274	36			
			6643219	6162487	28			
			6583331	6162592	29			
			6109876	6162800	31			



Type	GTIN	Art. no.	Page	Type	GTIN	Art. no.	Page
2370 110	6026173	/100 pc. 6023517	38	GK-E53130RW	6419647	/pc. 6113280	58
2370 150	6637874	6023533	38	GK-E53165AL	6418657	6113474	61
2370 60	6023776	6022995	38	GK-E53165LGR	6420124	6113472	49
2370 90	6026111	6023509	38	GK-E53165RW	6420117	6113470	49
		/m		GK-E53165RW	6420117	6113470	61
2371 40	6024315	6023096	51	GK-FH53100AL	6418046	6113094	54
2371 60	6024377	6023118	38	GK-FH53100LGR	6419319	6113092	42
		/pc.		GK-FH53100RW	6419296	6113090	42
8AWR	5149101	6288704	56	GK-FH53100RW	6419296	6113090	54
8AWR	5149101	6288704	59	GK-FH53130AL	6418374	6113274	57
8AWR	5149101	6288704	62	GK-FH53130RW	6419616	6113270	45
		/m		GK-FH53130RW	6419616	6113270	57
GA-53100EL	6417919	6112403	54	GK-FH53165AL	6418633	6113464	60
GA-53100RW	6417902	6112400	54	GK-FH53165LGR	6420100	6113462	48
GA-53130EL	6418251	6112503	57	GK-FH53165RW	6420094	6113460	48
GA-53130RW	6418213	6112500	57	GK-FH53165RW	6420094	6113460	60
GA-53165EL	6418534	6112603	60	GK-FS53100LGR	6419289	6113082	42
GA-53165RW	6418503	6112600	60	GK-FS53100RW	6419272	6113080	42
		/pc.		GK-FS53130LGR	6419609	6113262	45
GA-AS53100EL	6417971	6112423	55	GK-FS53130RW	6419586	6113260	45
GA-AS53100RW	6417964	6112420	55	GK-FS53165LGR	6420063	6113452	48
GA-AS53130EL	6418299	6112513	58	GK-FS53165RW	6420056	6113450	48
GA-AS53130RW	6418275	6112510	58	GK-IH53100AL	6418015	6113074	54
GA-AS53165EL	6418541	6112613	61	GK-IH53100LGR	6419265	6113072	42
GA-AS53165RW	6418558	6112610	61	GK-IH53100RW	6419258	6113070	42
		/m		GK-IH53100RW	6419258	6113070	54
GA-FS53100EL	6418039	6112443	54	GK-IH53130AL	6418312	6113254	57
GA-FS53100RW	6418022	6112440	54	GK-IH53130RW	6419555	6113250	45
GA-FS53130EL	6418367	6112533	57	GK-IH53130RW	6419555	6113250	57
GA-FS53130RW	6418350	6112530	57	GK-IH53165AL	6418602	6113444	60
GA-FS53165EL	6418626	6112633	60	GK-IH53165LGR	6420049	6113442	48
GA-FS53165RW	6418619	6112630	60	GK-IH53165RW	6420032	6113440	48
		/m		GK-IH53165RW	6420032	6113440	60
GA-IS53100EL	6418008	6112433	54	GK-IS53100LGR	6419234	6113062	42
GA-IS53100RW	6417995	6112430	54	GK-IS53100RW	6419227	6113060	42
GA-IS53130EL	6418336	6112523	57	GK-IS53130LGR	6419531	6113242	45
GA-IS53130RW	6418329	6112520	57	GK-IS53130RW	6419517	6113240	45
GA-IS53165EL	6418596	6112623	60	GK-IS53165LGR	6420001	6113432	48
GA-IS53165RW	6418572	6112620	60	GK-IS53165RW	6419999	6113430	48
		/m		GK-KS45-1AL	6417940	6113024	54
GA-OT45EL	6417933	6112413	55	GK-KS45-1AL	6417940	6113024	60
GA-OT45EL	6417933	6112413	58	GK-KS45-1LGR	6419142	6113022	42
GA-OT45EL	6417933	6112413	61	GK-KS45-1LGR	6419142	6113022	48
GA-OT45RW	6417926	6112410	55	GK-KS45-1RW	6419111	6113020	42
GA-OT45RW	6417926	6112410	58	GK-KS45-1RW	6419111	6113020	48
GA-OT45RW	6417926	6112410	61	GK-KS45-1RW	6419111	6113020	54
		/m		GK-KS45-1RW	6419111	6113020	57
GK-53100LGR	6419074	6113002	42	GK-KS45-1RW	6419111	6113020	60
GK-53100RW	6419036	6113000	42	GK-KS45-2AL	6418268	6113214	57
GK-53130LGR	6419395	6113202	45	GK-KS45-2LGR	6419432	6113212	45
GK-53130RW	6419388	6113200	45	GK-KS45-2RW	6419418	6113210	45
GK-53165LGR	6419920	6113402	48			/m	
GK-53165RW	6419913	6113400	48	GK-OT45LGR	6419104	6113012	43
		/pc.		GK-OT45LGR	6419104	6113012	46
GK-AH53100AL	6417988	6113054	55	GK-OT45LGR	6419104	6113012	49
GK-AH53100LGR	6419210	6113052	43	GK-OT45RW	6419081	6113010	43
GK-AH53100RW	6419203	6113050	43	GK-OT45RW	6419081	6113010	46
GK-AH53100RW	6419203	6113050	55	GK-OT45RW	6419081	6113010	49
GK-AH53130AL	6418305	6113234	58			/pc.	
GK-AH53130RW	6419470	6113230	46	GK-OTSA45AL	6417957	6113034	56
GK-AH53130RW	6419470	6113230	58	GK-OTSA45AL	6417957	6113034	59
GK-AH53165AL	6418565	6113424	61	GK-OTSA45AL	6417957	6113034	62
GK-AH53165LGR	6419982	6113422	49	GK-OTSA45LGR	6419166	6113032	44
GK-AH53165RW	6419975	6113420	49	GK-OTSA45LGR	6419166	6113032	47
GK-AH53165RW	6419975	6113420	61	GK-OTSA45LGR	6419166	6113032	50
GK-AS53100LGR	6419197	6113042	43	GK-OTSA45RW	6419159	6113030	44
GK-AS53100RW	6419173	6113040	43	GK-OTSA45RW	6419159	6113030	47
GK-AS53130LGR	6419463	6113222	46	GK-OTSA45RW	6419159	6113030	50
GK-AS53130RW	6419456	6113220	46	GK-OTSA45RW	6419159	6113030	56
GK-AS53165LGR	6419944	6113412	49	GK-OTSA45RW	6419159	6113030	59
GK-AS53165RW	6419937	6113410	49	GK-OTSA45RW	6419159	6113030	62
		/m		GK-TA WDK 1AL	6418398	6113314	55
GK-E53100AL	6418206	6113114	55	GK-TA WDK 1AL	6418398	6113314	61
GK-E53100LGR	6419371	6113112	43	GK-TA WDK 1LGR	6419869	6113312	43
GK-E53100RW	6419357	6113110	43	GK-TA WDK 1LGR	6419869	6113312	49
GK-E53100RW	6419357	6113110	55	GK-TA WDK 1RW	6419845	6113310	43
GK-E53130AL	6418381	6113284	58	GK-TA WDK 1RW	6419845	6113310	49
GK-E53130RW	6419647	6113280	46	GK-TA WDK 1RW	6419845	6113310	55
		/m		GK-TA WDK 1RW	6419845	6113310	61



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		/pc.	
GK-TA WDK 2AL	6418428	6113324	58
GK-TA WDK 2RW	6419876	6113320	46
GK-TA WDK 2RW	6419876	6113320	58
GK-TR53100AL	6418176	6113104	55
GK-TR53100LGR	6419340	6113102	43
GK-TR53100RW	6419333	6113100	43
GK-TR53100RW	6419333	6113100	55
GK-TR53130AL	6418411	6113304	58
GK-TR53130RW	6419814	6113300	46
GK-TR53130RW	6419814	6113300	58
GK-TR53165AL	6418664	6113484	61
GK-TR53165LGR	6420162	6113482	49
GK-TR53165RW	6420155	6113480	49
GK-TR53165RW	6420155	6113480	61
		/m	
GK-TW53	6419685	6113290	44
GK-TW53	6419685	6113290	47
GK-TW53	6419685	6113290	50
GK-TW53	6419685	6113290	56
GK-TW53	6419685	6113290	59
GK-TW53	6419685	6113290	62
		/pc.	
WDK HA40040CW	6580279	6160697	29
WDK HA60060CW	6107179	6160905	30
WDK HA60090CW	6107230	6160913	32
WDK HA60110CW	6107292	6160921	34
WDK HA60150CW	6638352	6160972	36
WDK HE20035CW	6643219	6162487	28
WDK HE40040CW	6583331	6162592	29
WDK HE60060CW	6109876	6162800	31
WDK HE60090CW	6109937	6162819	33
WDK HE60110CW	6109999	6162827	35
WDK HE60150CW	6637997	6162878	37
WDK HF40040CW	6583157	6161294	29
WDK HF60060CW	6108077	6161502	30
WDK HF60090CW	6108138	6161510	33
WDK HF60110CW	6108190	6161529	35
WDK HF60150CW	6638536	6161561	36
WDK HI40040CW	6584598	6160093	29
WDK HI60060CW	6106271	6160301	30
WDK HI60090CW	6106332	6160328	32
WDK HI60110CW	6106394	6160336	34
WDK HI60150CW	6638178	6160379	36
WDK HK60060CW	6108978	6162207	30
WDK HK60090CW	6109036	6162215	32
WDK HK60110CW	6109098	6162223	34
WDK HK60150CW	6638710	6162274	36
WDK HS60090CW	5462217	6193592	32
WDK HS60090RW	5461838	6193590	32
WDK HS60110CW	5462224	6193598	34
WDK HT40040CW	6581719	6161995	29
		/m	
WDK20035CW	6642854	6026370	28
WDK40040CW	6028870	6025412	29
WDK60060CW	6020171	6021948	30
WDK60090CW	6020119	6021913	32
WDK60110CW	6019816	6021840	34
WDK60150CW	6637577	6021883	36



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