INDUSTRIAL INSTALLATIONS



Connection and routing systems

OBO BETTERMANN



Building Connections

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

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





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

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

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Improved structure, sharpened profile



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

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

OBO Product Worlds



Industrial installations

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



Building installations

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



Safety and protection installations

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



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

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Always at your service

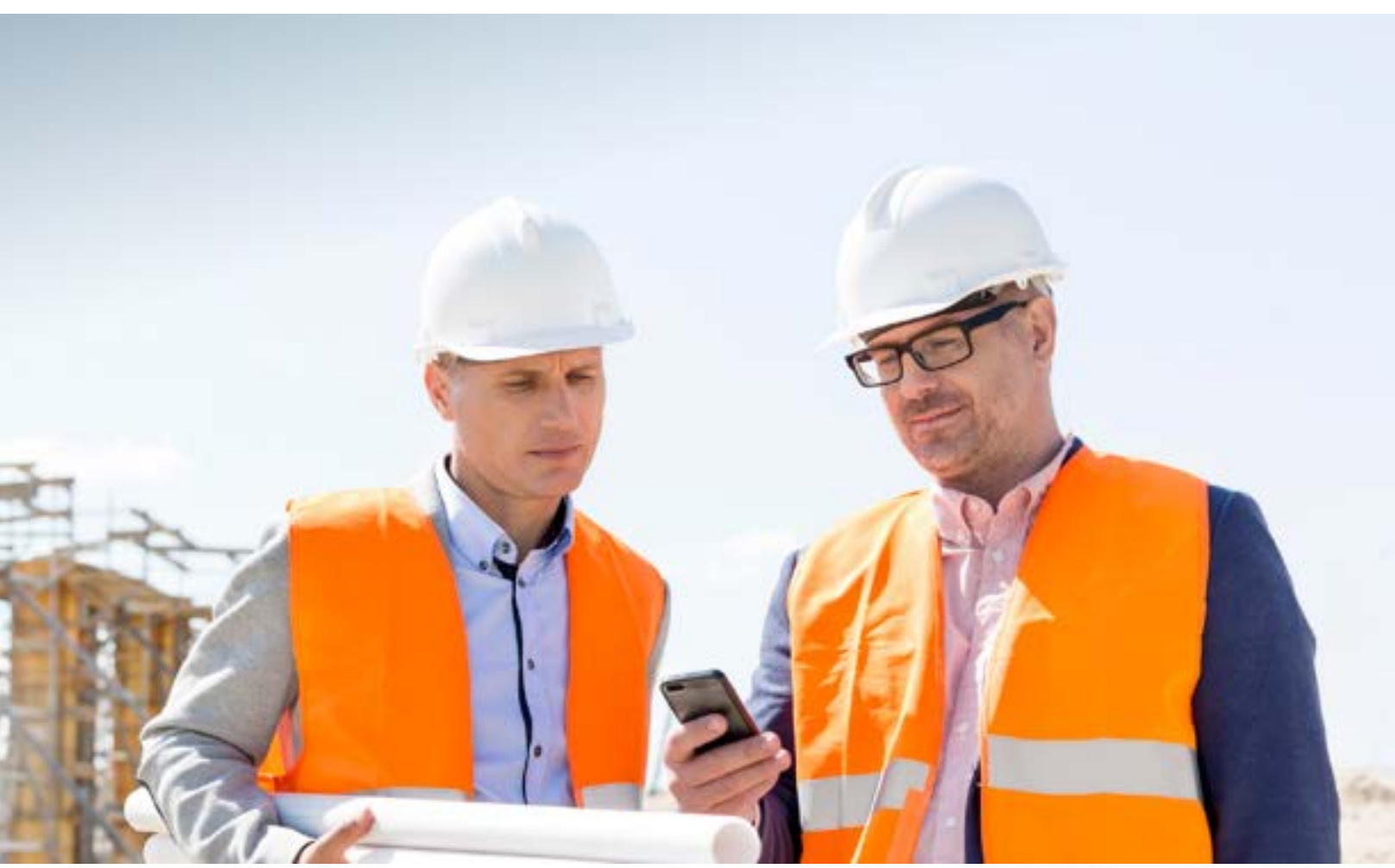
If you have questions about products, installation or planning – OBO staff offer exceptionally competent support at each and every phase of your project. So that you are always on the safe side.

- Product and system information, digitally or printed
- Selection and planning aids on the web, as a CAD application or in printed form, as well as in the myOBO app
- 2D and 3D product data for planning
- Field service and branch offices in 60 countries
- Engineering services for major projects

Our Customer Service can be contacted on +49 23 73 89 - 17 00

Monday–Thursday	07.30 - 17.00
Friday	07.30 - 15.00

or via e-mail at export@obo.de





OBO Construct: Planning has never been so easy!

OBO Construct is a collection of planning tools that were developed especially for electrical installation engineers and planners. This platform offers support in product configuration and a selection aid for the matching systems, and automatically generates a corresponding parts list. With OBO Construct, you can therefore access and edit projects at any time and at any location – via your smartphone, tablet or desktop PC. Versions of the app are available for iOS and Android.

Laden im App Store

JETZT BEI Google Play



OBO Academy: From the basics to the concrete application

The OBO Academy has been offering an extensive further education programme for many years. This programme helps with first-hand information and expertise, giving you that essential head start in terms of in-depth knowledge. In our seminars, planner days or online seminars, we provide you with current developments, trends, norms and regulations – systematically, comprehensively and practically oriented.

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Planning virtually, implementing efficiently

When planning and implementing electrical technology, BIM (building information modelling) is becoming increasingly more important. We can now offer our partners the first solution to unlock the full potential of the BIM method for practical applications - giving you more planning efficiency, transparency and cost security with complex projects. Find out about the advantages of BIM@OBO now:

- Intelligent libraries structured according to individual systems
- Available for Revit, as a plug-in and directly via the OBO website
- Simple integration via drag & drop
- Practical display of material lists for ordering directly
- Intuitive user interface



You can find further information at **obo.de/BIM**. Welcome to the future!



Clear delivery capability

With an approximate storage area of 38,000 m² and five strategically well-located sales warehouses, we ensure that our products arrive at the right place at the right time. Our logistics specialists work hard to ensure all our partners are supplied flexibly and as quickly as possible. This you can rely on!



1 **Sales Warehouse North**
Bad Fallingbostel

2 **Sales Warehouse West**
Iserlohn

3 **Sales Warehouse East**
Delitzsch

4 **Sales Warehouse South-West**
Groß-Rohrheim

5 **Sales Warehouse South**
Dasing

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Metal: corrosion and corrosion protection



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

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

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

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

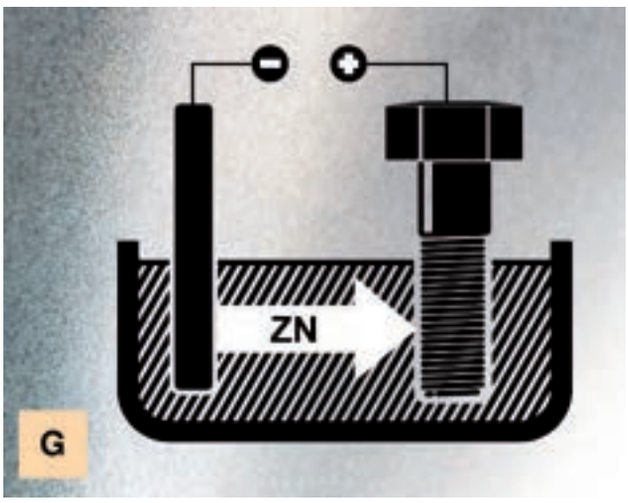
Aluminium (Al), as a light metal, has comparatively low strength but good electrical conductivity and high corrosion resistance.

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

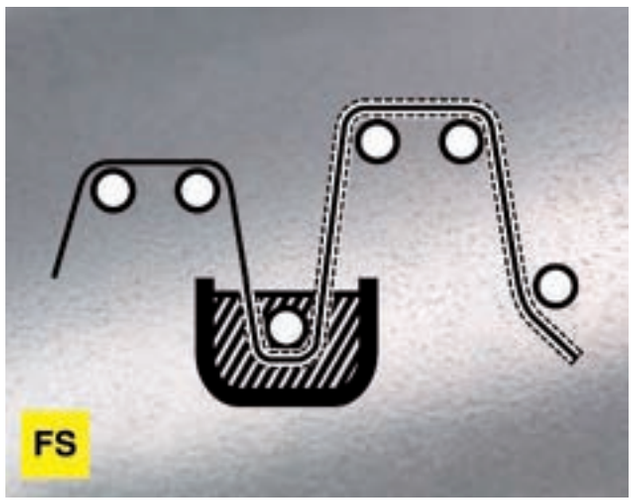
Corrosion protection
Corrosion protection means all steps taken to prevent corrosion damage to metallic components. It is impossible to prevent corrosion permanently, so corrosion protection measures generally aim to reduce the speed of corrosion so that the component is not damaged by corrosion for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

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

Galvanisation types



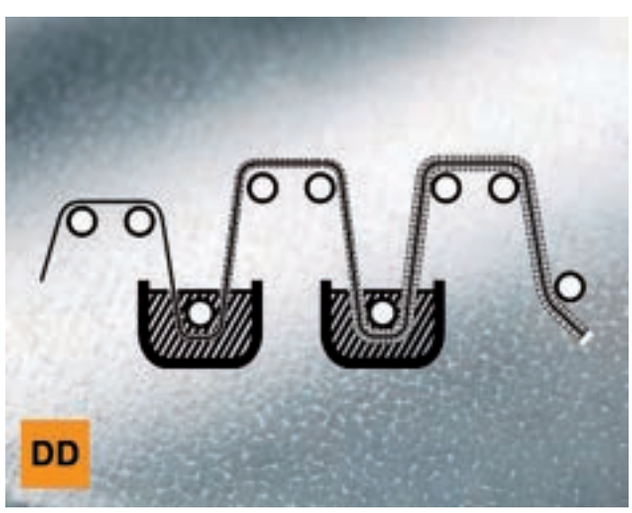
Electrogalvanisation – electrolytic galvanisation in accordance with DIN EN ISO 2081
In electrogalvanisation or electrolytic galvanisation, the component is coated by dipping it not in molten zinc, but in a zinc electrolyte, through which a direct electric current is passed.



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



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



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

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Surface testing and corrosion categories



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

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

Classification of corrosion resistance according to EN 61537

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

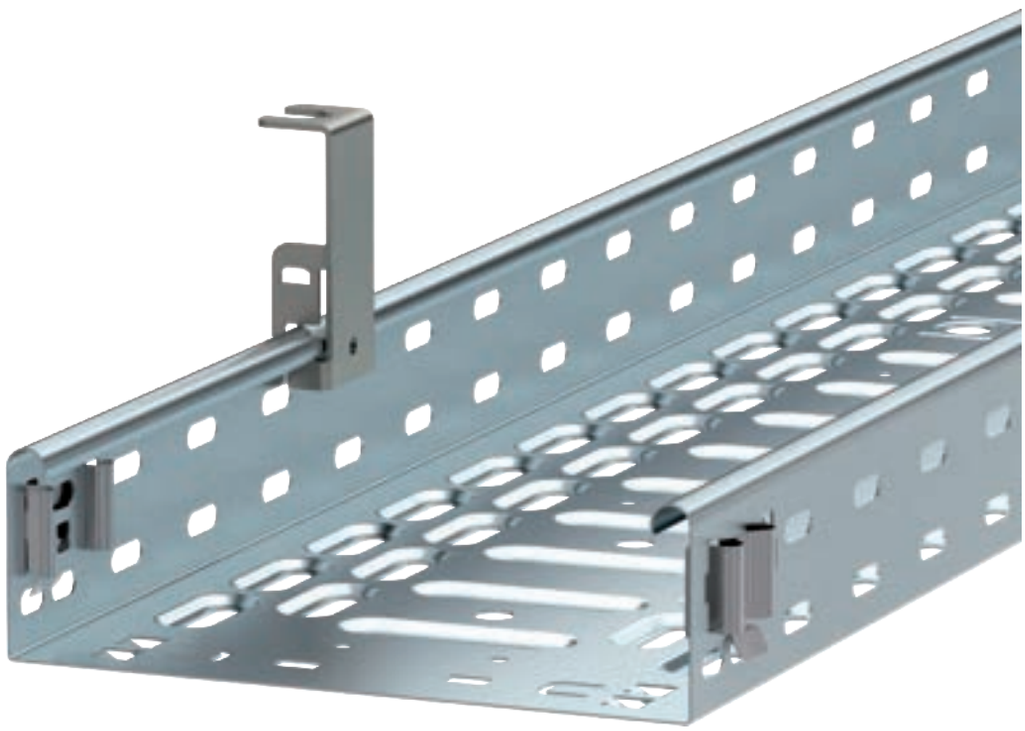
* For materials which do not have a declared corrosion resistance classification
** The end treatment process is used to improve the protection against crack corrosion and the contamination of other steels

Corrosion categories to DIN EN ISO 12944

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

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Contact corrosion



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

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

Additional contact corrosion criteria:

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

Installation locations

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

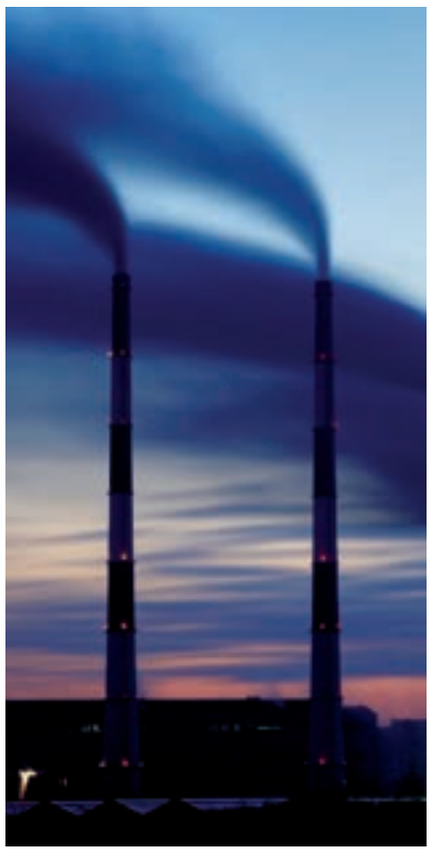
Application	Material	Surface protection
Indoors 	St Steel	L Painted/powder-coated
	St Steel	FS Strip galvanised DIN EN 10346
	St Steel	G Electrogalvanised DIN EN ISO 2081
Outdoors 	St Steel	FT Hot galvanised DIN EN ISO 1461
	St Steel	DD Hot galvanised DIN EN ISO 1461
	VA Stainless steel A2	
	VA Stainless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

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Contact corrosion in different environments



Land climate



Industrial atmosphere



Sea climate

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

✓	Little to no corrosion
○	Moderate corrosion
✗	Heavy corrosion

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

Surfaces for special visual requirements or special environmental loads



Applications with specific optical requirements or special environmental conditions
Colour-coated products are becoming ever more popular. The coating may be required for optical reasons or for reasons of corrosion protection.

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

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

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Plastic: materials and properties

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

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

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

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

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

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

Plastic: stress crack risk and chemical resistance

Risk of stress cracks

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

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

Chemical resistance

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

Resistance: ✓ Resistant ○ Limited resistance ! Not resistant

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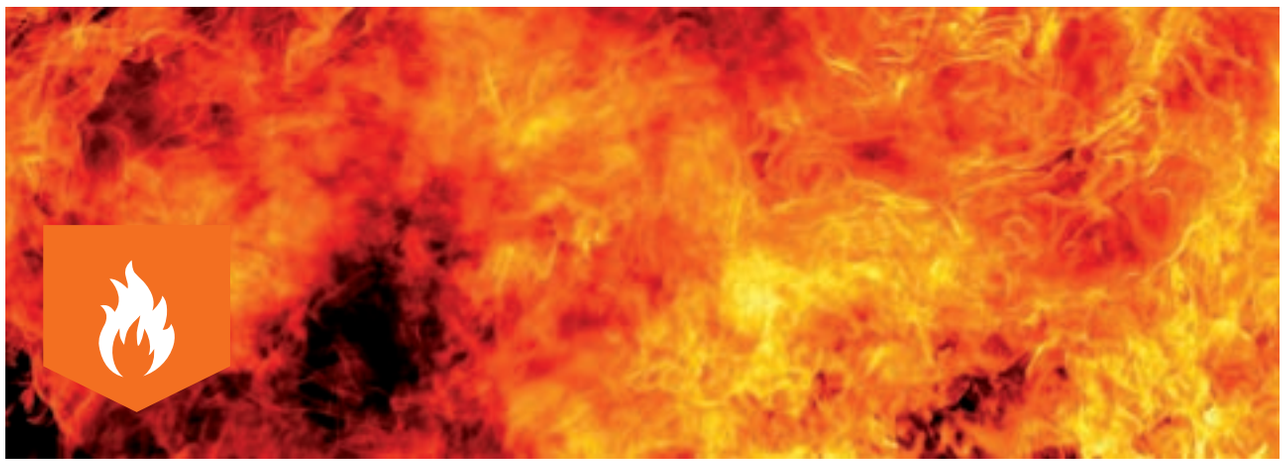
Plastic: material properties



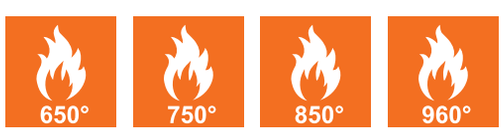
Halogen freedom
Estimates suggest that around 95% of fire victims die not due to the immediate effects of the fire, but of poisoning from the smoke. In addition, the corrosive fire gases created during fires cause immense damage to property and can permanently damage the structure of a building. Therefore,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



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



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



Types of installation systems

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

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Protection ratings



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

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

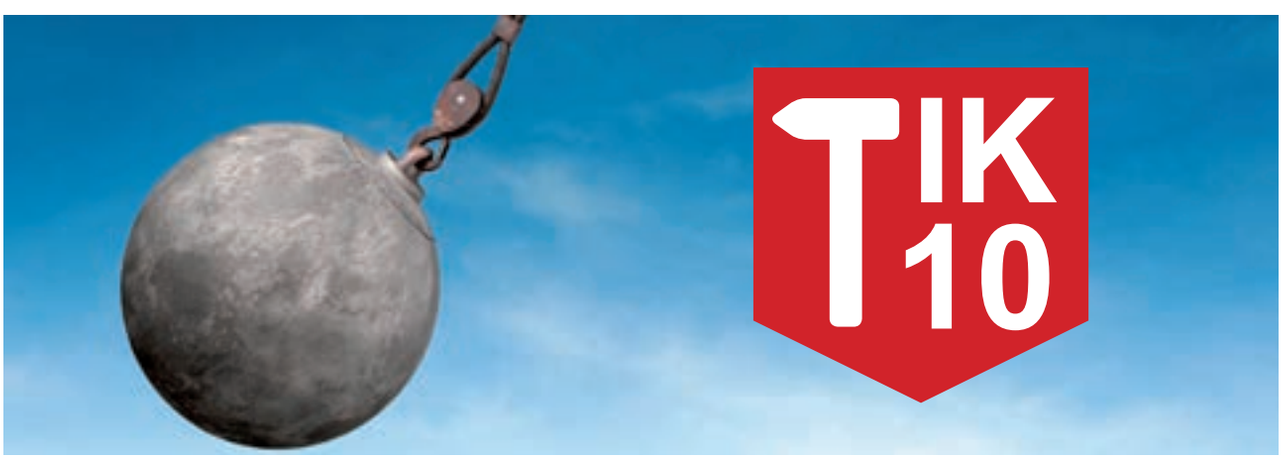
Protection rating

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

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

Protection rating against the entry of water with a damaging impact

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



IK code

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

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

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Nominal values of electrical equipment



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



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



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

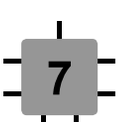


Nominal voltage
Greatest approved voltage at the connection point.

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

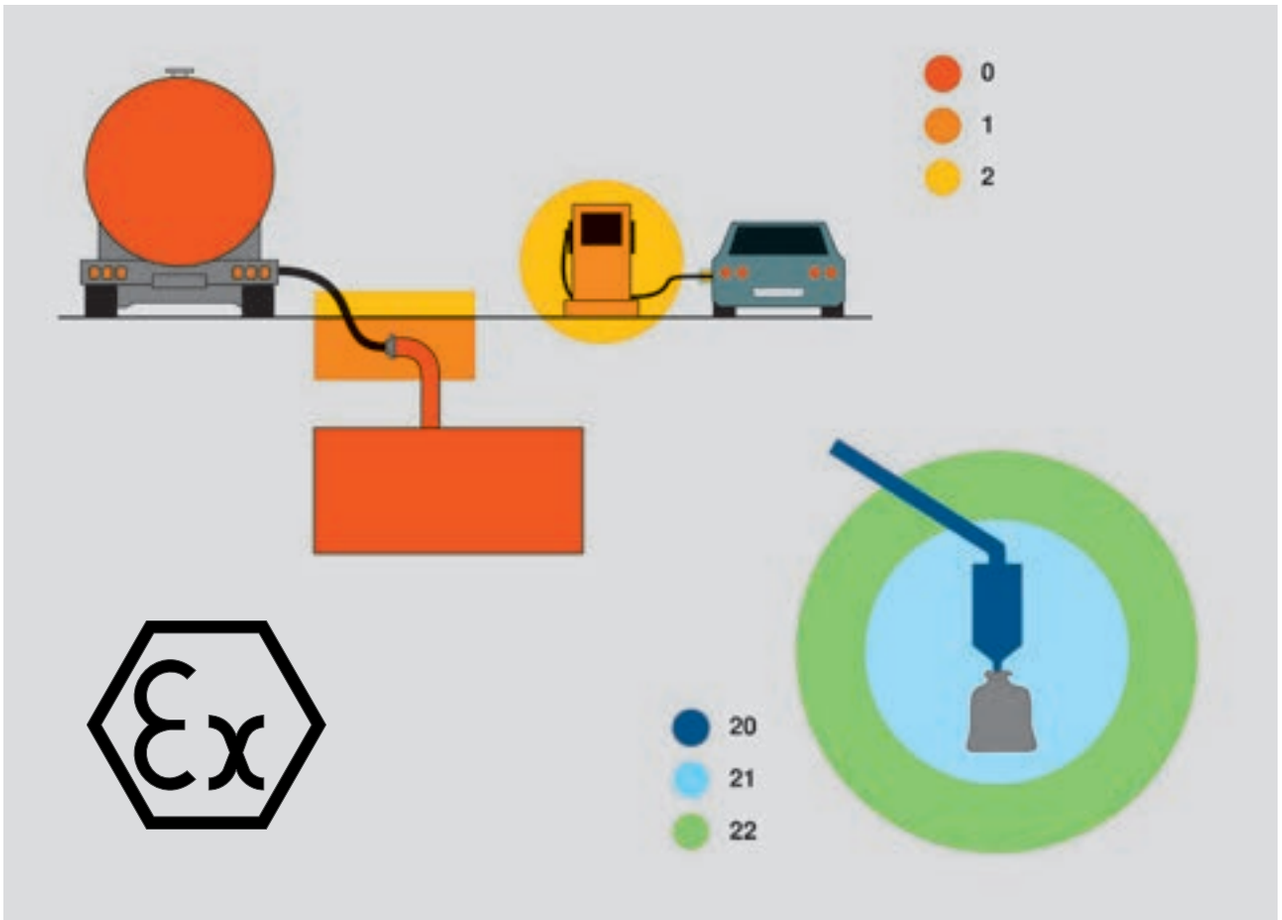


No. of poles
Number of connection points of the clamp connector.



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

Zone division for explosive areas



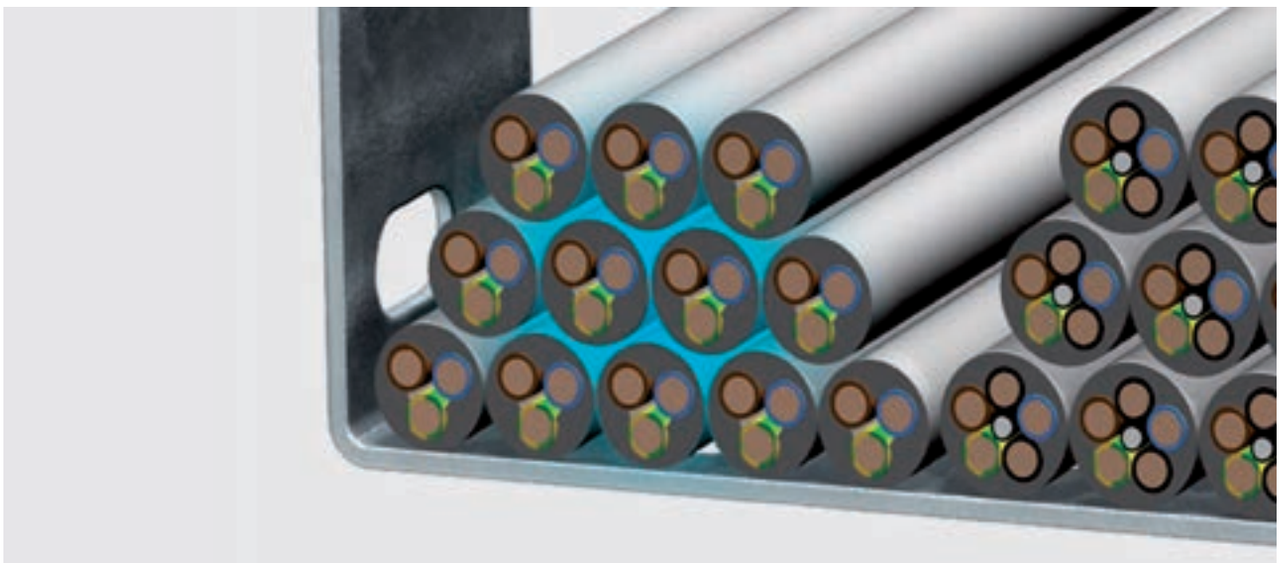
Products used in potentially explosive areas must comply with the ATEX directives. The ATEX workplace directive 1999/92/EC sets out the minimum requirements for improving the safety and health protection of workers at risk from potentially explosive atmospheres. The directive divides areas with dangerous,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

Zone allocation of device group II (applied)

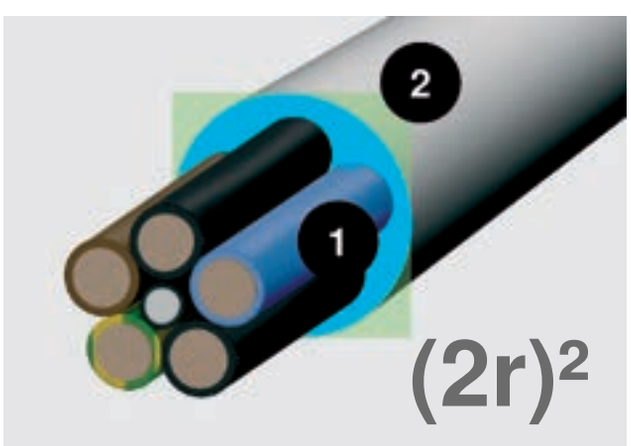
Gas	Dust
Explosive gas atmosphere, zone division to DIN EN 60079-10	**Explosive dust/air mixtures, zone division to DIN EN 61214-10**
Zone 0	Zone 20
An area in which it can be expected that, under normal conditions, an explosive atmosphere of gas occurs continuously or for long periods of time.	An area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

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Cable sizes

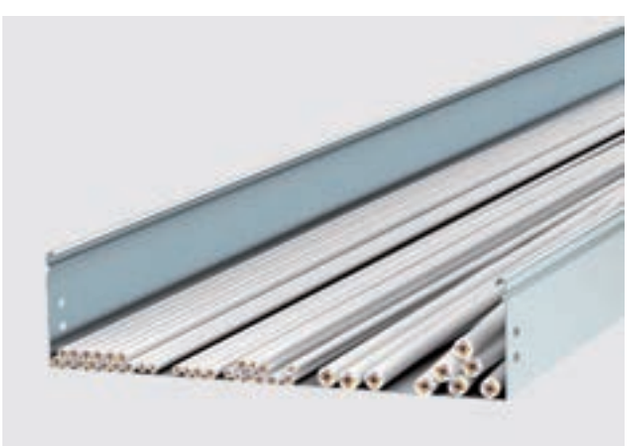


The term “cable” means a jacketed electrical cable for the transmission of electrical energy and data. Cables are given according to their nominal cross-section. The external diameter and usable cross-section depend on their nominal cross-section and the number of individual wires contained in the cable.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



Circular area (1) and space required (2)

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



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

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

Basic values for the calculation of the cable volume



Insulated power cables

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



Insulated power cables

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



Telecommunications cables

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



IT cables type Cat...

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



Coax cable (Standard)

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

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Selection of the correct fastening clip



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

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

Overview of external diameters, metric and PG sizes

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

Cable glands and the DIN EN 62444 standard

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

Table 1

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

Table 2 A

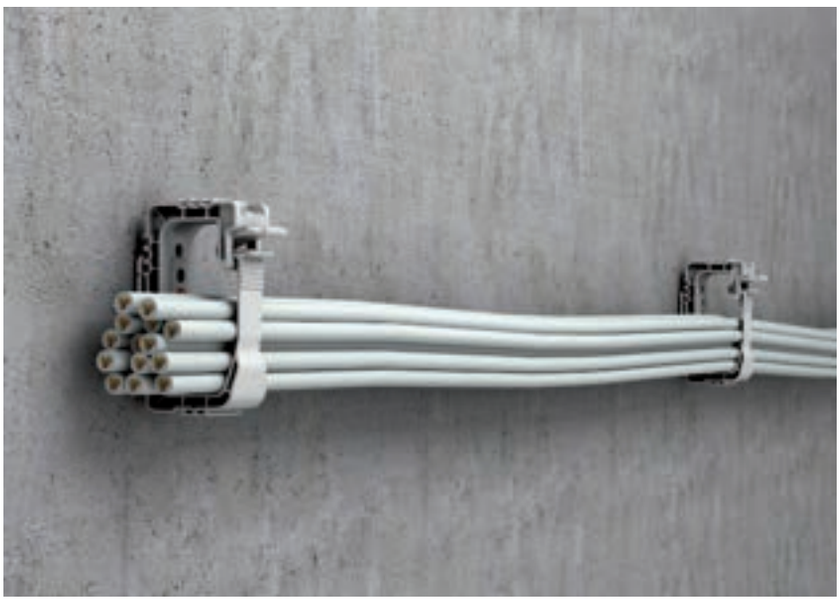
Cable diameter	**Retaining capacity**	**Strain relief, version A**
mm	**N**	**N**
to 4	5	–
>4 to 8	10	30
>8 to 11	15	42
>11 to 16	20	55
>16 to 23	25	70
>23 to 31	30	80
>31 to 43	45	90
>43 to 55	55	100
>55	70	115

Table 3

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

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Information on cable fastenings







Cable fastening

The standard DIN EN 61914 "Cable holders for electrical installations" specifies that cable holders "must be able to accept cables or cable bundles of the diameter specified by the manufacturer or responsible retailer, without tearing or breaking or shearing off the threads of bolts".

During the installation of cables, the current national and international standard must be taken into account, such as DIN VDE 0100 520. “Suitable tools and methods, which prevent damage or changes to the shape” must be used for fastening.

In addition, with masses of cables, DIN VDE 0298 requires the appropriate "load capacities of cables for fixed laying in and on buildings..." to be taken into account when selecting the fastening systems.

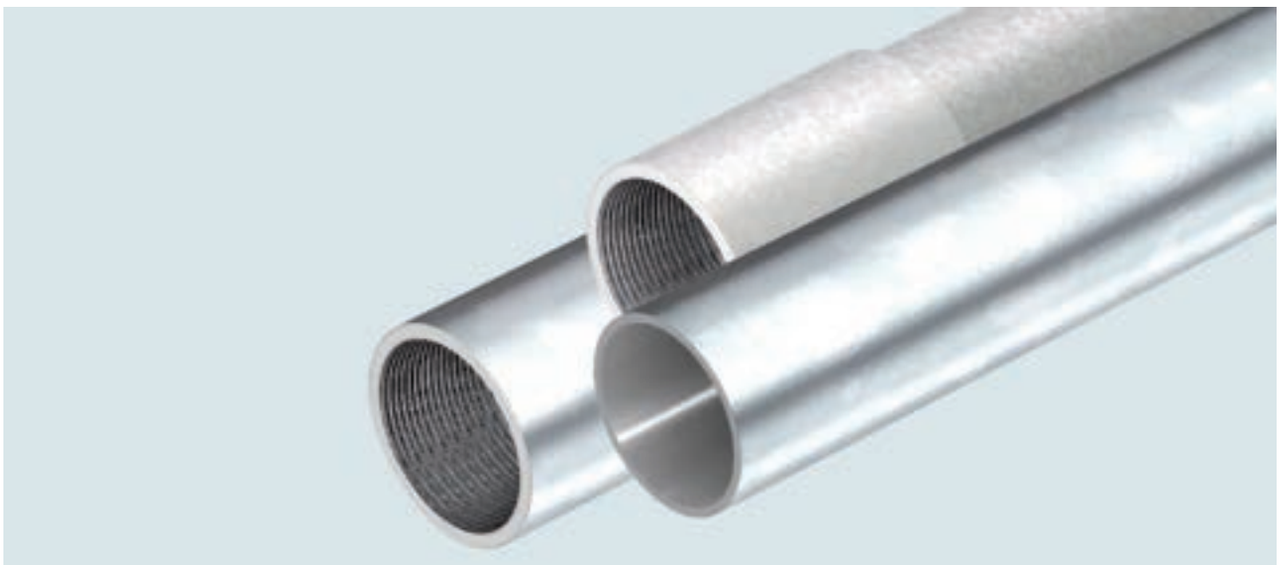
Besides these standardising aspects, the end customer‘s or client‘s particular laying specifications can/must be taken into account.

The fastening spacing for cables is given in DIN VDE 0100-520, June 2013. For example, cables laid horizontally require a spacing of 20x the cable diameter. However, a spacing of 80 cm should not be exceeded. With vertical routing, the clip spacings may be increased but should not exceed 1.5 m.

The table below shows the maximum fastening spacings for cables according to the cable diameter. The laying spacings given in the Industrial installation product catalogue, e.g. for bus holders or Quick clips, are guide values and can only be treated as such.

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

IEC classification in accordance with DIN EN 61386-1

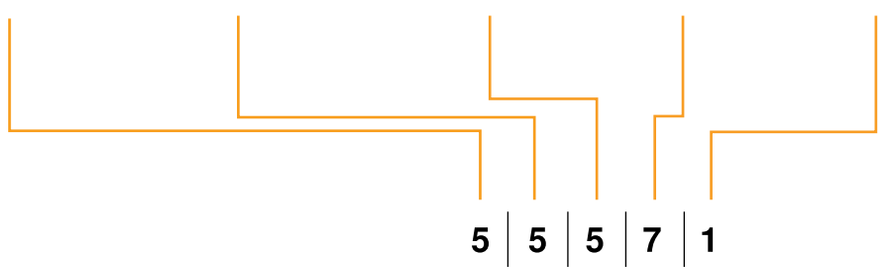


The OBO Bettermann pipe systems are machined and tested according to DIN EN 61386 (Electrical installation pipe systems for electrical energy and information) and DIN EN 60423 (External diameters of electrical installation pipes and thread for electrical installation pipes and their accessories).

Numeric code

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

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



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

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

Classification according to IEC EN 61386-1: Corrosion protection

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







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

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

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

Definition of electromagnetic compatibility (EMC)



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

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

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

Path of faults

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

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Guarantee of EMC



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

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

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

Standards, specifications and certifications



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

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

Certifications
For OBO, product quality is closely connected to continuous testing and checking – which is why we manufacture almost all our products ourselves. This enormous depth of production is an expression of our demand for quality. From construction, and the materials used through production, right up to logistics, our employees personally guarantee the quality and availability of OBO products.
The multitude of approvals emphasise our high demand for quality and product functionality.
Our integrated quality management system forms the solid basis of our ISO 9001 certification, which we have held since 1994. The confirmation of suitability enables defined and workable processes in accordance with KTA 1401 and 10 CFR 50.

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Certificates and test marks

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

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

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

First-hand support and knowledge

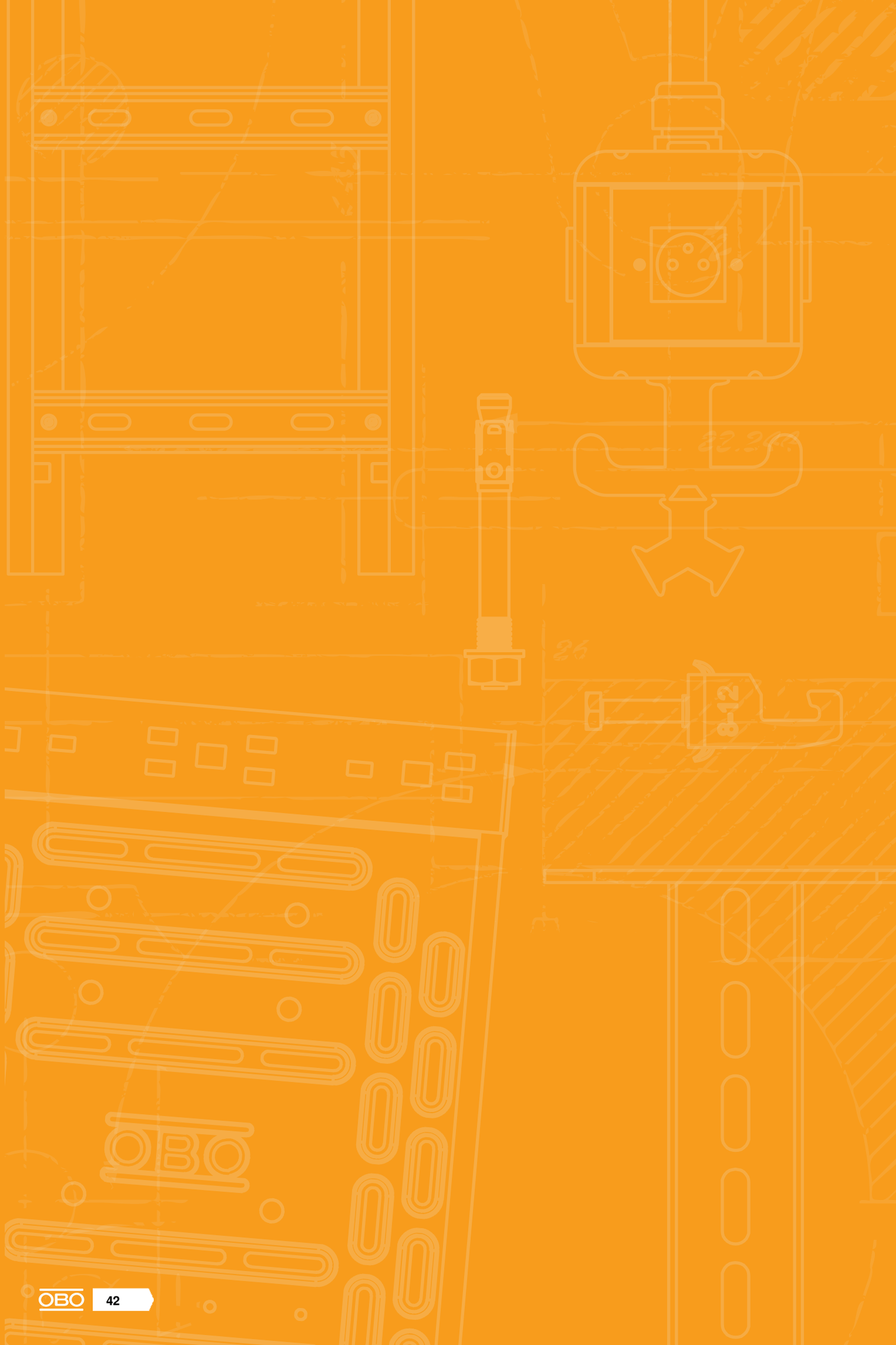


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Selection aid, flush-mounted boxes

					Device boxes		Device connection boxes	
				Depth	46 mm		66 mm	
				Without device screws	x		x	
				With device screws		x		x
Standard installation								
				Type	UG 46	UG 46-GS	UG 66	UG 66-GS
				Item no.	2003700	2003701	2003702	2003703
								
				Type	UG 46-NL		UG 66-NL	
				Item no.	2003714		2003716	
Airtight installation								
				Type	UG 45-L	UG 46-GS-L	UG 66-L	UG 66-GS-L
				Item no.	2003706	2003707	2003708	2003709
Accessories					**Usable with:**			
All installations	Quick Fix			ZU 60-QF	2003740	x	x	x	x
	Plaster compensation ring	12 mm		ZU 12-PR	2003742	x	x	x	x
		24 mm		ZU 24-PR	2003744	x	x	x	x
	Distance connector			ZU 20-AS	2003746	x	x	x	x
	Cover	Signal		ZU 60-SD	2003760	x	x	x	x
				ZU 60-SDD	2003762				
				ZU 30-SDW	2003768				
		Universal		ZA 60-D	2003748	x	x	x	x
		Sprung		ZA 60-FD	2003749	x	x	x	x
		Double		ZA 60-DV	2003823				
Airtight installations		Sealing insert		ZA 60-DE	2003719	x	x	x	x
	Sealing plug	M20		ZA 20-VS	2003737	x	x	x	x
		M25		ZA 25-VS	2003738	x	x	x	x

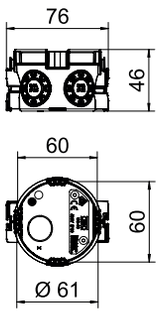
	Device connection boxes with side clamping space	Electronic boxes	Double boxes		Wall outlet boxes
	50 mm	66 mm	46 mm		35 mm
			x		x
	x	x		x	
					
S	**UE 46**	**UE 66**	**UG 46-DV**	**UG 66-DV**	**UG 30-WA-D**
	2003725	2003726	2003722	2003720	2003732
					
-L		**UE 66-L**		**UG 66-DV-L**	
		2003727		2003723	
	x	x			
	x	x			
	x	x	x	x	
	x	x			
			x	x	
					x
	x	x			
	x	x			
			x	x	
	x	x			
	x	x	x	x	x
	x	x	x	x	

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Accessory and connection sockets

UP Flush-mounted device box 46



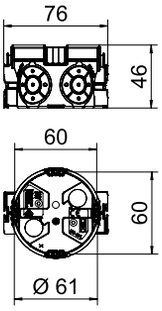


Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46	46	7	20/25 mm	Jet black	25	1.930	**2003700**

Flush-mounted device box, for use in masonry with an installation depth of at least 46 mm.
- 4 x 3 screw domes
- Connector with bayonet lock, couplable on both sides
- 6 combination pipe insertions of Ø 20 and 25 mm
- 1 entry up to Ø 20 mm in the base

UP Flush-mounted device box 46, airtight



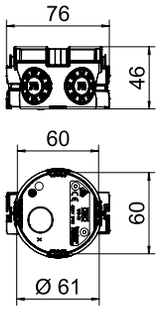


Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46-L	46	8	20/25 mm	Jet black / blue-grey	25	2.040	**2003706**

Flush-mounted device box, with airtight membrane entries, for use in masonry with an installation depth of at least 46 mm.
- 4 x 3 screw domes
- Connector with bayonet lock, couplable on both sides
- 4 combination pipe entries of Ø 20 and 25 mm
- 2 entries up to Ø 20 mm in the connector
- 2 entries up to Ø 12 mm in the base

UP Flush-mounted device box 46, with device screws





Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46-GS	46	7	20/25 mm	Jet black	25	2.050	**2003701**

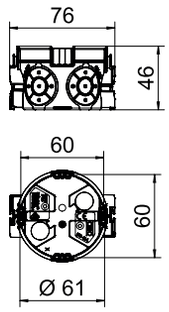
Flush-mounted device box, for use in masonry with an installation depth of at least 46 mm.
- 4 x 3 screw domes
- 2 pre-mounted device screws
- Connector with bayonet lock, couplable on both sides
- 6 combination pipe insertions of Ø 20 and 25 mm
- 1 entry up to Ø 20 mm in the base

PP/TPE

UP Flush-mounted device box 46, with device screws, airtight

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46-GS-L	46	8	20/25 mm	Jet black / blue-grey	25	2.120	**2003707**

Flush-mounted device box, with airtight membrane entries, for use in masonry with an installation depth of at least 46 mm.
- 4 x 3 screw domes
- 2 pre-mounted device screws
- Connector with bayonet lock, couplable on both sides
- 4 combination pipe entries of Ø 20 and 25 mm
- 2 entries up to Ø 20 mm in the connector
- 2 entries up to Ø 20 mm in the base



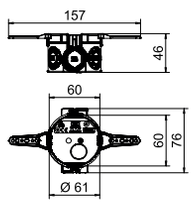


PP

UP Flush-mounted device box 46, with nail straps

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46-NL	46	7	20/25 mm	Jet black	25	2.200	**2003714**

Flush-mounted device box with nail straps, for use in masonry with an installation depth of at least 46 mm.
- 4 x 3 screw domes
- Connector with bayonet lock, couplable on both sides
- 6 combination pipe insertions of Ø 20 and 25 mm
- 1 entry up to Ø 20 mm in the base



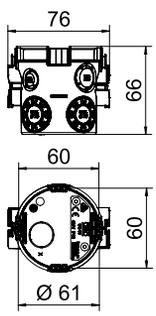


PP

UP Flush-mounted device connection box 66

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66	66	13	20/25 mm	Jet black	25	2.390	**2003702**

Flush-mounted device box, for use in masonry with an installation depth of at least 66 mm.
- 4 x 3 screw domes
- Connection nozzle with bayonet lock, couplable on both sides
- 6 combination pipe entries up to Ø 20 and 25 mm
- 4 entries up to Ø 20 mm
- 2 entries up to Ø 14 mm
- 1 entry up to Ø 20 mm in the base



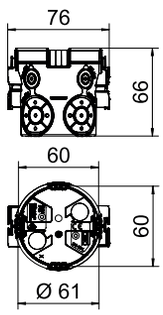


PP/TPE

UP Flush-mounted device connection box 66, airtight

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-L	66	14	20/25 mm	Jet black / blue-grey	25	2.510	**2003708**

Flush-mounted device box, with airtight membrane entries, for use in masonry with an installation depth of at least 66 mm.
- 4 x 3 screw domes
- Connector with bayonet lock, couplable on both sides
- 4 combination pipe entries of Ø 20 and 25 mm
- 2 entries up to Ø 20 mm
- 6 entries up to Ø 12 mm
- 2 entries up to Ø 12 mm in the base





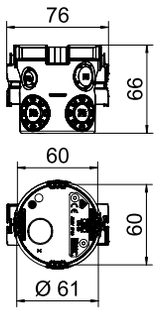
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Accessory and connection sockets

UP Flush-mounted device connection box, with device screws

PP





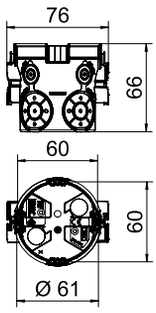
Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-GS	66	13	20/25 mm	Jet black	25	2.510	**2003703**

Flush-mounted device box, for use in masonry with an installation depth of at least 66 mm.
- 4 x 3 screw domes
- 2 pre-mounted device screws
- Connector with bayonet lock, couplable on both sides
- 6 combination pipe entries of Ø 20 and 25 mm
- 4 entries up to Ø 20 mm
- 2 entries up to Ø 14 mm
- 1 entry up to Ø 20 mm in the base

UP Flush-mounted device connection box 66, with device screws, airtight

PP/TPE





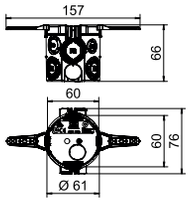
Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-GS-L	66	14	20/25 mm	Jet black / blue-grey	25	2.630	**2003709**

Flush-mounted device box, with airtight membrane entries, for use in masonry with an installation depth of at least 66 mm.
- 4 x 3 screw domes
- 2 pre-mounted device screws
- Connector with bayonet lock, couplable on both sides
- 4 combination pipe entries of Ø 20 and 25 mm
- 2 entries up to Ø 20 mm
- 6 entries up to Ø 12 mm
- 2 entries up to Ø 12 mm in the base

UP Flush-mounted device connection box 66, with nail straps

PP





Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-NL	66	13	20/25 mm	Jet black	25	2.650	**2003716**

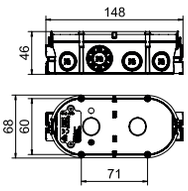
Flush-mounted device box with nail straps, for use in masonry with an installation depth of at least 66 mm.
- 4 x 3 screw domes
- Connector with bayonet lock, couplable on both sides
- 6 combination pipe entries of Ø 20 and 25 mm
- 4 entries up to Ø 20 mm
- 2 entries up to Ø 14 mm
- 1 entry up to Ø 20 mm in the base

PP

Flush-mounted device connection socket 66, double version

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46-DV	46	12	20/25 mm	Jet black / blue-grey	10	3.720	**2003722**

Double flush-mounted device box, for use in masonry with an installation depth of at least 46 mm.
- Connector with bayonet lock, couplable on both sides
- 4 combination pipe entries of Ø 20 and 25 mm
- 6 entries up to Ø 20 mm
- 2 entries up to Ø 20 mm in the base



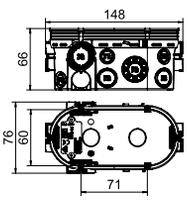


PP

Flush-mounted device connection socket 66, double version

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-DV	66	22	20/25 mm	Jet black	10	5.610	**2003720**

Double flush-mounted device box, for use in masonry with an installation depth of at least 66 mm.
- With 4 connectors with bayonet lock, couplable on both sides
- 6 combination pipe entries of Ø 20 and 25 mm
- 8 entries up to Ø 20 mm
- 6 entries up to Ø 14 mm
- 2 entries up to Ø 20 mm in the base



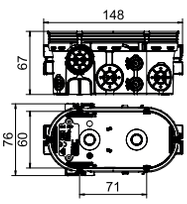


PP/TPE

Flush-mounted device connection socket 66, double version, airtight

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-DV-L	67	24	20/25 mm	Jet black / blue-grey	10	6.060	**2003723**

Double flush-mounted device box, with airtight membrane entries, for use in masonry with an installation depth of at least 67 mm.
- With 4 couplable connectors with bayonet lock
- 4 combination pipe entries of Ø 20 and 25 mm
- 4 entries up to Ø 20 mm
- 14 entries up to Ø 11 mm
- 2 entries up to Ø 20 mm in the base



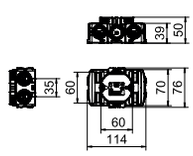


PP

Flush-mounted electronics box 46, rectangular, with clamping area to the side

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UE 46	50	16	20/25 mm	Jet black	10	4.300	**2003725**

Flush-mounted electronic box, with side clamping space, rectangular shape, for use in masonry with an installation depth of at least 50 mm.
- Connector with bayonet lock, couplable on both sides
- 10 combination pipe entries of Ø 20 and 25 mm
- 2 entries up to Ø 20 mm in the base
- 4 entries for flat cables/ribbon cables
- 4 x 3 screw domes



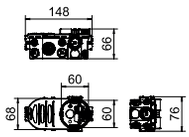


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Electronics sockets

UP Flush-mounted electronic box 66, additional clamping space



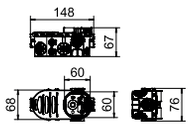


Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UE 66	66	22	20/25 mm	Jet black	10	6.150	**2003726**

Flush-mounted electronic box, with additional terminal area, for use in masonry with an installation depth of at least 66 mm.
- With 4 couplable connectors with bayonet lock
- 6 combination pipe entries of Ø 20 and 25 mm
- 8 entries up to Ø 20 mm
- 6 entries up to Ø 14 mm
- 2 entries up to Ø 20 mm in the base
- Partition for different voltages, with break-out openings
- 4 x 3 screw domes

UP Flush-mounted electronic box 66, airtight





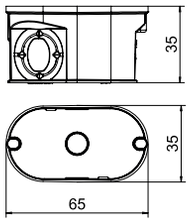
Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UE 66-L	67	24	20/25 mm	Jet black / blue-grey	10	6.600	**2003727**

Flush-mounted electronic box, with additional clamping space and airtight membrane entries, for use in masonry with an installation depth of at least 67 mm.
- With 4 couplable connectors with bayonet lock
- 4 combination pipe entries of Ø 20 and 25 mm
- 4 entries up to Ø 20 mm
- 14 entries up to Ø 11 mm
- 2 entries up to Ø 20 mm in the base
- Partition for different voltages, with break-out openings
- 4 x 3 screw domes

Wall luminaire connection sockets

UP Flush-mounted outlet box





Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 30-WA-D	35	4	20 mm	Jet black	25	1.150	**2003732**

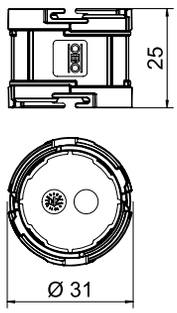
Flush-mounted outlet box for single cable routing. Oval shape, for use in masonry with an installation depth of at least 35 mm.
- 2 entries up to Ø 20 mm
- 1 combination entry of Ø 10 and 20 mm
- 1 entry up to Ø 20 mm in the base

PS

UP Distance connector

Type	Length mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 20-AS	25	Signal red	25	0.350	**2003746**

Distance connector with bayonet lock for the stable combination of multiple flush-mounted device boxes. To expand the standard centre spacing of 71 mm by 20 mm.





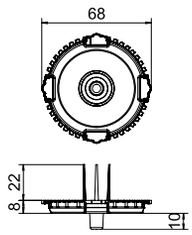
PE

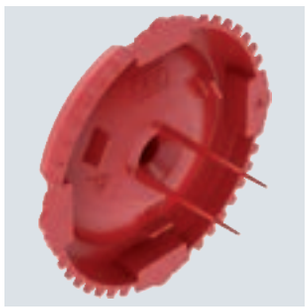
Ø 60

UP Signal cover flush-mounted boxes, single

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 60-SD	Signal red	50	0.380	**2003760**

Cover as protection of flush-mounted boxes during plastering. Red, with signal bristles for determining position, centring for drill bit, straps for pulling off.



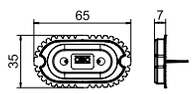


PE

UP Signal cover, flush-mounted outlet box

Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 30-SDW	65x35mm	Signal red	25	0.220	**2003768**

Cover for flush-mounted outlet box as protection during plastering. Red, with signal bristles for determining position.



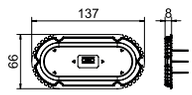


PE

UP Signal cover for flush-mounted box, double

Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 60-SSD	2 x Ø60mm	Signal red	25	1.070	**2003762**

Cover as protection of double flush-mounted box during plastering. Red, with signal bristles for determining position.

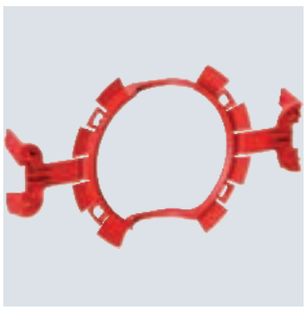


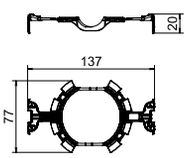


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Accessories, concealed

UP Quick-Fix



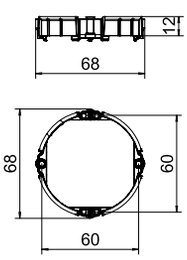


Type	Dia-meter mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 60-QF	60	Signal red	25	0.570	2003740

Quick fixing through clamping of flush-mounted device boxes Ø 60 mm, instead of plastering or sticking.
For openings with a diameter of 80 mm. Not suitable for the use with thin plaster.

UP Plaster compensation ring 12 mm, flush-mounted device box



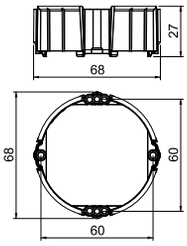


Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 12-PR	Ø60mm, H12mm	Signal red	25	0.650	2003742

Plaster compensation ring for Ø 60 mm flush-mounted box, to screw on.

UP Plaster compensation ring 24 mm, flush-mounted device box





Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 24-PR	Ø60mm, H24mm	Signal red	25	1.020	2003744

Plaster compensation ring for Ø 60 mm flush-mounted box, to screw on.

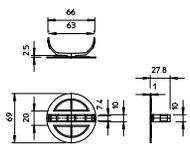
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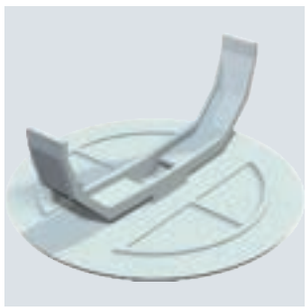
Ø 60

Sprung cover, 60 mm

Type	Ø Max.	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA 60-FD	72	White	25	0.560	**2003749**

Sprung lid with centrally moulded, elastic spreading spring, for sockets with Ø 60 mm, lid edge is flush, surface is roughened.



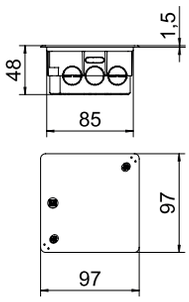


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Flush-mounted connection boxes

Flush-mounted connection box



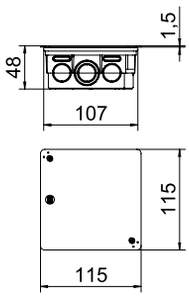


Type	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UV 80 K	45	18	Black	50	4.500	**2003112**

Flush-mounted connection box for clamping terminals, for use in masonry with an installation depth of at least 45 mm. With cover and cover screws (15 mm). Flat cover edge, roughened surface.
- 6 side entries of Ø 19 mm
- 4 side entries of Ø 21.5 mm
- 4 side entries for flat cables/ribbon cables
- 2 entries of Ø 21.5 mm in the base
- 2 entries for flat cables/ribbon cables at the base

Flush-mounted connection box 100



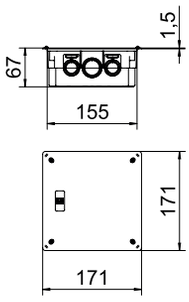


Type	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UV 100 K	45	32	Black	50	5.836	**2003118**

Flush-mounted connection box for clamping terminals, for use in masonry with an installation depth of at least 45 mm. With cover and cover screws (15 mm). Flat cover edge, roughened surface.
- 6 side entries of Ø 19 mm
- 4 side entries of Ø 21.5 mm
- 4 side entries for flat cables/ribbon cables
- 2 entries of Ø 21.5 mm in the base
- 2 entries for flat cables/ribbon cables at the base

Flush-mounted connection box 150



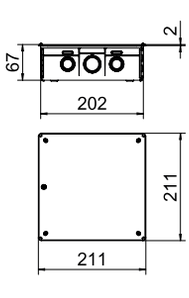


Type	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UV 150 K	65	24	Black	16	15.667	**2003124**

Flush-mounted connection box for clamping terminals, for use in masonry with an installation depth of at least 45 mm. With cover and cover screws (15 mm). Flat cover edge, roughened surface.
- 6 side entries of Ø 19 mm
- 4 side entries of Ø 21.5 mm
- 4 side entries for flat cables/ribbon cables
- 2 entries of Ø 21.5 mm in the base
- 2 entries for flat cables/ribbon cables at the base

Flush-mounted connection box 200





Type	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UV 200 K	65	24	Black	10	35.714	**2003130**

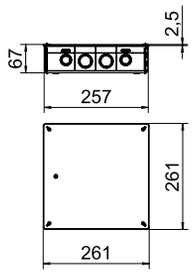
Flush-mounted connection box for clamping terminals, for use in masonry with an installation depth of at least 45 mm. With cover and cover screws (15 mm). Flat cover edge, roughened surface.
- 6 side entries of Ø 19 mm
- 4 side entries of Ø 21.5 mm
- 4 side entries for flat cables/ribbon cables
- 2 entries of Ø 21.5 mm in the base
- 2 entries for flat cables/ribbon cables at the base

PS

Flush-mounted connection box 250

Type	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UV 250 K	65	40	Black	10	52.000	**2003136**

Flush-mounted connection box for clamping terminals, for use in masonry with an installation depth of at least 45 mm. With cover and cover screws (15 mm). Flat cover edge, roughened surface.
- 6 side entries of Ø 19 mm
- 4 side entries of Ø 21.5 mm
- 4 side entries for flat cables/ribbon cables
- 2 entries of Ø 21.5 mm in the base
- 2 entries for flat cables/ribbon cables at the base





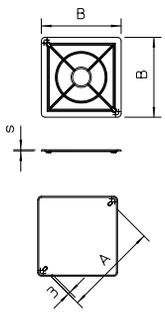
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Box lid

Box lid

PS





Type	Dim. A mm	Dim. B mm	Dim. s mm	Colour	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
UV 80 D	102	97	1.5	White	250		10	1.275	**2003240**
UV 100 D	130	114	1.5	White	240		10	2.004	**2003244**
UV 150 D	200	170	1.75	White	150		5	4.850	**2003248**
UV 200 D	260	210	2	White	50		5	9.500	**2003252**
UV 250 D	328	260	2.5	White	25		5	17.190	**2003256**

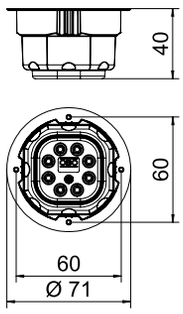
Box cover suitable for the connection sockets, type UV...K, cover edge is flush, surface is roughened, cover bolts can be lowered.

Accessories, general

Sealing insert for device box

TPE





Type	Number of entries	Type of entry	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA 60-DE	8	8 x Ø1 mm to 4 mm	Grey	10	1.200	2003719

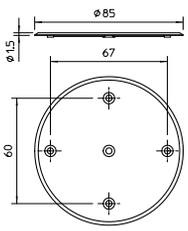
Sealing insert for flush-mounted and cavity wall boxes, to seal against ingress of air.

Universal cover

PC / ABS

Ø 80





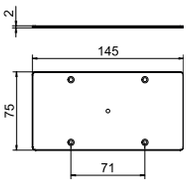
Type	Ø Max.	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA 60-D	84	White	25	0.850	2003748

Universal cover for flush-mounted and cavity wall box. With drill holes, hole spacing 60 mm for all device boxes, retractable screws. Roughened surface.

Cover, double, rectangular

PC / ABS





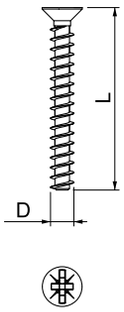
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA 60-DV	White	5	1.780	2003823

Rectangular cover for double flush-mounted and cavity wall box. With drill holes, retractable screws.

Device screw for flush-mounted/cavity wall boxes

St G





Type	Dimension	Pack Piece	Weight kg/100 pc.	Item no.
ZA 15-GS-S	Ø3,2mm,15mm	50	0.055	2003268
ZA 25-GS-S	Ø3,2mm,25mm	50	0.087	2003271
ZA 40-GS-S	Ø3,2mm,40mm	50	0.135	2003279

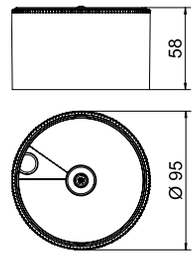
Device screw for mounting devices in flush-mounted or cavity wall device boxes.

St G

Device screws, economy pack for flush-mounted/ cavity wall boxes

Type	Pack Piece	Weight kg/100 pc.	Item no.
ZA 100-GS-VB	1	37.100	**2003280**

Economy box with device screws Ø 3.2 mm in 15, 25 and 40 mm lengths, for mounting devices in flush-mounted or cavity wall device boxes.



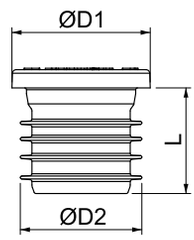


TPE

Sealing plug

Type	Dim. D1 mm	Dim. D2 mm	Dim. L mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA 20-VS	19	15	17	Grey	25	0.170	**2003737**
ZA 25-VS	24	19	18	Grey	25	0.250	**2003738**

Sealing plug to close empty pipes.



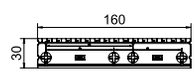


PP

Drilling template for flushmounted and cavity wall boxes

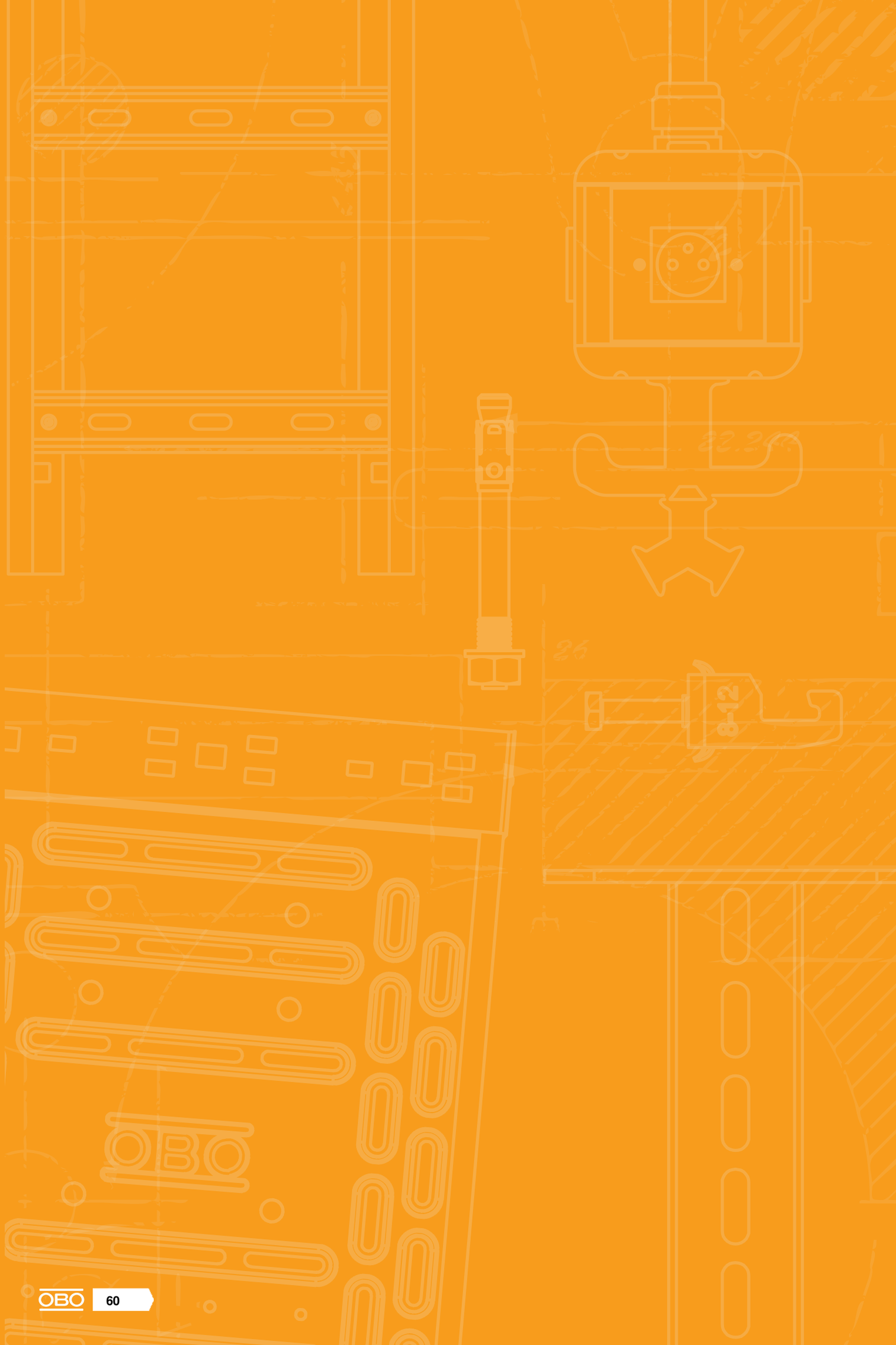
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA BS	Orange	10	0.900	**2003890**

Drilling template for flush-mounted and cavity wall boxes. To draw on the fastening spacings of 71 or 91 mm. With marking aids for centre-punching and notching for alignment, e.g. to chalk line markings.

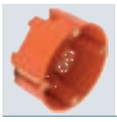




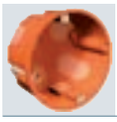
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Cavity wall systems



Cavity wall 62



Cavity wall device boxes 70

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Selection aid, cavity wall boxes

					Device boxes		Device connection boxes
				Milling hole Ø	68 mm		68 mm
				Depth	35 mm	47 mm	61 mm
Standard installation							
			Type		HG 35	HG 47	HG 61
				Item no.	2003800	2003802	2003804
Airtight installation							
			Type			HG 47-L	HG 61-L
				Item no.		2003806	2003808
Accessories					**Usable with:**		
All installations	Fastening element			ZH 12-DB	2003854	x	x	x
	Compensation ring			ZH 68-AR	2003840	x	x	x
	Sealing foil			ZH 68-DF	2003850	x	x	x
	Compensation ring	10 mm		ZH 10-AR	2003842	x	x	x
		20 mm		ZH 20-AR	2003844	x	x	x
	Connector			ZH 11-V	2003846	x	x	x
	Cover	Internal		ZH 60-ID	2003848	x	x	x
		Universal		ZA 60-D	2003748	x	x	x
		Double		ZA 60-DV	2003823			
Airtight installations		Sealing insert		ZA 60-DE	2003719		x	x
	Sealing plug	M20		ZA 20-VS	2003737		x	x
		M25		ZA 25-VS	2003738		x	x

Electronic boxes		Double boxes		Wall outlet boxes		PERILEX 16 A	CEE 16 A	Connection boxes
68 mm	2 x 68 mm	2 x 68 mm		35 mm	2 x 35 mm	74 mm		
75 mm	61 mm	47 mm	61 mm	45 mm			61 mm	
								
		HG 47-DV				HG 61-AD	HG 61-AD-IP	HG 61-AD-D
		2003822				2003818	2003819	2003820
								
HE 74-L	HE 61-DV-L		HE 61-DV-L	HG 45-WA-LD	HG 45-WAD-LD			
2003828	2003826		2003826	2003832	2003834			
x	x	x	x		x	x	x	x
x								
x				x		x	x	x
x								
x								
x	x	x	x					
x								
x								
		x	x					
x	x	x	x		x	x	x	x
x	x	x	x		x	x	x	x

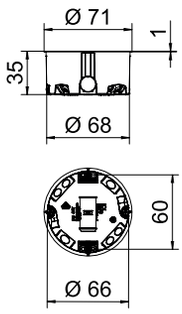
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Accessory and connection sockets

Cavity wall device box 35

PP





Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 35	68	5-28	35	6	Orange	25	1.840	**2003800**

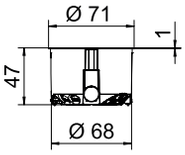
Cavity wall device box for use in cavity walls with an installation depth of at least 35 mm and a plate thickness of 5–28 mm.
- 2 x 3 screw domes
- Device screws, clamping straps
- 4 entries for NYM cables 3 x 1.5 mm
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- Connection with other device boxes of type HG 35 via connector, type ZH 11-V

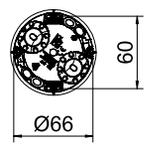
Delivery accessories: 10 x connectors, type ZH 11-V

Cavity wall device box 47

PP







Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 47	68	5-40	47	6	Orange	25	2.250	**2003802**

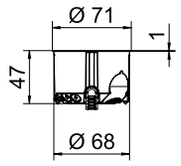
Cavity wall device box for use in cavity walls with an installation depth of at least 47 mm and a plate thickness of 5–40 mm.
- 2 x 3 screw domes
- Device screws, clamping straps
- 2 combination pipe entries of Ø 20 and 25 mm
- 2 entries for NYM cables 3 x 1.5 mm
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- Connection with other device boxes via connector, type ZH 11-V

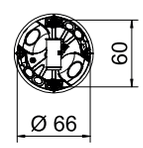
Delivery accessories: 10 x connectors, type ZH 11-V

Cavity wall device box 47, airtight

PP/TPE







Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 47-L	68	5-40	47	6	Orange / grey	25	2.410	**2003806**

Cavity wall device box with airtight membrane entries for use in cavity walls with an installation depth of at least 47 mm and a plate thickness of 5–40 mm.
- 2 x 3 screw domes
- Device screws, clamping straps
- 2 combination pipe entries of Ø 20 and 25 mm
- 2 entries for NYM cables 3 x 1.5 mm
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- Airtight connection with other device boxes via connector, type ZH 11-V

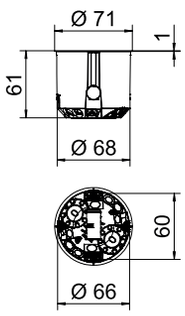
Delivery accessories: 10 x connectors, type ZH 11-V

PP

IP 30 | Ø 68 | 1,5-2,5 mm² | 400 V | 850°

Cavity wall device connection box 61

Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 61	68	5-40	61	10	Orange	25	2.500	**2003804**





Cavity wall device box for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5-40 mm.
- 2 x 3 screw domes
- Device screws, clamping straps
- 2 combination pipe entries of Ø 20 and 25 mm
- 4 entries for NYM cables 3 x 1.5 mm
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- Connection with other device boxes via connector, type ZH 11-V

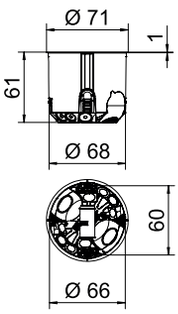
Delivery accessories: 10 x connectors, type ZH 11-V

PP/TPE

IP 30 | Ø 68 | 1,5-2,5 mm² | 400 V | 850°

HW Cavity wall device connection box 61, airtight

Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 61-L	68	5-40	61	10	Orange / grey	25	2.750	**2003808**





Cavity wall device box with airtight membrane entries for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5–40 mm.
- 2 x 3 screw domes
- Device screws, clamping straps
- 2 combination pipe entries of Ø 20 and 25 mm
- 4 entries for NYM cables 3 x 1.5 mm
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- Airtight connection with other accessory sockets via connector, type ZH 11-V

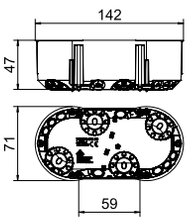
Delivery accessories: 10 x connectors, type ZH 11-V

PP

IP 30 | Ø 68 | 1,5-2,5 mm² | 400 V | 850°

HW Cavity wall device box 47, double

Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 47-DV	68	5-40	47	12	Orange	10	4.230	**2003822**





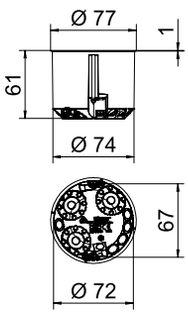
Double cavity wall device box for use in cavity walls with an installation depth of at least 47 mm and a plate thickness of 5 - 40 mm.
- 6 screw domes
- Device screws, clamping straps
- 4 combination pipe entries of Ø 20 and 25 mm
- 4 entries for NYM cables 3 x 1.5 mm
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- Connection with other device boxes via connector, type ZH 11-V

PP

IP 30 | Ø 74 | 1,5-2,5 mm² | 400 V | 850°

HW Cavity wall device box 61, CEE/PERILEX

Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 61-AD	74	5-40	61	9	Orange	10	2.130	**2003818**





CEE/PERILEX cavity wall device box for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5–40 mm.
- 2 screw domes
- Device screws, clamping straps
- 3 combination pipe entries of Ø 20 and 25 mm
- 3 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- 1 entry for NYM cables 3 x 1.5 mm²

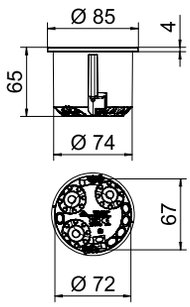
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Accessory and connection sockets

HW Cavity wall device box 61, CEE/PERILEX, with sealing ring

PP





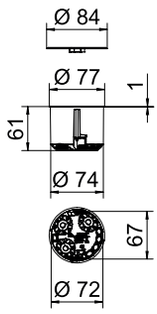
Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 61-AD-IP	74	5-40	61	9	Orange	10	3.290	**2003819**

CEE/PERILEX cavity wall device box with sealing ring, for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5–40 mm.
- 2 screw domes
- Device screws, clamping straps
- 3 combination pipe entries of Ø 20 and 25 mm
- 3 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- 1 entry for NYM cables 3 x 1.5 mm²

HW Cavity wall device box 61, CEE/PERILEX, with cover

PP





Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 61-AD-D	74	5-40	61	9	Orange	10	2.980	**2003820**

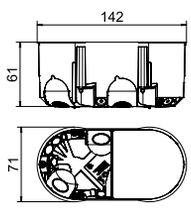
CEE/PERILEX cavity wall device box with cover, for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5–40 mm.
- 2 screw domes
- Device screws, clamping straps
- 3 combination pipe entries of Ø 20 and 25 mm
- 3 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- 1 entry for NYM cables 3 x 1.5 mm²

Electronics sockets

HW Cavity wall electronic box 61, airtight

PP/TPE





Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HE 61-DV-L	68	5-40	61	14	Orange / grey	10	6.190	**2003826**

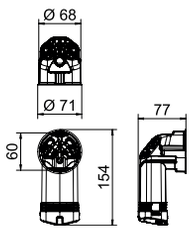
Cavity wall electronic box with membrane entries, cover and partition, for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5–40 mm.
- 6 screw domes
- Device screws, clamping straps
- 4 combination pipe entries of Ø 20 and 25 mm
- 4 entries for NYM cables 3 x 1.5 mm²
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- Airtight connection with other device boxes via connector, type ZH 11-V

PP/TPE

HW Cavity wall electronic box 74, airtight, with elastomer sack

Type	Milling hole Ø mm	Suitable for plate thickness mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HE 74-L	68	5-35	8	Orange / grey	10	4.446	**2003828**

Cavity wall electronic box with membrane entries for additional wiring space, for use in cavity walls with an installation depth of at least 75 mm and a plate thickness of 5 - 35 mm.
- 2 x 3 screw domes
- Device screws, clamping straps
- 2 entries for NYM cables 3 x 1.5 mm²
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- 2 combination pipe entries Ø 20 and 25 mm in the bottom area of the wiring space



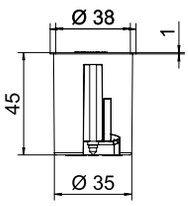


PP/TPE

HW Cavity wall outlet box, airtight

Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 45-WA-LD	35	5-40	45	2	Orange / grey	25	0.990	**2003832**

Airtight cavity wall outlet box for cavity walls, for the mounting of wall luminaires or loud-speakers With cover.
- 1 entry for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 1 entry for NYM cables 3 x 1.5 mm²



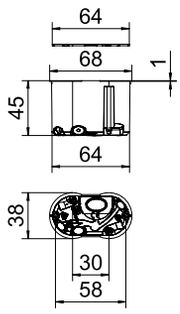


PP/TPE

HW Cavity wall outlet box, double, airtight

Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 45-WAD-LD	35	5-40	45	4	Orange / grey	25	1.930	**2003834**

Airtight, double wall outlet box for cavity walls, for the mounting of wall luminaires or loud-speakers With cover.
- 1 entry for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 3 x 1.5 mm²
- 1 combination pipe entry for Ø 20 and 25 mm

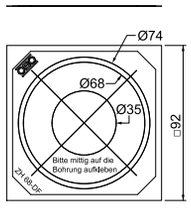


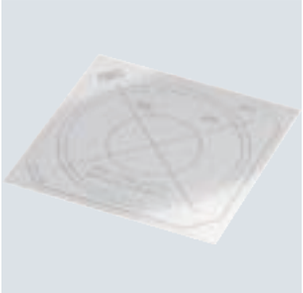


Sealing foil, cavity wall device box

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 68-DF	Transparent	10	0.500	**2003850**

Foil for sealing of installation openings that are cut too large or broken out.

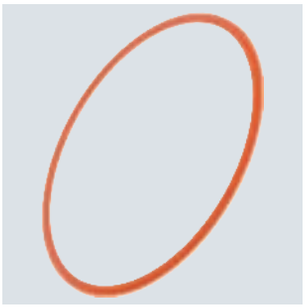


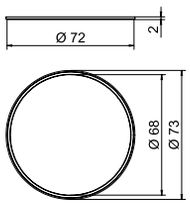


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Accessories, cavity wall

HW Compensation ring



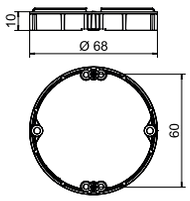


Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 68-AR	Ø68mm	Orange	10	0.050	**2003840**

Compensation ring for cavity wall box Ø 68 mm, to compensate for large or unround drill holes.

HW Compensation ring 10



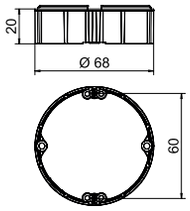


Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 10-AR	Ø68mm, H10mm	Orange	25	0.360	**2003842**

Compensation ring for cavity wall device box Ø 68 mm, to screw on.

HW Compensation ring 20

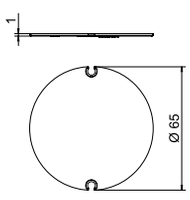




Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 20-AR	Ø68mm, H20mm	Orange	25	0.580	**2003844**

Compensation ring for cavity wall device box Ø 68 mm, to screw on.

Inner fitting, cover cavity wall device box



Type	Ø Max.	Height mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 60-ID	65	1	White	25	1.130	**2003848**

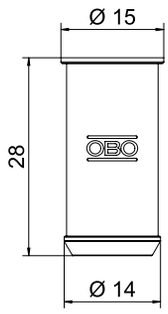
Inner fitting cover for cavity wall device box, to screw on.

PP

HW Connector for cavity wall boxes

Type	Diameter mm	Length mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 11V	14.5	28	Orange	10	0.098	**2003846**

Connector to connect cavity wall boxes and pass cable wires through. Airtight in conjunction with airtight cavity wall boxes.



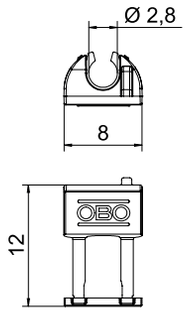


PP

HW Fastening element, thin panelling

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 12-DB	Orange	50	0.012	**2003854**

Fastening element to extend the tensioning area for thin panelling, suitable for panelling thicknesses of up to 0.2 mm.



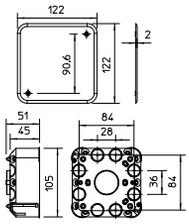


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Cavity wall device boxes

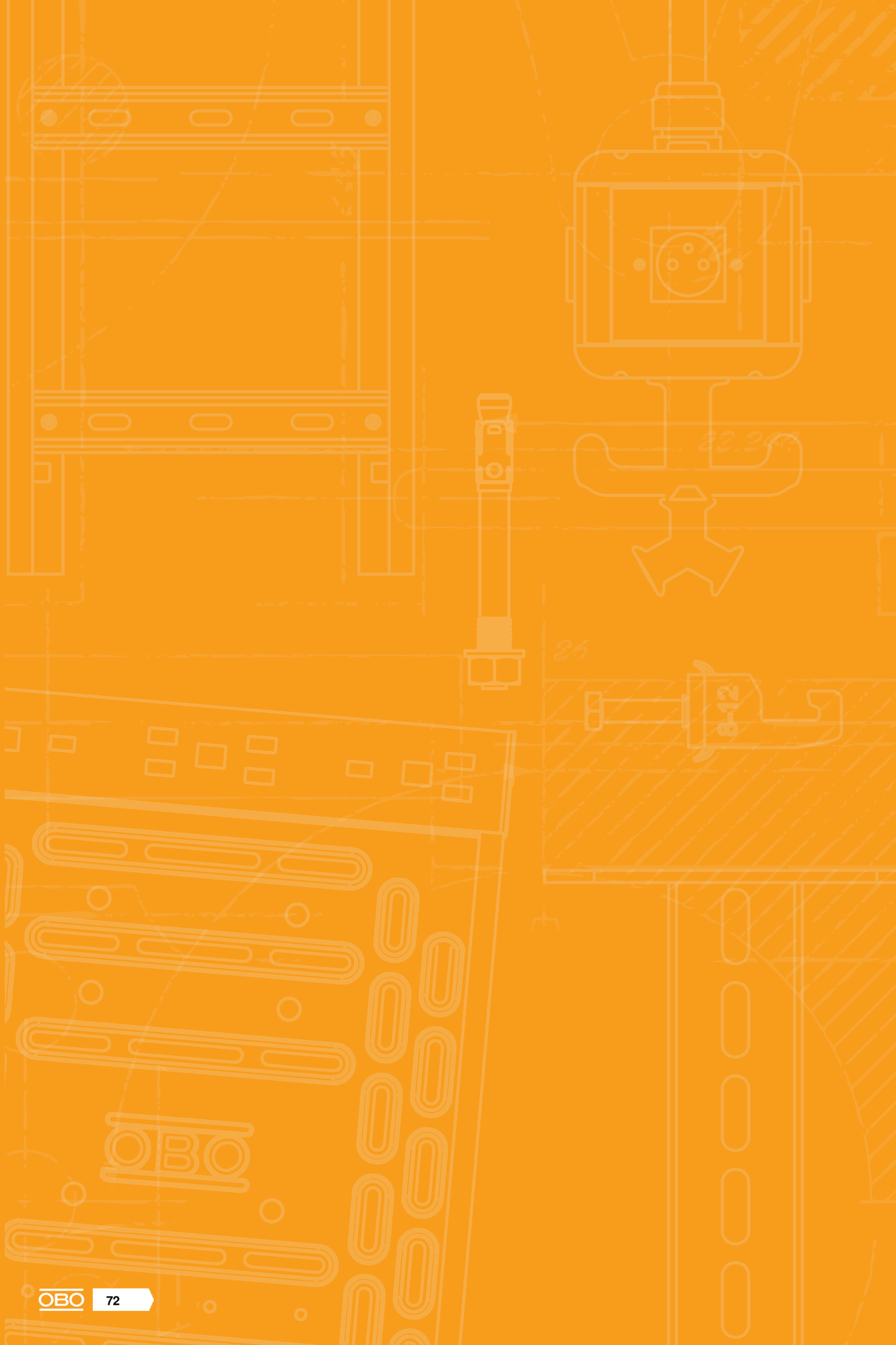
Cavity wall connection box





Type	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HV 100 KD	7-35	50	20	Orange	25	6.300	**2003449**

Cavity wall connection box for use in cavity walls with an installation depth of at least 50 mm and a plate thickness of 7-35 mm. With white cover and cover screws. Suitable for installation of standard rails (hat and support rails) for series terminals.
- 8 entries of Ø 20 mm
- 8 entries for NYM cables 3 x 1.5 mm²
- 4 entries for data cables (extra-low voltage)



Surface-mounted systems



Surface-mounted sockets 74

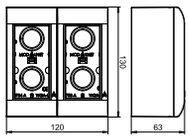
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Modalnet Basic surface-mounted housing

Surface-mounted housing, basic configuration, 2x double

PC





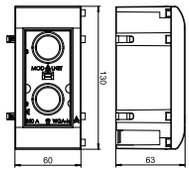
Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
WG-AK RW	Pure white		1	35.000	**6109900**

Basic configuration consisting of two housing bases (right and left side) with two cover frames to accept Modul 45 accessories of 2x module width = 90 mm.

Surface-mounted housing, expansion module, double

PC





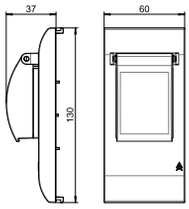
Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
WG-MK RW	Pure white		1	17.500	**6109905**

Extension module consisting of housing base and cover frame to accept Modul 45 accessories of 2x module width = 90 mm.

Cover frame, double, for protective equipment installation

PC





Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
WG-AF2TE RW	Pure white		1	7.500	**6109932**

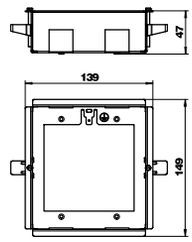
Construction set, protection unit installation consisting of cover with mounting support and transparent cover hood. Allows the installation of protective equipment (two units) such as miniature circuit-breakers or FI protection switches in the Modal net housing.

St FS

Support for cavity wall installation 2x double

Type		Pack Piece	Weight kg/100 pc.	Item no.
WG-UK2		1	31.000	**6109950**

Metal cavity wall support to accept the Modal net housing .



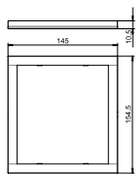


PC

Screen frame for cavity wall installation 3x double

Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
WG-UBR2 RW	Pure white		1	4.400	**6109934**

Screen frame for placing on the cavity wall support .

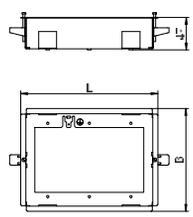


St FS

Support for cavity wall installation 3x double

Type		Pack Piece	Weight kg/100 pc.	Item no.
WG-UK3		1	35.000	**6109952**

Metal cavity wall support to accept the Modal net housing .



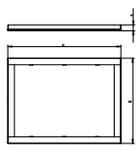


PC

Screen frame for cavity wall installation 3x double

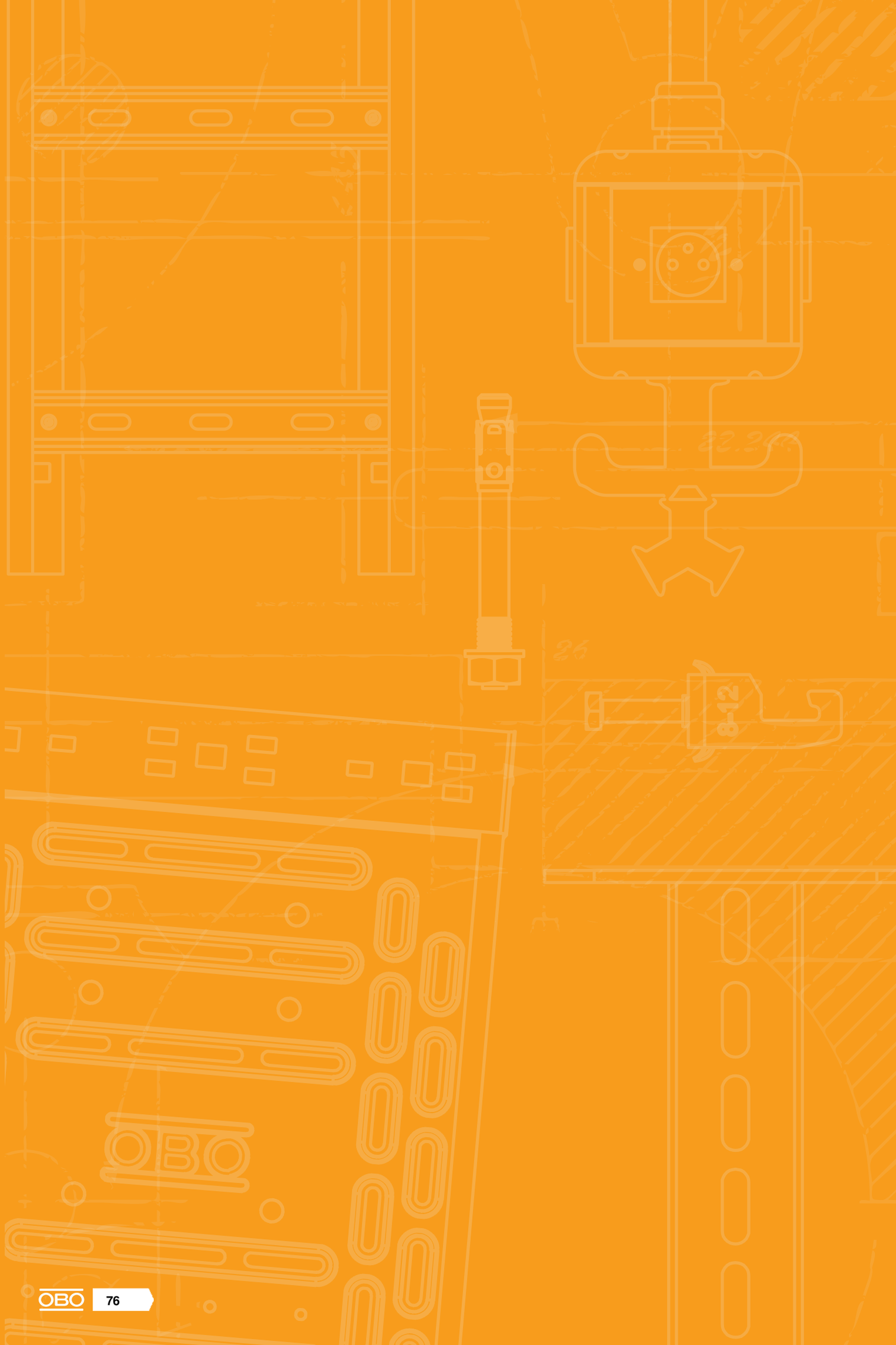
Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
WG-UBR3 RW	Pure white		1	4.500	**6109936**

Screen frame for placing on the cavity wall support .



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Junction boxes


A series 78

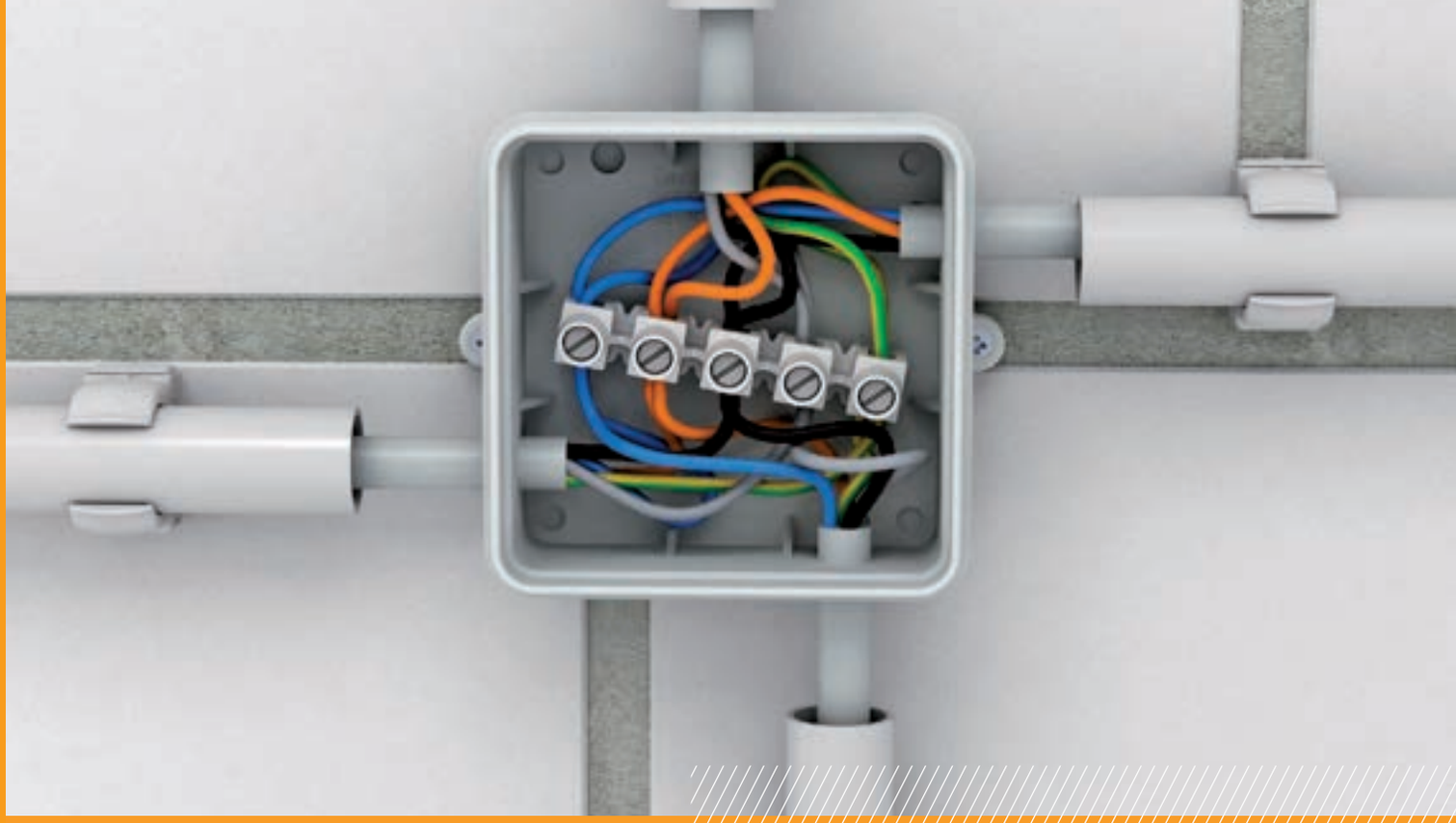

T series 84


X series 112


Mx series 148


Aquasit cold casting compound 152

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Junction boxes A series

Classic and still youthful: The well-known junction boxes of the A series have had a makeover. Halogen-free thermoplastic is just as much of a hallmark of the A series as a tight-fitting clamshell and pre-marked cable entries. A protection rating of IP55 and practical external fastenings round off the profile of the classic item.

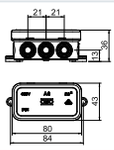


- Halogen-free thermoplastic
- Sturdy external fastenings
- Quick mounting with snug-fitting clamshell
- Suitable for wet rooms, IP55

Pre-marked cable entry
The pre-marked cable entries can be opened with a knife or using the cut-out tool supplied.



Junction box A 6





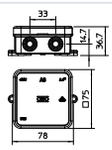


Type	A 6	A 6 HF RW	A 6 HF RO
Colour	Light grey	Pure white	Red
Dimension LxWxH mm	80x43x36	80x43x36	80x43x36
Clear internal dimensions mm	69x32x30	69x32x30	69x32x30
Pack Piece	10	10	10
Weight kg/100 pc.	2.560	2.560	2.560
Item no.	**2000001**	**2000005**	**2000003**

PE Polyethylene

Protection rating IP55, rated voltage 400 V, nominal cross-section 2.5 ÷ mm², 6 entries for cable diameter 5–14 mm
4 entries for cable diameter 5–9 mm.
Clamshell.
Dimensions: 80 x 43 x 36 mm
Clear internal dimensions: 69 x 32 x 30 mm
1 cut-out tool for every 10 boxes

Junction box A 8







Type	A 8	A 8 HF RW	A 8 HF RO
Accessories	without terminal strip	without terminal strip	without terminal strip
Colour	Light grey	Pure white	Red
Dimension LxWxH mm	75x75x36,7	75x75x36,7	75x75x36,7
Clear internal dimensions mm	65x65x32	65x65x32	65x65x32
Pack Piece	10	10	10
Weight kg/100 pc.	3.649	5.140	5.140
Item no.	**2000016**	**2000075**	**2000059**

PE Polyethylene

Protection rating IP55, rated voltage 400 V, nominal cross-section 2.5 ÷ mm², 7 entries for cable diameters of 5–14 mm.
Clamshell.
Dimensions: 75 x 75 x 36.2 mm
Clear internal dimensions: 65 x 65 x 32 mm
1 cut-out tool for every 10 boxes

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Junction box A 11



Type	A 11	A 11 HF RW	A 11 HF RO
Accessories	without terminal strip	without terminal strip	without terminal strip
Colour	Light grey	Pure white	Red
Dimension LxWxH mm	85x85x40	85x85x40	85x85x40
Clear internal dimensions mm	75x75x35	75x75x35	75x75x35
Pack Piece	10	10	10
Weight kg/100 pc.	6.200	6.200	4.530
Item no.	**2000342**	**2000180**	**2000164**

PE Polyethylene

Protection rating IP55, rated voltage 400 V, nominal cross-section 2.5 ÷ mm², 12 entries for cable diameter 5–14 mm.
Clamshell.
Dimensions: 85 x 85 x 40 mm
Clear internal dimensions: 75 x 75 x 35 mm
1 cut-out tool for every 10 boxes

Junction box A 14

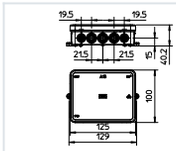


Type	A 14	A 14 HF RW	A 14 HF RO
Accessories	without terminal strip	without terminal strip	without terminal strip
Colour	Light grey	Pure white	Red
Dimension LxWxH mm	100x100x40	100x100x40	100x100x40
Clear internal dimensions mm	90x90x35	90x90x35	90x90x35
Pack Piece	10	10	10
Weight kg/100 pc.	5.855	5.855	5.855
Item no.	**2000378**	**2000390**	**2000386**

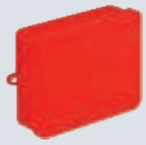
PE Polyethylene

Protection rating IP55, rated voltage 400 V, nominal cross-section 2.5 ÷ mm², 8 entries for cable diameter 5–14 mm
8 entries for cable diameter 5–11 mm.
Clamshell.
Dimensions: 100 x 100 x 40 mm
Clear internal dimensions: 90 x 90 x 35 mm
1 cut-out tool for every 10 boxes

Junction box A 18







Type	A 18	A 18 HF RW	A 18 HF RO
Accessories	without terminal strip	without terminal strip	without terminal strip
Colour	Light grey	Pure white	Red
Dimension LxWxH mm	125x100x40	125x100x40	125x100x40
Clear internal dimensions mm	115x90x35	115x90x35	115x90x35
Pack Piece	10	10	10
Weight kg/100 pc.	6.957	6.957	6.957
Item no.	**2000410**	**2000422**	**2000418**

PE Polyethylene

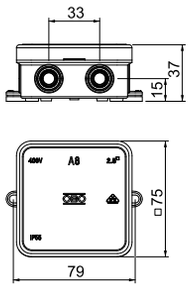
Protection rating IP55, rated voltage 400 V, nominal cross-section 2.5 ÷ mm², 10 entries for cable diameter 5–14 mm
8 entries for cable diameter 5–11 mm.
Clamshell.
Dimensions: 125 x 100 x 40 mm
Clear internal dimensions: 115 x 90 x 35 mm
1 cut-out tool for every 10 boxes

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Junction boxes, A series with terminal strip

Junction box A 8 with terminal strip



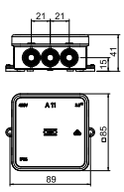


Type	Accessories	Colour	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
A 8 5	1 terminal strip	Light grey	75x75x36,7	65x65x32	10	6.500	**2000024**

Protection rating IP55, nominal voltage 690 V, nominal cross-section 2,5 mm², 7 entries for cable diameter 5–14 mm.
Clamshell.
Dimensions: 75 x 75 x 36,2 mm
Clear internal dimensions: 65x65x32 mm
1 cut-out tool for every 10 boxes

Junction box A 11 with terminal strip





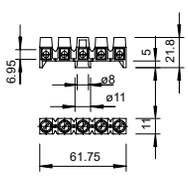
Type	Accessories	Colour	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
A 11 5	1 terminal strip	Light grey	85x85x40	75x75x35	10	7.640	**2000326**

Protection rating IP55, nominal voltage 690 V, nominal cross-section 2,5 mm², 12 entries for cable diameter 5–14 mm.
Clamshell.
Dimensions: 85 x 85 x 40 mm
Clear internal dimensions: 75x75x35 mm
1 cut-out tool for every 10 boxes

Terminal strips

Terminal strip 2.5 mm²





Type	Colour	No. of terminals	Nominal cross-section mm²	Nom. V	Pack Piece	Weight kg/100 pc.	Item no.
689	Natural	5	0.8 - 2.5	660	50	1.502	**2017342**

Brass terminal block, nickel plated, steel screws, electrogalvanised and transparently passivated, nominal cross section 0.8 ÷ 2.5 mm², nominal voltage 660 V, 5-pin, with socket terminals, max. connectable cross sections per terminal: 4 x 2.5 mm², 5 x 1.5 mm² or 6 x 1 mm², unused pins can be disconnected and used as individual terminals.



Junction boxes T series

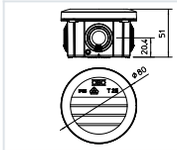
Intelligence is the natural characteristic of the T series: Our developers have used high-quality materials, sensible wall thicknesses and a stable construction to ensure that the T series can stand up to even the hardest conditions. All the boxes are made of halogen-free polypropylene and do not contain fluorine, chlorine or bromine.



- Wide range: Seven sizes, six variants
- High impermeability of IP 66
- High impact resistance - IK 08
- White variants with UV protection for outdoor use
- Flame-resistant: Standard up to 650 °C, special models up to 960 °C
- Halogen-free: Without chlorine, fluorine or bromine



Junction box T 25, plug-in seal





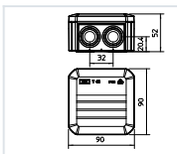


Type	T 25	T 25 RW
Colour	Light grey	Pure white
Entries	4 x M25	4 x M25
Dimension mm	Ø80x51	Ø80x51
Clear internal dimensions mm	Ø63x45	Ø63x45
Pack Piece	5	5
Weight kg/100 pc.	4.190	4.190
Item no.	**2007029**	**2007509**

PP Polypropylene

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Round design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside. With fixed clamping cover. Made from halogen-free and UV-stabilised materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T 40, plug-in seal









Type	T 40	T 40 RW	T 40 RO-LGR
Colour	Light grey	Pure white	Grey/red
Entries	7 x M25	7 x M25	7 x M25
Dimension LxWxH mm	90x90x52	90x90x52	90x90x52
Clear internal dimensions mm	77x77x46	77x77x46	77x77x46
Pack Piece	5	5	5
Weight kg/100 pc.	6.700	6.700	6.700
Item no.	**2007045**	**2007517**	**2007630**

PP Polypropylene

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside. With fixed clamping cover. Made from halogen-free and UV-stabilised materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

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Junction boxes, T series with plug-in seal

Junction box T 60, plug-in seal



Type	T 60	T 60 RW	T 60 RO-LGR	T60 GR-LGR
Colour	Light grey	Pure white	Grey/red	Grey/green
Entries	7 x M25	7 x M25	7 x M25	7 x M25
Dimension LxWxH mm	114x114x57	114x114x57	114x114x57	114x114x57
Clear internal dimensions mm	100x100x48	100x100x48	100x100x48	100x100x48
Pack Piece	5	5	5	5
Weight kg/100 pc.	12.300	12.300	12.300	12.300
Item no.	**2007061**	**2007525**	**2007638**	**2007672**

PP Polypropylene

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T 100, plug-in seal

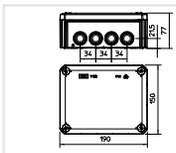


Type	T 100	T 100 RW	T 100 RO-LGR	T 100 M25-M32
Colour	Light grey	Pure white	Grey/red	Light grey
Entries	10 x M25	10 x M25	10 x M25	8 x M25 2 x M32
Dimension LxWxH mm	150x116x67	150x116x67	150x116x67	150x116x67
Clear internal dimensions mm	136x102x57	136x102x57	136x102x57	136x102x57
Pack Piece	1	1	1	1
Weight kg/100 pc.	16.270	16.270	16.270	16.300
Item no.	**2007077**	**2007533**	**2007644**	**2007081**

PP Polypropylene

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T 160, plug-in seal







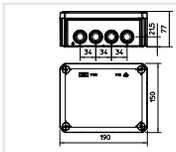


Type	T 160	T 160 RW	T 160 RO-LGR
Colour	Light grey	Pure white	Grey/red
Entries	7 x M25 5 x M32	7 x M25 5 x M32	7 x M25 5 x M32
Dimension LxWxH mm	190x150x77	190x150x77	190x150x77
Clear internal dimensions mm	176x135x67	176x135x67	176x135x67
Pack Piece	1	1	1
Weight kg/100 pc.	30.000	30.000	30.000
Item no.	**2007093**	**2007541**	**2007649**

PP/GF Polypropylene, fibreglass reinforced

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 160, with 10xM32 entries





Type	T 160 M32
Colour	Light grey
Entries	10 x M32
Dimension LxWxH mm	190x150x77
Clear internal dimensions mm	176x135x67
Pack Piece	1
Weight kg/100 pc.	30.000
Item no.	**2007097**

PP/GF Polypropylene, fibreglass reinforced

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

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Junction boxes, T series with plug-in seal

Junction box T 250, plug-in seal

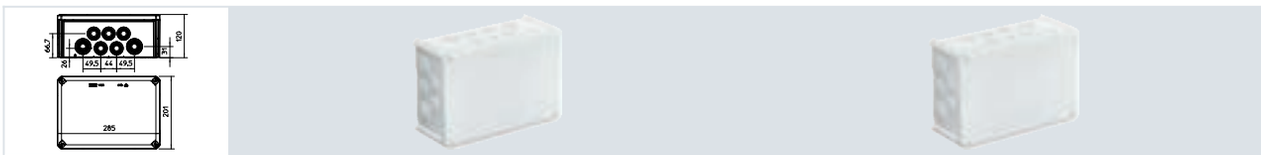


Type	T 250	T 250 RW	T 250 RO-LGR
Colour	Light grey	Pure white	Grey/red
Entries	9 x M25 7 x M32	9 x M25 7 x M32	9 x M25 7 x M32
Dimension LxWxH mm	240x190x95	240x190x95	240x190x95
Clear internal dimensions mm	225x173x86	225x173x86	225x173x86
Pack Piece	1	1	1
Weight kg/100 pc.	50.000	50.000	50.000
Item no.	**2007109**	**2007554**	**2007657**

PP/GF Polypropylene, fibreglass reinforced

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilised materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 350, plug-in seal



Type	T 350	T 350 RW
Colour	Light grey	Pure white
Entries	16 x M32 8 x M40	16 x M32 8 x M40
Dimension LxWxH mm	285x201x120	285x201x120
Clear internal dimensions mm	267x182x110	267x182x110
Pack Piece	1	1
Weight kg/100 pc.	63.000	63.000
Item no.	**2007125**	**2007568**

PP/GF Polypropylene, fibreglass reinforced

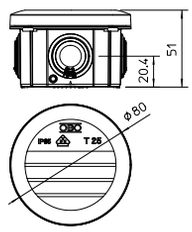
Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 25, plug-in seal, flame-resistant

PP

Type	Colour	Entries	Dimension mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 25 F	Light grey	4 x M25	Ø80x51	Ø63x45	5	4.190	2007312

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Round design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside. With fixed clamping cover. Made from halogen-free materials. Flame-resistant type made from special polypropylene.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695-2-11, test temperature 960 °C. Impact resistance IK07 according to DIN EN 50102.



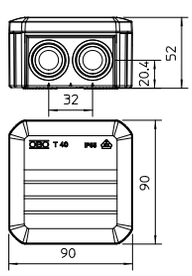


Junction box T 40, plug-in seal, flame-resistant

PP

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 40 F	Light grey	7 x M25	90x90x52	77x77x46	5	6.700	2007320

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside. With fixed clamping cover. Flame-resistant type made from special polypropylene.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695-2-11, test temperature 960 °C. Impact resistance IK07 according to DIN EN 50102.



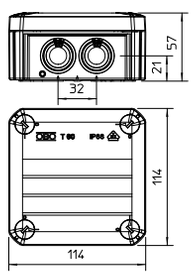


Junction box T 60, plug-in seal, flame-resistant

PP

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 F	Light grey	7 x M25	114x114x57	100x100x48	5	12.300	2007339

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free materials. Flame-resistant type made from special polypropylene.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695-2-11, test temperature 960 °C. Impact resistance IK07 according to DIN EN 50102.



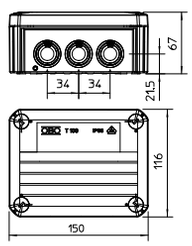


Junction box T 100, plug-in seal, flame-resistant

PP

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 100 F	Light grey	10 x M25	150x116x67	136x102x57	1	16.270	2007347

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free materials. Flame-resistant type made from special polypropylene.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.





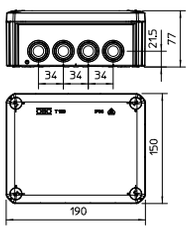
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Junction boxes, T series with plug-in seal, flame-resistant

Junction box T 160, plug-in seal, flame-resistant

PP/GF · IP 66 · M25 · M32 · 16 mm² · 12 · 500 V · IK 05 · 960°





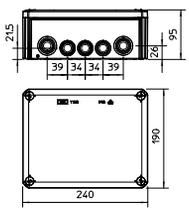
Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 160 F	Light grey	7 x M25 5 x M32	190x150x77	176x135x67		1	30.000	**2007355**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Flame-resistant type made from special polypropylene.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695-2-11, test temperature 960 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 250, plug-in seal, flame-resistant

PP/GF · IP 66 · M25 · M32 · 25 mm² · 16 · 500 V · IK 05 · 960°





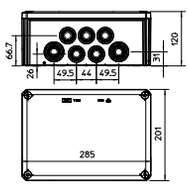
Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 250 F	Light grey	9 x M25 7 x M32	240x190x95	225x173x86		1	50.000	**2007363**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free materials. Flame-resistant type made from special polypropylene.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695-2-11, test temperature 960 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 350, plug-in seal, flame-resistant

PP/GF · IP 66 · M32 · M40 · 35 mm² · 24 · 500 V · IK 05 · 960°





Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 350 F	Light grey	16 x M32 8 x M40	285x201x120	267x182x110		1	63.000	**2007371**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free materials. Flame-resistant type made from special polypropylene.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695-2-11, test temperature 960 °C. Impact resistance IK05 according to DIN EN 50102.

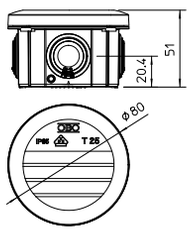
Junction box T 25, plug-in seal, terminal strip

PP

IP 65 | M25 | 2,5 mm² | 4 | 500 V | IK 07 | 650°

Type	Colour	Entries	Dimension mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 25 KL	Light grey	4 x M25	Ø80x51	Ø63x45	5	6.400	**2007430**

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Round design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside. With fixed clamping cover. Made from halogen-free and UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.





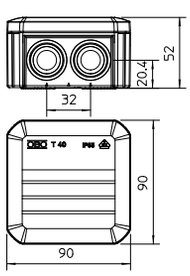
Junction box T 40, plug-in seal, terminal strip

PP

IP 55 | M25 | 4 mm² | 7 | 500 V | IK 07 | 650°

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 40 KL	Light grey	7 x M25	90x90x52	77x77x46	5	8.900	**2007432**

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside. With fixed clamping cover. Made from halogen-free and UV-stabilised materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.





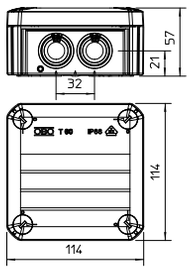
Junction box T 60, plug-in seal, terminal strip

PP

IP 66 | M25 | 6 mm² | 7 | 500 V | IK 07 | 650°

Type	Entries	Colour	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 KL	7 x M25	Light grey	114x114x57	100x100x48	5	16.700	**2007434**

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.





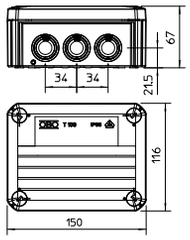
Junction box T 100, plug-in seal, terminal strip

PP

IP 66 | M25 | 10 mm² | 10 | 500 V | IK 07 | 650°

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 100 KL	Light grey	10 x M25	150x116x67	136x102x57	1	40.000	**2007436**

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.



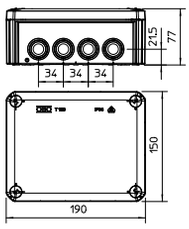


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Junction boxes, T series with plug-in seal and terminal strip

Junction box T 160, plug-in seal



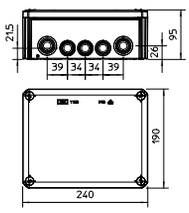


Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 160 KL	Light grey	7 x M25 5 x M32	190x150x77	176x135x67		1	64.200	**2007440**

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 250, plug-in seal, terminal strip



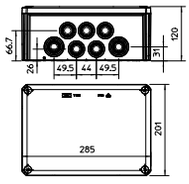


Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 250 KL	Light grey	9 x M25 7 x M32	240x190x95	225x173x86		1	79.500	**2007444**

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 350, plug-in seal, terminal strip





Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 350 KL	Light grey	16 x M32 8 x M40	285x201x120	267x182x110		1	95.700	**2007448**

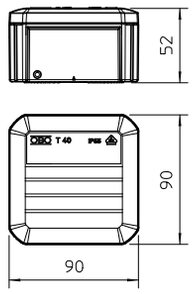
Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 40, closed

PP

Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 40 OE	Light grey	90x90x52	77x77x46		5	6.300	2007223

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. With fixed clamping cover. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.



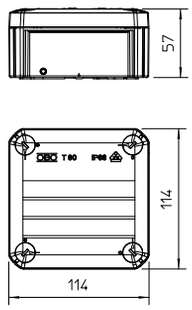


Junction box T 60, closed

PP

Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 60 OE	Light grey	114x114x57	100x100x46		5	12.000	2007239

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK08 according to DIN EN 50102.



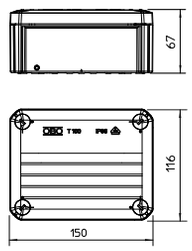


Junction box T 100, closed

PP

Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 100 OE	Light grey	150x116x67	136x102x57		1	16.200	2007255

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.



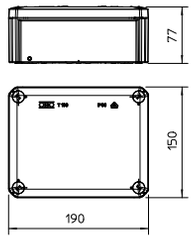


Junction box T 160, closed

PP/GF

Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 160 OE	Light grey	190x150x77	176x135x67		1	30.000	2007271

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.





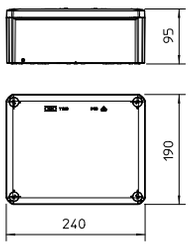
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Junction boxes, T series closed

Junction box T 250, closed

PP/GF





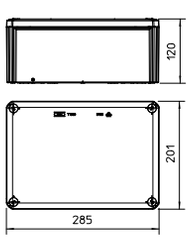
Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 250 OE	Light grey	240x190x95	225x173x86		1	48.300	**2007287**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 350, closed

PP/GF





Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 350 OE	Light grey	285x201x120	267x182x110		1	58.800	**2007303**

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

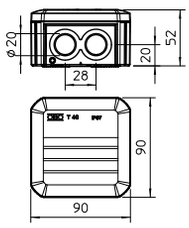
PP

CE 500 V IP 67 M20 IK 07 4 mm² 7 Halogenfrei 650°

Junction box T40 with pre-marking, closed

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 40 M20	Light grey	7 x Ø20	90x90x52	77x77x46	5	6.100	**2007900**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with knock-out entries to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. With fixed clamping cover. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.





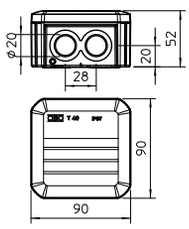
PP

CE 500 V IP 67 M20 IK 07 4 mm² 7 Halogenfrei 650°

Junction box T40, with knock-out entries, with terminal strip

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 40 M20 KL	Light grey	7 x Ø20	90x90x52	77x77x46	5	8.200	**2007904**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with knock-out entries to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. With fixed clamping cover. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.





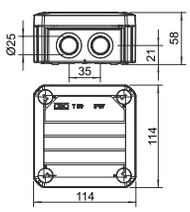
PP

CE 500 V IP 67 6 mm² 7 M25 IK 07 Halogenfrei 650°

Junction box T60, with knock-out entries

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 M25	Light grey	7 x Ø25	114x114x57	100x100x48	5	12.300	**2007926**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with knock-out entries to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. With fixed clamping cover. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.





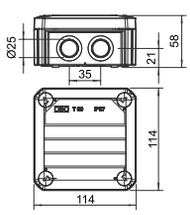
PP

CE 500 V IP 67 6 mm² 7 M25 IK 07 Halogenfrei 650°

Junction box T60, with knock-out entries

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 M25 RO-LGR	Grey/red	7 x Ø25	114x114x57	100x100x48	5	12.300	**2007927**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with knock-out entries to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. With fixed clamping cover. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.



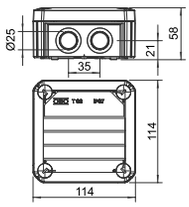


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Junction boxes, T series with knock-out entries

Junction box T60, with knock-out entries



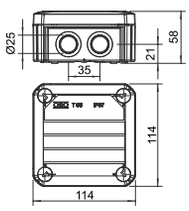


Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 M20	Light grey	7 x Ø20	114x114x57	100x100x48	5	12.100	**2007910**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with knock-out entries to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. With fixed clamping cover. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T60, with knock-out entries, with terminal strip





Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 M20 KL	Light grey	7 x Ø20	114x114x57	100x100x48	5	16.500	**2007914**

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Square design with knock-out entries to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. With fixed clamping cover. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

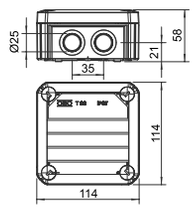
PP

CE 500 V IP 67 M20 6 mm² 7 IK 07 T Halogenfrei 650°

Junction box T60, with knock-out entries and 3 x V-TEC VM20 + locknuts

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 M20 NL	Light grey	7 x Ø20	114x114x57	100x100x48	5	15.100	**2007918**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with knock-out entries to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Including 3 cable glands V-TEC M20 with locknuts.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.



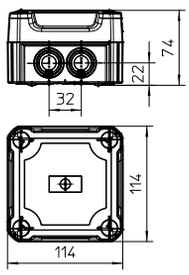


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Junction boxes, T series with raised cover and plug-in seals

Junction box T60, plug-in seal, elevated cover



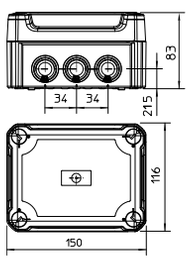


Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 60 HD LGR	7xM25	114x114x74	100x100x65		1	17.180	**2007710**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T100, plug-in seal, elevated cover



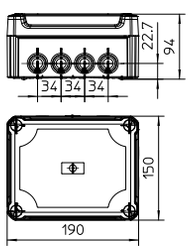


Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 100 HD LGR	10xM25	150x116x83	136x102x74		1	22.550	**2007712**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T160, plug-in seal, elevated cover





Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 160 HD LGR	7xM25 5xM32	190x150x94	176x135x84		1	34.180	**2007714**

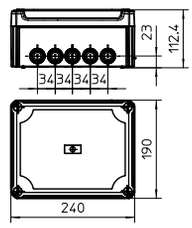
Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

PP/PC

Junction box T250, plug-in seal, elevated cover

Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 250 HD LGR	9xM25 7xM32	240x190x112	225x173x103		1	52.010	**2007716**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.



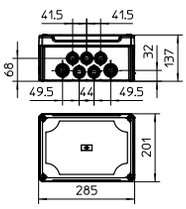


PP/PC

Junction box T350, plug-in seal, elevated cover

Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 350 HD LGR	16xM32 8xM40	285x201x137	267x182x127		1	72.760	**2007718**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.





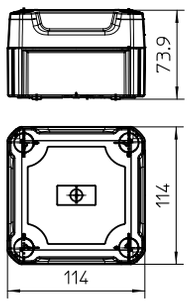
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Junction boxes, T series with raised cover, closed

Junction box T60, closed, elevated cover

PP/PC



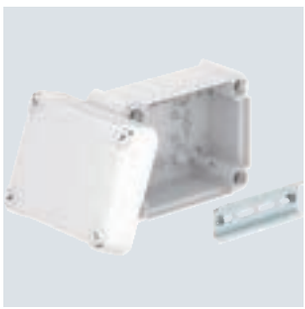


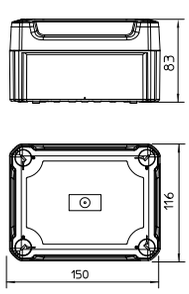
Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 OE HD LGR	None	114x114x74	100x100x63	1	16.600	**2007730**

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T100, closed, elevated cover

PP/PC





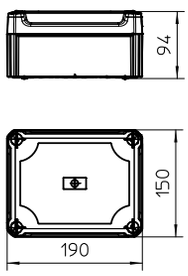
Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 100 OE HD LGR	None	150x116x83	136x102x74	1	23.650	**2007732**

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T160, closed, elevated cover

PP/PC





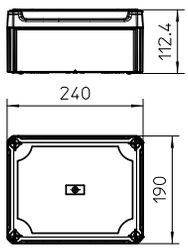
Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 160 OE HD LGR	None	190x150x94	176x135x84	1	33.920	**2007734**

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK04 according to DIN EN 50102.

Junction box T250, closed, elevated cover

PP/PC





Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 250 OE HD LGR	None	240x190x112	225x173x102	1	50.570	**2007736**

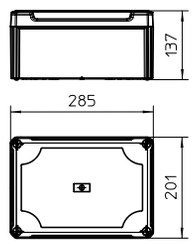
Closed junction box for the connection of cables in indoor and protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option of fastening inside and to mount via the corner domes. High cover with quick lock, sealable. Made from halogen-free, UV-stabilised materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

PP/PC

Junction box T350, closed, elevated cover

Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 350 OE HD LGR	None	285x201x137	267x182x127	1	68.660	**2007738**

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.



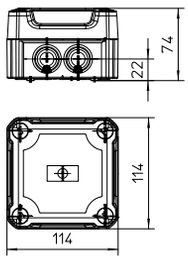


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Junction boxes, T series with raised transparent cover and plug-in seal

Junction box T60, with plug-in seal, transparent elevated cover

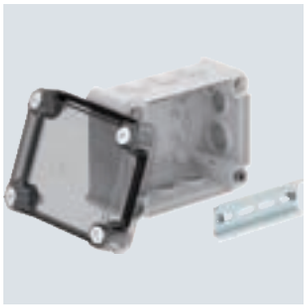


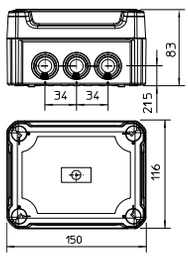


Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 60 HD TR	7xM25	114x114x74	100x100x65		1	17.180	**2007750**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T100, with plug-in seal, transparent elevated cover

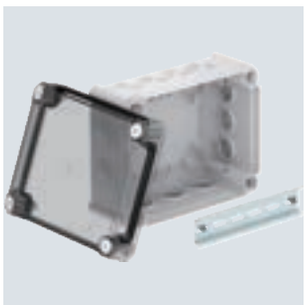


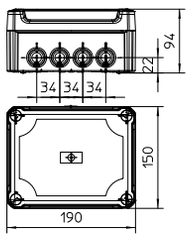


Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 100 HD TR	10xM25	150x116x83	136x102x74		1	22.550	**2007752**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T160, with plug-in seal, transparent elevated cover





Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 160 HD TR	7xM25 5xM32	190x150x94	176x135x84		1	34.180	**2007754**

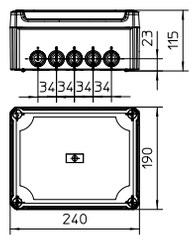
Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

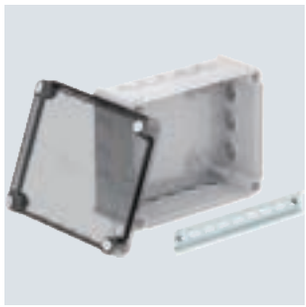
PP/PC

Junction box T250, with plug-in seal, transparent elevated cover

Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 250 HD TR	9xM25 7xM32	240x190x112	225x173x103		1	52.010	**2007756**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.



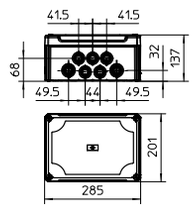


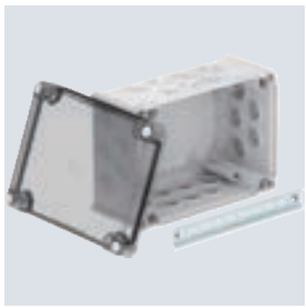
PP/PC

Junction box T350, with plug-in seal, transparent elevated cover

Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 350 HD TR	16xM32 8xM40	285x201x137	267x182x127		1	72.760	**2007758**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.





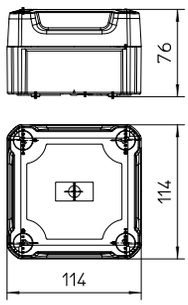
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Junction boxes, T series with raised transparent cover, closed

Junction box T60, closed, transparent elevated cover

PP/PC



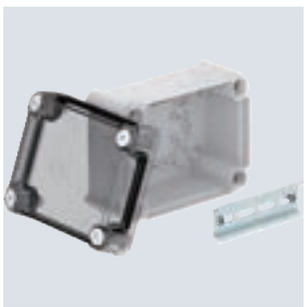


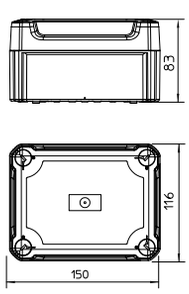
Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 OE HD TR	None	114x114x74	100x100x63	1	16.600	**2007770**

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T100, closed, transparent elevated cover

PP/PC



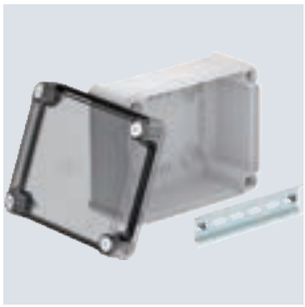


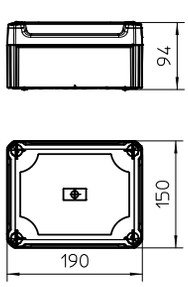
Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 100 OE HD TR	None	150x116x83	136x102x74	1	23.650	**2007772**

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T160, closed, transparent elevated cover

PP/PC



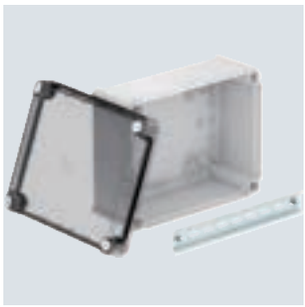


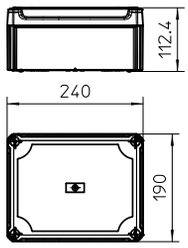
Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 160 OE HD TR	None	190x150x94	176x135x84	1	33.920	**2007774**

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK04 according to DIN EN 50102.

Junction box T250, closed, transparent elevated cover

PP/PC





Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 250 OE HD TR	None	240x190x112	225x173x102	1	50.570	**2007776**

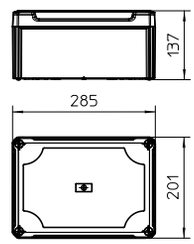
Closed junction box for the connection of cables in indoor and protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option of fastening inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free, UV-stabilised materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

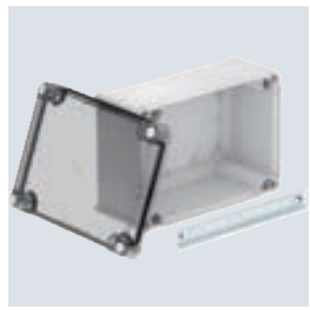
PP/PC

Junction box T350, closed, transparent elevated cover

Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 350 OE HD TR	None	285x201x137	267x182x127		1	68.660	**2007778**

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

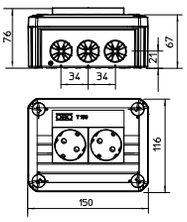




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Junction box T100, 2 Modul 45 sockets in cover, 1-pin

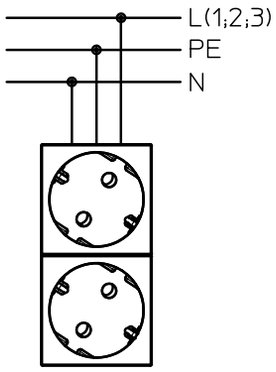




Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 100 2MSD WS	Light grey	10	150x116x67	136x102x57	1	25.850	**2007821**

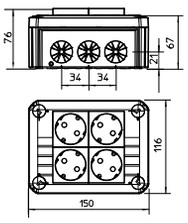
Junction box for the connection of cables indoors and in protected outdoor areas. Rectangular design with knock-out entries to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option of fastening inside and to mount via the corner domes. Cover with quick lock, sealable with retainer and 2 Modul45 sockets. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C.

Connection options



T 100 junction box, 4 Modul 45 sockets in cover, 2-pole

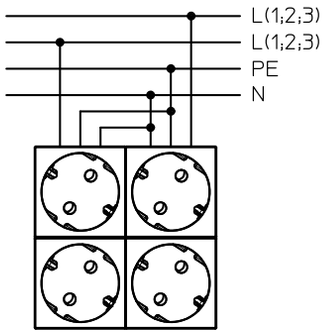




Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 100 4MSD WS	Light grey	10	150x116x67	136x102x57	1	35.200	**2007825**

Junction box for the connection of cables indoors and in protected outdoor areas. Rectangular design with knock-out entries to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick-lock, sealable with retainer and 4 Modul45 sockets. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C.

Connection options

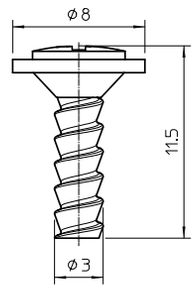


St G

Fastening pin for mounting plates

Type		Pack Piece	Weight kg/100 pc.	Item no.
T-S MST		100	0.090	2007831

Metal fastening pin for fastening the T series onto mounting plates or other thin-walled supporting structures. Mounted by simply pressing the bolt into the fastening holes in the T series. Easy removal with a screw thread.



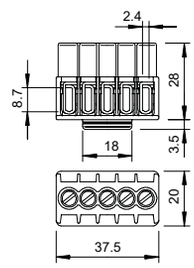


PA

Terminal strip 1–4 mm², junction box, T series

Type	Colour	No. of terminals	Nominal cross-section mm²	Nom. V		Pack Piece	Weight kg/100 pc.	Item no.
KL-T 01-04	Light grey	5	1-4	400		10	2.100	2016180

Terminals and screws made of steel, galvanised and transparent-chromated, nominal cross-section 1 ÷ 4 mm², rated voltage 400 V, five-pole, with socket terminals, max. connectable cross-sections per terminal: 4x2.5 mm², 5x1.5 mm² or 6x1 mm².



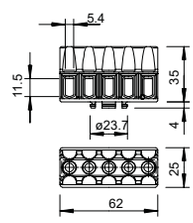


PA

Terminal strip 1.5–6 mm², junction box, T series, X series

Type	Colour	No. of terminals	Nominal cross-section mm²	Nom. V		Pack Piece	Weight kg/100 pc.	Item no.
KL-T 02-06	Light grey	5	1.5-6	400		10	4.380	2016185

Terminals and screws made of steel, galvanised and transparent-chromated, nominal cross-section 1.5 ÷ 6 mm², rated voltage 400 V, five-pole, with socket terminals, max. connectable cross-sections per terminal: 3x6 mm², 4x4 mm² or 6x2.5 mm².



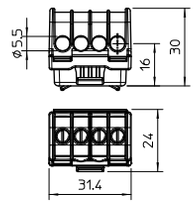


PA

Terminal strip 6–16 mm², junction box, T series, X series

Type	Colour	No. of terminals	Nominal cross-section mm²	Nom. V		Pack Piece	Weight kg/100 pc.	Item no.
KL-T 06-16	Light grey	4	6-16	400		10	1.970	2016190

Brass terminals, steel screws, electrogalvanised and transparently passivated, nominal cross-section 6 ÷ 16 mm², nominal voltage 400 V, 1-pin, with terminal sockets, max. connectable conductor per terminal 4 x 16 mm², 4 x 10 mm², 8 x 6 mm² or 12 x 4 mm².

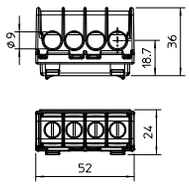




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Terminal strip 16–35 mm², junction box, T series, X series

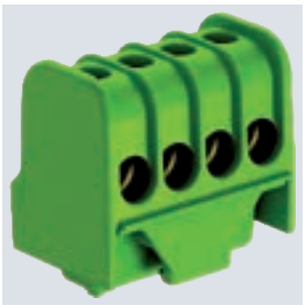


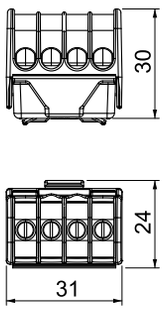


Type	Colour	No. of terminals	Nominal cross-section mm²	Nom. V	Pack Piece	Weight kg/100 pc.	Item no.
KL-T 16-35	Light grey	4	16-35	400	10	5.630	**2016195**

Brass terminals, steel screws, electrogalvanised and transparently passivated, nominal cross-section 16 ÷ 35 mm², nominal voltage 400 V, 1-pin, with terminal sockets, max. connectable conductor per terminal 4 x 35 mm², 4 x 25 mm², 8 x 16 mm² or 12 x 10 mm².

Protective conductor terminal, with screw contacts, 4 terminals

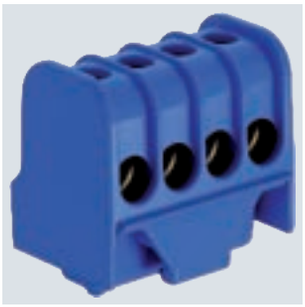


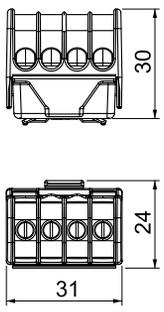


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KL-DBS4x16GN	Green	10	1.980	**2016250**

Protective conductor connection terminal strip, brass, steel screws, electrogalvanised and transparently passivated, nominal cross-section 6 ÷ 16 mm², nominal voltage 400 V, 1-pole, with terminal sockets, max. connectable conductors per terminal 4 x 16 mm², 4 x 10 mm², 8 x 6 mm² or 12 x 4 mm².

Neutral conductor terminal, with screw contacts, 4 terminals



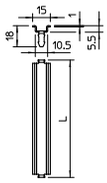


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KL-DBN4x16BL	Blue	10	1.980	**2016255**

Neutral conductor connection terminal, brass, steel screws, electrogalvanised and transparently passivated, nominal cross-section 6 ÷ 16 mm², nominal voltage 400 V, 1-pole, with terminal sockets, max. connectable conductors per terminal 4 x 16 mm², 4 x 10 mm², 8 x 6 mm² or 12 x 4 mm².

Hat profile rail 15 x 5 mm





Type	Version	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
46277 T160 Q GTP	For T160 crosswise + T100 lengthwise	99	10	1.770	**1115270**
46277 T250 Q GTP	For T250 crosswise + T160 lengthwise	139	10	2.500	**1115274**
46277 T250 L GTP	For T 250 lengthwise	189	10	3.270	**1115278**
46277 T350 Q GTP	For T 350 crosswise	161	10	2.767	**1115282**
46277 T350 L GTP	For T 350 lengthwise	168	10	3.000	**1115286**

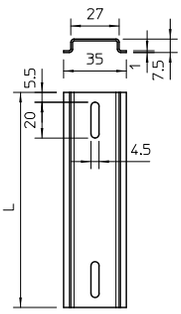
Hat profile rail 15 x 5 mm to DIN EN 60715 (formerly DIN EN 50045).

St FS

Hat profile rail 35 x 7.5 mm

Type	Version	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
2069 T100 GTP	For T100 lengthwise + T160 crosswise	118	10	4.140	**1115382**
2069 T160 GTP	For T160 lengthwise + T250, T350 crosswise	157	10	5.520	**1115384**
2069 T250 GTP	For T 250 lengthwise	206	10	7.107	**1115386**
2069 T350 GTP	For T 350 lengthwise	245	10	8.450	**1115388**
2069 T60 GTP	For T60 lengthwise + T100 crosswise	89	10	3.070	**1115380**

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).





TPE

M25 M32 M40 IP 66

EDK plug-in seal

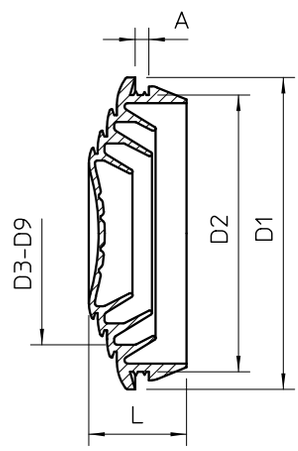
Type	Size	For Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
EDK 25 LGR	M25	0-22	Light grey	100	0.214	**2011638**
EDK 32 LGR	M32	0-27	Light grey	50	0.328	**2011646**
EDK 40 LGR	M40	0-34	Light grey	25	0.534	**2011654**
EDK 25 RW	M25	0-22	Pure white	100	0.214	**2011689**
EDK 32 RW	M32	0-27	Pure white	50	0.328	**2011697**
EDK 40 RW	M40	0-34	Pure white	25	0.534	**2011700**

The plug-in seal can be cut back to suit the relevant cable diameter.



Type	Dim. L mm	Dim. A mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	Dim. D5 mm	Dimension D6 mm	Dimension D7 mm	Dimension D8 mm	Dimension D9 mm
EDK 25 LGR	10.1	2.2	29.5	25.4	5	10	15	18	22	–	–
EDK 32 LGR	11.4	2.2	36.4	32.3	5	10	15	18	22	27	–
EDK 40 LGR	13.4	2.2	44.1	40.2	5	10	15	18	22	27	34
EDK 25 RW	10.1	2.2	29.5	25.4	5	10	15	18	22	–	–
EDK 32 RW	11.4	2.2	36.4	32.3	5	10	15	18	22	27	–
EDK 40 RW	13.4	2.2	44.1	40.2	5	10	15	18	22	27	34

Dimensions



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Plug-in seal for pipes, T-series junction box, light grey

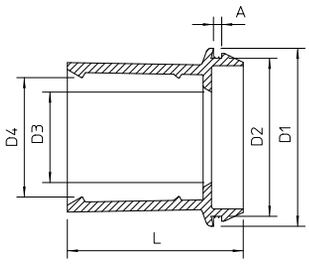
TPE
IP 55 | M25 | M32 | M40



Type	Size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
EDR 25 16-20 LGR	M25	Light grey	50	0.520	**2011506**
EDR 25 20-25 LGR	M25	Light grey	50	0.680	**2011514**
EDR 32 25-32 LGR	M32	Light grey	50	1.170	**2011530**
EDR 40 32-40 LGR	M40	Light grey	25	2.200	**2011546**

Plug-in seal for junction boxes for direct insertion of metric pipes

Dimensions

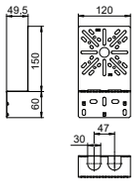


Type	Dim. L mm	Dim. A mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm
EDR 25 16-20 LGR	30	2.2	29.5	25.3	15	18.4
EDR 25 20-25 LGR	30	2.2	29.5	25.3	18.5	24.2
EDR 32 25-32 LGR	36	2.2	37	32.3	24	31.2
EDR 40 32-40 LGR	49	2.2	46	42.3	31	39.2

Mounting plate, angled

St | FS | DD





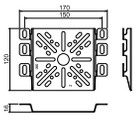
Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP WI KL. FS	210	120	1	20.200	**7084765**
MP WI KL. DD	210	120	1	20.200	**7085111**

Please order the truss-head bolt, type FRS B6 x 12, separately.
Curved mounting plate, for fixing on the side rail of the cable tray.

Mounting plate

St | FS





Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP UNI FS	120	170	1	13.300	**7084773**

Please order the truss-head bolt, type FRSB 6 x 12, separately.
Mounting plate, for fastening on the side rail of cable support systems.

X-TREME

The X series of the junction boxes



Robust and impact-resistant

For outdoor applications and the toughest conditions

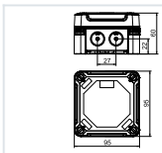
Simple and flexible installation

Tested according to DIN EN 60670 Part 1 and 22

With the new X series, OBO Bettermann can offer a range of junction boxes and empty housings that can withstand even the toughest impacts. The use of special plastics based on high-quality polycarbonate allows the X series to meet the requirements for the highest level of impact resistance, achieving the protection rating of IK09.



Junction box X 01





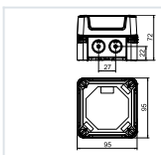


Type	X01 LGR	X01 LGR-TR	X01 SW	X01 SW-RO
Colour	Light grey	Grey/transparent	Graphite black	Black/red
Entries	7 x Ø20	7 x Ø20	7 x Ø20	7 x Ø20
Dimension LxWxH mm	95x95x60	95x95x60	95x95x60	95x95x60
Clear internal dimensions mm	85x85x45	85x85x45	85x85x45	85x85x45
Pack Piece	1	1	1	1
Weight kg/100 pc.	16.000	16.000	16.000	16.000
Item no.	**2005000**	**2005050**	**2005110**	**2005140**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Junction box X 02







Type	X02 LGR	X02 LGR-TR	X02 SW	X02 SW-RO
Colour	Light grey	Grey/transparent	Graphite black	Black/red
Entries	7 x Ø20	7 x Ø20	7 x Ø20	7 x Ø20
Dimension LxWxH mm	95x95x72	95x95x72	95x95x72	95x95x72
Clear internal dimensions mm	85x85x57	85x85x57	85x85x57	85x85x57
Pack Piece	1	1	1	1
Weight kg/100 pc.	17.800	17.800	17.800	17.800
Item no.	**2005004**	**2005054**	**2005114**	**2005144**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

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Junction boxes, X series with knock-out entries and plug-in seals

Junction box X 04





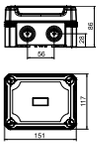
Type	X04 LGR	X04 LGR-TR	X04 SW	X04 SW-RO
Colour	Light grey	Grey/transparent	Graphite black	Black/red
Entries	7 x Ø20/25	7 x Ø20/25	7 x Ø20/25	7 x Ø20/25
Dimension LxWxH mm	114x114x78	114x114x78	114x114x78	114x114x78
Clear internal dimensions mm	102x102x60	102x102x60	102x102x60	102x102x60
Pack Piece	1	1	1	1
Weight kg/100 pc.	26.600	26.600	26.600	26.600
Item no.	**2005008**	**2005058**	**2005118**	**2005148**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Junction box X 06





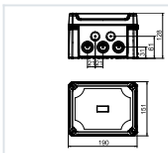


Type	X06 LGR	X06 LGR-TR	X06 SW	X06 SW-RO
Colour	Light grey	Grey/transparent	Graphite black	Black/red
Entries	4 x Ø20/25, 4 x Ø20/25/32	4 x Ø20/25, 4 x Ø20/25/32	4 x Ø20/25, 4 x Ø20/25/32	4 x Ø20/25, 4 x Ø20/25/32
Dimension LxWxH mm	151x117x87	151x117x87	151x117x87	151x117x87
Clear internal dimensions mm	137x105x68	137x105x68	137x105x68	137x105x68
Pack Piece	1	1	1	1
Weight kg/100 pc.	33.500	33.500	33.500	33.500
Item no.	**2005012**	**2005062**	**2005122**	**2005152**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Junction box X 10









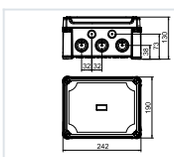


Type	X10 LGR	X10 LGR-TR	X10 SW	X10 SW-RO
Colour	Light grey	Grey/transparent	Graphite black	Black/red
Entries	10 x Ø20/25/32	10 x Ø20/25/32	10 x Ø20/25/32	10 x Ø20/25/32
Dimension LxWxH mm	191x151x126	191x151x126	191x151x126	191x151x126
Clear internal dimensions mm	177x137x110	177x137x110	177x137x110	177x137x110
Pack Piece	1	1	1	1
Weight kg/100 pc.	59.200	59.200	59.200	59.200
Item no.	**2005016**	**2005066**	**2005126**	**2005156**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Junction box X 16











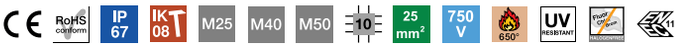
Type	X16 LGR	X16 LGR-TR	X16 SW	X16 SW-RO
Colour	Light grey	Grey/transparent	Graphite black	Black/red
Entries	10 x Ø25/32/40	10 x Ø25/32/40	10 x Ø25/32/40	10 x Ø25/32/40
Dimension LxWxH mm	241x191x126	241x191x126	241x191x126	241x191x126
Clear internal dimensions mm	227x177x110	227x177x110	227x177x110	227x177x110
Pack Piece	1	1	1	1
Weight kg/100 pc.	79.300	79.300	79.300	79.300
Item no.	**2005020**	**2005070**	**2005130**	**2005160**

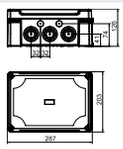
PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

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Junction box X 25







Type	X25 LGR	X25 LGR-TR	X25 SW	X25 SW-RO
Colour	Light grey	Grey/transparent	Graphite black	Black/red
Entries	10 x Ø25/40/50	10 x Ø25/40/50	10 x Ø25/40/50	10 x Ø25/40/50
Dimension LxWxH mm	286x202x126	286x202x126	286x202x126	286x202x126
Clear internal dimensions mm	271x187x110	271x187x110	271x187x110	271x187x110
Pack Piece	1	1	1	1
Weight kg/100 pc.	96.500	96.500	96.500	96.500
Item no.	**2005024**	**2005074**	**2005134**	**2005164**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

PC

CE IP 67 IK 09 M20 M25 8 6 mm² 750 V M32 650° UV RESISTANT Halogen Free H1

Junction box X 06 with main terminal block

Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X06 H25 GP4 LGR	Light grey	4 x Ø20/25, 4 x Ø20/25/32	1	56.800	**2005304**

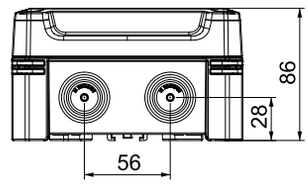


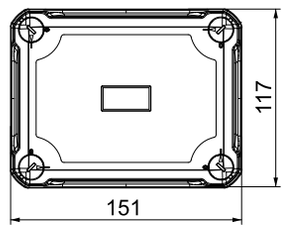
Junction box with terminal for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including 4-pole main terminal block with 2 x 35 mm² + 2 x 16 mm² cable connection cross-sections per pole. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

In addition, a 4-pin main terminal block with 2 x 25 mm² + 2 x 16 mm² conductor connection cross-sections per pin is included.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X06 H25 GP4 LGR	151x117x87	137x105x68

Dimensions





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Junction boxes, X series with knock-out entries and main cable junction terminal

Junction box X 10 with main terminal block

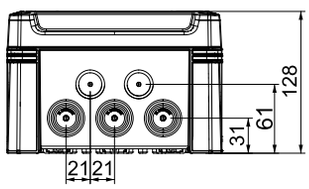


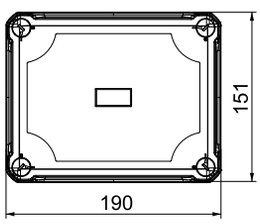
Type	Colour	Entries		Pack Piece	Weight kg/100 pc.	Item no.
X10 H25 GNP5 LGR	Light grey	10 x Ø20/25/32		1	104.000	**2005308**

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Including 5-pole main terminal block with 2 x 25 mm² + 2 x 16 mm² cable connection cross-sections per pole. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

In addition, a 5-pin main conductor branch terminal with 2 x 25 mm² + 2 x 16 mm² conductor connection cross-sections per pin is included.

Dimensions





Type	Dimension LxWxH mm	Clear internal dimensions mm
X10 H25 GNP5 LGR	191x151x126	177x137x110

PC

Junction box X 16 with main terminal block

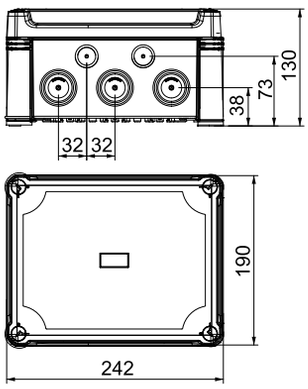
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X16 H25 GNP5 LGR	Light grey	10 x Ø25/32/40	1	111.000	**2005312**
X16 H35 GNP5 LGR	Light grey	10 x Ø25/32/40	1	125.000	**2005316**

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Including 5-pole main terminal block with 2 x 25 mm² + 2 x 16 mm² cable connection cross-sections per pole. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.



Type	Dimension LxWxH mm	Clear internal dimensions mm
X16 H25 GNP5 LGR	241x191x126	227x177x110
X16 H35 GNP5 LGR	241x191x126	227x177x110

Dimensions



PC

Junction box X 25 with main terminal block

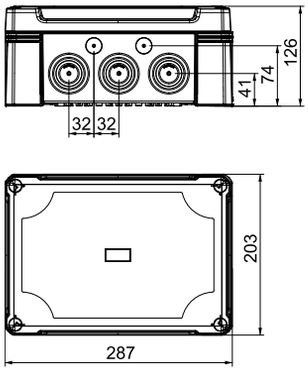
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X25 H35 GNP5 LGR	Light grey	10 x Ø25/40/50	1	145.000	**2005320**
X25 H50 GNP5 LGR	Light grey	10 x Ø25/40/50	1	165.000	**2005324**

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Including 7-pole main terminal block with 2 x 35 mm² + 2 x 25 mm² cable connection cross-sections per pole. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.



Type	Dimension LxWxH mm	Clear internal dimensions mm
X25 H35 GNP5 LGR	286x202x126	271x187x110
X25 H50 GNP5 LGR	286x202x126	271x187x110

Dimensions



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Junction box X 06 with hat profile rail

PC

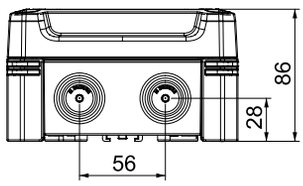
CE IP 67 IK 09 M20 M25 8 6 mm² 750 V
M32 650° UV RESISTANT Flame Check HALOGENFREE 11

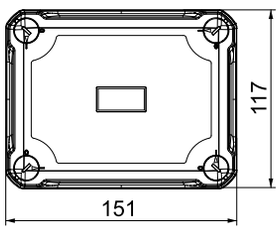


Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X06 R LGR-TR	Grey/transparent	4 x Ø20/25, 4 x Ø20/25/32	1	37.600	**2005092**

Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Transparent cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail type 2069.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions





Type	Dimension LxWxH mm	Clear internal dimensions mm
X06 R LGR-TR	151x117x87	137x105x68

PC

Junction box X 10 with hat profile rail

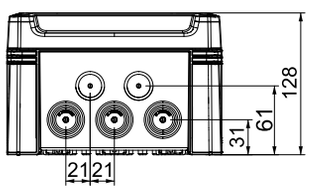
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X10 R LGR-TR	Grey/transparent	10 x Ø20/25/32	1	65.600	**2005096**

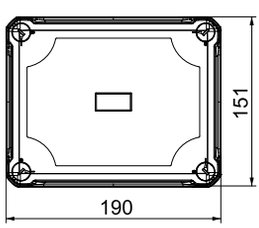


Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Transparent cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail type 2069.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.
With transparent cover and hat profile rail, type 2069, with fastening set.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X10 R LGR-TR	191x151x126	177x137x110

Dimensions





PC

Junction box X 16 with hat profile rail

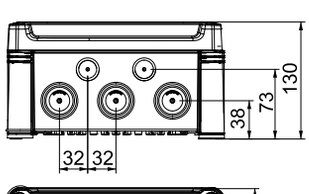
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X16 R LGR-TR	Grey/transparent	10 x Ø25/32/40	1	87.300	**2005100**

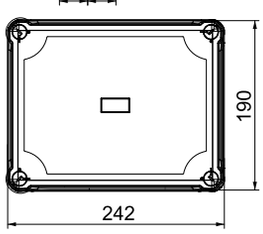


Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Transparent cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail type 2069.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.
With transparent cover and hat profile rail, type 2069, with fastening set.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X16 R LGR-TR	241x191x126	227x177x110

Dimensions





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Junction box X 25 with hat profile rail

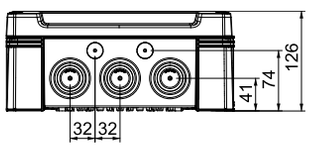


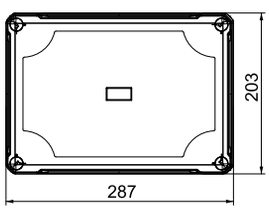
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X25 R LGR-TR	Grey/transparent	10 x Ø25/40/50	1	107.000	**2005104**

Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Transparent cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail type 2069.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

With transparent cover and hat profile rail, type 2069, with fastening set.

Dimensions





Type	Dimension LxWxH mm	Clear internal dimensions mm
X25 R LGR-TR	286x202x126	271x187x110

PC

Junction box X 01 with cable gland

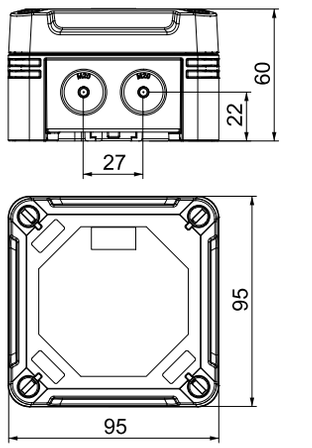
Type	Colour	Entries		Pack Piece	Weight kg/100 pc.	Item no.
X01 G M20 LGR	Light grey	7 x Ø20		1	19.000	**2005030**



Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Including 3 cable glands V-TEC M20 and 3 locknuts.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X01 G M20 LGR	95x95x60	85x85x45

Dimensions



PC

Junction box X 02 with cable gland

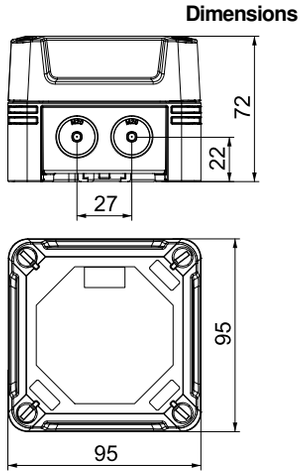
Type	Colour	Entries		Pack Piece	Weight kg/100 pc.	Item no.
X02 G M20 LGR	Light grey	7 x Ø20		1	21.500	**2005032**



Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Including 3 cable glands V-TEC M20 and 3 locknuts.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X02 G M20 LGR	95x95x72	85x85x57

Dimensions



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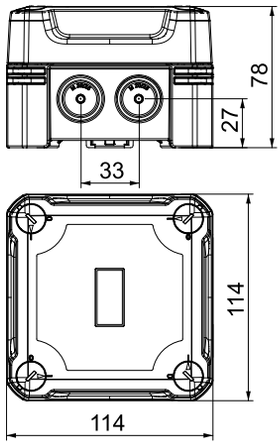
Junction box X 04 with cable gland



Type	Colour	Entries		Pack Piece	Weight kg/100 pc.	Item no.
X04 G M20 LGR	Light grey	7 x Ø20/25		1	31.400	**2005034**

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Including 3 cable glands V-TEC M20 and 3 locknuts.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions



Type	Dimension LxWxH mm	Clear internal dimensions mm
X04 G M20 LGR	114x114x78	102x102x60

PC

Junction box X 01 with terminal strip

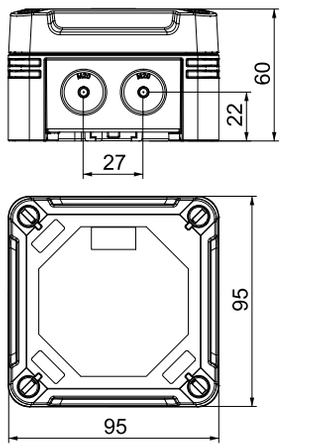
Type	Colour	Entries		Pack Piece	Weight kg/100 pc.	Item no.
X01 T LGR	Light grey	7 x Ø20		1	17.500	**2005190**



Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 5-pole.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X01 T LGR	95x95x60	85x85x45

Dimensions



PC

Junction box X 02 with terminal strip

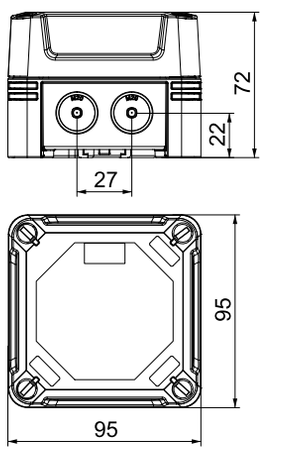
Type	Colour	Entries		Pack Piece	Weight kg/100 pc.	Item no.
X02 T LGR	Light grey	7 x Ø20		1	19.300	**2005194**



Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 5-pole.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X02 T LGR	95x95x72	85x85x57

Dimensions



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Junction box X 04 with terminal strip

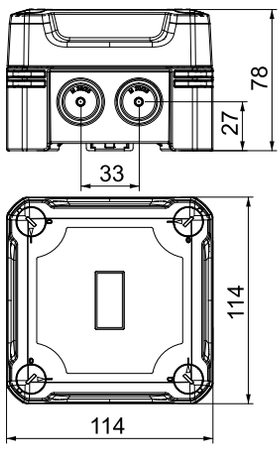




Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X04 T LGR	Light grey	7 x Ø20/25	1	31.600	**2005198**

Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 5-pole.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions



Type	Dimension LxWxH mm	Clear internal dimensions mm
X04 T LGR	114x114x78	102x102x60

PC

Junction box X 06 with terminal strip

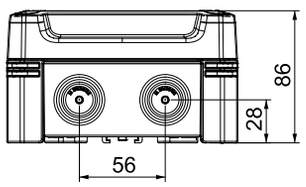
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X06 T LGR	Light grey	4 x Ø20/25, 4 x Ø20/25/32	1	38.000	**2005202**

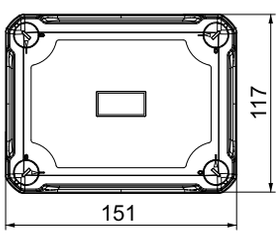
Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 5-pole.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.



Type	Dimension LxWxH mm	Clear internal dimensions mm
X06 T LGR	151x117x87	137x105x68

Dimensions





PC

Junction box X 10 with terminal strip

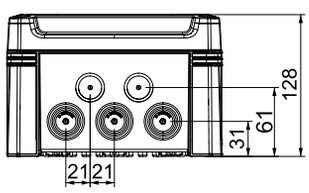
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X10 T LGR	Light grey	10 x Ø20/25/32	1	72.000	**2005206**

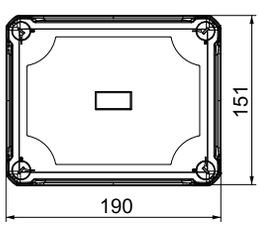
Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With 5 terminal strips of 4 terminals each.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.



Type	Dimension LxWxH mm	Clear internal dimensions mm
X10 T LGR	191x151x126	177x137x110

Dimensions





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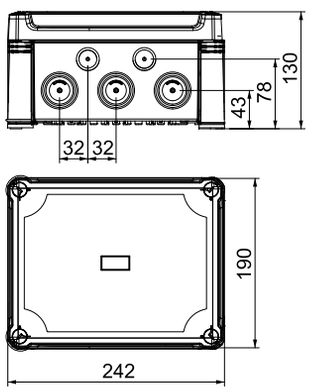
Junction box X 16 with terminal strip



Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X16 T LGR	Light grey	10 x Ø25/32/40	1	97.500	**2005210**

Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. With terminal.
With 5 terminal strips of 4 terminals each.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions



Type	Dimension LxWxH mm	Clear internal dimensions mm
X16 T LGR	241x191x126	227x177x110

PC

CE PC RoHS conform IP 67 IK 08 T M25 M40 M50

10 25 mm² 750 V 650° UV RESISTANT Halogen Free HALOGENFREI

Junction box X 25 with terminal strip

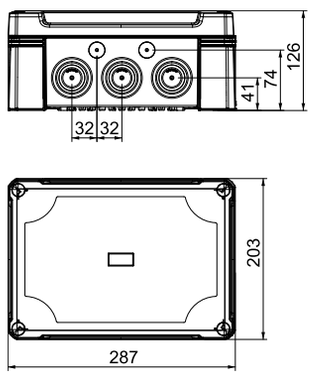
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X25 T LGR	Light grey	10 x Ø25/40/50	1	130.000	**2005214**



Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With 5 terminal strips of 4 terminals each.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X25 T LGR	286x202x126	271x187x110

Dimensions



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Junction boxes, X series with knock-out entries, cable glands and terminal strip

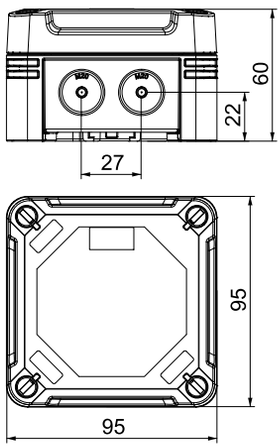
Junction box X 01 with cable gland and terminal strip



Type	Colour	Entries		Pack Piece	Weight kg/100 pc.	Item no.
X01 T G M20 LGR	Light grey	7 x Ø20		1	20.500	**2005220**

Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 3 cable glands V-TEC M20 and 3 locknuts.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions



Type	Dimension LxWxH mm	Clear internal dimensions mm
X01 T G M20 LGR	95x95x60	85x85x45

PC

IP 67 | IK 09 | M20 | 7 | 2,5 mm² | 750 V | 650°

UV RESISTANT

Junction box X 02 with cable gland and terminal strip

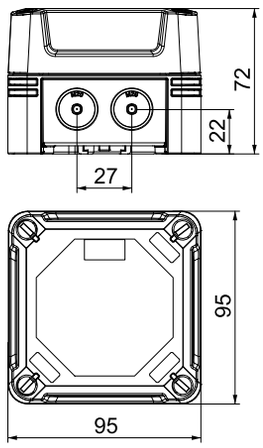
Type	Colour	Entries		Pack Piece	Weight kg/100 pc.	Item no.
X02 T G M20 LGR	Light grey	7 x Ø20		1	23.000	**2005222**

Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 3 cable glands V-TEC M20 and 3 locknuts.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.



Type	Dimension LxWxH mm	Clear internal dimensions mm
X02 T G M20 LGR	95x95x72	85x85x57

Dimensions



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Junction box X 04 with cable glands and terminal strip

PC

CE IP 67 IK 09 M20 M25 7 4 mm² 750 V

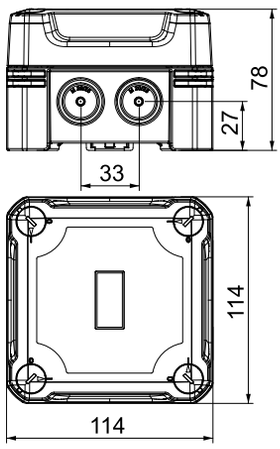
650° UV RESISTANT HALOGENFREI 11



Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X04 T G M25 LGR	Light grey	7 x Ø20/25	1	36.700	**2005224**

Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 3 cable glands V-TEC M20 and 3 locknuts.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions



Type	Dimension LxWxH mm	Clear internal dimensions mm
X04 T G M25 LGR	114x114x78	102x102x60

PC

CE IP 67 IK 09 T M20 M25 8 6 mm² 750 V M32 650° UV RESISTANT HALOGEN FREE H1

Junction box X 06 with cable glands and terminal strip

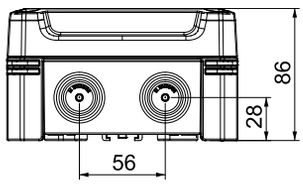
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X06 T G M25 LGR	Light grey	4 x Ø20/25, 4 x Ø20/25/32	1	38.000	**2005226**

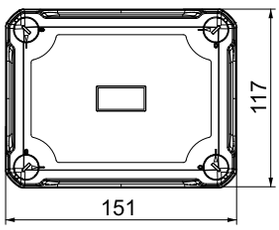
Junction box with terminal for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 3 cable glands V-TEC M25 and 3 locknuts.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.



Type	Dimension LxWxH mm	Clear internal dimensions mm
X06 T G M25 LGR	151x117x87	137x105x68

Dimensions





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Junction boxes, X series with knock-out entries, cable glands and screwless terminals

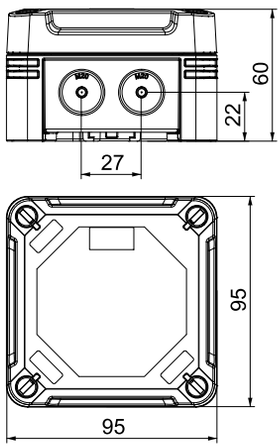
Junction box X 01 with cable gland and plug-in terminals



Type	Colour	Entries		Pack Piece	Weight kg/100 pc.	Item no.
X01 UT G LGR	Light grey	7 x Ø20		1	20.000	**2005240**

Junction box with terminal for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With 3 universal screwless terminals (5-pole), 3 cable glands V-TEC M20 and 3 locknuts. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions



Type	Dimension LxWxH mm	Clear internal dimensions mm
X01 UT G LGR	95x95x60	85x85x45

PC

Junction box X 02 with cable gland and plug-in terminals

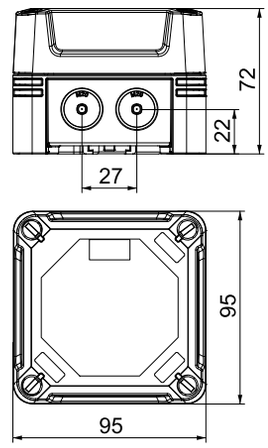
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X02 UT G LGR	Light grey	7 x Ø20	1	23.000	**2005244**



Junction box with terminal for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With 3 universal screwless terminals (5-pole), 3 cable glands V-TEC M20 and 3 locknuts. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X02 UT G LGR	95x95x72	85x85x57

Dimensions



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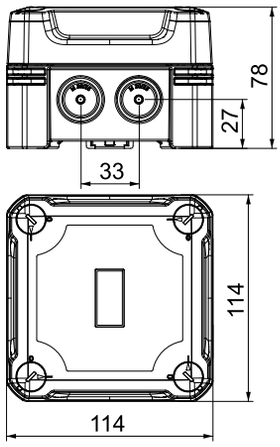
Junction box X 04 with cable glands and plug-in terminals



Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X04 UT G LGR	Light grey	7 x Ø20/25	1	33.500	**2005248**

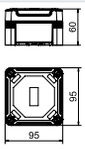
Junction box with terminal for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With 3 universal screwless terminals (5-pole), 3 cable glands V-TEC M20 and 3 locknuts. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions



Type	Dimension LxWxH mm	Clear internal dimensions mm
X04 UT G LGR	114x114x78	102x102x60

Empty housing X 01







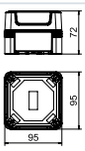


Type	X01C LGR	X01C LGR-TR	X01C SW
Colour	Light grey	Grey/transparent	Graphite black
Dimension LxWxH mm	95x95x60	95x95x60	95x95x60
Clear internal dimensions mm	85x85x45	85x85x45	85x85x45
Pack Piece	1	1	1
Weight kg/100 pc.	15.600	15.600	15.600
Item no.	**2005450**	**2005520**	**2005590**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Empty housing X 02









Type	X02C LGR	X02C LGR-TR	X02C SW
Colour	Light grey	Grey/transparent	Graphite black
Dimension LxWxH mm	95x95x72	95x95x72	95x95x72
Clear internal dimensions mm	85x85x57	85x85x57	85x85x57
Pack Piece	1	1	1
Weight kg/100 pc.	17.500	17.500	17.500
Item no.	**2005454**	**2005524**	**2005594**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

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Empty housing, X series without entries

Empty housing X 04



Type	X04C LGR	X04C LGR-TR	X04C SW
Colour	Light grey	Grey/transparent	Graphite black
Dimension LxWxH mm	114x114x78	114x114x78	114x114x78
Clear internal dimensions mm	102x102x60	102x102x60	102x102x60
Pack Piece	1	1	1
Weight kg/100 pc.	26.300	26.300	26.300
Item no.	**2005458**	**2005528**	**2005598**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Empty housing X 06

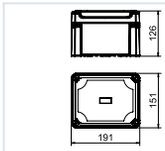


Type	X06C LGR	X06C LGR-TR	X06C SW
Colour	Light grey	Grey/transparent	Graphite black
Dimension LxWxH mm	151x117x87	151x117x87	151x117x87
Clear internal dimensions mm	137x105x68	137x105x68	137x105x68
Pack Piece	1	1	1
Weight kg/100 pc.	33.100	33.100	33.500
Item no.	**2005462**	**2005532**	**2005602**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Empty housing X 10







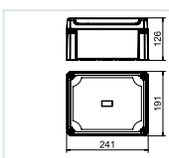


Type	X10C LGR	X10C LGR-TR	X10C SW
Colour	Light grey	Grey/transparent	Graphite black
Dimension LxWxH mm	191x151x126	191x151x126	191x151x126
Clear internal dimensions mm	177x137x110	177x137x110	177x137x110
Pack Piece	1	1	1
Weight kg/100 pc.	58.500	85.500	58.500
Item no.	**2005466**	**2005536**	**2005606**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Empty housing X 16









Type	X16C LGR	X16C LGR-TR	X16C SW
Colour	Light grey	Grey/transparent	Graphite black
Dimension LxWxH mm	241x191x126	241x191x126	241x191x126
Clear internal dimensions mm	227x177x110	227x177x110	227x177x110
Pack Piece	1	1	1
Weight kg/100 pc.	78.400	78.400	78.400
Item no.	**2005470**	**2005540**	**2005610**

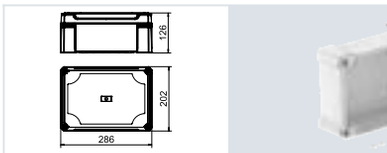
PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

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Empty housing, X series without entries

Empty housing X 25







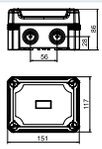


Type	X25C LGR	X25C LGR-TR	X25C SW
Colour	Light grey	Grey/transparent	Graphite black
Dimension LxWxH mm	286x202x126	286x202x126	286x202x126
Clear internal dimensions mm	271x187x110	271x187x110	271x187x110
Pack Piece	1	1	1
Weight kg/100 pc.	95.000	95.000	95.000
Item no.	**2005474**	**2005544**	**2005614**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Empty housing X 06 with hat profile rail





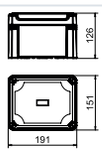


Type	X06C R LGR	X06C R LGR-TR
Colour	Light grey	Grey/transparent
Dimension LxWxH mm	151x117x87	151x117x87
Clear internal dimensions mm	137x105x68	137x105x68
Pack Piece	1	1
Weight kg/100 pc.	37.600	37.600
Item no.	**2005490**	**2005560**

PC Polycarbonate

Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail, type 2069, and fastening set.
Junction box according to DIN EN 60670. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Empty housing X 10 with hat profile rail







Type	X10C R LGR	X10C R LGR-TR
Colour	Light grey	Grey/transparent
Dimension LxWxH mm	191x151x126	191x151x126
Clear internal dimensions mm	177x137x110	177x137x110
Pack Piece	1	1
Weight kg/100 pc.	65.600	65.600
Item no.	**2005494**	**2005564**

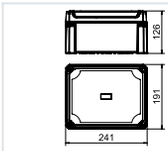
PC Polycarbonate

Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail, type 2069, and fastening set.
Junction box according to DIN EN 60670. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

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Empty housing, X series without entries with hat profile rail

Empty housing X 16 with hat profile rail





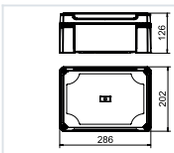


Type	X16C R LGR	X16C R LGR-TR
Colour	Light grey	Grey/transparent
Dimension LxWxH mm	241x191x126	241x191x126
Clear internal dimensions mm	227x177x110	227x177x110
Pack Piece	1	1
Weight kg/100 pc.	87.300	87.300
Item no.	**2005498**	**2005568**

PC Polycarbonate

Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail 2069 and fastening set.
Junction box according to DIN EN 60670. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Empty housing X 25 with hat profile rail







Type	X25C R LGR	X25C R LGR-TR
Colour	Light grey	Grey/transparent
Dimension LxWxH mm	286x202x126	286x202x126
Clear internal dimensions mm	271x187x110	271x187x110
Pack Piece	1	1
Weight kg/100 pc.	107.000	107.000
Item no.	**2005502**	**2005572**

PC Polycarbonate

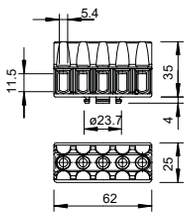
Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail, type 2069, and fastening set.
Junction box according to DIN EN 60670. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

PA

Terminal strip 1.5–6 mm², junction box, T series, X series

Type	Colour	No. of terminals	Nominal cross-section mm²	Nom. V		Pack Piece	Weight kg/100 pc.	Item no.
KL-T 02-06	Light grey	5	1.5-6	400		10	4.380	**2016185**

Terminals and screws made of steel, galvanised and transparent-chromated, nominal cross-section 1.5 ÷ 6 mm², rated voltage 400 V, five-pole, with socket terminals, max. connectable cross-sections per terminal: 3x6 mm², 4x4 mm² or 6x2.5 mm².



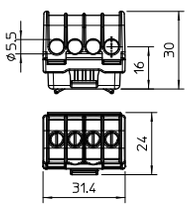


PA

Terminal strip 6–16 mm², junction box, T series, X series

Type	Colour	No. of terminals	Nominal cross-section mm²	Nom. V		Pack Piece	Weight kg/100 pc.	Item no.
KL-T 06-16	Light grey	4	6-16	400		10	1.970	**2016190**

Brass terminals, steel screws, electrogalvanised and transparently passivated, nominal cross-section 6 ÷ 16 mm², nominal voltage 400 V, 1-pin, with terminal sockets, max. connectable conductor per terminal 4 x 16 mm², 4 x 10 mm², 8 x 6 mm² or 12 x 4 mm².



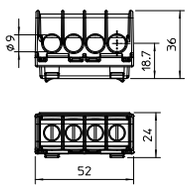


PA

Terminal strip 16–35 mm², junction box, T series, X series

Type	Colour	No. of terminals	Nominal cross-section mm²	Nom. V		Pack Piece	Weight kg/100 pc.	Item no.
KL-T 16-35	Light grey	4	16-35	400		10	5.630	**2016195**

Brass terminals, steel screws, electrogalvanised and transparently passivated, nominal cross-section 16 ÷ 35 mm², nominal voltage 400 V, 1-pin, with terminal sockets, max. connectable conductor per terminal 4 x 35 mm², 4 x 25 mm², 8 x 16 mm² or 12 x 10 mm².

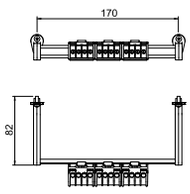




Terminal strip set for X series

Type	Nominal cross-section mm²	Pole number	Number of screwless terminals per pole		Pack Piece	Weight kg/100 pc.	Item no.
KL-X10 06-16	6-16	5	4		1	17.600	**2008931**
KL-X16 06-16	6-16	5	4		1	14.500	**2008935**
KL-X25 16-35	16-35	5	4		1	37.500	**2008939**

Terminal strip set for the distribution boxes of the SDB series. The sets can be used to expand and equip empty distribution boxes of the SDB series.

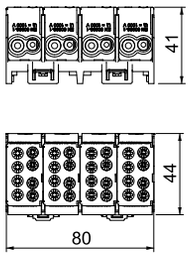




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Main branch terminal, 4-pole



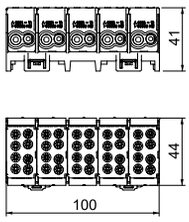


Type	Max. conductor cross-section mm²	Number of screwless terminals per pole	Pole number	Pack Piece	Weight kg/100 pc.	Item no.
HLAK 4-8x16	25	4	4	1	19.200	**2009032**

4-pin main terminal block, 2 x 16 mm² + 2 x 25 mm² conductor connection cross-sections per pin. With 2 screws per terminal for secure contact pressure. High-resistance quick-action fastening made of galvanised sheet steel for simple mounting on support rails.
Terminal covers are available in the standard conductor colours.

Main branch terminal, 5-pole



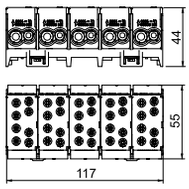


Type	Max. conductor cross-section mm²	Number of screwless terminals per pole	Pole number	Pack Piece	Weight kg/100 pc.	Item no.
HLAK 5-10x16	25	4	5	1	23.100	**2009036**

5-pin main terminal block, 2 x 16 mm² + 2 x 25 mm² conductor connection cross-sections per pin. With 2 screws per terminal for secure contact pressure. High-resistance quick-action fastening made of galvanised sheet steel for simple mounting on support rails.
Terminal covers are available in the standard conductor colours.

Main branch terminal, 5-pole



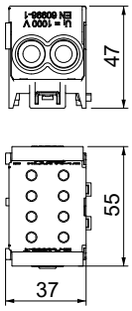


Type	Max. conductor cross-section mm²	Number of screwless terminals per pole	Pole number	Pack Piece	Weight kg/100 pc.	Item no.
HLAK 5-10x25	35	4	5	1	38.100	**2009038**

5-pin main terminal block, 2 x 35 mm² + 2 x 25 mm² conductor connection cross-sections per pin. With 2 screws per terminal for secure contact pressure. High-resistance quick-action fastening made of galvanised sheet steel for simple mounting on support rails.
Terminal covers are available in the standard conductor colours.

Main branch terminal, 1-pole





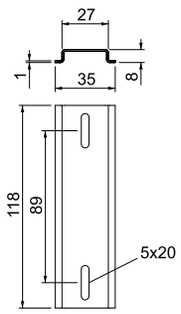
Type	Max. conductor cross-section mm²	Number of screwless terminals per pole	Pole number	Pack Piece	Weight kg/100 pc.	Item no.
HLAK 1-2x35 GR	50	4	1	1	11.600	**2009042**
HLAK 1-2x35 GRGN	50	4	1	1	11.600	**2009044**
HLAK 1-2x35 GRBL	50	4	1	1	11.600	**2009046**

1-pin main terminal block, 4 x 50 mm² conductor connection cross-sections per pin. With 2 screws per terminal for secure contact pressure. High-resistance quick-action fastening made of galvanised sheet steel for simple mounting on support rails.
Terminal covers are available in the standard conductor colours.

Hat profile rail set

Type	Length mm	Width mm	Height mm		Pack Piece	Weight kg/100 pc.	Item no.
2069 X06 FS	118	35	8		1	4.300	**1115876**
2069 X10 FS	161	62	23		1	7.400	**1115879**
2069 X16 FS	211	62	23		1	9.200	**1115882**
2069 X25 FS	252	62	23		1	10.700	**1115887**

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

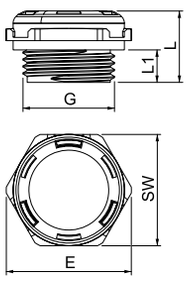




Pressure compensation element

Type	Thread	Protection rating	Colour		Pack Piece	Weight kg/100 pc.	Item no.
109 M20 LGR	M20x1,5	IP68	Light grey		1	0.538	**2034680**

The pressure compensation element, type 109 M20 LGR compensates for pressure differences in junction boxes, small distributors and connection sockets with an M20 opening and avoids the formation of condensation water in sealed housings. The polyamide pressure compensation element has an IP68/IP69 protection rating. This remains intact, even after the installation of the pressure compensation element. The pressure compensation element is suitable for use in industrial environments and in exterior areas.





TPE

IP 54 M

EDS plug-in seal, light grey, X series

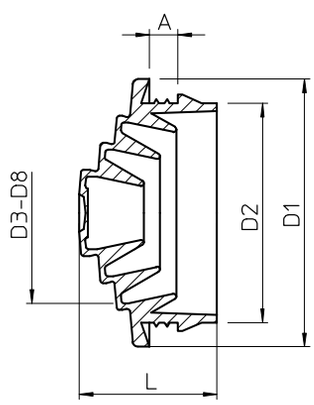
Type	Size	For Ø mm	Colour		Pack Piece	Weight kg/100 pc.	Item no.
EDS M20 LGR	M20	0-17	Light grey		100	0.125	**2012350**
EDS M25 LGR	M25	0-22	Light grey		100	0.185	**2012354**
EDS M32 LGR	M32	0-28	Light grey		50	0.295	**2012358**

The push-in nipple can be cut back to suit the relevant cable diameter.



Type	Dim. L mm	Dim. A mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	Dim. D5 mm	Dimension D6 mm	Dimension D7 mm	Dimension D8 mm
EDS M20 LGR	12.8	3.1	24.8	20.3	6	10	15	17	–	–
EDS M25 LGR	14.5	3.1	29.5	25.3	6	10	15	20	22	–
EDS M32 LGR	17.8	3.1	36.3	32.3	6	10	15	20	25	28

Dimensions



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EDS plug-in seal

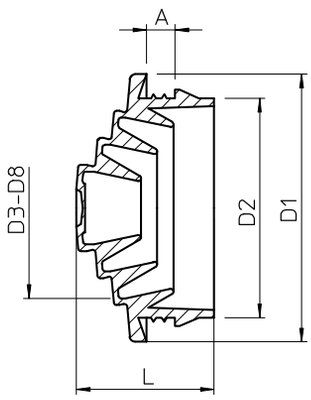
TPE



Type	Size	For Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
EDS M20 SW	M20	0-17	Black	100	0.125	**2012340**
EDS M25 SW	M25	0-22	Black	100	0.193	**2012342**
EDS M32 SW	M32	0-28	Black	50	0.254	**2012344**

The push-in nipple can be cut back to suit the relevant cable diameter.

Dimensions

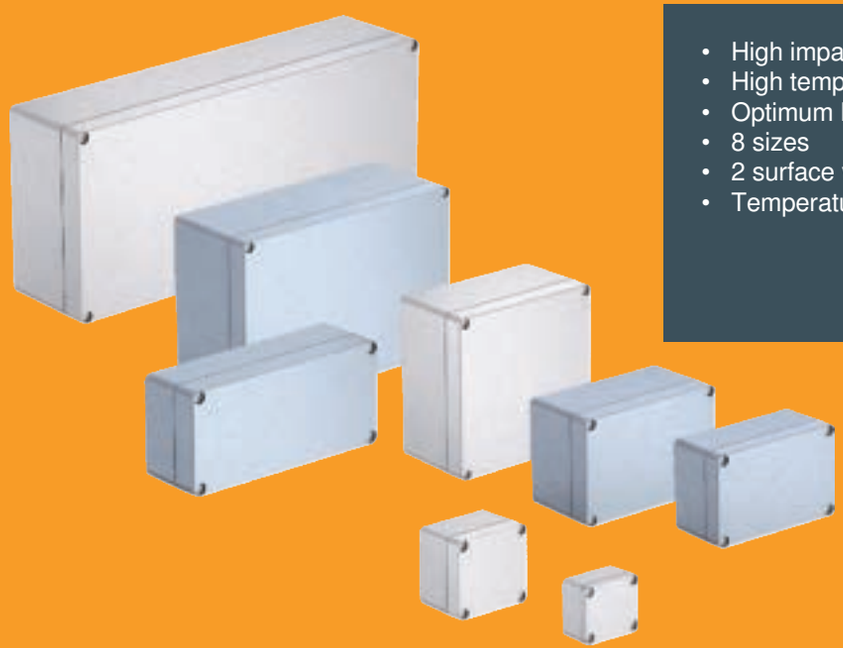


Type	Dim. L mm	Dim. A mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	Dim. D5 mm	Dimension D6 mm	Dimension D7 mm	Dimension D8 mm
EDS M20 SW	12.8	3.1	24.8	20.3	6	10	15	17	–	–
EDS M25 SW	14.5	3.1	29.5	25.3	6	10	15	20	22	–
EDS M32 SW	17.8	3.1	36.3	32.3	6	10	15	20	25	28



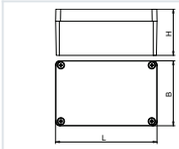
Junction boxes Mx series

Our aluminium empty housings were designed for use under the toughest conditions and provide optimum protection of the installation. The metal housing of the Mx series withstands extremely high and low temperatures, as well as large temperature differences. High impact loads in an industrial surrounding, vandalism or rock falls are not able to harm the housing. Furthermore, the Mx series offers perfect EMC protection and is ideally secured against the entry of dust and water in line with protection rating IP66.



- High impact resistance
- High temperature resistance
- Optimum EMC protection
- 8 sizes
- 2 surface variants
- Temperature range: –40 to 125 °C

Aluminium empty housing Mx06, paintable





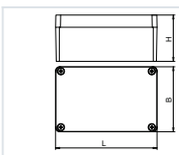
Type	Mx 060503 CR3	Mx 080705 CR3	Mx 090603 CR3	Mx 120805 CR3
Version	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws
Dimension LxWxH mm	64x58x34	80x75x57	98x64x34	125x80x57
Clear internal dimensions mm	56,5x50,5x31,5	71x65,5x52,5	91x54x29	115,5x70,5x51
Pack Piece	1	1	1	1
Weight kg/100 pc.	19.200	36.400	25.000	50.000
Item no.	**2011378**	**2011381**	**2011384**	**2011386**

AIG Die-cast aluminium
Cr3 Chrome III coating

Robust aluminium empty housing for mechanical engineering and automation technology.
The OBO Mx series' excellent features make it most suitable for extreme demands in all different areas. It is therefore also best suited for applications in industry, ports and shipbuilding, as well as in the agricultural sector.
The series' properties protect the electrical installation when under extreme strain. The products withstand both great cold and heat as well as impacts or kicks on roads, railways or in tunnels.
With a protection class of up to IP66, they are optimally protected against the intrusion of water. The aluminium is of course UV-resistant and halogen-free. The cover seal is made from polyurethane.
The aluminium housings are chrome 3-coated and are delivered with a cover including stainless steel screws, a seal and 2 or 4 earthing screws.
The chrome 3 surface provides a good contact when using metal fittings and can easily be painted or powder-coated.

Temperature: -40°C to +125°C

Aluminium empty housing Mx16, paintable





Type	Mx 161008 CR3	Mx 161609 CR3	Mx 221209 CR3	Mx 261609 CR3	Mx 361609 CR3
Version	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws
Dimension LxWxH mm	160x100x81	150x100x91	220x120x90	260x160x90	360x160x91
Clear internal dimensions mm	140,5x90x74,5	140,5x90x74,5	210x109x81	249x149x82	317,5x149x82
Pack Piece	1	1	1	1	1
Weight kg/100 pc.	90.000	170.000	168.000	230.000	320.000
Item no.	**2011389**	**2011392**	**2011394**	**2011396**	**2011398**

AIG Die-cast aluminium
Cr3 Chrome III coating

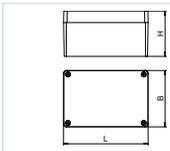
Robust aluminium empty housing for mechanical engineering and automation technology.
The OBO Mx series' excellent features make it most suitable for extreme demands in all different areas. It is therefore also best suited for applications in industry, ports and shipbuilding, as well as in the agricultural sector.
The series' properties protect the electrical installation when under extreme strain. The products withstand both great cold and heat as well as impacts or kicks on roads, railways or in tunnels.
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The chrome 3 surface provides a good contact when using metal fittings and can easily be painted or powder-coated.

Temperature: -40°C to +125°C

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Mx series junction boxes, aluminium, powder-coated

Aluminium empty housing Mx06, powder coated











Type	Mx 060503 SGR	Mx 080705 SGR	Mx 120805 SGR	Mx 161008 SGR
Version	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws
Colour	Silver grey	Silver grey	Silver grey	Silver grey
Dimension LxWxH mm	64x58x34	80x75x57	125x80x57	160x100x81
Clear internal dimensions mm	56.5x50.5x31.5	71x65.6x52.5	115.5x70.5x51	117x90x74.5
Pack Piece	1	1	1	1
Weight kg/100 pc.	19.200	36.400	50.000	90.000
Item no.	**2011304**	**2011308**	**2011312**	**2011316**

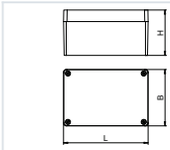
AIG Die-cast aluminium

P Powder-coated

Robust aluminium empty housing for mechanical engineering and automation technology.
The OBO Mx series' excellent mechanical and thermal features make it most suitable for extreme demands in many different areas. It is therefore also best suited for applications in industry, ports and shipbuilding, as well as in the agricultural sector.
The products protect the electrical installation against high-grade strains. They withstand both extreme cold and heat as well as vandalism and impact on roads, railways or in tunnels.
With an IP66 protection class, they are optimally protected against the intrusion of dust and water.
The aluminium housings are powder-coated (RAL 7001) and are delivered with a cover including stainless steel screws, a seal and two or four earthing screws.

Temperature: -40°C to +125°C

Aluminium empty housing Mx16, powder coated











Type	Mx 161609 SGR	Mx 170805 SGR	Mx 261609 SGR	Mx 361609 SGR
Version	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws
Colour	Silver grey	Silver grey	Silver grey	Silver grey
Dimension LxWxH mm	160x160x90	175x80x57	260x160x90	360x160x91
Clear internal dimensions mm	149x149x84.5	165x70x51	229.5x149x94.5	317.5x149x92
Pack Piece	1	1	1	1
Weight kg/100 pc.	170.000	66.000	230.000	320.000
Item no.	**2011320**	**2011324**	**2011328**	**2011332**

AIG Die-cast aluminium

P Powder-coated

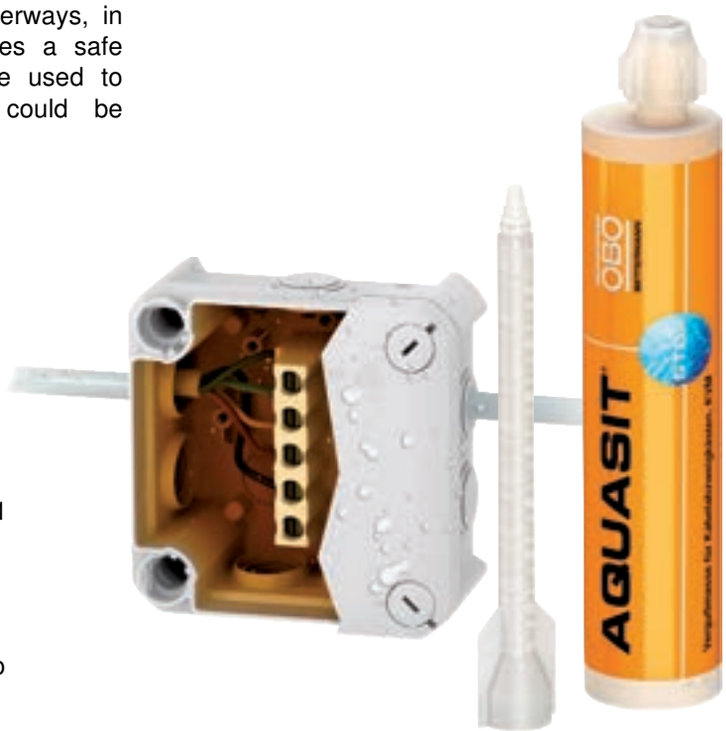
Robust aluminium empty housing for mechanical engineering and automation technology.
The OBO Mx series' excellent mechanical and thermal features make it most suitable for extreme demands in many different areas. It is therefore also best suited for applications in industry, ports and shipbuilding, as well as in the agricultural sector.
The products protect the electrical installation against high-grade strains. They withstand both extreme cold and heat as well as vandalism and impact on roads, railways or in tunnels.
With an IP66 protection class, they are optimally protected against the intrusion of dust and water.
The aluminium housings are powder-coated (RAL 7001) and are delivered with a cover including stainless steel screws, a seal and two or four earthing screws.

Temperature: -40°C to +125°C

Aquasit cold casting compound

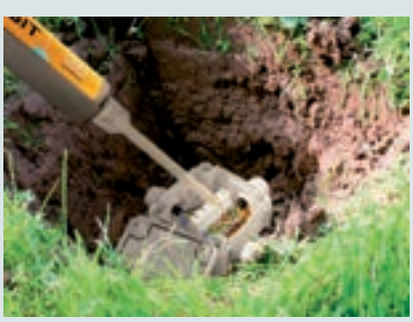
provides flexible and simple protection of electrical installations against moisture

OBO Aquasit cold casting compound is the ideal solution for electrical installations in particularly damp environments. Whether for connections in the garden, by waterways, in laundries or in a pump well – Aquasit ensures a safe electrical installation anywhere. Aquasit can be used to protect those electrical installations, which could be damaged by extreme or continuous moisture.



Overview of product description

- Protection rating: IP68 at 1.8 bar/1000 h
- Rated voltage: 400 V
- Penetration resistance: >20 kv/mm to VDE 0291 Part 2
- Operating temperature: --40 to +90 °C
- Processing temperature: 0 to +40 °C
- Halogen-free, silicon-free, isocyanite-free
- Environmentally friendly and without the need to be labelled







The application is simple: For smaller junction boxes, Aquasit is cast tidily using a standard cartridge pistol, whilst Aquasit for larger boxes can be processed in appropriate, practical mixing bags.

The transparent, amber-coloured cold casting compound, based on hydrocarbon resins, hardens to a soft elastic state, so that a voltage test with test pins is then possible. As Aquasit is "self-healing", i.e the resulting test tunnel closes itself again fully, the protection rating of IP68 remains intact. Aquasit can also be removed easily, meaning that retroinstallation and regular testing of the installation are child's play.

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Protects electrical installations against extreme or persistent moisture



Whether a laundry or a garden pond – Aquasit keeps things shut and provides protection.

Aquasit material consumption

Junction box filling

T Series	ml per unit*	PU*	
T25	80 ml	1	
T40	250 ml	1	
T60	410 ml	1	M
T60 HD	590 ml	1	L
T 100	720 ml	1	L
T 100 HD	770 ml	1	L

T Series	ml per unit*	PU*	
T160	1540 ml	1	XL
T160 HD	1930 ml	2	XL
T250	3170 ml	2	XL
T250 HD	3310 ml	2	XL
T350	5200 ml	4	XL
T350 HD	6830 ml	5	XL

*Gross box volume without equipment
Smallest possible packaging unit for complete filling of the complete junction box. Please refer to the product brochure for the technical dimensions.



250 ml | 400 ml | 800 ml | 1.600 ml



Aquasit cold casting compound, cartridge
250 ml | Art. no. 2363010



Aquasit cold casting compound, mixing bag
400 ml | M | Art. no. 2363008
800 ml | L | Art. no. 2363006
1600 ml | XL | Art. no. 2363002



Junction box set
T 40 KVM
Art. no. 2363012



AQUASIT mixer pipe
10 mixer pipes in the set
Art. no. 2363015



AQUASIT cartridge pistol
Art. no. 2363019

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Aquasit cold casting compound

Aquasit cold casting compound, cartridge



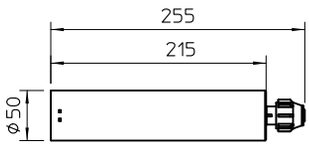
Type	Contents ml		Pack Piece	Weight kg/100 pc.	Item no.
KVM 250	250		1	42.000	**2363010**

Aquasit is a two-component casting compound for junction boxes in areas with continuous and extremely high levels of moisture. It can also be used against mechanical shock and vibrations.

The cartridge is suitable for use in standard cartridge pistols. At room temperature, the unopened aluminium packaging can be stored for up to 18 months. When the cartridge is opened, the material should be used within 24 hours. Practical experience, tests and approvals only apply in conjunction with OBO junction boxes.

Aquasit properties:
Protection rating with appropriate junction box: IP68 at 1.8 bar/1,000 hrs
Rated voltage: 400 V
Penetration resistance: >20 kV/mm to VDE 0291 Part 2
Operating temperature: –40 to +90 °C
Processing temperature: 0 to +40 °C
Halogen-free, silicon-free, isocyanate-free
Environmentally friendly and without the need to be labelled

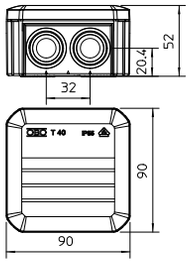
Dimensions



Type	A6	A8	A11	A14	A18	T25	T40	T60	T100	B9/T
Number of cartridges per junction box	0.3	2.4	1.3	1.5	1.4	0.7	1.0	1.7	2.9	1.6

Aquasit cold casting compound with T40 junction box





Type	Version	Entries	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
T 40 KVM	With terminal strip	7 x M25	1		1	48.700	**2363012**

Junction box set with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Including Aquasit cold casting compound, IP68 protection rating
Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside. With fixed clamping cover. Made from halogen-free materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Aquasit cold casting compound, mixing bag

Type	Contents ml	Pack Piece	Weight kg/100 pc.	Item no.
KVMM 400	400	1	49.800	**2363008**
KVMM 800	800	1	92.000	**2363006**
KVMM 1600	1600	1	175.000	**2363002**



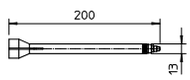
Aquasit is a two-component casting compound for junction boxes in areas with continuous and extremely high levels of moisture. It can also be used against mechanical shock and vibrations.

At room temperature and when stored properly, the unopened aluminium bag can be used for up to 18 months. When the bags are mixed, the material should be used within 20 minutes. Practical experience, tests and approvals only apply in conjunction with OBO junction boxes.

Aquasit properties:
Protection rating with appropriate junction box: IP68 at 1.8 bar/1,000 hrs
Rated voltage: 400 V
Penetration resistance: >20 kv/mm to VDE 0291 Part 2
Operating temperature: –40 to +90 °C
Processing temperature: 0 to +40 °C
Halogen-free, silicon-free, isocyanate-free
Environmentally friendly and without the need to be labelled

AQUASIT mixer pipe

Type		Pack PU	Weight kg/100 PUs	Item no.
KVM-M		1	17.000	**2363015**

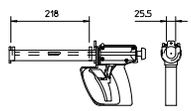




10 mixer pipes in the set.
Simple, automatic mixing of OBO AQUASIT when pressing out the compound from the cartridge.

Aquasit cartridge pistol

Type		Pack Piece	Weight kg/100 pc.	Item no.
KVM-P		1	100.000	**2363019**



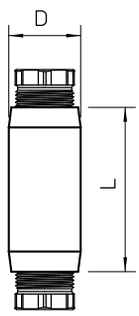


High-quality one-component cartridge pistol for use with the AQUASIT cold casting compound. The cartridge pistol can also be used with normal 300 ml cartridges.

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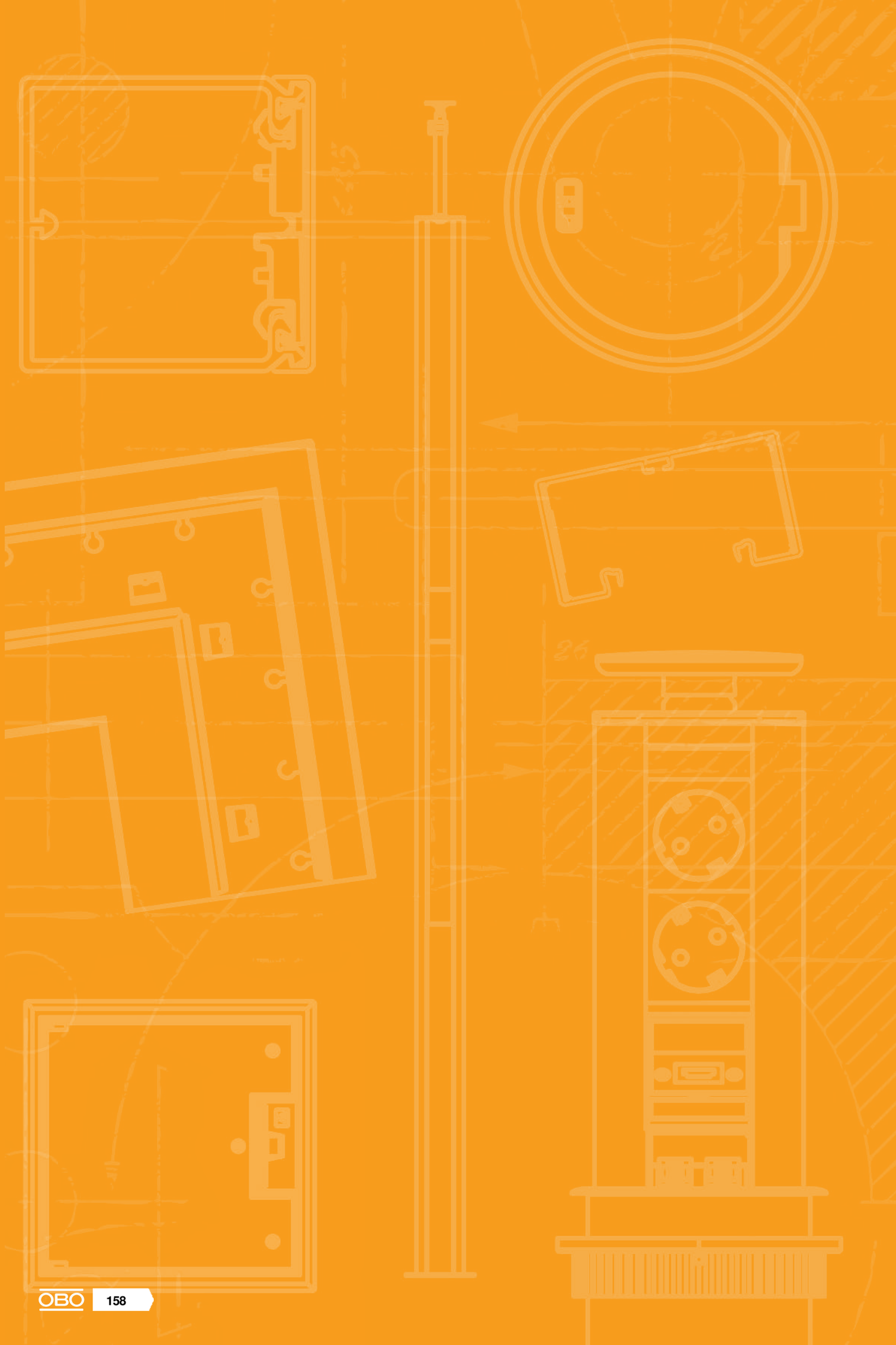
Cable connection sleeve





Type	Entries	Dim. D mm	Dim. L mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
117 5x2.5	Pg 16	28	64	Light grey	10	4.891	**2022028**
117 5x6	Pg 21	33.5	82	Light grey	5	8.306	**2022060**

Protection rating IP54, nominal voltage 660 V. VDE specifications state that connection sleeves are only intended for local routing.



Power supply units



VH – prewired power supply units IP20 160



VH – empty housing and installation accessories IP20, pure white 168



Accessories IP 20 VH4/VH8 170



Accessories IP 20 and IP 44 172

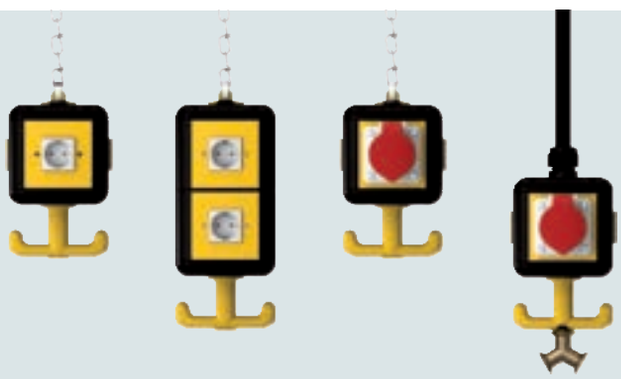


VHF – empty housing and installation accessories IP44 174

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HoverCube VH/VHF

Suspended energy distributor for workplaces and machinery in industry, the trades and in training areas. The HoverCubes can be placed freely in the room. They are supplied from the ceiling. Depending on the protection rating, they can be equipped flexibly to supply power, data and media technology through to work media such as compressed air.







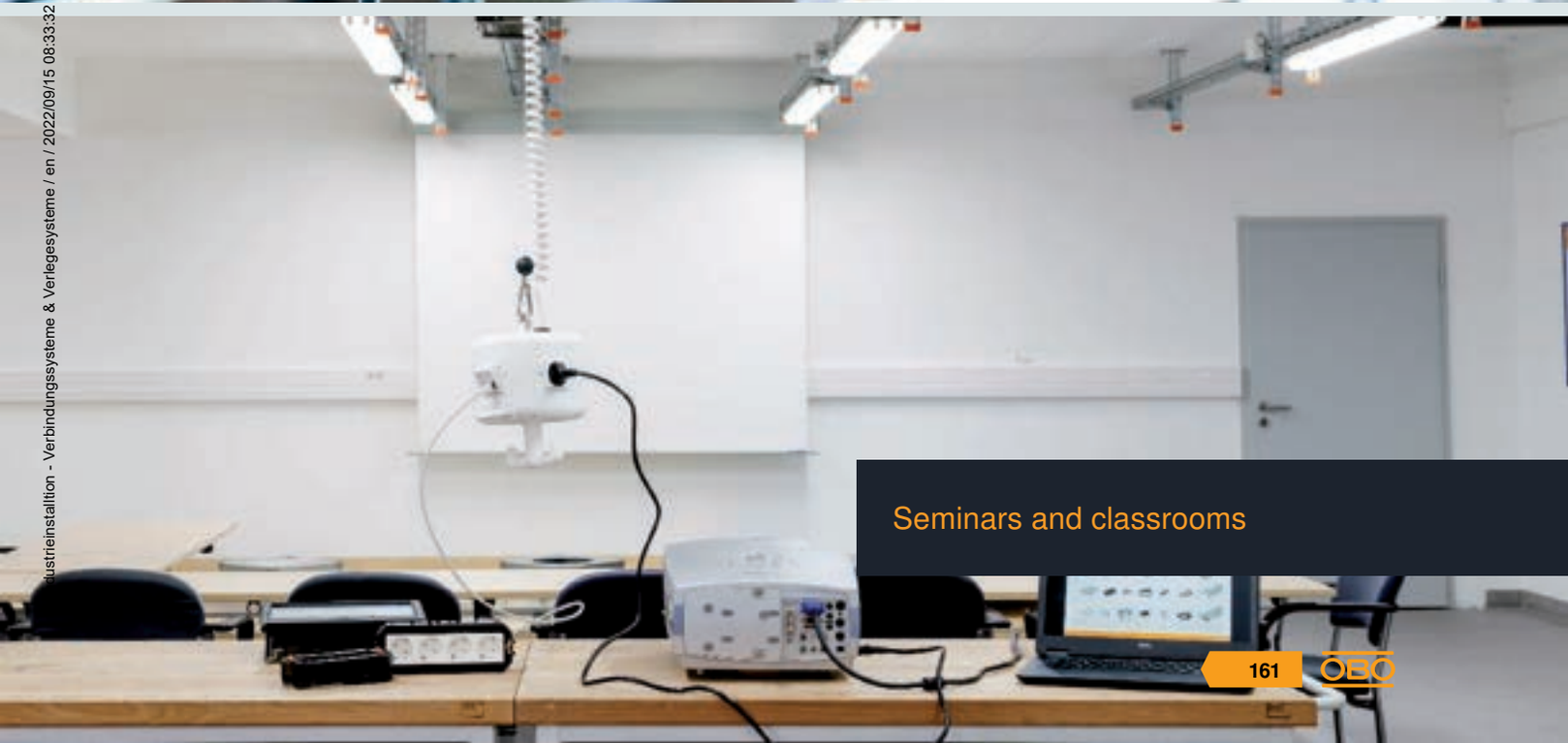
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Workshops and work areas



Industrial and assembly workplaces



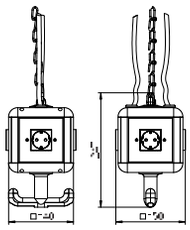
Seminars and classrooms

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HoverCube VH-4, 4x protective contact socket

PA





Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4 4SD	Graphite black	1	95.000	**6109802**

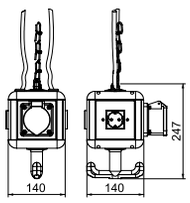
Housing equipped and pre-wired with suspension lug, grip hook and four cover plates.

Equipped as follows: 4x single protective contact sockets 16 A/250 V with increased touch protection, pre-wired for two AC currents, connection via 2x 3-pin terminals, 1x CEE socket 16 A/415 V, with partition for circuit separation.

HoverCube VH-4, 3x protective contact socket, 1x CEE 16 A

PA





Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4 3SD1C16	Graphite black	1	115.700	**6109804**

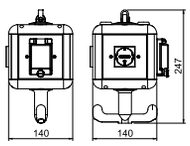
Housing equipped and pre-wired with suspension lug, grip hook and four cover plates.

Equipped as follows: 3x single protective contact sockets 16 A/250 V with increased touch protection, pre-wired for an AC current, connection via 1x 3-pin terminal, 1x CEE socket 16 A/415 V, with partition for circuit separation.

HoverCube VH-4, with FI/LS, 2x protective contact sockets

PA





Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4 2SD FILS	Graphite black	1	98.000	**6109780**

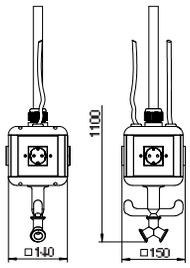
In the case of an overcurrent/error current (16 A/30 mA), the VH-4 HoverCube with decentralised protection triggers the FI/LS directly. Switching back on can take place directly on the power supply unit.

Equipped as follows: 2x single sockets with earthing pin 16 A/250 V with increased touch protection, pre-wired for an AC current, connection via 1x 3-pin terminal, with partition for circuit separation and an FI/LS switch.
One unequipped side with a free panel for individual, construction-side equipment (e.g. blanking plate, cover plate for devices/Modul 45 devices).

HoverCube VH-4, 4x protective contact socket, with compressed air connection

PA





Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4L 4SD	Graphite black	1	428.600	**6109812**

Housing equipped and pre-wired, with 1 m pipe 1/2" and connection for compressed air hose 13 x 3.5 mm and 2-way distributor 1/2", with suspension lug, grip hook and four cover plates.

Equipped as follows: 4x single protective contact sockets 16 A/250 V with increased touch protection, pre-wired for two AC currents, connection via 2x 3-pin terminals, 1x CEE socket 16 A/415 V, with partition for circuit separation.

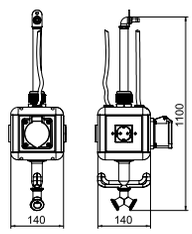
PA

HoverCube VH-4, 3x protective contact socket, 1x CEE 16 A, with compressed air connection

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4L 3SD1C16	Graphite black	1	380.000	6109814

Housing equipped and pre-wired, with 1 m pipe 1/2" and connection for compressed air hose 13 x 3.5 mm and 2-way distributor 1/2", with suspension lug, grip hook and four cover plates.

Equipped as follows: 3x single protective contact sockets 16 A/250 V with increased touch protection, pre-wired for an AC current, connection via 1x 3-pin terminal, 1x CEE socket 16 A/415 V, with partition for circuit separation.





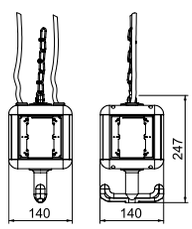
VH - Empty housing and installation accessories IP20

PA

HoverCube VH-4, empty housing

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4 LG	Graphite black	1	62.000	6109800

Empty housing with suspension lug and grip hook, for the installation of four electrical resources, with included partition. Without cover plates.



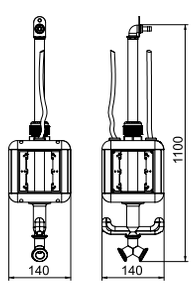


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HoverCube VH-4, empty housing, with compressed air connection

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4L LG	Graphite black	1	343.800	6109810

Empty housing with 1 m pipe 1/2" and connection for compressed air hose 13 x 3.5 mm and 2-way distributor 1/2". With suspension lug and grip hook, for the installation of four electrical resources, with included partition. Without cover plates.



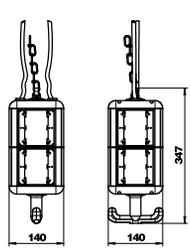


PA

HoverCube VH-8, empty housing

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-8 LG	Graphite black	1	88.200	6109821

Empty housing with suspension lug and grip hook, for the installation of eight electrical resources, with included partition. Without cover plates.





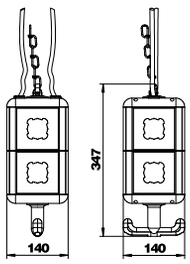
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Always indicate the item number when ordering.

HoverCube VH-8, empty housing, with cover plates

PA





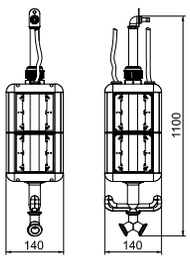
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-8 LG8P2	Graphite black	1	123.400	6109820

Empty housing with suspension lug and grip hook, for the installation of eight electrical resources, with included partition. With eight cover plates for accessories with concealed support ring or support bracket.

HoverCube VH-8, empty housing, with compressed air connection

PA



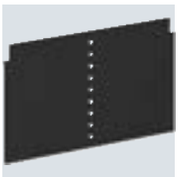


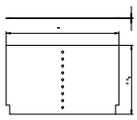
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-8L LG	Graphite black	1	300.000	6109825

Empty housing with 1 m pipe 1/2" and connection for compressed air hose 13 x 3.5 mm and 2-way distributor 1/2". With suspension lug and grip hook, for the installation of electrical resources, with included partition. Without cover plates.

Partition VH-4

PVC





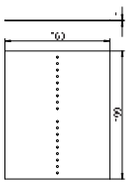
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4 TW	Graphite black	1	2.350	6109832

Additional partition wall for reciprocal insulation of three different power circuits and types. Version for VH-4.

Partition VH-8

PVC





Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-8 TW	Graphite black	1	4.890	6109862

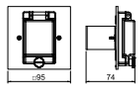
Additional partition wall for reciprocal insulation of three different power circuits and types. Version for VH-8.

PA

Mounting set VH4

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH MS FILS	Yellow	1	10.500	**6109788**

Mounting kit for the installation of series-mounted devices up to 2 part units, e.g. of an FI/LS switch in the freely terminable HoverCube VH4/VH8.
Mounting of the FI/LS switch is possible at a later time, irrespective of the system.



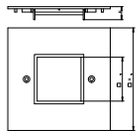


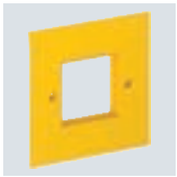
PA

VH cover plate, for Modul 45 devices, single

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-P4	Rape yellow	1	2.030	**6109840**

Cover plate to install a single Modul 45 socket.



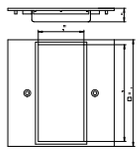


PA

VH cover plate, for Modul 45 devices, double

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-P5	Rape yellow	1	1.749	**6109836**

Cover plate to install a double Modul 45 socket.



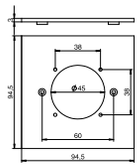


PA

VH cover plate, for 1x extension socket, type ASD

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-P7	Rape yellow	1	1.890	**6109839**

Cover plate with opening for the installation of a socket with 38 x 38 mm fastening system.





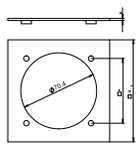
PA

Cover plate VH, for CEE connection unit

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-P3	Rape yellow	1	1.830	**6109838**

Cover plate with a Ø 70 mm opening for the installation of a CEE socket 16/32 A with 60 mm fastening track, including four fastening screws.

Information on equipment:
Max. 2 CEE sockets 16/32 A in a power supply unit VH-4
Max. 4 CEE sockets 16/32 A in a power supply unit VH-8



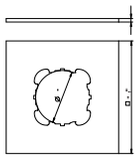


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Cover plate VH, for EK and EKR devices

PA





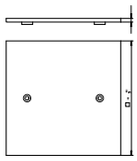
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-P2	Rape yellow	1	2.300	**6109834**

Cover plate with opening Ø 45 mm for the installation of a device with concealed support ring or support clamp.

VH cover plate as blanking cover

PA





Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-P1	Rape yellow	1	2.930	**6109842**

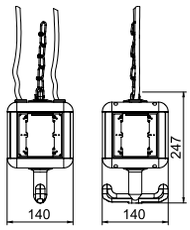
Cover plate as blanking cover.

VH - Empty housing and installation accessories IP20, pure white

HoverCube VH-4, empty housing

PA





Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
VH-4 LG RW	Pure white		1	72.000	**6109801**

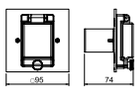
Empty housing with suspension lug and grip hook, for the installation of four electrical resources, with included partition. Without cover plates.

Accessories IP 20, pure white

Mounting set VH4

PA





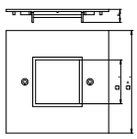
Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
VH MS FILS RW	Pure white		1	10.500	**6109789**

Mounting kit for the installation of series-mounted devices up to 2 part units, e.g. of an FI/LS switch in the freely terminable HoverCube VH4/VH8.

Mounting of the FI/LS switch is possible at a later time, irrespective of the system.

VH cover plate, for Modul 45 devices, single

PA

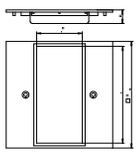


Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
VH-P4 RW	Pure white		1	2.009	**6109841**

Cover plate to install a single Modul 45 socket.

VH cover plate, for Modul 45 devices, double

PA

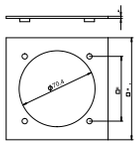


Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
VH-P5 RW	Pure white		1	1.728	**6109835**

Cover plate to install a double Modul 45 socket.

Cover plate VH, for CEE connection unit

PA



Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
VH-P3 RW	Pure white		1	1.830	**6109837**

Cover plate with a Ø 70 mm opening for the installation of a CEE socket 16/32 A with 60 mm fastening track, including four fastening screws.

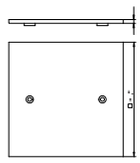
Information on equipment:
Max. 2 CEE sockets 16/32 A in a power supply unit VH-4
Max. 4 CEE sockets 16/32 A in a power supply unit VH-8

PA

VH cover plate as blanking cover

Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
VH-P1 RW	Pure white		1	3.000	**6109843**

Cover plate as blanking cover.



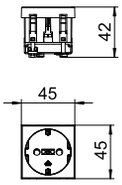
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Always indicate the item number when ordering.

0° socket, protective contact, single

PC





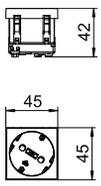
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
STD-D0 RW1	Pure white	1	4.200	**6120008**
STD-D0 ROR1	Pure orange	1	4.200	**6120010**
STD-D0 MZGN1	Mint green	1	4.200	**6120012**
STD-D0 SRO1	Signal red	1	4.200	**6120014**
STD-D0 SWGR1	Black-grey	1	4.200	**6120016**

Power socket, single 0°, with increased touch protection with screwless terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1.

33° socket, protective contact, single

PC





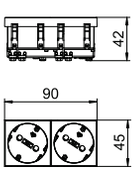
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
STD-D3S RW1	Pure white	1	4.000	**6120073**
STD-D3S ROR1	Pure orange	1	4.000	**6120075**
STD-D3S MZGN1	Mint green	1	4.000	**6120077**
STD-D3S SRO1	Signal red	1	4.000	**6120079**
STD-D3S SWGR1	Black-grey	1	4.000	**6120081**

Protective contact socket, single 33°, with increased touch protection, with screwless terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1.

33° socket, protective contact, double

PC





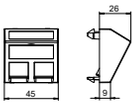
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
STD-D3S RW2	Pure white	1	7.700	**6120103**
STD-D3S ROR2	Pure orange	1	7.700	**6120105**
STD-D3S MZGN2	Mint green	1	7.700	**6120107**
STD-D3S SRO2	Signal red	1	7.700	**6120109**
STD-D3S SWGR2	Black-grey	1	7.700	**6120111**

Protective contact socket, double 33°, with increased touch protection, with screwless terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1.

Data technology support, 1 module, slanting outlet, type C

PC





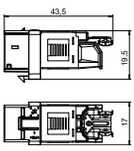
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
DTS-2C RW1	Pure white	1	1.500	**6119250**
DTS-2C SWGR1	Black-grey	1	1.500	**6119252**

The type C data technology support is suitable for accepting the following data connection modules: BTR (Keystone design): Cat. 6A module and UAE module; Corning: modules with Keystone seat; CobiNet: CobiDat KS module; Dätwyler: KS-T, KS-TS, MS-K and KU-T; EKU: E-Stone; Harting: Prelink Keystone Cat. 6A; Fixlink Keystone Cat. 6A; Komos: KDM 500 module; Leoni Kerpen: MegaLine-Connect45 Keystone socket modules; OBO: Type ASM-C6A and ASM-C6A G; R&M: Cat. 6A with Keystone fastening; Rutenbeck: UM and UMflex; SETEC: UKJ and XKJ; Telegärtner: AMJ and UMJ.

Data technology support with slanting outlet and locking slider to accept two data technology connection modules with RJ45 socket. The locking fastening is suitable for horizontal and vertical installation in the system environment. Type C has a mounting opening of 19.30 x 14.80 mm and is designed for direct fastening of the data connection modules in the mounting opening.

Connection module Cat. 6A, unshielded, keystone



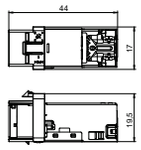


Type	Pack Piece	Weight kg/100 pc.	Item no.
ASM-C6A	1	1.050	**6117348**

Connection module Cat. 6A (ISO) unshielded, with an RJ45 slot. Including a dust cover, a cable tie, a Keystone fastening frame and mounting instructions. Suitable for installation in the data technology supports of type DTG-2C and DTS-2C, support plate of type MTM 2C and MTM 3C, mounting plate of type MPR2 2C, mounting supports of type MTGE2 2C, MTGE2 15 2C and MTGE2 F 2C.

Connection module Cat. 6A, shielded, keystone

Type		Pack Piece	Weight kg/100 pc.	Item no.
ASM-C6A G		1	1.630	**6117346**



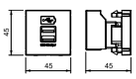


Connection module Cat. 6A (ISO) shielded, with an RJ45 slot. Including an EMC screen hood, a dust cover, a cable tie, a Keystone fastening frame and mounting instructions. Suitable for installation in the data technology supports of type DTG-2C and DTS-2C, support plate of type MTM 2C and MTM 3C, mounting plate of type MPR2 2C, mounting supports of type MTGE2 2C, MTGE2 15 2C and MTGE2 F 2C.

PC

USB charging device

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MTG-2UC2.1 RW1	Pure white	1	6.162	**6105300**
MTG-2UC2.1 SWGR1	Black-grey	1	5.500	**6105302**



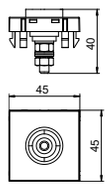


USB charging device with two USB type A sockets, for charging 1–2 mobile devices, maximum charging current 1x 2,100 mA or 2x 1,050 mA.

PC

Equipotential bonding socket, 1 module, straight outlet

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
PAD-ID6 RW1	Pure white	1	5.000	**6120003**
PAD-ID6 SWGR1	Black-grey	1	5.000	**6120001**





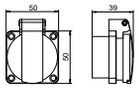
Equipotential bonding socket to DIN 42801, socket in black with green-yellow colour ring, cable connection to rear with M6 screw bolt, including two nuts, washers and a serrated washer.

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Always indicate the item number when ordering.

Surface-mounted socket 0° with hinged cover, protective contact, single



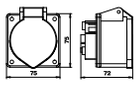


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ASD-D0 SW	Black	1	4.804	**6109873**

Protective contact extension socket 0° with hinged cover, with screwless terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1. Protection rating: IP44.

CEE connection unit, 16 A



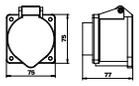


Type		Pack Piece	Weight kg/100 pc.	Item no.
CEE-16A		1	19.100	**6109874**

CEE socket with 60 mm fastening track, 3-pin + N + PE, 400 V, 16 A, 6 h.

CEE connection unit, 32 A



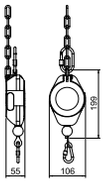


Type		Pack Piece	Weight kg/100 pc.	Item no.
CEE-32A		1	20.400	**6109876**

CEE socket with 60 mm fastening track, 3-pin + N + PE, 400 V, 32 A, 6 h.

Positioner for VH power supply units





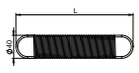
Type	Designation	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-POS	Up to 6 kg load capacity	Orange	1	80.000	**6109887**

Positioner for variable height adjustment of a VH power supply unit, support load between 0.5 and 6.0 kg, maximum cable draw-out 1.5 m.

VH/VHF tension spring

VA 2B





Type		Pack Piece	Weight kg/100 pc.	Item no.
VH-F100VA		1	31.350	**6109829**

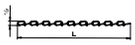
Tension spring for VH/VHF power supply units, with German eyelet.

Fmax.= 100 N
L0 = 200 mm
Ln = 500 mm (for Fmax.)
Material: VA ø 3.0 mm

St

Knotted chain

Type	Designation	Pack m	Weight kg/100 m	Item no.
VH-K800	Sold by the metre	1	20.000	**6109870**





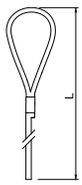
Knotted chain made of pre-copper-plated steel, nickel-plated, according to DIN 5686.
Max. tensile force: 800 N.

Note: Specify the required chain length during ordering.

St G

Support cable with loop

Type	Cable diameter mm	Operating load kg	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
QWT S 3 3M G	3	90	3000	1	19.640	**1450133**
QWT S 3 5M G	3	90	5000	1	25.580	**1450134**





Support cable with loop for the suspension of different loads. Suitable for indoor use.

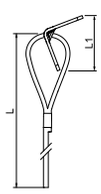
The loop permits simple wall and ceiling mounting, e.g. on ceiling hooks, ring eyelets or steel girders. With cable gripper for infinite, tool-free adjustment.

The operating load is stated with a safety factor of 5:1. The break load is 5x greater than the operating load. In combination with the universal bracket for mesh cable trays (QW GRH) or for cable trays (QW KRH), the safety factor is 1.7 according to IEC 61537 – Guide systems for cables.

St G

Support cable with universal bracket

Type	Cable diameter mm	Operating load kg	Dim. L mm	Dim. L1 mm	Pack Piece	Weight kg/100 pc.	Item no.
QWT UW 3 3M G	3	90	3000	21.5	1	8.765	**1450432**
QWT UW 3 5M G	3	90	5000	21.5	1	15.700	**1450433**





Support cable with universal bracket for the suspension of different loads. Suitable for indoor use.

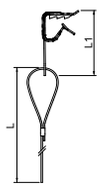
Universal bracket for simple wall and ceiling mounting. One bracket side with fastening hole, e.g. for a nail tie, second side with marking for a nail setting device. With cable gripper for infinite, tool-free adjustment.

The operating load is stated with a safety factor of 5:1. The break load is 5x greater than the operating load. In combination with the universal bracket for mesh cable trays (QW GRH) or for cable trays (QW KRH), the safety factor is 1.7 according to IEC 61537 – Guide systems for cables.

St G

Support cable with support clamp

Type	Cable diameter mm	Operating load kg	Dim. L mm	Dim. L1 mm	Pack Piece	Weight kg/100 pc.	Item no.
QWT TK 2 3M G	2	45	3000	41	1	8.520	**1450627**
QWT TK 2 5M G	2	45	5000	41	1	11.830	**1450628**





Support cable with support clamp for the suspension of different loads. Suitable for indoor use.

With support clamp for knocking into steel girders of flange thickness 8–14 mm. With cable gripper for infinite, tool-free adjustment.

The operating load is stated with a safety factor of 5:1. The break load is 5x greater than the operating load. In combination with the universal bracket for mesh cable trays (QW GRH) or for cable trays (QW KRH), the safety factor is 1.7 according to IEC 61537 – Guide systems for cables.

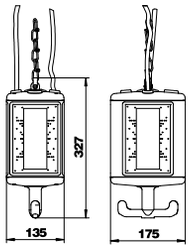
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VHF - Empty housing and installation accessories IP44

HoverCube VHF-8, empty housing

PA





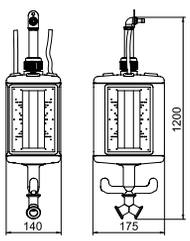
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-8 LG	Graphite black	1	105.000	6109822

Empty housing with suspension lug and grip hook, for the installation of electrical resources, with included partition. Without cover plates to supply workplaces in wet areas. Protection rating: IP44.

HoverCube VHF-8, empty housing, with compressed air connection

PA





Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-8L LG	Graphite black	1	400.000	6109827

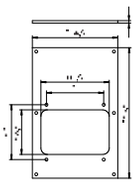
Empty housing with 1 m pipe 1/2" and connection for compressed air hose 13 x 3.5 mm and 2-way distributor 1/2". With suspension lug and grip hook, for the installation of electrical resources, with included partition. Without cover plates to supply workplaces in wet areas. Protection rating: IP44.

Accessories IP 44

Cover plate VHF for protective equipment installation

PVC



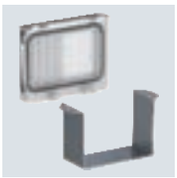


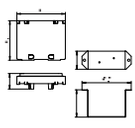
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-P6	Rape yellow	1	4.700	6109867

Cover plate with cut out for the installation of a cover above protection unit (type VHF-AE4TE). Maximum equipment corresponds to four units.

Cover plate for the VHF power supply units for the installation of a cover above protection unit (type VHF-AE4TE). Maximum equipment corresponds to four units.

VHF protective unit construction, cover and support clamp





Type	Pack Piece	Weight kg/100 pc.	Item no.
VHF-AE4TE	1	12.800	6109850

Cover and support clamp for the installation of protective equipment such as miniature circuit breakers or FI protection switches to max. four units.

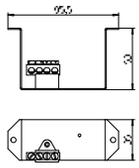
Note: Use only in conjunction with the supports VHF-T1 or VHF-T2.

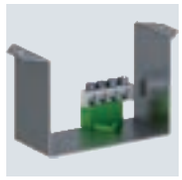
St

VHF protective unit construction, support with PE terminal strip

Type		Pack Piece	Weight kg/100 pc.	Item no.
VHF-T1		1	6.730	6109852

Support with PE terminal strip for installation of FI protection switches, consisting of:
- Base element with hat rail 35 mm and PE terminal strip 4 x 10 mm²
- Fastening material



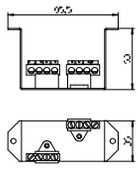


St

VHF protective unit construction, support with N + PE terminal strip

Type		Pack Piece	Weight kg/100 pc.	Item no.
VHF-T2		1	8.380	6109854

Support with N and PE terminal strip for installation of miniature circuit-breakers, consisting of:
- Base element with hat rail 35 mm, N terminal strip 4 x 10 mm² and PE terminal strip 4 x 10 mm²
- Fastening material



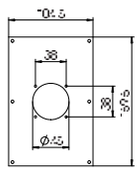


PVC

VHF cover plate, with fastening system

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-P7	Rape yellow	1	6.600	6109878

Cover plate with opening for the installation of a socket with 38 x 38 mm fastening system.



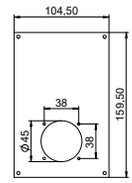


PVC

VHF cover plate, for 1x surface-mounted socket, type ASD

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-P12	Rape yellow	1	7.400	6109856

Cover plate with a Ø 45 mm opening for the installation of an extension socket (type ASD-...) with 38 mm fastening track, including 4 screws for fastening the device.



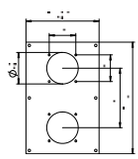


PVC

VHF cover plate, for 2x surface-mounted socket, type ASD

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-P8	Rape yellow	1	5.900	6109879

Cover plate with two Ø 45 mm openings for the installation of two extension sockets (type ASD-...) with 38 mm fastening track, including 8 screws for fastening the device.





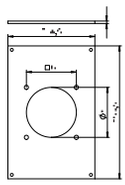
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Always indicate the item number when ordering.

Cover plate VHF, for CEE connection unit

PVC





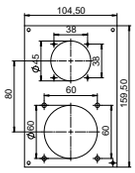
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-P3	Rape yellow	1	7.000	**6109865**

Cover plate with a Ø 70 mm opening for the installation of 1x CEE socket 16/32 A with 60 mm fastening track, including 4 screws for fastening the device.

Cover plate VHF, for 1x surface-mounted socket, type ASD and 1x CEE connection unit

PVC





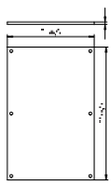
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-P13	Rape yellow	1	7.400	**6109858**

Cover plate with a Ø 45 mm opening for the installation of one extension socket (type ASD-...) with 38 mm fastening track and a Ø 60 mm opening for the installation of one CEE socket 16/32 A with 60 mm fastening track, including 8 screws for fastening the device.

Cover plate VHF as blanking cover

PVC



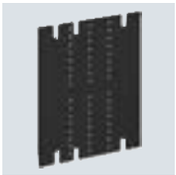


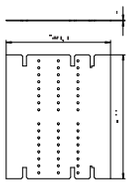
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-P1	Rape yellow	1	7.000	**6109868**

Cover plate as blanking cover.

Partition VHF, with compressed air connection

PVC



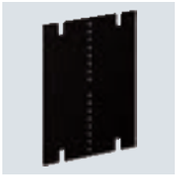


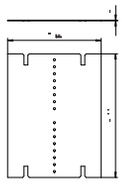
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-TW L	Graphite black	1	3.900	**6109861**

Additional partition wall for reciprocal insulation of three different power circuits and types.

Partition VHF, without compressed air connection

PVC





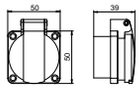
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-TW	Graphite black	1	3.520	**6109860**

Additional partition wall for reciprocal insulation of three different power circuits and types.

Surface-mounted socket 0° with hinged cover, protective contact, single

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ASD-D0 SW	Black	1	4.804	**6109873**

Protective contact extension socket 0° with hinged cover, with screwless terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1. Protection rating: IP44.

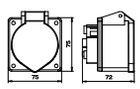




CEE connection unit, 16 A

Type		Pack Piece	Weight kg/100 pc.	Item no.
CEE-16A		1	19.100	**6109874**

CEE socket with 60 mm fastening track, 3-pin + N + PE, 400 V, 16 A, 6 h.

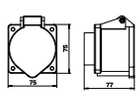




CEE connection unit, 32 A

Type		Pack Piece	Weight kg/100 pc.	Item no.
CEE-32A		1	20.400	**6109876**

CEE socket with 60 mm fastening track, 3-pin + N + PE, 400 V, 32 A, 6 h.

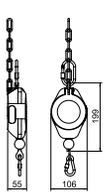


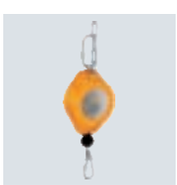


Positioner for VH power supply units

Type	Designation	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-POS	Up to 6 kg load capacity	Orange	1	80.000	**6109887**

Positioner for variable height adjustment of a VH power supply unit, support load between 0.5 and 6.0 kg, maximum cable draw-out 1.5 m.





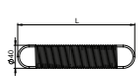
VA 2B

VH/VHF tension spring

Type		Pack Piece	Weight kg/100 pc.	Item no.
VH-F100VA		1	31.350	**6109829**

Tension spring for VH/VHF power supply units, with German eyelet.

Fmax.= 100 N
L0 = 200 mm
Ln = 500 mm (for Fmax.)
Material: VA ø 3.0 mm



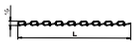


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Knotted chain

St





Type	Designation	Pack m	Weight kg/100 m	Item no.
VH-K800	Sold by the metre	1	20.000	**6109870**

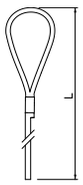
Knotted chain made of pre-copper-plated steel, nickel-plated, according to DIN 5686.
Max. tensile force: 800 N.

Note: Specify the required chain length during ordering.

Support cable with loop

St G





Type	Cable diameter mm	Operating load kg	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
QWT S 3 3M G	3	90	3000	1	19.640	**1450133**
QWT S 3 5M G	3	90	5000	1	25.580	**1450134**

Support cable with loop for the suspension of different loads. Suitable for indoor use.

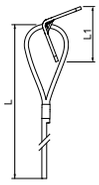
The loop permits simple wall and ceiling mounting, e.g. on ceiling hooks, ring eyelets or steel girders. With cable gripper for infinite, tool-free adjustment.

The operating load is stated with a safety factor of 5:1. The break load is 5x greater than the operating load. In combination with the universal bracket for mesh cable trays (QW GRH) or for cable trays (QW KRH), the safety factor is 1.7 according to IEC 61537 – Guide systems for cables.

Support cable with universal bracket

St G





Type	Cable diameter mm	Operating load kg	Dim. L mm	Dim. L1 mm	Pack Piece	Weight kg/100 pc.	Item no.
QWT UW 3 3M G	3	90	3000	21.5	1	8.765	**1450432**
QWT UW 3 5M G	3	90	5000	21.5	1	15.700	**1450433**

Support cable with universal bracket for the suspension of different loads. Suitable for indoor use.

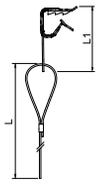
Universal bracket for simple wall and ceiling mounting. One bracket side with fastening hole, e.g. for a nail tie, second side with marking for a nail setting device. With cable gripper for infinite, tool-free adjustment.

The operating load is stated with a safety factor of 5:1. The break load is 5x greater than the operating load. In combination with the universal bracket for mesh cable trays (QW GRH) or for cable trays (QW KRH), the safety factor is 1.7 according to IEC 61537 – Guide systems for cables.

Support cable with support clamp

St G





Type	Cable diameter mm	Operating load kg	Dim. L mm	Dim. L1 mm	Pack Piece	Weight kg/100 pc.	Item no.
QWT TK 2 3M G	2	45	3000	41	1	8.520	**1450627**
QWT TK 2 5M G	2	45	5000	41	1	11.830	**1450628**

Support cable with support clamp for the suspension of different loads. Suitable for indoor use.

With support clamp for knocking into steel girders of flange thickness 8–14 mm. With cable gripper for infinite, tool-free adjustment.

The operating load is stated with a safety factor of 5:1. The break load is 5x greater than the operating load. In combination with the universal bracket for mesh cable trays (QW GRH) or for cable trays (QW KRH), the safety factor is 1.7 according to IEC 61537 – Guide systems for cables.



Distributors



Distribution boxes 182



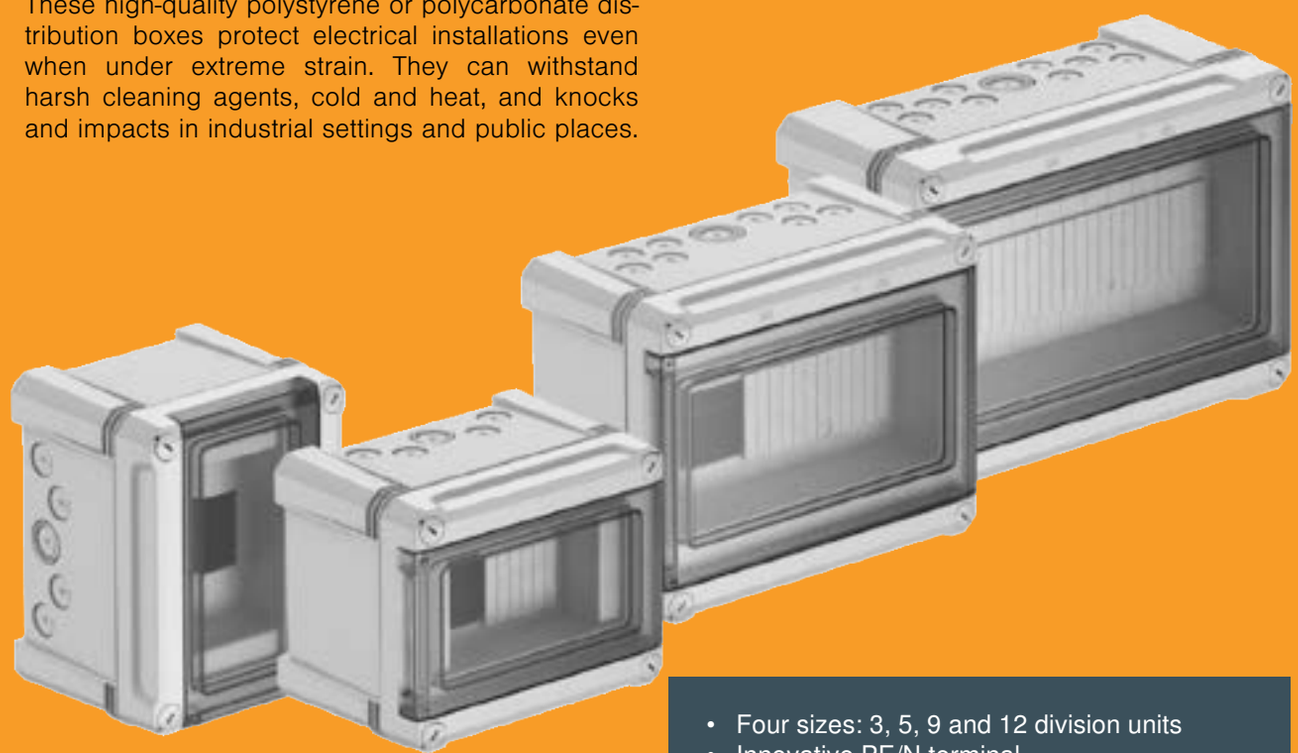
Accessories, distribution boxes 188

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SDB distribution box series

These high-quality polystyrene or polycarbonate distribution boxes protect electrical installations even when under extreme strain. They can withstand harsh cleaning agents, cold and heat, and knocks and impacts in industrial settings and public places.



- Four sizes: 3, 5, 9 and 12 division units
- Innovative PE/N terminal
- Flexible fastening
- Adhesive labelling sheets

IP 66

IK 07

PC

Distribution box, 3 division units, with screwless terminal

Type	Terminals	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 03 PC	Connector	Light grey	150x190x125	1	75.540	**2008840**

Surface-mounted distribution box, with protective insulation for max. 3 division units. There are 3 break-out openings (2x Ø20 and 1x Ø20/25) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for mounting in indoor and outdoor areas;
VDE-tested according to DIN EN 61439;
Accessories:
· Terminal strip set consisting of: One each of PE/N terminal (1x25 mm² and 1x16 mm² screw-in terminals, 2x4 mm² and 12x2.5 mm² screwless terminals), mini hat profile rail, mounting instructions and fastening set
· Self-adhesive pictograms to label the installation
· Two elastic cable entries of Ø20 mm for cable diameters of 0–17 mm
· One elastic cable entry of Ø25 mm for cable diameters of 0–22 mm
· Two stainless steel external fastenings
· Cover strip to close off unused separation units



PS

Distribution box, 3 division units, with screw terminal

Type	Terminals	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 03 PS	Connector	Light grey	150x190x125	1	81.000	**2008800**

Surface-mounted distribution box, with protective insulation for max. 3 division units. There are 3 break-out openings (2x Ø20 and 1x Ø20/25) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for interior and protected exterior mounting
Accessories:
· Terminal strip set consisting of: One PE/N terminal with 4x 16 mm² screw terminal points, mini hat profile rail, mounting instructions and fastening set
· Self-adhesive pictograms for installation labelling and labelling of the connected consumers
· Two elastic cable entries Ø20 mm for cable diameters 0–17 mm
· One elastic cable entry Ø25 mm for cable diameter 0–22 mm



PS PC

Distribution box, 3 division units, empty

Type	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 03L PC	Light grey	150x190x125	1	78.000	**2008860**
SDB 03L PS	Light grey	150x190x125	1	69.000	**2008820**

Surface-mounted distribution box, with protective insulation for max. 3 division units. There are 3 break-out openings (2x Ø20 and 1x Ø20/25) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

The PC small distributors are suitable for mounting for interior and exterior use.



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Distribution box, 5 division units, with screwless terminal



Type	Terminals	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 05 PC	Connector	Light grey	190x150x125	1	76.040	**2008844**

Surface-mounted distribution box, with protective insulation for max. 5 division units. There are 5 break-out openings (4x Ø20 and 1x Ø20/25) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for mounting in indoor and outdoor areas;
VDE-tested according to DIN EN 61439;
Accessories:
· Terminal strip set consisting of: One each of PE/N terminal (1x25 mm² and 1x16 mm² screw-in terminals, 2x4 mm² and 12x2.5 mm² screwless terminals), mini hat profile rail, mounting instructions and fastening set
· Self-adhesive pictograms to label the installation;
· Four elastic cable entries of Ø20 mm for cable diameters of 0–17 mm
· One elastic cable entry of Ø25 mm for cable diameters of 0–22 mm
· Two stainless steel external fastenings
· Cover strip to close off unused separation units

Distribution box, 5 division units, with screw terminal



Type	Terminals	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 05 PS	Connector	Light grey	190x150x125	1	81.500	**2008804**

Surface-mounted distribution box, with protective insulation for max. 5 division units. There are 5 break-out openings (4x Ø20 and 1x Ø20/25) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for interior and protected exterior mounting
Accessories:
· Terminal strip set consisting of: One PE/N terminal with 4x 16 mm² screw terminal points, mini hat profile rail, mounting instructions and fastening set
· Self-adhesive pictograms for installation labelling and labelling of the connected consumers
· Four elastic cable entries Ø20 mm for cable diameters 0–17 mm
· One elastic cable entry Ø25 mm for cable diameter 0–22 mm

Distribution box, 5 division units, empty



Type	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 05L PS	Light grey	190x150x125	1	69.500	**2008824**
SDB 05L PC	Light grey	190x150x125	1	78.500	**2008864**

Surface-mounted distribution box, with protective insulation for max. 5 division units. There are 5 break-out openings (4x Ø20 and 1x Ø20/25) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

The PC small distributors are suitable for mounting for interior and exterior use.

PC

Distribution box, 9 division units, with screwless terminal

Type	Terminals	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 09 PC	Connector	Light grey	240x191x125	1	103.840	**2008848**

Surface-mounted distribution box, with protective insulation for max. 9 division units. There are 9 break-out openings (8x Ø20 and 1x Ø20/25/32) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for mounting in indoor and outdoor areas;
VDE-tested according to DIN EN 61439;
Accessories:
· Terminal strip set consisting of: One each of PE/N terminal (1x25 mm² and 1x16 mm² screw-in terminals, 2x4 mm² and 12x2.5 mm² screwless terminals), mini hat profile rail, mounting instructions and fastening set
· Self-adhesive pictograms to label the installation
· Six elastic cable entries of Ø20 mm for cable diameters of 0–17 mm
· One elastic cable entry of Ø25 mm for cable diameters of 0–22 mm
· One elastic cable entry of Ø32 mm for cable diameters of 0–28 mm
· Two stainless steel external fastenings
· Cover strip to close off unused separation units



PS

Distribution box, 9 division units, with screw terminal

Type	Terminals	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 09 PS	Connector	Light grey	240x191x125	1	110.000	**2008808**

Surface-mounted distribution box, with protective insulation for max. 9 division units. There are 9 break-out openings (8x Ø20 and 1x Ø20/25/32) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for interior and protected exterior mounting
Accessories:
·Terminal strip set consisting of: Two PE/N terminals each with 4x 16 mm² screw terminal points, mini hat profile rail, mounting instructions and fastening set
· Self-adhesive pictograms for installation labelling and labelling of the connected consumers
· Six elastic cable entries Ø20 mm for cable diameters 0–17 mm
· One elastic cable entry Ø25 mm for cable diameter 0–22 mm
· One elastic cable entry Ø32 mm for cable diameter 0–28 mm



PS PC

Distribution box, 9 division units, empty

Type	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 09L PS	Light grey	240x191x125	1	96.000	**2008828**
SDB 09L PC	Light grey	240x191x125	1	108.000	**2008868**

Surface-mounted distribution box, with protective insulation for max. 9 division units. There are 9 break-out openings (8x Ø20 and 1x Ø20/25/32) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

The PC small distributors are suitable for mounting for interior and exterior use.



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Distribution box, 12 division units, with screw terminal

PS



Type	Terminals	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 12 PS	Connector	Light grey	286x202x125	1	141.000	**2008812**
SDB 12L PS	Light grey	286x202x125		1	120.000	**2008832**

Surface-mounted distribution box, with protective insulation for max. 12 division units. There are 11 break-out openings (10x Ø20 and 1x Ø20/25/32) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for interior and protected exterior mounting

Accessories:

·Terminal strip set consisting of: Three PE/N terminals each with 4x 16 mm² screw terminal points, mini hat profile rail, mounting instructions and fastening set

· Self-adhesive pictograms for installation labelling and labelling of the connected consumers

· Eight elastic cable entries Ø20 mm for cable diameters 0–17 mm

· One elastic cable entry Ø25 mm for cable diameter 0–22 mm

· One elastic cable entry Ø32 mm for cable diameter 0–28 mm

Distribution box, 12 division units, empty

PC



Type	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 12L PC	Light grey	286x202x125	1	134.000	**2008872**

Surface-mounted distribution box, with protective insulation for max. 12 division units. There are 11 break-out openings (10x Ø20 and 1x Ø20/25/32) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

The PC small distributors are suitable for mounting for interior and exterior use.

PC

Distribution box, 12 division units, with screwless terminal

Type	Terminals	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 12 PC	Connector	Light grey	286x202x125	1	150.000	**2008852**



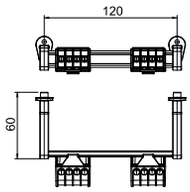
Surface-mounted distribution box, with protective insulation for max. 12 division units. There are 11 break-out openings (10x Ø20 and 1x Ø20/25/32) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for mounting in indoor and outdoor areas;
VDE-tested according to DIN EN 61439;
Accessories:
· Terminal strip set consisting of: One each of PE/N terminal (1x25 mm² and 1x16 mm² screw-in terminals, 2x4 mm² and 12x2.5 mm² screwless terminals), mini hat profile rail, mounting instructions and fastening set
· Self-adhesive pictograms to label the installation;
· Eight elastic cable entries of Ø20 mm for cable diameters of 0–17 mm
· One elastic cable entry of Ø25 mm for cable diameters of 0–22 mm
· One elastic cable entry of Ø32 mm for cable diameters of 0–28 mm
· Two stainless steel external fastenings
· Cover strip to close off unused separation units

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Terminal strip set with screw terminals for SDB 03





Type	Number of screwless terminals per pole		Pack Piece	Weight kg/100 pc.	Item no.
KLS-SDB 03	4		1	7.990	**2008880**

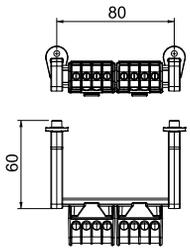
Terminal strip set for the small distributors of the SDB series. The sets can be used to expand and equip empty small distributors of the SDB 03... type series.

The terminal strip set with screw terminals contains:

Mounting instructions; hat rail with corresponding support and fastening material; 16 mm² protective conductor terminal; 16 mm² neutral conductor terminal

Terminal strip set with screw terminals for SDB 05





Type	Number of screwless terminals per pole		Pack Piece	Weight kg/100 pc.	Item no.
KLS-SDB 05	4		1	7.290	**2008884**

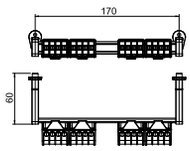
Terminal strip set for the small distributors of the SDB series. The sets can be used to expand and equip empty small distributors of the SDB 05... type series.

The terminal strip set with screw terminals contains:

Mounting instructions; hat rail with corresponding support and fastening material; 16 mm² protective conductor terminal; 16 mm² neutral conductor terminal

Terminal strip set with screw terminals for SDB 09





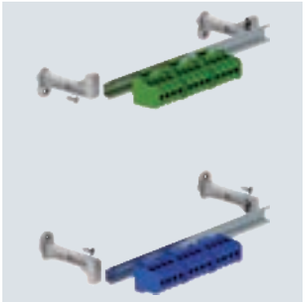
Type	Number of screwless terminals per pole		Pack Piece	Weight kg/100 pc.	Item no.
KLS-SDB 09	8		1	8.890	**2008888**

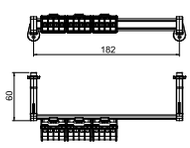
Terminal strip set for the small distributors of the SDB series. The sets can be used to expand and equip empty small distributors of the SDB 09... type series.

The terminal strip set with screw terminals contains:

Mounting instructions; hat rail with corresponding support and fastening material; 16 mm² protective conductor terminal; 16 mm² neutral conductor terminal

Terminal strip set with screw terminals for SDB 12





Type	Number of screwless terminals per pole		Pack Piece	Weight kg/100 pc.	Item no.
KLS-SDB 12	12		1	9.090	**2008892**

Terminal strip set for the small distributors of the SDB series. The sets can be used to expand and equip empty small distributors of the SDB 12... type series.

The terminal strip set with screw terminals contains:

Mounting instructions; hat rail with corresponding support and fastening material; 16 mm² protective conductor terminal; 16 mm² neutral conductor terminal

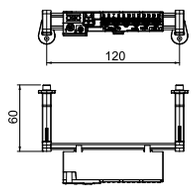
Terminal strip set with screwless terminals for SDB 03

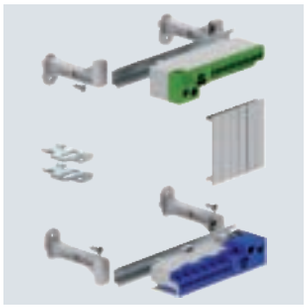
Type	Pack Piece	Weight kg/100 pc.	Item no.
KLS-SDB 03S	1	13.830	2008910

Terminal strip set for the small distributors of the SDB series. The sets can be used to expand and equip the empty small distributors of the SDB 03... type series.

The terminal strip set with screwless terminals contains:

Mounting instructions; cover strip; hat rail with corresponding support and fastening material; one protective conductor terminal and one neutral conductor terminal each with two 16/25 mm² screw terminals and 2x 4 mm² and 12x 2.5 mm² screwless terminals





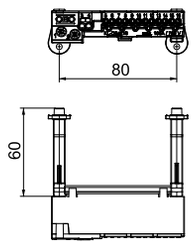
Terminal strip set with screwless terminals for SDB 05

Type	Pack Piece	Weight kg/100 pc.	Item no.
KLS-SDB 05S	1	13.130	2008914

Terminal strip set for the small distributors of the SDB series. The sets can be used to expand and equip the empty small distributors of the SDB 05... type series.

The terminal strip set with screwless terminals contains:

Mounting instructions; cover strip; hat rail with corresponding support and fastening material; one protective conductor terminal and one neutral conductor terminal each with two 16/25 mm² screw terminals and 2x 4 mm² and 12x 2.5 mm² screwless terminals





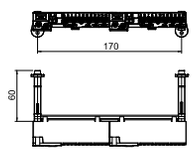
Terminal strip set with screwless terminals for SDB 09

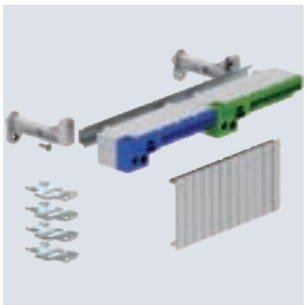
Type	Pack Piece	Weight kg/100 pc.	Item no.
KLS-SDB 09S	1	14.730	2008918

Terminal strip set for the small distributors of the SDB series. The sets can be used to expand and equip the empty small distributors of the SDB 09... type series.

The terminal strip set with screwless terminals contains:

Mounting instructions; cover strip; hat rail with corresponding support and fastening material; one protective conductor terminal and one neutral conductor terminal each with two 16/25 mm² screw terminals and 2x 4 mm² and 12x 2.5 mm² screwless terminals





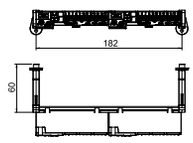
Terminal strip set with screwless terminals for SDB 12

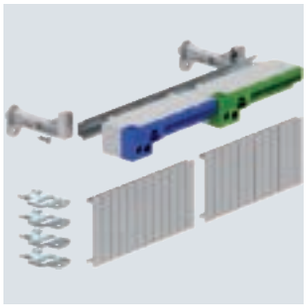
Type	Pack Piece	Weight kg/100 pc.	Item no.
KLS-SDB 12S	1	14.180	2008922

Terminal strip set for the small distributors of the SDB series. The sets can be used to expand and equip the empty small distributors of the SDB 12... type series.

The terminal strip set with screwless terminals contains:

Mounting instructions; cover strip; hat rail with corresponding support and fastening material; one protective conductor terminal and one neutral conductor terminal each with two 16/25 mm² screw terminals and 2x 4 mm² and 12x 2.5 mm² screwless terminals



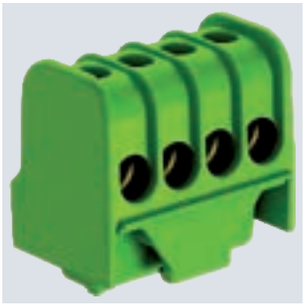


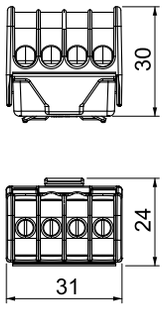
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Protective conductor terminals

Protective conductor terminal, with screw contacts, 4 terminals

PA





Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KL-DBS4x16GN	Green	10	1.980	2016250

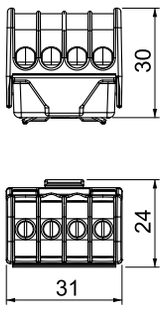
Protective conductor connection terminal strip, brass, steel screws, electrogalvanised and transparently passivated, nominal cross-section 6 ÷ 16 mm², nominal voltage 400 V, 1-pole, with terminal sockets, max. connectable conductors per terminal 4 x 16 mm², 4 x 10 mm², 8 x 6 mm² or 12 x 4 mm².

Neutral conductor terminals

Neutral conductor terminal, with screw contacts, 4 terminals

PA





Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KL-DBN4x16BL	Blue	10	1.980	2016255

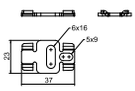
Neutral conductor connection terminal, brass, steel screws, electrogalvanised and transparently passivated, nominal cross-section 6 ÷ 16 mm², nominal voltage 400 V, 1-pole, with terminal sockets, max. connectable conductors per terminal 4 x 16 mm², 4 x 10 mm², 8 x 6 mm² or 12 x 4 mm².

External fastening

External fastening or connection

A2 2B





Type	Pack Piece	Weight kg/100 pc.	Item no.
AV-S	20	0.900	2007990

The convenient external fastening/connection means the cable boxes and distribution boxes of the S and SDB series can be fastened easily to a wall. Because they fasten outside the cable box, the possibility of voltage carry over is ruled out.
These metal connectors can also be used for lining up several boxes together.

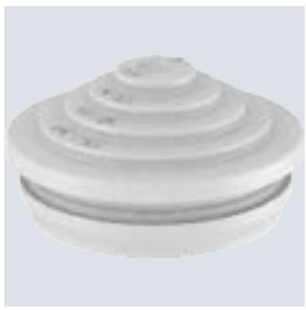
TPE

IP 54 M

EDS plug-in seal, light grey, X series

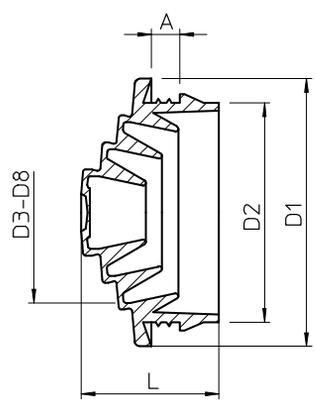
Type	Size	For Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
EDS M20 LGR	M20	0-17	Light grey	100	0.125	**2012350**
EDS M25 LGR	M25	0-22	Light grey	100	0.185	**2012354**
EDS M32 LGR	M32	0-28	Light grey	50	0.295	**2012358**

The push-in nipple can be cut back to suit the relevant cable diameter.



Type	Dim. L mm	Dim. A mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	Dim. D5 mm	Dimension D6 mm	Dimension D7 mm	Dimension D8 mm
EDS M20 LGR	12.8	3.1	24.8	20.3	6	10	15	17	–	–
EDS M25 LGR	14.5	3.1	29.5	25.3	6	10	15	20	22	–
EDS M32 LGR	17.8	3.1	36.3	32.3	6	10	15	20	25	28

Dimensions



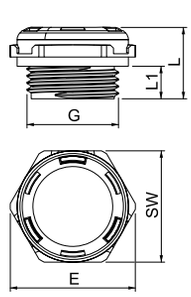
Pressure compensation element

CE 650°

Pressure compensation element

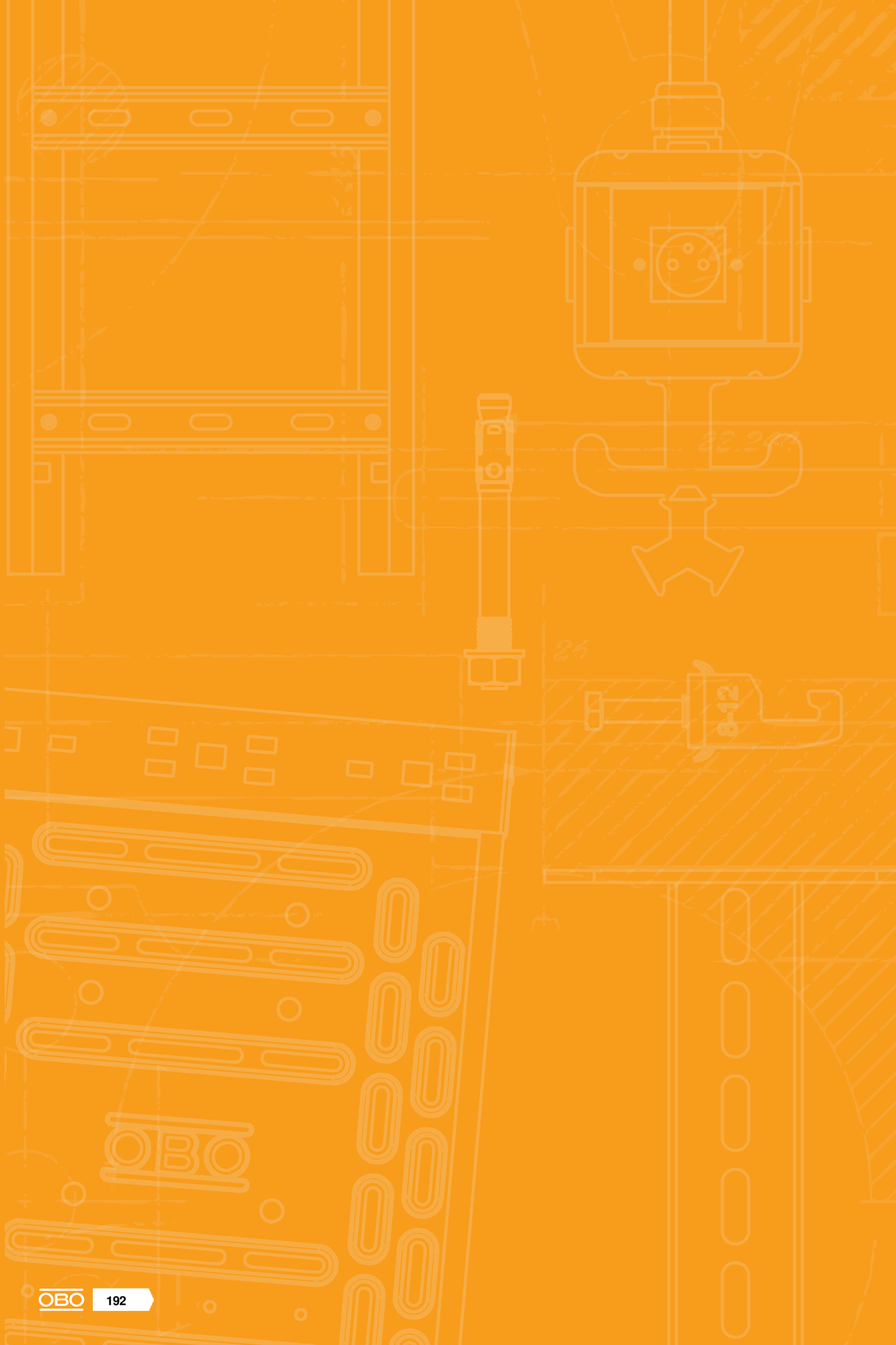
Type	Thread	Protection rating	Colour	Pack Piece	Weight kg/100 pc.	Item no.
109 M20 LGR	M20x1,5	IP68	Light grey	1	0.538	**2034680**

The pressure compensation element, type 109 M20 LGR compensates for pressure differences in junction boxes, small distributors and connection sockets with an M20 opening and avoids the formation of condensation water in sealed housings. The polyamide pressure compensation element has an IP68/IP69 protection rating. This remains intact, even after the installation of the pressure compensation element. The pressure compensation element is suitable for use in industrial environments and in exterior areas.





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Terminals



Screwless terminals 192



Screw terminals 196

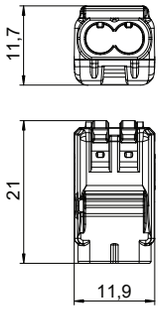


Phase terminals 202

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Universal plug-in terminal, 2-pole

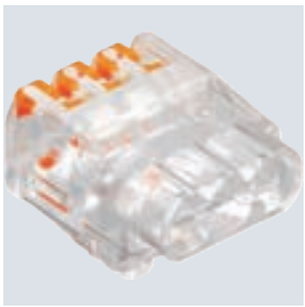


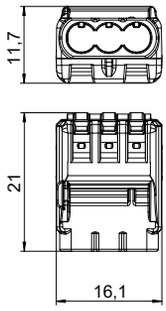


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 225 FL	Transparent	100	0.200	**2054450**

Tested according to EN 60998.
Screwless terminal to connect electrical conductors. The type of conductor can either be flexible, multi-wire or rigid.
If rigid conductors are used, an opening of the release lever is not necessary. The conductor can be plugged into the terminal directly.
To extract the conductors, simply open the release lever. The strand can then be easily pulled-out.
Nominal cross-section:
2 x 0.2 - 2.5 mm² multi-wire cables / single-wire conductors
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 9 mm (+1 mm).
Inspection opening: Phase tester and testing pin (max. Ø 2 mm), very easily accessible on the top side of the terminal
Max. approved ambient temperature according to EN 60998: -5 to +85 °C.

Universal plug-in terminal, 3-pole

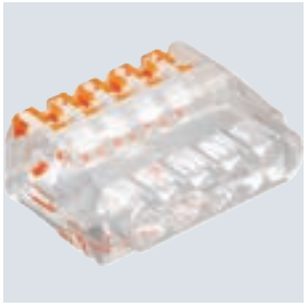


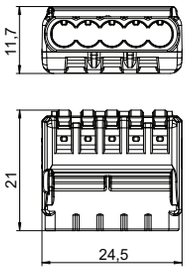


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 325 FL	Transparent	75	0.270	**2054454**

Tested according to EN 60998.
Screwless terminal to connect electrical conductors. The type of conductor can either be flexible, multi-wire or rigid.
If rigid conductors are used, an opening of the release lever is not necessary. The conductor can be plugged into the terminal directly.
To extract the conductors, simply open the release lever. The strand can then be easily pulled-out.
Nominal cross-section:
3 x 0.2 - 2.5 mm² multi-wire cables / single-wire conductors
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 9 mm (+1 mm).
Inspection opening: Phase tester and testing pin (max. Ø 2 mm), very easily accessible on the top side of the terminal
Max. approved ambient temperature according to EN 60998: 85 °C.

Universal plug-in terminal, 5-pole





Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 525 FL	Transparent	50	0.410	**2054458**

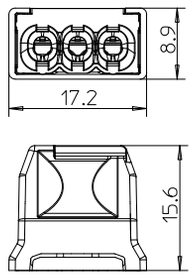
Tested according to EN 60998.
Screwless terminal to connect electrical conductors. The type of conductor can either be flexible, multi-wire or rigid.
If rigid conductors are used, an opening of the release lever is not necessary. The conductor can be plugged into the terminal directly.
To extract the conductors, simply open the release lever. The strand can then be easily pulled-out.
Nominal cross-section:
5 x 0.2 - 2.5 mm² multi-wire cables / single-wire conductors
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 9 mm (+1 mm).
Inspection opening: Phase tester and testing pin (max. Ø 2 mm), very easily accessible on the top side of the terminal
Max. approved ambient temperature according to EN 60998: 85 °C.

PA

Screwless terminal, 3-pin

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 325 LGR	Light grey	100	0.135	**2054485**

Tested according to EN 60998
Screwless terminal to connect single-strand cables.
Nominal cross-section:
3 x 0.5 mm² to 2.5 mm² single-wire conductors
3 x 1.5 mm² to 2.5 mm² rigid, multi-wire conductors
Rated voltage 450 V
Rated current 24 A
Stripping length: 8-9 mm
Test opening: Phase tester and testing pin (max. Ø 2 mm)
Max. approved ambient temperature according to EN 60998: –5 to +90 °C.



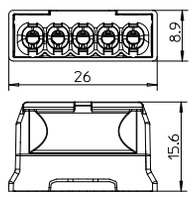


PA

Screwless terminal, 5-pin

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 525 LGR	Light grey	100	0.300	**2054507**

Screwless terminal to connect single-strand cables.
Nominal cross-section:
5 x 0.5 mm² to 2.5 mm² single-wire cable
5 x 1.5 mm² to 2.5 mm² rigid, multi-wire cable
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 8–9 mm.
Inspection opening: phase tester and testing pin (max. Ø 2 mm).



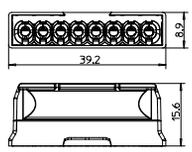


PA

Screwless terminal, 8-pin

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 825 LGR	Light grey	50	0.490	**2054523**

Screwless terminal to connect single-strand cables.
Nominal cross-section:
8 x 0.5 mm² to 2.5 mm² single-wire cables
8 x 1.5 mm² to 2.5 mm² rigid, multi-wire cables
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 8–9 mm.
Inspection opening: phase tester and testing pin (max. Ø 2 mm).





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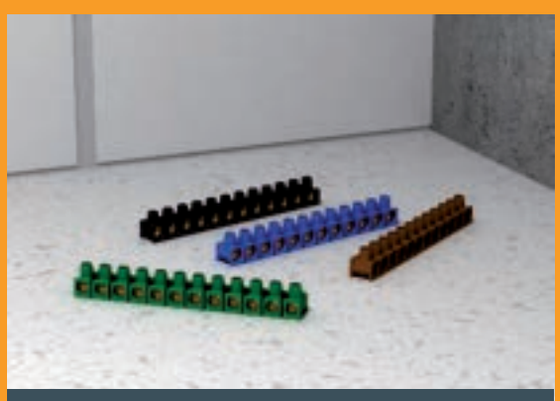


Dolü branch terminal

The branch terminal/terminal strip consists of an insulating plastic housing that serves as electric shock protection for the steel/brass terminal insert. Thus no voltage-carrying parts can be touched if the component is used correctly. The ends of the wire strands must be inserted using ferrules. These ensure no mechanical damage can occur and rule out the risk of damage to individual strands from the clamping screw as it turns. When using terminal strips, it must be ensured in each individual case that the installation conforms to the applicable VDE standards.



12-pin, individual terminals detachable



Various colours

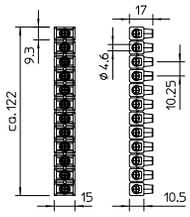
PA

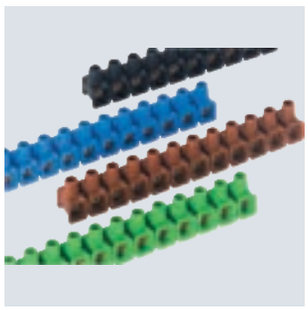
2,5 mm² – 12 –

Dolü branch terminals, open on both sides, 12-pin

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
70 VDE	Sorted	400	10	2.500	**2055023**

Sorted in colours black, brown, blue and yellow-green.
Terminals made of brass, screws of steel, galvanised and transparently passivated, 12-pole, strip separable into individual terminals, open on both sides.
Captive upwards screw.
Nominal cross-section 2,5 mm².
Nominal voltage 380 V.
Nominal current 16 A.
Max. connectable cross-sections per terminal: 4 x 2.5 mm², 5 x 1.5 mm² or 6 x 1 mm².



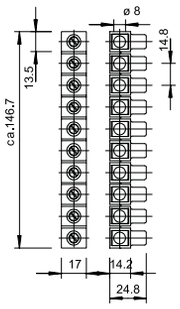


PP

Dolü branch terminals, open on both sides, 10-pin

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
71	Black	120	10	7.030	**2055503**

Terminals made of brass, screws of steel, galvanised and transparently passivated, 10-pole, strip separable into individual terminals, open on both sides.
Captive upwards screw.
Nominal cross-section 10 mm².
Nominal voltage 380 V.
Max. connectable cross-sections per terminal: 3 x 10 mm², 4 x 6 mm².



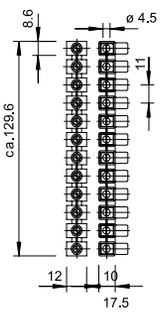


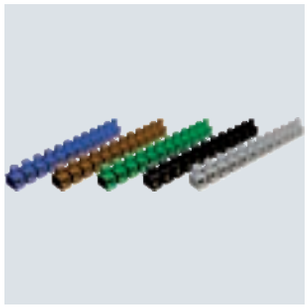
PA

Dolü branch terminals, open on one side

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
70 S	Sorted	180	10	2.852	**2055201**

Terminals made of brass, screws of steel, galvanised and transparently passivated, 12-pole, strip separable into individual terminals, only open on one side.
Closed on one side, captive upwards screw.
Nominal cross-section 2,5 mm².
Nominal voltage 250 V.
Nominal current 24 A.
Max. connectable cross-sections per terminal: 4 x 2.5 mm², 5 x 1.5 mm² or 6 x 1 mm².
Delivery sorted by colour: 3 black, 2 blue, 3 yellow-green, 1 brown and 1 grey strip in each packaging unit.



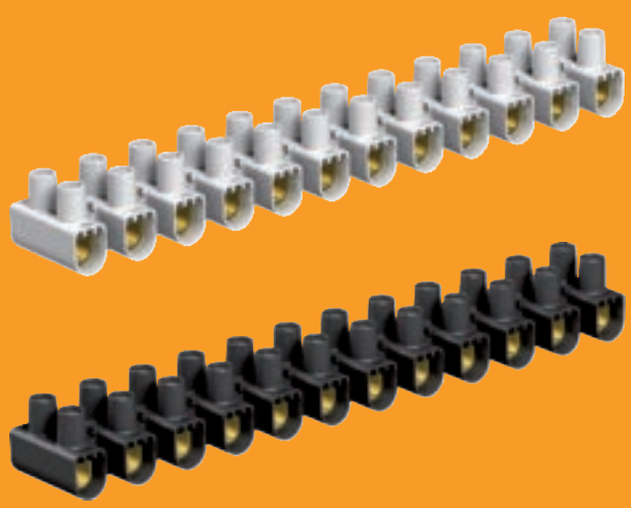


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Terminal strips

The branch terminal/terminal strip consists of an insulating plastic housing that serves as electric shock protection for the steel/brass terminal insert. Thus no voltage-carrying parts can be touched if the component is used correctly. The ends of wire strands must be inserted with wire end sleeves to ensure no mechanical damage can occur and rule out the risk of damage to individual strands from the clamping screw as it turns.



- Tested to EN 60998
- Brass terminals, bolts made of electrogalvanised steel
- 12-pin strips, separable into individual terminals through "twist'n'pull"
- Captive upwards screw
- Max. approved ambient temperature to EN 60998: –5 to +80 °C
- Nominal cross-section 4–35 mm²

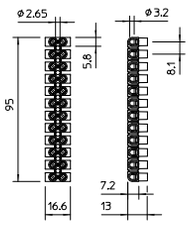
PP

4 mm²

4 mm² series connectors, polypropylene

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
72 CE WS/EKL 0 S	White	500	10	1.800	**2056070**
72 CE SW/EKL 0 S	Black	500	10	1.800	**2056089**

Tested according to EN 60998.
Steel terminals, steel screws, electrogalvanised, 12-pin, individual terminals detachable from strips using "twist'n'pull".
Captive upwards screw.
Max. approved ambient temperature to EN 60998: —5 to +80 °C.
Nominal cross-section 4 mm².
Nominal voltage 450 V.
Nominal current 32 A.
Max. attachment each side: 4 mm² single-wire or 2.5 mm² multi-wire/flexible.





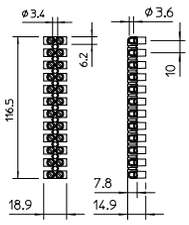
PP

6 mm²

6 mm² series connectors, polypropylene

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
74 CE WS/EKL 1 S	White	200	10	2.600	**2056224**
74 CE SW/EKL 1 S	Black	200	10	2.600	**2056232**

Tested according to EN 60998.
Steel terminals, steel screws, electrogalvanised, 12-pin, individual terminals detachable from strips using "twist'n'pull".
Captive upwards screw.
Max. approved ambient temperature to EN 60998: —5 to +80 °C.
Nominal cross-section 6 mm².
Nominal voltage 450 V.
Nominal current 41 A.
Max. connections on each side: 6 mm² single-wire or 4 mm² fine-wire.





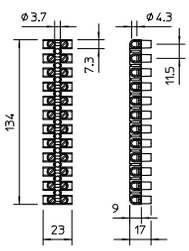
PP

10 mm²

10 mm² series connectors, polypropylene

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
76 CE WS/EKL 2 S	White	100	10	4.300	**2056372**
76 CE SW/EKL 2 S	Black	100	10	4.300	**2056380**

Tested to EN 60998.
Steel terminals, steel screws, electrogalvanised, 12-pole, individual terminals detachable from strips using "twist'n'pull".
Captive upwards screw.
Max. approved ambient temperature to EN 60998: –5 to +80 °C.
Nominal cross-section 10 mm².
Nominal voltage 450 V.
Nominal current 57 A.
Max. attachment each side: 10 mm² single-wire or 6 mm² multi-wire/flexible.





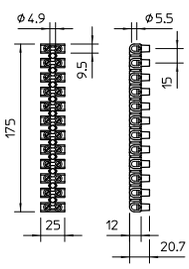
PP

16 mm²

16 mm² series connectors, polypropylene

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
78 CE WS/EKL 3 S	White	100	10	7.500	**2056550**
78 CE SW/EKL 3 S	Black	100	10	7.500	**2056569**

Tested to EN 60998.
Steel terminals, steel screws, electrogalvanised, 12-pole, individual terminals detachable from strips using "twist'n'pull".
Captive upwards screw.
Max. approved ambient temperature to EN 60998: –5 to +80 °C.
Nominal cross-section 16 mm².
Nominal voltage 450 V.
Nominal current 76 A.
Max. attachment each side: 16 mm² single-wire or 10 mm² multi-wire or 6 mm² flexible.

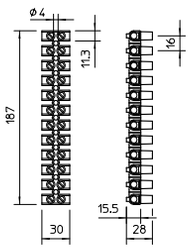




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25 mm² series connectors, polypropylene



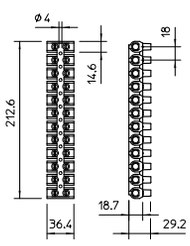


Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
79 CE WS/EKL 4BE	White	50	10	11.200	**2056577**
79 CE SW/EKL 4BE	Black	50	10	11.200	**2056585**

Tested to EN 60998.
Brass terminals, steel screws, electrogalvanised and transparently passivated, 12-pole, individual terminals detachable from strips.
Captive upwards screw.
Max. approved ambient temperature to EN 60998: –5 to +80 °C.
Nominal cross-section 25 mm².
Nominal voltage 750 V.
Nominal current 101 A.
Max. attachment each side: 25 mm² multi-wire or 16 mm² fine-wire.

35 mm² series connectors, polypropylene





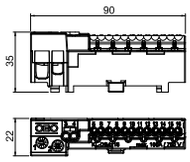
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
80 CE WS/EKL 5E	White	50	10	17.400	**2056590**
80 CE SW/EKL 5E	Black	50	10	17.400	**2056593**

Tested to EN 60998.
Brass terminals, steel screws, electrogalvanised, 12-pole, individual terminals detachable from strips.
Captive upwards screw.
Max. approved ambient temperature to EN 60998: –5 to +80 °C.
Nominal cross-section 35 mm².
Nominal voltage 750 V.
Nominal current 125 A.
Max. attachment each side: 35 mm² multi-wire or 25 mm² fine-wire.

Phase terminal

Phase terminal, with screwless contacts, 12 terminals





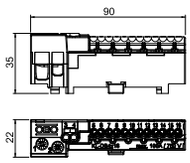
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KL-DBP12x02GR	Grey	10	4.500	**2016270**

Phase connection terminal with 12 2.5 mm² screwless terminal points; two 4 mm² screwless terminal points and two 16/25 mm² screw connection terminal points.
For snapping onto 15 mm hat rails to DIN EN 50022.

Protective conductor terminals

Protective conductor terminal, with screwless contacts, 12 terminals



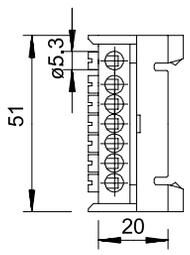


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KL-DBS12x02GRGN	Grey/green	10	4.500	**2016260**

Neutral conductor connection terminal with 12 plug-in terminals, 2.5 mm² or 1.5 mm², flexible with wire end sleeve; two plug-in terminals, 4 mm² and 2.5 mm², flexible with wire end sleeve and two screw connection terminals up to 25 mm² or 16 mm², flexible, 3 Nm. For snapping onto 15 mm hat rails according to DIN EN 60715 (formerly DIN EN 50022).

Protection conductor terminals, with screw contacts, 7 terminals





Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
60 S 7x16 GN	Green	10	2.900	**2054019**

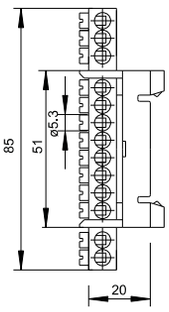
Protective conductor connection terminal with 7 terminals up to 16 mm².
Clamping rail, brass, steel screws, electrogalvanised and transparently passivated, for snapping onto 35 x 7.5 mm hat profile rails to DIN EN 60715 (previously DIN EN 50022) (transverse) or flat rails 10 x 2–2.5 mm (lengthwise).

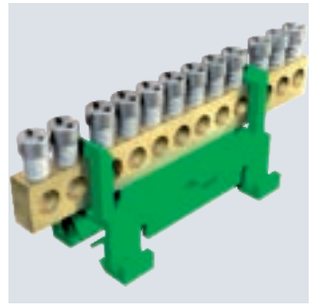
PA

Protection conductor terminals, with screw contacts, 12 terminals

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
60 S 12x16 GN	Green	10	4.200	**2054094**

Protective conductor connection terminal with 7 terminals up to 16 mm².
Clamping rail, brass, steel screws, electrogalvanised and transparently passivated, for snapping onto 35 x 7.5 mm hat profile rails to DIN EN 60715 (previously DIN EN 50022) (transverse) or flat rails 10 x 2–2.5 mm (lengthwise).



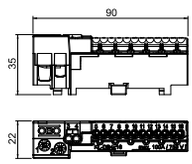


PA

Neutral conductor terminal, with screwless contacts, 12 terminals

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KL-DBN12x02GRBL	Grey/blue	10	4.500	**2016265**

Neutral conductor connection terminal with 12 plug-in terminals, 2.5 mm² or 1.5 mm², flexible with wire end sleeve; two plug-in terminals, 4 mm² and 2.5 mm², flexible with wire end sleeve and two screw connection terminals up to 25 mm² or 16 mm², flexible, 3 Nm. For snapping onto 15 mm hat rails according to DIN EN 60715 (formerly DIN EN 50022).



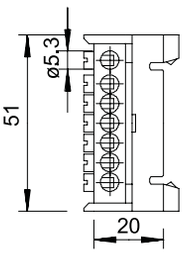


PA

Neutral conductor terminals, with screw contacts, 7 terminals

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
60 N 7x16 BL	Blue	10	2.900	**2054000**

Neutral conductor connection terminal with 7 terminals up to 16 mm².
Clamping rail, brass, steel screws, electrogalvanised and transparently passivated, for snapping onto 35 mm hat rails to DIN EN 60715 - previously DIN EN 50022 - (transverse) or flat rails 10 x 2-2.5 mm (lengthwise).



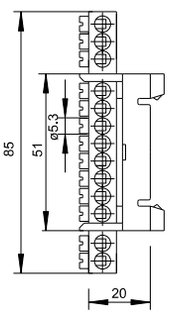


PA

Neutral conductor terminals, with screw contacts, 12 terminals

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
60 N 12x16 BL	Blue	10	4.200	**2054086**

Neutral conductor connection terminal with 12 terminals up to 16 mm².
Clamping rail, brass, steel screws, electrogalvanised and transparently passivated, for snapping onto 35 mm hat rails to DIN EN 60715 - previously DIN EN 50022 - (transverse) or flat rails 10 x 2-2.5 mm (lengthwise).





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Cable glands


Plastic 206


Accessories, glands, plastic 232


Metal 244


Accessories, glands, metal 258

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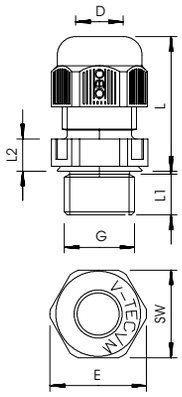


Cable glands V-TEC VM and V-TEC VM L

The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO.

- Fast and convenient means of cable entry for junction boxes and housings
- With the integrated sealing lip and the special OBO lamella technology, protection class IP68 is achieved
- Strain relief and tightness have been tested to DIN EN 62444
- The connecting threads are metric and are therefore suitable for universal use
- Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet
- Temperature range: –20 °C to +65 °C





- Fast, convenient means of cable entry for junction boxes and housings
- With the integrated sealing lip and the special OBO lamella technology, protection class IP68 is achieved
- Strain relief and tightness have been tested to DIN EN 62444
- The connecting threads are metric and are therefore suitable for universal use
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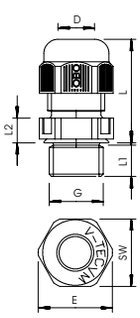
G	D	SW	E	L min.	L max.	L1	L2
	mm	mm	mm	mm	mm	mm	mm
M12 x 1.5	3.5–7	15	16.5	18.5	23.5	8	5
M16 x 1.5	4.5–10	20	22	21.5	29	8	5
M20 x 1.5	6–13	24	27	23.5	30.5	10	6
M25 x 1.5	9–17	29	32	26	35	10	6
M32 x 1.5	15–21	36	41	29	40	11	6
M40 x 1.5	16–28	44	50	36	46	11	7
M50 x 1.5	23–35	54	60	43	52	12	8
M63 x 1.5	36–48	67	75	48	60	12	9

Cap nut cable gland, plastic metric

PA

Cap nut cable gland, metric thread, light grey

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM12 LGR	Light grey	500	50	0.318	**2022862**
V-TEC VM16 LGR	Light grey	500	50	0.638	**2022864**
V-TEC VM20 LGR	Light grey	600	50	0.856	**2022866**
V-TEC VM25 LGR	Light grey	300	25	1.360	**2022868**
V-TEC VM32 LGR	Light grey	240	20	2.235	**2022870**
V-TEC VM40 LGR	Light grey	120	10	3.467	**2022872**
V-TEC VM50 LGR	Light grey	60	5	5.466	**2022874**
V-TEC VM63 LGR	Light grey	60	5	8.306	**2022876**





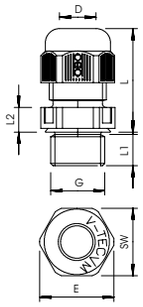
The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connecting threads of the cable glands are metric or PG and are therefore suitable for universal use. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.
Temperature range: –20 °C to +65 °C.

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Cap nut cable gland, plastic metric

Cap nut cable gland, metric thread, silver grey



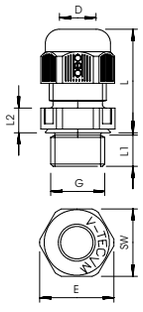


Type	Thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM12 SGR	M12 x 1,5	Silver grey	50	0.318	**2022843**
V-TEC VM16 SGR	M16 x 1,5	Silver grey	50	0.638	**2022845**
V-TEC VM20 SGR	M20 x 1,5	Silver grey	50	0.856	**2022847**
V-TEC VM25 SGR	M25 x 1,5	Silver grey	25	1.360	**2022849**
V-TEC VM32 SGR	M32 x 1,5	Silver grey	20	2.230	**2022851**
V-TEC VM40 SGR	M40 x 1,5	Silver grey	10	3.467	**2022853**
V-TEC VM50 SGR	M50 x 1,5	Silver grey	5	5.466	**2022855**
V-TEC VM63 SGR	M63 x 1,5	Silver grey	5	8.306	**2022857**

The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. With the integrated sealing lip and the special OBO lamella technology, protection class IP68 is achieved. Strain relief and tightness have been tested to DIN EN 62444. The connecting threads of the cable glands are metric or PG and are therefore suitable for universal use. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.
Temperature range: –20 °C to +65 °C.

Cap nut cable gland, metric thread, black



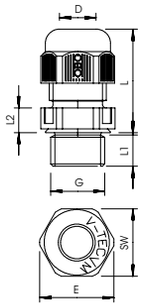


Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM12 SW	Black	500	50	0.318	**2022883**
V-TEC VM16 SW	Black	500	50	0.638	**2022885**
V-TEC VM20 SW	Black	600	50	0.856	**2022887**
V-TEC VM25 SW	Black	300	25	1.360	**2022889**
V-TEC VM32 SW	Black	240	20	2.230	**2022891**
V-TEC VM40 SW	Black	120	10	3.467	**2022893**
V-TEC VM50 SW	Black	60	5	5.466	**2022895**
V-TEC VM63 SW	Black	60	5	8.306	**2022897**

The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connecting threads of the cable glands are metric or PG and are therefore suitable for universal use. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.
Temperature range: –20 °C to +65 °C.

Cap nut cable gland, metric thread, UV-resistant, light grey





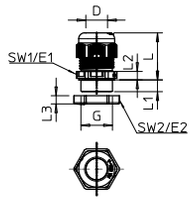
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM12UV LGR	Light grey	500	50	0.319	**2022900**
V-TEC VM16UV LGR	Light grey	500	50	0.590	**2022901**
V-TEC VM20UV LGR	Light grey	600	50	0.590	**2022902**
V-TEC VM25UV LGR	Light grey	300	25	1.360	**2022903**
V-TEC VM32UV LGR	Light grey	240	20	2.235	**2022904**
V-TEC VM40UV LGR	Light grey	120	10	3.496	**2022905**
V-TEC VM50UV LGR	Light grey	60	5	5.480	**2022906**
V-TEC VM63UV LGR	Light grey	60	5	8.328	**2022907**

The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection threads are metric. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.
Temperature range: –20 °C to +65 °C.

PA

Cap nut cable gland, metric thread, set with lock nut, light grey

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM12+ LGR	Light grey	600	50	0.337	**2022762**
V-TEC VM16+ LGR	Light grey	500	50	0.795	**2022764**
V-TEC VM20+ LGR	Light grey	600	50	1.106	**2022766**
V-TEC VM25+ LGR	Light grey	300	25	1.710	**2022768**
V-TEC VM32+ LGR	Light grey	240	20	2.840	**2022770**
V-TEC VM40+ LGR	Light grey	120	10	5.150	**2022772**
V-TEC VM50+ LGR	Light grey	60	5	6.356	**2022774**
V-TEC VM63+ LGR	Light grey	60	5	10.136	**2022776**



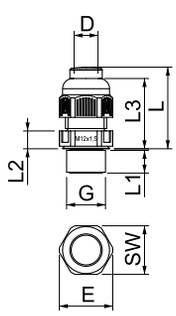


The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection threads are metric. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.
Temperature range: –20 °C to +65 °C.

PA

Cap nut cable gland, metric thread with screw plug, light grey

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM12VS LGR	Light grey	500	50	0.360	**2023040**
V-TEC VM16VS LGR	Light grey	500	50	0.730	**2023042**
V-TEC VM20VS LGR	Light grey	600	50	0.990	**2023044**
V-TEC VM25VS LGR	Light grey	300	25	1.550	**2023046**
V-TEC VM32VS LGR	Light grey	240	20	2.480	**2023048**



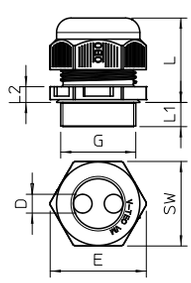


The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection threads are metric. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.
Temperature range: –20 °C to +65 °C.

PA

Cap nut cable gland, metric thread with multi-way seal insert, light grey

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM20 2x4	Light grey	600	50	0.860	**2022110**
V-TEC VM20 4x5	Light grey	600	50	0.860	**2022112**
V-TEC VM20 2x6	Light grey	600	50	0.860	**2022114**
V-TEC VM25 5x4	Light grey	300	25	1.360	**2022120**
V-TEC VM25 3x6	Light grey	300	25	1.360	**2022122**
V-TEC VM25 2x6	Light grey	300	25	1.360	**2022124**
V-TEC VM25 3x7	Light grey	300	25	1.360	**2022126**
V-TEC VM25 2x8	Light grey	300	25	1.360	**2022128**
V-TEC VM32 2x8	Light grey	240	20	2.240	**2022136**
V-TEC VM32 4x8	Light grey	240	20	2.240	**2022138**

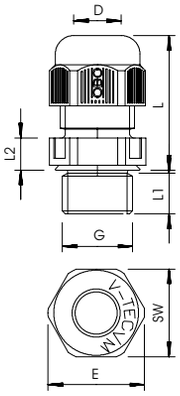




The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection threads are metric. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.
Temperature range: –20 °C to +65 °C.

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- Long connection thread (up to 33 mm) for thick-walled housing penetrations
- With the integrated sealing lip and the special OBO lamella technology, protection class IP68 is achieved
- Strain relief and tightness have been tested to DIN EN 62444
- The connecting threads are metric and are therefore suitable for universal use
- Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet
- Temperature range: –20 °C to +65 °C

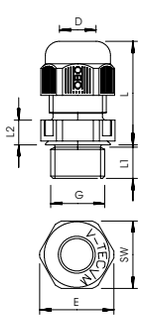
G	D	SW	E	L min.	L max.	L1	L2
	mm	mm	mm	mm	mm	mm	mm
M12 x 1.5	3.5–7	15	16.5	17.5	24	15	12
M16 x 1.5	4.5–10	20	22	20.5	29.5	15	15.5
M20 x 1.5	6–13	24	27	22.5	32.5	15	17.5
M25 x 1.5	9–17	29	32	25.5	36	15	19.5
M32 x 1.5	15–21	36	41	28	40	15	22
M40 x 1.5	16–28	44	50	32	46	18	25
M50 x 1.5	23–35	54	60	37.5	54.3	18	29.5
M63 x 1.5	36–48	68	75	41.5	60.3	18	32.5

Cap nut cable gland, plastic metric

Cap nut cable gland, metric thread, long, light grey

PA





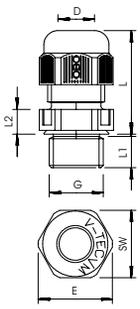
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM L12 LGR	Light grey	500	50	0.392	**2022943**
V-TEC VM L16 LGR	Light grey	500	50	0.727	**2022945**
V-TEC VM L20 LGR	Light grey	600	50	0.883	**2022947**
V-TEC VM L25 LGR	Light grey	300	25	1.597	**2022949**
V-TEC VM L32 LGR	Light grey	240	20	2.047	**2022951**
V-TEC VM L40 LGR	Light grey	120	10	3.168	**2022953**
V-TEC VM L50 LGR	Light grey	60	5	5.010	**2022955**
V-TEC VM L63 LGR	Light grey	60	5	7.390	**2022957**

The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection threads are metric. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.
Temperature range: –20 °C to +65 °C.

PA

Cap nut cable gland, metric thread, long, silver grey

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM L12 SGR	Silver grey	500	50	0.392	**2022921**
V-TEC VM L16 SGR	Silver grey	500	50	0.727	**2022924**
V-TEC VM L20 SGR	Silver grey	600	50	0.883	**2022926**
V-TEC VM L25 SGR	Silver grey	300	25	1.597	**2022928**
V-TEC VM L32 SGR	Silver grey	240	20	2.047	**2022930**
V-TEC VM L40 SGR	Silver grey	120	10	3.168	**2022933**
V-TEC VM L50 SGR	Silver grey	60	5	5.010	**2022935**
V-TEC VM L63 SGR	Silver grey	60	5	7.390	**2022937**



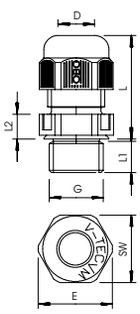


The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection threads are metric. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.
Temperature range: –20 °C to +65 °C.

PA

Cap nut cable gland, metric thread, long, black

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM L12 SW	Black	500	50	0.392	**2022964**
V-TEC VM L16 SW	Black	500	50	0.727	**2022966**
V-TEC VM L20 SW	Black	600	50	0.883	**2022968**
V-TEC VM L25 SW	Black	300	25	1.597	**2022970**
V-TEC VM L32 SW	Black	240	20	2.047	**2022972**
V-TEC VM L40 SW	Black	120	10	3.168	**2022974**
V-TEC VM L50 SW	Black	60	5	5.010	**2022976**
V-TEC VM L63 SW	Black	60	5	7.390	**2022978**





The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection threads are metric. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.
Temperature range: –20 °C to +65 °C.

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Cap nut cable gland, metric thread, extra long, black

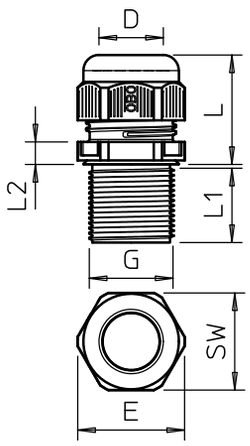
PA



Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM LL16 SW	Black	500	50	0.800	**2022985**
V-TEC VM LL20 SW	Black	600	50	1.000	**2022987**
V-TEC VM LL25 SW	Black	300	25	1.700	**2022989**
V-TEC VM LL32 SW	Black	240	20	2.200	**2022991**
V-TEC VM LL40 SW	Black	120	10	2.200	**2022993**
V-TEC VM LL50 SW	Black	60	5	5.500	**2022995**
V-TEC VM LL63 SW	Black	60	5	7.500	**2022997**

The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection threads are metric. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.
Temperature range: –20 °C to +65 °C.

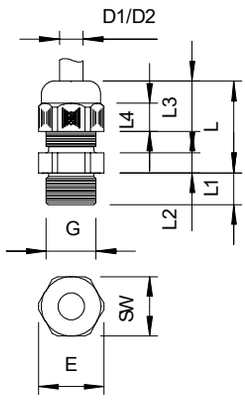
Dimensions



Type	Thread	Sealing range D mm	SW mm	Dim. E mm	Dim. L min. mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	Installation torque Nm
V-TEC VM LL16 SW	M16x1,5	4.5-10	20	22	20.5	29.5	24	5	2.5
V-TEC VM LL20 SW	M20x1,5	6-13	24	27	22.5	32.5	24	5	3.75
V-TEC VM LL25 SW	M25x1,5	9-17	29	32	25.5	36	24	6	5
V-TEC VM LL32 SW	M32x1,5	15-21	36	41	28	40	24	6	7.5
V-TEC VM LL40 SW	M40x1,5	16-28	44	50	36	46	24	7	10
V-TEC VM LL50 SW	M50x1,5	23-35	54	60	37.5	54.3	24	8	12
V-TEC VM LL63 SW	M63x1,5	36-48	68	75	41.5	60.3	24	9	12

Cable gland, PG thread





- PG connection thread
- With the integrated sealing lip, protection class IP68 is achieved
- Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet
- Temperature range: –20 °C to +65 °C

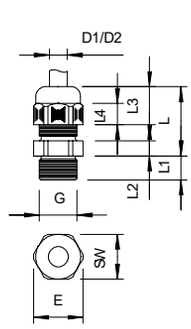
G	D1	D2	SW	E	L min.	L max.	L1	L2	L3
	mm	mm	mm	mm	mm	mm	mm	mm	mm
Pg 7	2.5–6.5	3–6.5	15	16.5	18	23	8	5	12.6
Pg 9	2.5–8	3.5–8	19	21	21	27	8	5	15.5
PG 11	3.5–10	4.5–10	22	25	22	29	8	5	17
Pg 13.5	5–12	6–12	24	27	23	30	9	5	18
Pg 16	7–14	7–14	27	30	25	33	10	6	19
Pg 21	9–18	12–18	33	37.5	28	38	11	6	22
Pg 29	14–25	17–25	42	47.5	32	43	11	7	24.5
Pg 36	18–32	20–32	53	60	39	54	13	8	31
Pg 42	24–38	26–38	60	68.5	42	57	13	9	32.5
Pg 48	30–44	30–44	65	74	42	58	14	9	33

Cap nut cable gland, plastic PG thread

PA

Cap nut cable gland, PG thread, silver grey

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC PG7 SGR	Silver grey	500	50	0.410	2022605
V-TEC PG9 SGR	Silver grey	500	50	0.630	2022613
V-TEC PG11 SGR	Silver grey	500	50	0.890	2022621
V-TEC PG13.5 SGR	Silver grey	400	50	1.020	2022648
V-TEC PG16 SGR	Silver grey	250	25	1.380	2022656
V-TEC PG21 SGR	Silver grey	300	25	2.290	2022664
V-TEC PG29 SGR	Silver grey	240	20	4.020	2022672
V-TEC PG36 SGR	Silver grey	120	10	6.040	2022680
V-TEC PG42 SGR	Silver grey	60	5	7.650	2022699
V-TEC PG48 SGR	Silver grey	60	5	9.460	2022702



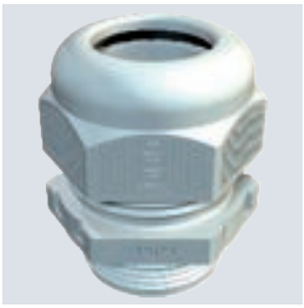


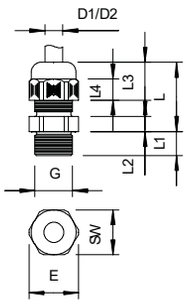
The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection thread is a PG thread. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
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Cap nut cable gland, PG thread, light grey

PA





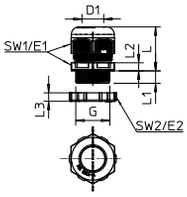
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC PG7 LGR	Light grey	500	50	0.410	**2024705**
V-TEC PG9 LGR	Light grey	500	50	0.630	**2024713**
V-TEC PG11 LGR	Light grey	500	50	0.890	**2024721**
V-TEC PG13 LGR	Light grey	400	50	1.020	**2024748**
V-TEC PG16 LGR	Light grey	250	25	1.380	**2024756**
V-TEC PG21 LGR	Light grey	300	25	2.290	**2024764**
V-TEC PG29 LGR	Light grey	240	20	4.020	**2024772**
V-TEC PG36 LGR	Light grey	120	10	6.030	**2024780**
V-TEC PG42 LGR	Light grey	60	5	7.650	**2024799**
V-TEC PG48 LGR	Light grey	60	5	9.460	**2024802**

The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection thread is a PG thread. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.
Temperature range: –20 °C to +65 °C.

Cap nut cable gland, PG thread, set with lock nut, light grey

PA



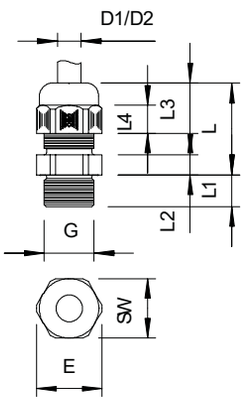


Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC PG7+ LGR	Light grey	600	50	0.503	**2024655**
V-TEC PG9+ LGR	Light grey	500	50	0.799	**2024657**
V-TEC PG11+ LGR	Light grey	500	50	1.074	**2024659**
V-TEC PG13,5+LGR	Light grey	400	50	1.276	**2024661**
V-TEC PG16+ LGR	Light grey	250	25	1.705	**2024663**
V-TEC PG21+ LGR	Light grey	300	25	2.756	**2024665**
V-TEC PG29+ LGR	Light grey	240	20	5.120	**2024667**
V-TEC PG36+ LGR	Light grey	120	10	7.713	**2024669**
V-TEC PG42+ LGR	Light grey	60	5	9.406	**2024671**
V-TEC PG48+ LGR	Light grey	60	5	11.290	**2024673**

The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection thread is a PG thread. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.
Temperature range: –20 °C to +65 °C.

Cable gland, long thread





- Long PG connection thread – 15–18 mm
- With the integrated sealing lip, protection class IP68 is achieved
- Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet
- Temperature range: –20 °C to +65 °C

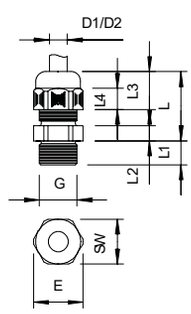
G	D1	D2	SW	E	L min.	L max.	L1	L2	L3
	mm	mm	mm	mm	mm	mm	mm	mm	mm
Pg 7	2.5–6.5	3–6.5	15		18	23	15	5	12.6
Pg 9	2.5–8	3.5–8	19	21	21	27	15	5	15.5
PG 11	3.5–10	4.5–10	22	25	22	29	15	5	17
Pg 13.5	5–12	6–12	24	27	23	30	15	5	18
Pg 16	7–14	7–14	27	30	25	33	15	6	19
Pg 21	9–18	12–18	33	37.5	28	38	15	6	22
Pg 29	14–25	17–25	42	47.5	32	43	15	7	24.5
Pg 36	18–32	20–32	53	60	39	54	18	8	31
Pg 42	24–38	26–38	60		42	57	18	9	32.5

Cap nut cable gland, plastic PG thread

PA

Cap nut cable gland, PG thread, long, silver grey

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC L PG9 SGR	Silver grey	500	50	0.670	**2024187**
V-TEC L PG11 SGR	Silver grey	500	50	0.930	**2024195**
V-TEC L PG13 SGR	Silver grey	600	50	1.090	**2024209**
V-TEC L PG16 SGR	Silver grey	250	25	1.490	**2024217**
V-TEC L PG21 SGR	Silver grey	300	25	2.330	**2024225**
V-TEC L PG29 SGR	Silver grey	240	20	3.860	**2024233**
V-TEC L PG36 SGR	Silver grey	120	10	7.750	**2024241**



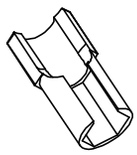


The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection thread is a PG thread. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
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Socket spanner attachment



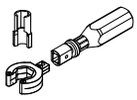


Type	Size	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC ST15	M12	15	1	3.500	**3010236**
V-TEC ST20	M16	20	1	3.700	**3010244**
V-TEC ST29	M25	29	1	8.500	**3010260**

Socket spanner attachment opened at the side with side for ground ratchet, V-TEC GR.

Ratchet set



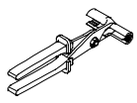


Type	Accessories	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC RA SET	1 ground ratchet 1 grip for ground ratchet 4 socket spanner attachments	1	71.600	**3010275**

Set consisting of a ground ratchet, type V-TEC RA, a grip for ground ratchet, type V-TEC GR, and four socket spanner attachments in sizes WAF 15, WAF 20, WAF 24 and WAF 29.

Special tongs for cable glands





Type	Pack Piece	Weight kg/100 pc.	Item no.
186	1	47.000	**3010104**

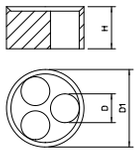
Universal tool for easy tightening of all glands up to size PG 21 or M25 x 1.5, also usable with glands very close to one another.
Small opening PG 7–PG 11.
Large opening PG 13.5–PG 21.

Multi-way seal insert, metric

NBR SBR

M





Type	Size mm	Dim. D mm	Dim. H mm	Dim. D1 mm	Number of drill holes	Pack Piece	Weight kg/100 pc.	Item no.
107 C VM 20 2x4	M20	4	8.1	15.1	2	50	0.130	**2029672**
107 C VM 20 4x5	M20	5	8.1	15.1	4	50	0.080	**2029675**
107 C VM 20 2x6	M20	6	8.1	15.1	2	50	0.100	**2029677**
107 C VM 25 5x4	M25	4	10	19.8	5	50	0.180	**2029679**
107 C VM 25 3x6	M25	6	10	19.8	3	50	0.210	**2029682**
107 C VM 25 2x6	M25	6	10	19.8	2	50	0.260	**2029685**
107 C VM 25 3x7	M25	7	10	19.8	3	50	0.180	**2029688**
107 C VM 25 2x8	M25	8	10	19.8	2	50	0.200	**2029690**
107 C VM 32 2x8	M32	8	13.4	25.1	2	25	0.530	**2029693**
107 C VM 32 4x8	M32	8	13.4	25.1	4	25	0.400	**2029696**

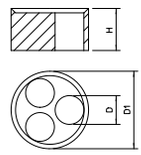
Use to insert multiple thin cables in the V-TEC VM cable glands, is replaced with the simple sealing ring of the cable gland.

NBR SBR

Pg

Multi-way seal insert, PG

Type	Size mm	Dim. D mm	Dim. H mm	Dim. D1 mm	Number of drill holes	Pack Piece	Weight kg/100 pc.	Item no.
107 C V 16 5x4	Pg 16	4	9.5	17.5	5	50	0.205	**2029618**
107 C V 16 3x5	Pg 16	5	9.5	17.5	3	50	0.210	**2029626**
107 C V 16 2x6	Pg 16	6	9.5	17.5	2	50	0.210	**2029634**
107 C V 16 3x6	Pg 16	6.5	9.5	17.5	3	50	0.155	**2029642**
107 C V 21 3x7	Pg 21	7	12	23	3	25	0.450	**2029650**
107 C V 21 2x8	Pg 21	8	12	23	2	25	0.340	**2029669**





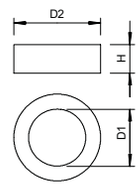
Use to insert multiple thin cables in the V-TEC cable glands, is replaced with the simple sealing ring of the cable gland.

CR NBR

M

Reducing sealing insert, metric

Type	Size mm	Sealing range D mm	Dim. D1 mm	Dim. D2 mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
107CR VM 12	M12	2-5	5	8.9	7.2	50	0.050	**2029560**
107CR VM 16	M16	2.5-7	7	12.7	8.1	50	0.115	**2029563**
107CR VM 20	M20	4-9	9	16	9.3	50	0.205	**2029566**
107CR VM 25	M25	6-13	13	20.7	10.5	50	0.340	**2029569**
107CR VM 32	M32	11-16	16	25.7	12.3	25	0.625	**2029572**
107CR VM 40	M40	12-23	23	33.7	15	25	1.140	**2029575**
107CR VM 50	M50	18-29	29	41.7	18.5	25	2.080	**2029578**
107CR VM 63	M63	29-40	40	54.8	20.2	25	3.560	**2029581**





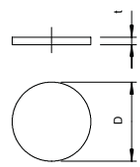
Reduces the sealing area D of the cable gland V-TEC VM and V-TEC VM L.

ZELL PE

M

Dust protection plate, metric

Type	Size mm	Dim. D mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
107 S VTEC M12	M12	12	1.5	100	0.001	**2028870**
107 S VTEC M16	M16	16	1.5	100	0.002	**2028873**
107 S VTEC M20	M20	20	1.5	100	0.010	**2028875**
107 S VTEC M25	M25	25	1.5	100	0.008	**2028877**
107 S VTEC M32	M32	32	1.5	100	0.012	**2028880**
107 S VTEC M40	M40	40	1.5	100	0.022	**2028883**
107 S VTEC M50	M50	50	1.5	100	0.040	**2028885**





Cellular polyethylene.
Small protective disc to protect the V-TEC VM and V-TEC VM MS cable glands against dust before the cable is installed.
Application: the discs are pre-mounted between the cap nut and the seal. They do not need to be removed when the cable is installed, but are simply passed through to the interior with the cable.
Note: the discs do not provide any mechanical protection.

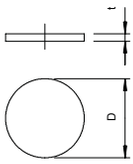
Industrieinstallation - Verbindungssysteme & Verlegesysteme / en / 2022/09/15 08:33:32 08:33:32 (LLExport_03198) / 2022/09/15 08:33:56

Dust protection plate, PG

ZELL PE

Pg





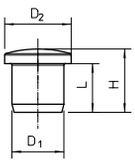
Type	Size mm	Dim. D mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
107 S VTEC PG7	Pg 7	11	2	100	0.001	**2028891**
107 S VTEC PG9	Pg 9	14	2	100	0.010	**2028905**
107 S VTEC PG11	Pg 11	16.5	2	100	0.003	**2028913**
107 S VTEC PG13	Pg 13,5	18.5	2	100	0.010	**2028921**
107 S VTEC PG16	Pg 16	21	2	100	0.006	**2028948**
107 S VTEC PG21	Pg 21	26.5	2	100	0.010	**2028956**
107 S VTEC PG29	Pg 29	34.5	2	100	0.015	**2028964**
107 S VTEC PG36	Pg 36	44	3	100	0.035	**2028972**
107 S VTEC PG42	Pg 42	50	3	100	0.050	**2028980**
107 S VTEC PG48	Pg 48	56	3	100	0.060	**2028999**

Cellular polyethylene.
Small protective disc to protect the V-TEC and V-TEC MS cable glands against dust before the cable is installed.
Application: the discs are pre-mounted between the cap nut and the seal. They do not need to be removed when the cable is installed, but are simply passed through to the interior with the cable.
Note: the discs do not provide any mechanical protection.

Screw plug, metric and PG

PA





Type	Size	Dim. D1 mm	Dim. L mm	Dim. D2 mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
107VS VM 5 PA	M12 / Pg9	5.5	9	10	12.5	50	0.047	**2029511**
107VS VM 9 PA	M16 / Pg13,5	9.5	12	13.5	16	50	0.090	**2029514**
107VS VM 12 PA	M20 / Pg16	12	12	16.5	16.5	50	0.130	**2029517**
107VS VM 16 PA	M25 / Pg21	16	15	20.5	19.5	50	0.190	**2029520**
107VS VM 20 PA	M32 / Pg29	20	17	24.5	21.5	25	0.250	**2029523**
107VS VM 27 PA	M40 / Pg36	27	20	32	24	10	0.353	**2029529**
107VS VM 35 PA	M50 / Pg42	35	25	39	29	5	0.500	**2029533**

Screw plug in for dust-proof and waterproof closure of installed but (as yet) unfilled V-TEC... cable glands.



Separable cable glands

The separable cable gland allows easy and quick installation, for example, of pre-terminated cables with connectors. In an existing installation, a missing or defective cable gland can be replaced or supplemented without dismantling and interruption.

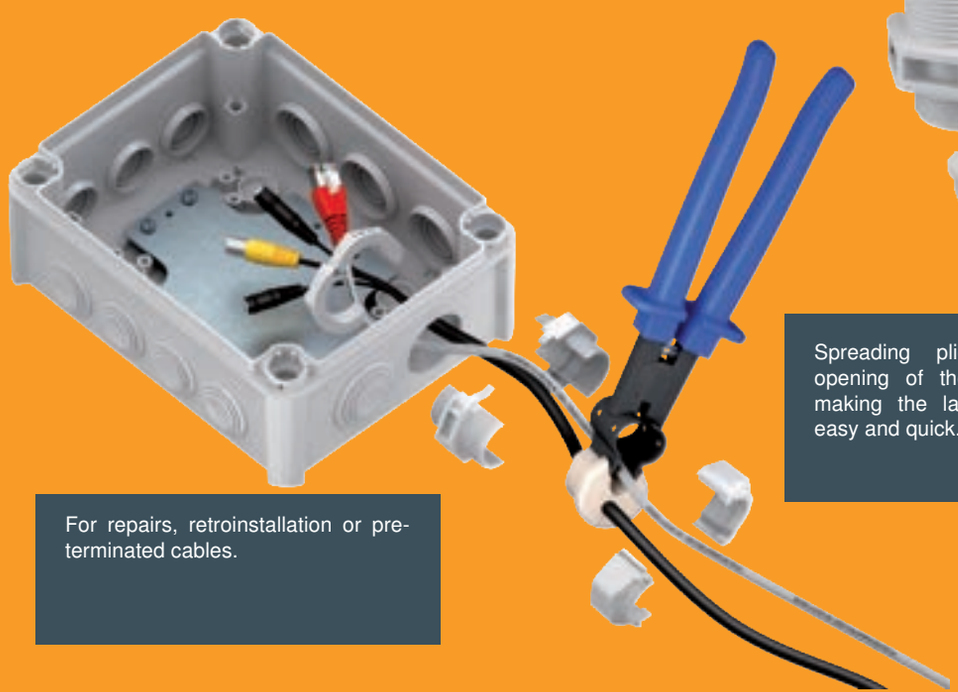


M20

M25

M30

IP 67



For repairs, retroinstallation or pre-terminated cables.

Spreading pliers for the best opening of the sealing inserts – making the laying of each cable easy and quick.

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Divisible cable gland, seal insert enclosed, light grey

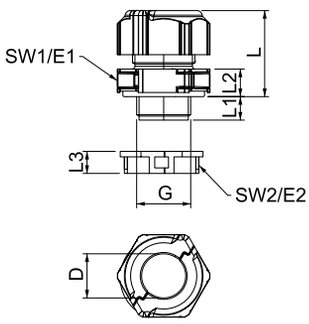
PC
IP 67 | M | M20 | 650° | UV RESISTANT



Type	Colour	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB20	Light grey	50		5	2.236	**2024940**

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Dimensions



Type	SW mm	Dim. L min. mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm
V-TEC TB20	30	24.5	30.5	10	8.5

Divisible cable gland, seal insert enclosed, light grey

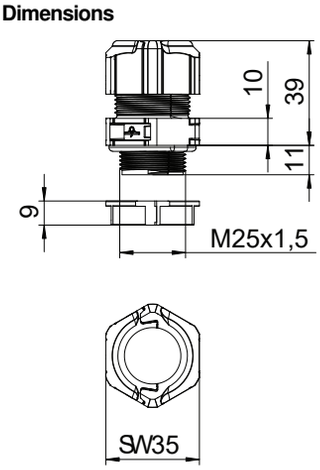
PC
IP 67 | M | M25 | 650° | UV RESISTANT



Type	Colour	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB25	Light grey	50		5	3.440	**2024910**

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Dimensions



Type	SW mm	Dim. E mm	Dim. L min. mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm
V-TEC TB25	35	39	31.5	40	11	10

PC

IP 67 | M | M32 | Halogen-free | 650° | UV resistant

Divisible cable gland, seal insert enclosed, light grey

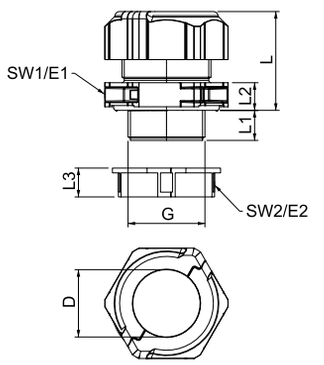
Type	Colour	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB32	Light grey	60		5	7.756	**2024970**



The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Type	SW mm	Dim. E mm	Dim. L min. mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm
V-TEC TB32	46	51.5	32	41	14	10

Dimensions



PC

IP 67 | M | M20 | Halogen-free | 650° | UV resistant

Divisible cable gland, seal insert, 1 cable, light grey

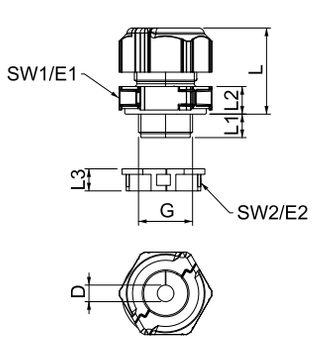
Type	Colour	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB20 06-08	Light grey	50		5	2.133	**2024942**
V-TEC TB20 08-10	Light grey	50		5	2.063	**2024944**
V-TEC TB20 09-13	Light grey	50		5	1.973	**2024946**
V-TEC TB20 11-14	Light grey	50		5	1.853	**2024948**



The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Type	Sealing range D mm	SW 1 mm	SW 2 mm	Dim. L1 mm	Dim. L2 mm	Dim. L mm
V-TEC TB20 06-08	6 - 8	30	27	10	8.5	30
V-TEC TB20 08-10	8 - 10.5	30	27	10	8.5	30
V-TEC TB20 09-13	9 - 13	30	27	10	8.5	30
V-TEC TB20 11-14	11.5 - 14.5	30	27	10	8.5	30

Dimensions



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Divisible cable gland, seal insert, 1 cable, light grey

PC

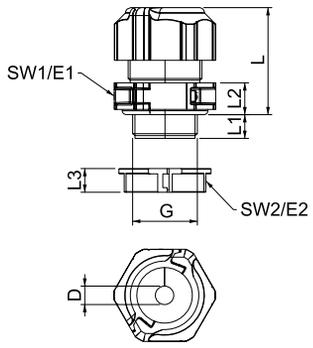
IP 67 | M | M25 | Halogen-free | 650° | UV resistant



Type	Colour	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB25 06-09	Light grey	50		5	2.900	**2024912**
V-TEC TB25 09-11	Light grey	50		5	2.900	**2024913**
V-TEC TB25 11-13	Light grey	50		5	3.110	**2024916**
V-TEC TB25 12-15	Light grey	50		5	2.980	**2024919**
V-TEC TB25 14-18	Light grey	50		5	2.510	**2024922**
V-TEC TB25 18-20	Light grey	50		5	2.290	**2024925**

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Dimensions



Type	Sealing range D mm	SW 1 mm	SW 2 mm	Dim. L1 mm	Dim. L2 mm	Dim. L mm
V-TEC TB25 06-09	6-7.5	35	31	11	10	41
V-TEC TB25 09-11	9-11	35	31	11	10	41
V-TEC TB25 11-13	11-13	35	31	11	10	41
V-TEC TB25 12-15	12-15	35	31	11	10	41
V-TEC TB25 14-18	14-18	35	31	11	10	41
V-TEC TB25 18-20	18-20	35	31	11	10	41

Divisible cable gland, seal insert, 1 cable, light grey

PC

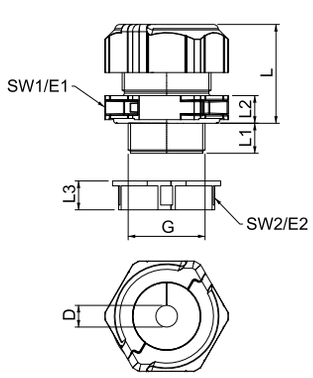
IP 67 | M | M32 | Halogen-free | 650° | UV resistant



Type	Colour	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB32 09-13	Light grey	60		5	7.416	**2024972**
V-TEC TB32 11-15	Light grey	60		5	7.246	**2024974**
V-TEC TB32 14-18	Light grey	60		5	7.069	**2024976**
V-TEC TB32 17-20	Light grey	60		5	7.156	**2024978**
V-TEC TB32 20-25	Light grey	60		5	6.396	**2024980**
V-TEC TB32 24-26	Light grey	60		5	6.026	**2024982**

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Dimensions



Type	Sealing range D mm	SW 1 mm	SW 2 mm	Dim. L1 mm	Dim. L2 mm	Dim. L mm
V-TEC TB32 09-13	9-13	46	40	14	10	41
V-TEC TB32 11-15	11.5-15.5	46	40	14	10	41
V-TEC TB32 14-18	14-18	46	40	14	10	41
V-TEC TB32 17-20	17-20.5	46	40	14	10	41
V-TEC TB32 20-25	20-25	46	40	14	10	41
V-TEC TB32 24-26	24-26.5	46	40	14	10	41

PC

IP 67 | M | M20 | Halogen-free | 650° | UV resistant

Separable cable gland, sealing insert, multiple, light grey

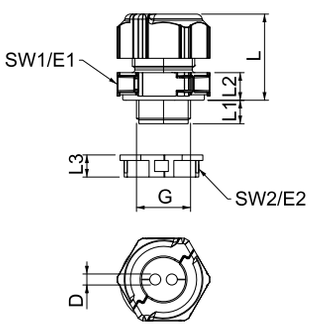
Type	Colour	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB20 2x4	Light grey	50		5	2.187	**2024950**
V-TEC TB20 2x5	Light grey	50		5	2.153	**2024952**
V-TEC TB20 2x6	Light grey	50		5	2.113	**2024954**
V-TEC TB20 4x4	Light grey	50		5	2.123	**2024956**
V-TEC TB20 6x4	Light grey	50		5	2.083	**2024958**



The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Type	Number of drill holes	Dim. D mm	Dim. L min. mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	Dim. E1 mm	SW 1 mm
V-TEC TB20 2x4	2	4	24.5	30.5	10	8.5	33.5	30
V-TEC TB20 2x5	2	5	24.5	30.5	10	8.5	33.5	30
V-TEC TB20 2x6	2	6	24.5	30.5	10	8.5	33.5	30
V-TEC TB20 4x4	4	4	24.5	30.5	10	8.5	33.5	30
V-TEC TB20 6x4	6	4	24.5	30.5	10	8.5	33.5	30

Dimensions



PC

IP 67 | M | M25 | Halogen-free | 650° | UV resistant

Separable cable gland, sealing insert, multiple, light grey

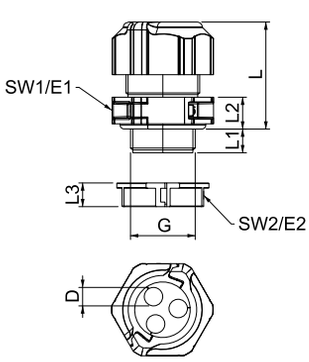
Type	Colour	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB25 3x7	Light grey	50		5	2.449	**2024927**
V-TEC TB25 3x9	Light grey	50		5	2.640	**2024928**
V-TEC TB25 4x5	Light grey	50		5	2.539	**2024929**
V-TEC TB25 4x6	Light grey	50		5	2.439	**2024930**
V-TEC TB25 4x8	Light grey	50		5	2.950	**2024931**



The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Type	Number of drill holes	Dim. D mm	Dim. L min. mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	Dim. E1 mm	SW 1 mm
V-TEC TB25 3x7	3	7	31.5	40	11	10	39	35
V-TEC TB25 3x9	3	9	31.5	40	11	10	39	35
V-TEC TB25 4x5	4	5	31.5	40	11	10	39	35
V-TEC TB25 4x6	4	6	31.5	40	11	10	39	35
V-TEC TB25 4x8	4	8	31.5	40	11	10	39	35

Dimensions



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Separable cable gland, sealing insert, multiple, light grey

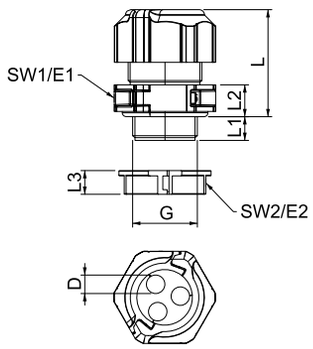
PC
IP 67 | M | M32 | UV RESISTANT



Type	Colour	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB32 2x11	Light grey	60		5	7.196	**2024984**
V-TEC TB32 3x9	Light grey	60		5	7.196	**2024986**
V-TEC TB32 3x11	Light grey	60		5	7.196	**2024988**
V-TEC TB32 4x8	Light grey	60		5	7.211	**2024990**
V-TEC TB32 6x6	Light grey	60		5	7.284	**2024992**

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Dimensions

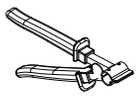


Type	Number of drill holes	Dim. D mm	Dim. L min. mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	SW 1 mm	Dim. E1 mm
V-TEC TB32 2x11	2	11	32	41	14	10	46	51.5
V-TEC TB32 3x9	3	9	32	41	14	10	46	51.5
V-TEC TB32 3x11	3	11	32	41	14	10	46	51.5
V-TEC TB32 4x8	4	8	32	41	14	10	46	51.5
V-TEC TB32 6x6	6	6	32	41	14	10	46	51.5

Spreading pliers for sealing insert, splittable cable gland

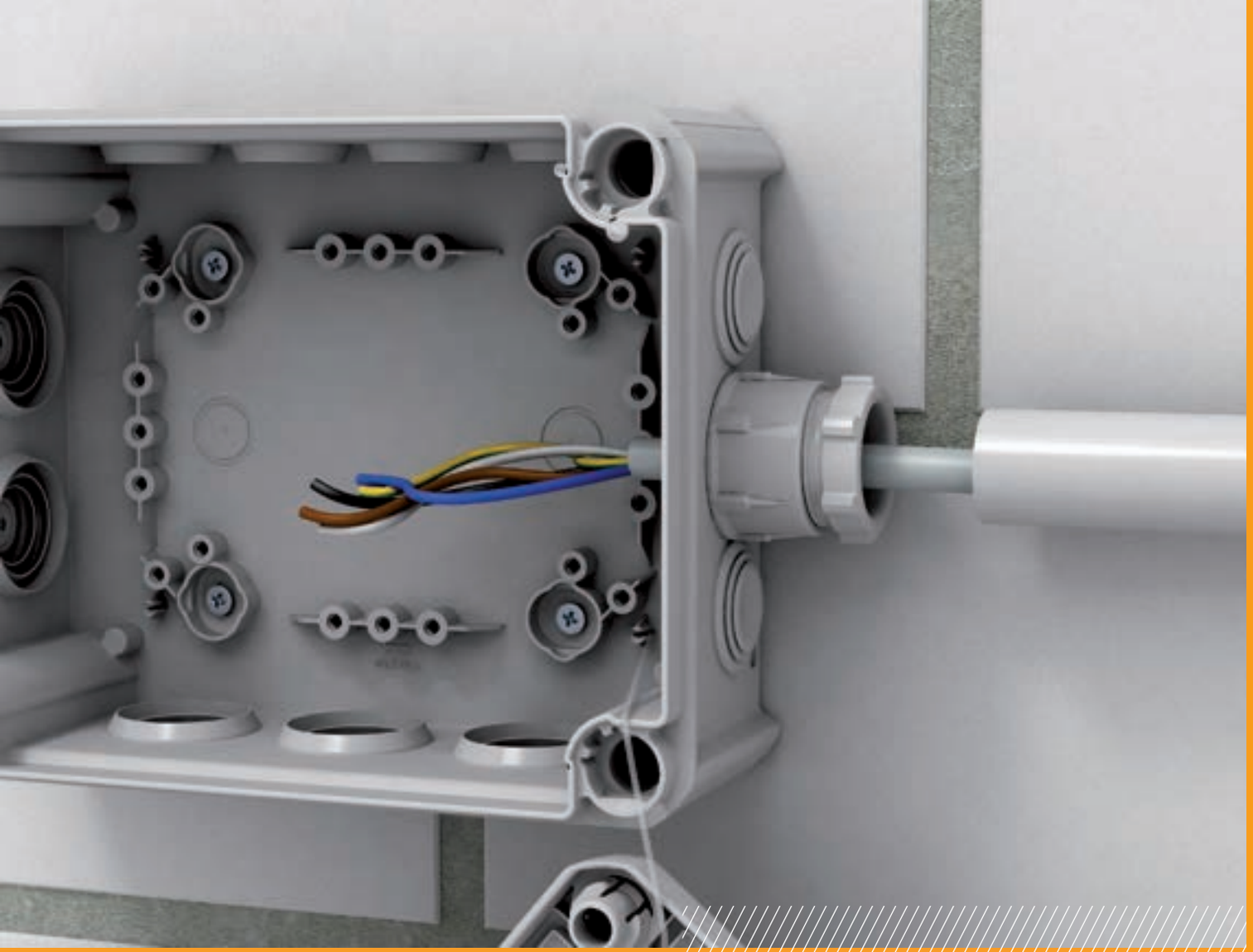
M25





Type		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TBZ		1	26.000	**2024900**

The ideal aiding tool is the pair of spreading pliers which can be used to open the sealing insert. With this tool, inserting the individual cables is quick and easy.
Place the cable in the spreading pliers, insert the spreading pliers into the sealing separation and then open them. Now the cable can easily be placed into the seal.



Cone cable glands

- Standard cable gland
- Shape A in accordance with DIN 46320 with simple NR/SBR sealing ring
- Metric connecting thread to IEC 423
- Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54
- With PG thread
- With metric thread
- Strain relief



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Cone cable gland, metric thread, light grey

PS

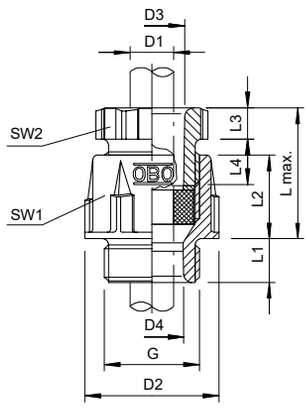
IP 54 IP 65 M



Type	Thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
106 M12 PS	M12 x 1,5	Light grey	50	0.400	**2035316**
106 M16 PS	M16 x 1,5	Light grey	50	0.560	**2035324**
106 M 20 PS	M20 x 1,5	Light grey	50	0.753	**2035332**
106 M 25 PS	M25 x 1,5	Light grey	50	1.018	**2035340**
106 M 32 PS	M32 x 1,5	Light grey	10	2.891	**2035359**
106 M 40 PS	M40 x 1,5	Light grey	10	4.973	**2035367**
106 M 50 PS	M50 x 1,5	Light grey	5	6.594	**2035375**
106 M 63 PS	M63 x 1,5	Light grey	5	9.630	**2035383**

Standard cable gland, shape A, to DIN 46320 with simple NR/SBR sealing ring with metric connection thread to IEC 423.
Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54.
Note: Only tighten polystyrene cable glands lightly due to the risk of stress crack formation.

Dimensions



Type	Thread	Sealing range D mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	SW 1 mm	SW 2 mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm	Dimension L4 mm
106 M12 PS	M12 x 1,5	3.5 - 6.5	16.5	7	7	15	13	23	8	13	5	8.5
106 M16 PS	M16 x 1,5	4.5 - 7	21.5	10.2	10	19	16	25	8	14	5	9
106 M 20 PS	M20 x 1,5	9 - 13	27	13.4	13.5	24	21	28	9	16	5	10.8
106 M 25 PS	M25 x 1,5	10 - 14	30	15.8	16	27	23	30	10	16.5	6	12
106 M 32 PS	M32 x 1,5	18 - 25	47.5	30.3	26	42	40	42	11	20.5	8	18
106 M 40 PS	M40 x 1,5	25 - 33	58	38.4	33	53	50	43	12	24	8	17
106 M 50 PS	M50 x 1,5	30 - 38	65	44.5	40.5	60	55	48	13	27	9	18.5
106 M 63 PS	M63 x 1,5	37 - 44	70	50	45.5	65	60	48	14	27	9	18.5

PS

IP 54 IP 65 Pg

Cone cable gland, PG thread, light grey

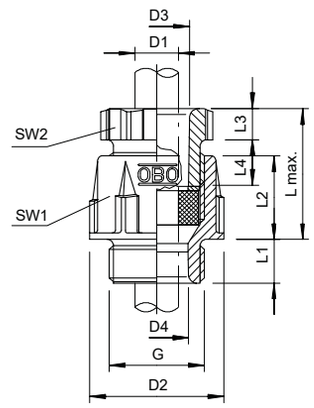
Type	Thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
106 PG7	Pg 7	Light grey	50	0.325	**2036061**
106 PG9	Pg 9	Light grey	50	0.560	**2036096**
106 PG11	Pg 11	Light grey	50	0.800	**2036118**
106 PG13.5	Pg 13,5	Light grey	50	0.794	**2036134**
106 PG16	Pg 16	Light grey	50	1.003	**2036169**
106 PG21	Pg 21	Light grey	50	1.760	**2036215**
106 PG29	Pg 29	Light grey	10	3.004	**2036290**
106 PG36	Pg 36	Light grey	10	6.240	**2036363**
106 PG42	Pg 42	Light grey	5	6.698	**2036428**
106 PG48	Pg 48	Light grey	5	7.336	**2036487**



Standard cable gland, shape A, to DIN 46320 with simple NR/SBR sealing ring.
PG connection thread in accordance with DIN 40430.
Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54.
Note: Only tighten polystyrene cable glands lightly due to the risk of stress crack formation.

Type	Thread	Sealing range D mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	SW 1 mm	SW 2 mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm	Dimension L4 mm
106 PG7	Pg 7	3.5 - 6.5	16.5	7	7	15	13	23	8	13	5	8.5
106 PG9	Pg 9	4.5 - 7	21.5	10.2	10.2	19	16	25	8	14	5	9
106 PG11	Pg 11	5.5 - 10	25	11.3	11.5	22	19	27	8	15	5	10
106 PG13.5	Pg 13,5	9 - 13	27	13.4	13.5	24	21	28	9	16	5	10.8
106 PG16	Pg 16	10 - 14	30	15.8	16.5	27	23	30	10	16.5	6	12
106 PG21	Pg 21	14 - 18	37.5	21.2	21	33	30	38	11	19	7	17
106 PG29	Pg 29	18 - 25	47.5	30	27.5	42	40	42	11	20.5	8	18
106 PG36	Pg 36	25 - 33	58	38	34.5	53	50	43	12	24	8	17
106 PG42	Pg 42	30 - 38	65	44.5	40.5	60	55	48	13	27	9	18.5
106 PG48	Pg 48	37 - 44	70	50	45.5	65	60	48	14	27	9	18.5

Dimensions

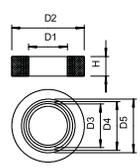


NBR SBR

Pg

Cutting ring

Type	Size mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	Dim. D5 mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
107 B PG9	Pg 9	5	13.3	7.5	10	0	5.5	100	0.090	**2029103**
107 B PG11	Pg 11	7.5	16.5	10	12.5	0	6	100	0.132	**2029111**
107 B PG13.5	Pg 13,5	7.5	18.3	10	12.5	0	6	100	0.172	**2029138**
107 B PG16	Pg 16	7.5	20.4	10	12.5	15	7	100	0.265	**2029162**
107 B PG21	Pg 21	10	25.9	13	16	19	8	100	0.490	**2029219**
107 B PG29	Pg 29	18	34.7	21	24	27	9.5	100	0.803	**2029294**
107 B PG36	Pg 36	24	44.7	27	30	33	12	50	1.733	**2029367**
107 B PG42	Pg 42	30	51.7	33	36	39	14	50	2.345	**2029421**
107 B PG48	Pg 48	36	56.9	39	42	45	14	50	2.615	**2029480**

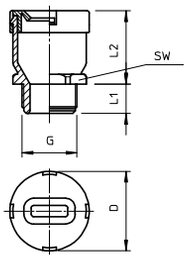




Rubber cutting ring (cuttable sealing ring) to DIN 46320 for cone cable gland.

Flat cable threaded connection, metric thread M20, stone grey



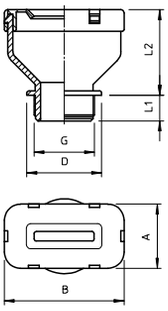


Type	Thread	Flat cables/ thickness mm	Flat cables/ width mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
106 FL M20 8 19	M20	6-8	17-19	Stone grey	50	0.909	**2013002**

Flat-cable entry, choke-nipple design with metric connecting thread to IEC 432, protection rating IP31, with pre-mounted support sealing ring 107/F.

Flat cable threaded connection, metric thread M25, stone grey



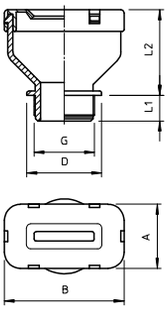


Type	Thread	Flat cables/ thickness mm	Flat cables/ width mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
106 FL M25 6 30	M25	4-6	27-30	Stone grey	25	2.630	**2013006**
106 FL M25 8 33	M25	6-8	30-33	Stone grey	25	2.630	**2013007**
106 FL M25 9 22	M25	7-9	19-22	Stone grey	25	2.630	**2013008**
106 FL M25 9 39	M25	7-9	36-39	Stone grey	25	1.816	**2013009**
106 FL M25 10 29	M25	8-10	26-29	Stone grey	25	2.630	**2013010**
106 FL M25 10 31	M25	8.5-10.5	28.5-31.5	Stone grey	25	2.630	**2013011**
106 FL M25 12 35	M25	9-12	31-35	Stone grey	25	2.630	**2013012**
106 FL M25 14 40	M25	11-14	37-40	Stone grey	25	2.680	**2013013**

Flat-cable entry, choke-nipple design with metric connecting thread to IEC 432, protection rating IP31, with pre-mounted support sealing ring 107/F.

Flat cable threaded connection, metric thread M32, stone grey





Type	Thread	Flat cables/ thickness mm	Flat cables/ width mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
106 FL M32 6 30	M32	4-6	27-30	Stone grey	15	3.450	**2013015**
106 FL M32 8 33	M32	6-8	30-33	Stone grey	15	3.450	**2013016**
106 FL M32 9 22	M32	7-9	19-22	Stone grey	15	3.450	**2013017**
106 FL M32 9 39	M32	7-9	36-39	Stone grey	15	3.450	**2013018**
106 FL M32 10 29	M32	8-10	26-29	Stone grey	15	3.450	**2013019**
106 FL M32 10 31	M32	8.5-10.5	28.5-31.5	Stone grey	15	3.450	**2013020**
106 FL M32 12 35	M32	9-12	31-35	Stone grey	15	3.450	**2013021**
106 FL M32 14 40	M32	11-14	37-40	Stone grey	15	3.500	**2013022**

Flat-cable entry, choke-nipple design with metric connecting thread to IEC 432, protection rating IP31, with pre-mounted support sealing ring 107/F.

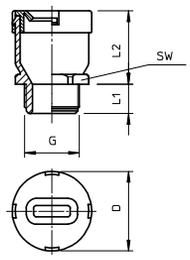
PE

IP 31 | Pg | 650° | Halogen-free

Flat cable threaded connection, PG thread Pg 16, stone grey

Type	Thread	Flat cables/ thickness mm	Flat cables/ width mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
106 FL 16 8 19	Pg 16	6-8	17-19	Stone grey	50	1.006	**2012758**

Flat-cable entry, choke-nipple design with PG connecting thread to DIN 40430, protection rating IP31, with pre-mounted support sealing ring 107/F.





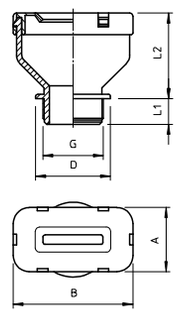
PE

IP 31 | Pg | 650° | Halogen-free

Flat cable threaded connection, PG thread rectangular version, stone grey

Type	Thread	Flat cables/ thickness mm	Flat cables/ width mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
106 FL 21 6 30	Pg 21	4-6	27-30	Stone grey	25	1.905	**2012855**
106 FL 21 8 33	Pg 21	6-8	30-33	Stone grey	25	1.977	**2012782**
106 FL 21 9 22	Pg 21	7-9	19-22	Stone grey	25	1.996	**2012820**
106 FL 21 9 39	Pg 21	7-9	36-39	Stone grey	25	1.975	**2012804**
106 FL 21 10 29	Pg 21	8-10	26-29	Stone grey	25	1.989	**2012839**
106 FL 21 10 31	Pg 21	8.5-10.5	28.5-31.5	Stone grey	25	1.999	**2012871**
106 FL 21 12 35	Pg 21	9-12	31-35	Stone grey	25	1.965	**2012847**
106 FL 21 14 40	Pg 21	11-14	37-40	Stone grey	25	2.015	**2012928**
106 FL 29 14 40	Pg 29	11-14	37-40	Stone grey	15	3.500	**2012774**

Flat-cable entry, choke-nipple design with PG connecting thread to DIN 40430, protection rating IP31, with pre-mounted support sealing ring 107/F.

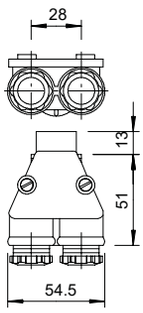




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Twin cable gland, PG thread, light grey



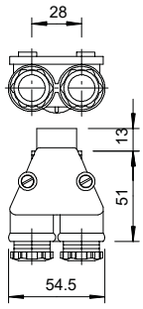


Type	Thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
113 PG13.5 LGR	Pg 13,5	Light grey	5	3.752	**2024136**
113 PG16 LGR	Pg 16	Light grey	5	4.360	**2024160**

With removable polystyrene lid, as well as two connection thread sealing rings made of polyethylene.

Twin cable gland, metric thread, light grey





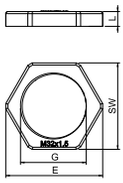
Type	Thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
113 M20 LGR	M 20 x 1,5	Light grey	5	3.701	**2024063**

IP54 protection rating, with removable polystyrene lid, as well as two connection thread sealing rings made of polyethylene.
With connection thread M20 x 1.5, 2 half glands PG 13.5 for cable diameter 6.5–10.5 mm.

Locknut, metric thread

PA



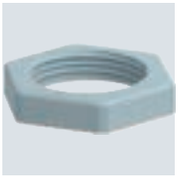


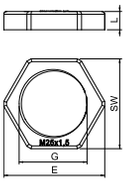
Type	Thread	Colour	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
116 M12 LGR PA	M12x1,5	Light grey	17	19	5	100	0.100	**2048906**
116 M16 LGR PA	M16x1,5	Light grey	22	25	5	100	0.160	**2048914**
116 M20 LGR PA	M20x1,5	Light grey	26	29	6	100	0.173	**2048922**
116 M25 LGR PA	M25x1,5	Light grey	32	36	6.5	100	0.297	**2048930**
116 M32 LGR PA	M32x1,5	Light grey	41	46	7	50	0.610	**2048949**
116 M40 LGR PA	M40x1,5	Light grey	50	56	7	25	1.683	**2048957**
116 M50 LGR PA	M50x1,5	Light grey	60	68	8	25	0.890	**2048965**
116 M63 LGR PA	M63x1,5	Light grey	75	83	8	25	1.467	**2048973**

Locknut DIN 46319, with metric thread IEC 423.

Cable outlet, plastic locknut

PA





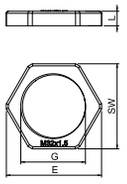
Type	Thread	Colour	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
116 M12 SGR PA	M12x1,5	Silver grey	17	19	5	100	0.078	**2048752**
116 M16 SGR PA	M16x1,5	Silver grey	22	25	5	100	0.125	**2048760**
116 M20 SGR PA	M20x1,5	Silver grey	26	29	6	100	0.177	**2048779**
116 M25 SGR PA	M25x1,5	Silver grey	32	36	6.5	100	0.266	**2048787**
116 M32 SGR PA	M32x1,5	Silver grey	41	46	7	50	0.503	**2048795**
116 M40 SGR PA	M40x1,5	Silver grey	50	56	7	25	0.602	**2048809**
116 M50 SGR PA	M50x1,5	Silver grey	60	68	8	25	0.903	**2048817**
116 M63 SGR PA	M63x1,5	Silver grey	75	83	8	25	1.300	**2048825**

Locknut to DIN 46319, with metric thread IEC 423.

Locknut, metric thread

PA





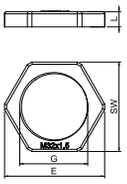
Type	Thread	Colour	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
116 M12 SW PA	M12x1,5	Black	17	19	5	100	0.079	**2049066**
116 M16 SW PA	M16x1,5	Black	22	25	5	100	0.118	**2049074**
116 M20 SW PA	M20x1,5	Black	26	29	6	100	0.170	**2049082**
116 M25 SW PA	M25x1,5	Black	32	36	6.5	100	0.266	**2049090**
116 M32 SW PA	M32x1,5	Black	41	46	7	50	0.610	**2049104**
116 M40 SW PA	M40x1,5	Black	50	56	7	25	0.602	**2049112**
116 M50 SW PA	M50x1,5	Black	60	68	8	25	0.896	**2049120**
116 M63 SW PA	M63x1,5	Black	75	83	8	25	1.259	**2049139**

Locknut DIN 46319, with metric thread IEC 423.

Locknut, metric thread

PS





Type	Thread	Colour	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
116 M12 LGR PS	M12 x 1,5	Light grey	17	19	5	100	0.075	**2049503**
116 M16 LGR PS	M16 x 1,5	Light grey	22	25	5	100	0.120	**2049511**
116 M20 LGR PS	M20 x 1,5	Light grey	26	29	6	100	0.167	**2049538**
116 M25 LGR PS	M25 x 1,5	Light grey	32	36	6.5	100	0.260	**2049546**
116 M32 LGR PS	M32 x 1,5	Light grey	41	46	7	50	0.484	**2049554**
116 M40 LGR PS	M40 x 1,5	Light grey	50	56	7	25	0.491	**2049562**
116 M50 LGR PS	M50 x 1,5	Light grey	60	68	8	25	0.732	**2049570**
116 M63 LGR PS	M63 x 1,5	Light grey	75	83	8	25	1.029	**2049589**

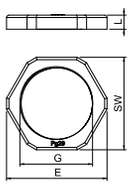
Locknut to DIN 46319, with metric thread IEC 423.
Note: Only tighten polystyrene cable glands lightly due to the risk of stress crack formation.

PA

Pg

Locknut, PG thread

Type	Thread	Colour	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
116 VDE PG7 PA	Pg 7	Light grey	19	21	5	100	0.093	**2048078**
116 VDE PG 9 PA	Pg 9	Light grey	22	24	5	100	0.169	**2048094**
116 VDE PG11 PA	Pg 11	Light grey	24	26	5	100	0.184	**2048116**
116 VDE PG13.5PA	Pg 13,5	Light grey	27	29	6	100	0.256	**2048132**
116 VDE PG16 PA	Pg 16	Light grey	30	33	6	100	0.325	**2048167**
116 VDE PG21 PA	Pg 21	Light grey	36	39	7	100	0.466	**2048221**
116 VDE PG29 PA	Pg 29	Light grey	46	50	7	50	1.100	**2048299**
116 VDE PG36 PA	Pg 36	Light grey	60	66	8	25	1.683	**2048361**
116 VDE PG42 PA	Pg 42	Light grey	65	73	8	25	1.756	**2048426**
116 VDE PG48 PA	Pg 48	Light grey	70	78	8	25	1.830	**2048485**





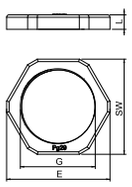
Locknut DIN 46320, with PG thread DIN 40430.

PS

Pg

Locknut, PG thread

Type	Thread	Colour	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
116 PG 7	Pg 7	Light grey	19	21	5	100	0.099	**2043076**
116 PG 9	Pg 9	Light grey	22	24	5	100	0.118	**2043092**
116 PG11	Pg 11	Light grey	24	26	5	100	0.113	**2043114**
116 PG13.5	Pg 13,5	Light grey	27	29	6	100	0.178	**2043130**
116 PG16	Pg 16	Light grey	30	33	6	100	0.226	**2043165**
116 PG21	Pg 21	Light grey	36	39	7	100	0.346	**2043211**
116 PG29	Pg 29	Light grey	46	50	7	50	0.573	**2043297**
116 PG36	Pg 36	Light grey	60	66	8	25	1.184	**2043351**
116 PG42	Pg 42	Light grey	65	73	8	25	1.089	**2043424**
116 PG48	Pg 48	Light grey	70	78	8	25	1.175	**2043483**





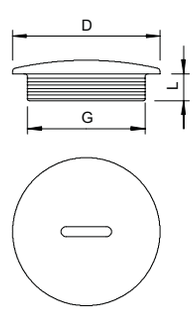
Locknut DIN 46320, with PG thread DIN 40430.
Note: Only tighten polystyrene cable glands lightly due to the risk of stress crack formation.

PS

M

Screw plug, metric thread

Type	Thread	Dim. D mm	Dim. L mm	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
108 M12 PS	M12 x 1,5	15	6	Light grey	3000	100	0.047	**2033003**
108 M16 PS	M16 x 1,5	20	6	Light grey	1800	100	0.085	**2033007**
108 M20 PS	M20 x 1,5	24	6	Light grey	1200	100	0.128	**2033011**
108 M25 PS	M25 x 1,5	30	8	Light grey	1000	100	0.210	**2033016**
108 M32 PS	M32 x 1,5	37	8	Light grey	500	50	0.339	**2033021**
108 M40 PS	M40 x 1,5	46	8	Light grey	300	25	0.564	**2033026**
108 M50 PS	M50 x 1,5	56	10	Light grey	300	25	0.939	**2033032**
108 M63 PS	M63 x 1,5	70	12	Light grey	300	25	1.492	**2033038**





Screw plug in accordance with DIN 46320, with metric thread to IEC 423.

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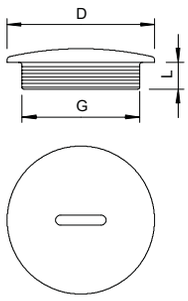
Screw plugs

Screw plug, PG thread

PS

Pg





Type	Thread	Dim. D mm	Dim. L mm	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
108 PG 7	Pg 7	14	6	Light grey	2400	100	0.056	**2033070**
108 PG 9	Pg 9	19	6	Light grey	1800	100	0.096	**2033097**
108 PG11	Pg 11	22	6	Light grey	2000	100	0.128	**2033119**
108 PG13.5	Pg 13,5	25	6.5	Light grey	1200	100	0.164	**2033135**
108 PG16	Pg 16	27	6.5	Light grey	1000	100	0.184	**2033151**
108 PG21	Pg 21	34	8	Light grey	1200	100	0.345	**2033216**
108 PG29	Pg 29	44	8	Light grey	600	50	0.646	**2033291**
108 PG36	Pg 36	58	10	Light grey	200	25	1.057	**2033364**
108 PG42	Pg 42	67	10	Light grey	300	25	1.479	**2033429**
108 PG48	Pg 48	73	12	Light grey	300	25	1.832	**2033488**

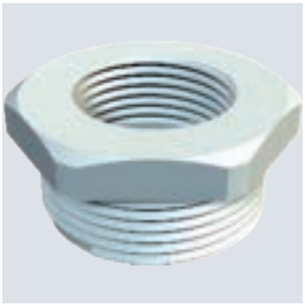
Screw plug in accordance with DIN 46320, with PG thread to DIN 40430.

Reductions

Reduction, metric thread

PA

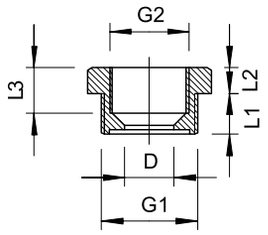
M

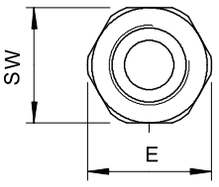


Type	External thread	Internal thread	Colour	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
107 R M20-12 PA	M20	M12	Light grey	24	100	0.500	**2030616**
107 R M20-16 PA	M20	M16	Light grey	24	100	0.700	**2030619**
107 R M25-12 PA	M25	M12	Light grey	29	100	0.850	**2030624**
107 R M25-16 PA	M25	M16	Light grey	29	100	0.850	**2030626**
107 R M25-20 PA	M25	M20	Light grey	29	100	0.650	**2030628**
107 R M32-12 PA	M32	M12	Light grey	36	50	1.200	**2030632**
107 R M32-16 PA	M32	M16	Light grey	36	50	1.100	**2030634**
107 R M32-20 PA	M32	M20	Light grey	36	50	1.050	**2030637**
107 R M32-25 PA	M32	M25	Light grey	36	50	0.783	**2030640**
107 R M40-16 PA	M40	M16	Light grey	46	50	2.000	**2030643**
107 R M40-20 PA	M40	M20	Light grey	46	50	1.850	**2030646**
107 R M40-25 PA	M40	M25	Light grey	46	50	1.950	**2030649**
107 R M40-32 PA	M40	M32	Light grey	46	50	1.400	**2030652**
107 R M50-20 PA	M50	M20	Light grey	55	25	2.300	**2030655**
107 R M50-25 PA	M50	M25	Light grey	55	25	2.250	**2030659**
107 R M50-32 PA	M50	M32	Light grey	55	25	2.200	**2030661**
107 R M50-40 PA	M50	M40	Light grey	55	25	2.050	**2030664**
107 R M63-25 PA	M63	M25	Light grey	68	25	3.050	**2030667**
107 R M63-32 PA	M63	M32	Light grey	68	25	3.070	**2030670**
107 R M63-40 PA	M63	M40	Light grey	68	25	3.100	**2030673**
107 R M63-50 PA	M63	M50	Light grey	68	25	3.000	**2030675**

Reduction, with metric internal and external thread.

Dimensions





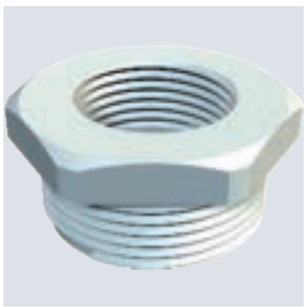
Type	SW mm	Dim. E mm	Dim. L mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
107 R M20-12 PA	24	26.5	12	8	4	12
107 R M20-16 PA	24	26.5	12	8	4	12
107 R M25-12 PA	29	32	14	8	6	14
107 R M25-16 PA	29	32	14	8	6	14
107 R M25-20 PA	29	32	14	8	6	14
107 R M32-12 PA	36	40	16	10	6	16
107 R M32-16 PA	36	40	16	10	6	16
107 R M32-20 PA	36	40	16	10	6	16
107 R M32-25 PA	36	40	16	10	6	16
107 R M40-16 PA	46	50.5	16	10	6	16
107 R M40-20 PA	46	50.5	16	10	6	16
107 R M40-25 PA	46	50.5	16	10	6	16
107 R M40-32 PA	46	50.5	16	10	6	16
107 R M50-20 PA	55	60	18	12	6	18
107 R M50-25 PA	55	60	18	12	6	18
107 R M50-32 PA	55	60	18	12	6	18
107 R M50-40 PA	55	60	18	12	6	18
107 R M63-25 PA	68	75	18	12	6	18
107 R M63-32 PA	68	75	18	12	6	18
107 R M63-40 PA	68	75	18	12	6	18
107 R M63-50 PA	68	75	18	12	6	18

PA

Pg

Reduction, PG thread

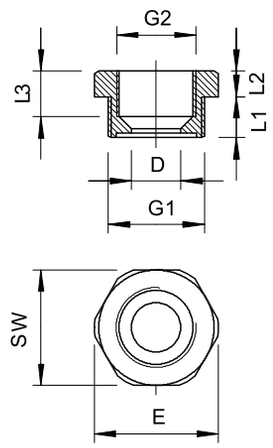
Type	External thread	Internal thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
107 R PG11- 7 PA	Pg 11	Pg 7	Light grey	50	0.400	**2030705**
107 R PG13- 9 PA	Pg 13,5	Pg 9	Light grey	50	0.450	**2030713**
107 R PG16- 9 PA	Pg 16	Pg 9	Light grey	50	0.600	**2030748**
107 R PG16-11 PA	Pg 16	Pg 11	Light grey	50	0.480	**2030756**
107 R PG21-11 PA	Pg 21	Pg 11	Light grey	50	0.910	**2030764**
107 R PG21-13 PA	Pg 21	Pg 13,5	Light grey	50	0.800	**2030772**
107 R PG21-16 PA	Pg 21	Pg 16	Light grey	50	0.650	**2030780**
107 R PG29-16 PA	Pg 29	Pg 16	Light grey	50	1.460	**2030799**
107 R PG29-21 PA	Pg 29	Pg 21	Light grey	25	1.500	**2030802**
107 R PG36-21 PA	Pg 36	Pg 21	Light grey	25	2.350	**2030829**
107 R PG36-29 PA	Pg 36	Pg 29	Light grey	25	2.200	**2030810**
107 R PG42-29 PA	Pg 42	Pg 29	Light grey	25	2.350	**2030837**



Reduction, Pg internal and external thread to DIN 40430.

Type	SW mm	Dim. D mm	Dim. E mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
107 R PG11- 7 PA	22	7.5	24	8	6	9.5
107 R PG13- 9 PA	24	9.5	26	8.5	6	9.5
107 R PG16- 9 PA	27	9.5	29	9.5	6	11.5
107 R PG16-11 PA	27	11.5	29	9.5	6	11
107 R PG21-11 PA	32	11.5	35.5	10.5	5	11
107 R PG21-13 PA	32	13.5	35.5	10.5	5	11
107 R PG21-16 PA	32	16.5	35.5	10.5	5	11
107 R PG29-16 PA	40	16.5	40	12	6	12.5
107 R PG29-21 PA	39	21.5	40	12.5	6	13.5
107 R PG36-21 PA	50	21	54	13	6	13.5
107 R PG36-29 PA	50	28.5	54	18	6	18
107 R PG42-29 PA	55	27.5	59	16	6	17

Dimensions



PA

M

Intermediate expansion connector, metric thread

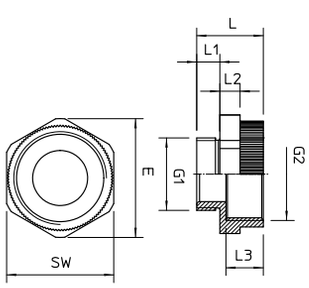
Type	External thread	Internal thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
107 E M 12-16 PA	M12	M16	Light grey	50	0.300	**2031450**
107 E M 16-20 PA	M16	M20	Light grey	50	0.380	**2031451**
107 E M 20-25 PA	M20	M25	Light grey	50	0.630	**2031452**
107 E M 25-32 PA	M25	M32	Light grey	50	0.970	**2031453**
107 E M 32-40 PA	M32	M40	Light grey	25	1.300	**2031454**



Intermediate expansion connector, metric internal and external thread.

Type	Dim. L mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm	SW mm	Dim. E mm
107 E M 12-16 PA	20.5	8	5	10.5	20	22
107 E M 16-20 PA	20.5	8	5	10.5	24	26.5
107 E M 20-25 PA	21	8	6	10.5	30	33
107 E M 25-32 PA	23	8	7	12.5	37	41
107 E M 32-40 PA	25	10	7	12.5	45	49.5

Dimensions



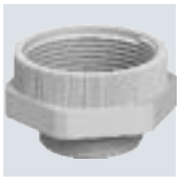
Industrieinstallation - Verbindungssysteme & Verlegesysteme / en / 2022/09/15 08:33:32 08:33:32 (LLExport_03198) / 2022/09/15 08:33:56

Adapter

Adapter PG-M

PA

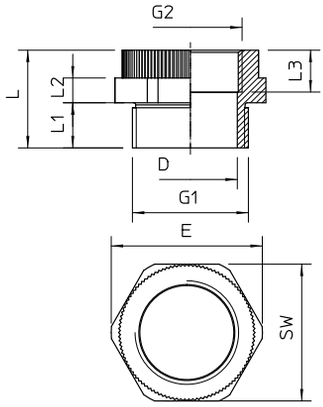
M Pg



Type	External thread	Internal thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
107 ADA PG7-M12	PG7	M12	Light grey	20	0.194	**2031465**
107 ADA PG9-M12	PG9	M12	Light grey	20	0.370	**2031466**
107 ADA PG11-M16	PG11	M16	Light grey	20	0.410	**2031467**
107 ADA PG13-M20	PG13,5	M20	Light grey	20	0.416	**2031468**
107 ADA PG16-M20	PG16	M20	Light grey	20	0.630	**2031469**
107 ADA PG21-M25	PG21	M25	Light grey	10	0.940	**2031470**
107 ADA PG29-M32	PG29	M32	Light grey	10	1.610	**2031471**

Adapter for converting a Pg threaded drill hole to a metric threaded drill hole.

Dimensions



Type	External thread	Internal thread	SW mm	Dim. E mm	Dim. L mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm	Dim. D mm
107 ADA PG7-M12	PG7	M12	15	16.5	20.3	7.9	5	10.4	7.7
107 ADA PG9-M12	PG9	M12	19	21	20	7.9	5	10	10.5
107 ADA PG11-M16	PG11	M16	22	24.5	20.3	8	5	10	13.6
107 ADA PG13-M20	PG13,5	M20	24	26.7	21.3	9.1	5	10	15.2
107 ADA PG16-M20	PG16	M20	27	30	22	10	6	10	17.6
107 ADA PG21-M25	PG21	M25	33	33	23.6	10.9	6	10	22.7
107 ADA PG29-M32	PG29	M32	42	42	25.5	11.2	7	10.4	30.8

Elbow socket

90° elbow socket, PG thread

PA

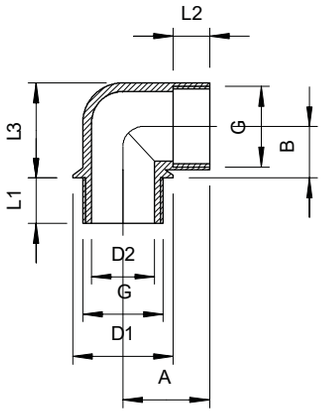
Pg



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
107 W PG 9 PA	Light grey	10	0.390	**2029901**
107 W PG11 PA	Light grey	10	0.620	**2029928**
107 W PG13.5 PA	Light grey	10	0.750	**2029936**
107 W PG16 PA	Light grey	10	0.950	**2029944**
107 W PG21 PA	Light grey	10	1.470	**2029952**

Elbow socket with PG internal and external thread to DIN 40430.
The elbow socket can be turned into an angular gland with two steel pressure rings 107/D, a sealing ring 107/A or 107/B and a pressure screw 107/E.

Dimensions

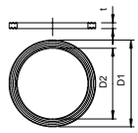


PE

M

Connection thread sealing ring, metric

Type	Size mm	Dim. D1 mm	Dim. D2 mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
107 F M12 PE	M12	16.3	12	1	100	0.017	**2030004**
107 F M16 PE	M16	20.9	16	1.1	100	0.015	**2030008**
107 F M20 PE	M20	25.1	20	1.1	100	0.030	**2030012**
107 F M25 PE	M25	31.3	25	1.4	100	0.038	**2030016**
107 F M32 PE	M32	37.6	32	1.7	100	0.105	**2030020**
107 F M40 PE	M40	49.1	40	1.7	100	0.200	**2030024**
107 F M50 PE	M50	60.1	50	2	100	0.250	**2030028**
107 F M63 PE	M63	73.8	63	2	100	0.290	**2030032**





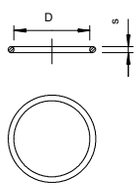
Connection thread sealing ring, suitable for all plastic cable glands, with metric thread according to DIN EN 60423 or ISO 68. The internal diameters of the sealing rings are designed in such a way that they can be pre-mounted in a captive manner.

NBR

M

O sealing ring for metric connection thread

Type	Size mm	Dim. D mm	Dim. S mm	Pack Piece	Weight kg/100 pc.	Item no.
171 M12	M12	10	1.5	100	0.007	**2088703**
171 M16	M16	13	1.5	100	0.008	**2088711**
171 M20	M20	18	1.5	100	0.011	**2088738**
171 M25	M25	22	1.5	100	0.012	**2088746**
171 M32	M32	29	2	100	0.035	**2088754**
171 M40	M40	36	2	50	0.045	**2088762**
171 M50	M50	46	2	50	0.052	**2088770**
171 M63	M63	59	2	25	0.056	**2088789**





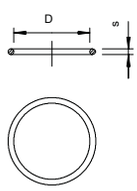
O sealing rings, suitable as connection thread sealing rings for all plastic and brass cable glands with metric connection thread to DIN EN 60423 or ISO 68. The rings can be captively pre-mounted.

NBR

Pg

O sealing ring for PG connection thread

Type	Size mm	Dim. D mm	Dim. S mm	Pack Piece	Weight kg/100 pc.	Item no.
171 PG 9	Pg 9	13	1.5	100	0.008	**2088819**
171 PG11	Pg 11	16	1.5	100	0.010	**2088827**
171 PG13.5	Pg 13,5	18	1.5	100	0.011	**2088835**
171 PG16	Pg 16	20	1.5	100	0.012	**2088843**
171 PG21	Pg 21	25	2	100	0.027	**2088851**
171 PG29	Pg 29	33	2	100	0.035	**2088878**
171 PG36	Pg 36	43	2	50	0.045	**2088886**
171 PG42	Pg 42	50	2	50	0.052	**2088894**





O sealing rings, suitable as connection thread sealing rings for all plastic and brass cable glands with Pg connection thread to DIN EN 60423 or ISO 68. The rings can be captively pre-mounted.

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Sealing kit

Electrical insulating and sealing compound





Type	Colour	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
115 GR-GN	Natural	90		10	11.020	**2340038**

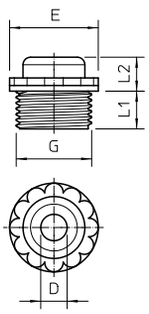
In rods.
Permanently elastic, fibre-free sealing kit on a polymer and a mineral basis to fill cavities in installations, e.g. cable glands or similar components, to prevent the entry of dirt and water.
Colour: Natural
Characteristics of the sealing kit:
- Halogen-, acid- and silicone-free
- Can also be processed at low temperatures
- Permanent heat resistance to +80 °C
- Corrosion-resistant
- Low water consumption
- Good insulation properties
- Puncture strength 16 kV/mm to VDE 0291 Part 2
- Can be stored almost indefinitely

Nipple

Screw-in nipple, metric thread, with opening

PE
IP 54 M





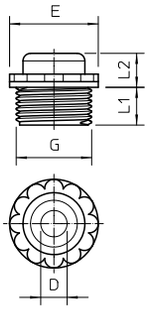
Type	Thread	Colour	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
90 M12 OF	M12 x 1,5	Light grey	13	100	0.170	**2032007**
90 M16 OF	M16 x 1,5	Light grey	16	100	0.192	**2032011**
90 M20 OF	M20 x 1,5	Light grey	21	100	0.268	**2032015**
90 M25 OF	M25 x 1,5	Light grey	30	50	0.513	**2032019**
90 M32 OF	M32 x 1,5	Light grey	34	25	0.694	**2032023**
90 M40 OF	M40 x 1,5	Light grey	44	10	0.875	**2032031**

With open cable entry.
Grip seal to screw into metric thread end to IEC 423.
With self-sealing cone at the end of the thread, therefore no connection thread sealing ring required.
Protection rating achievable with careful mounting: IP54.

Screw-in nipple, metric thread, with perforation membrane

PE
IP 54 M





Type	Thread	Colour	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
90 M12 GE	M12 x 1,5	Light grey	13	100	0.170	**2032378**
90 M16 GE	M16 x 1,5	Light grey	16	100	0.192	**2032380**
90 M20 GE	M20 x 1,5	Light grey	21	100	0.268	**2032382**
90 M25 GE	M25 x 1,5	Light grey	30	50	0.513	**2032384**
90 M32 GE	M32 x 1,5	Light grey	34	25	0.694	**2032386**
90 M40 GE	M40 x 1,5	Light grey	44	10	0.875	**2032388**

With perforation membranes, the opening D is pre-marked, but closed.
Grip seal to screw into metric thread to IEC 423.
With self-sealing cone at the end of the thread, therefore no connection thread sealing ring required.
Protection rating achievable with careful mounting: IP54.

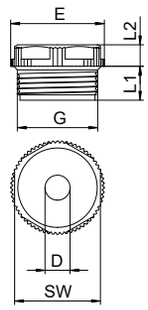
PE

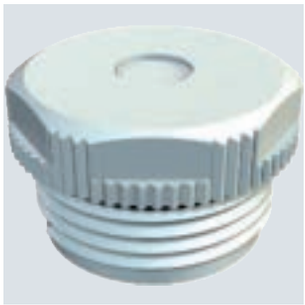
IP 54 Pg

Screw-in nipple, PG thread, with perforation membrane

Type	Thread	SW mm	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
90 PG 9 DSMB	Pg 9	17	Light grey	2400	100	0.156	**2032503**
90 PG11 DSMB	Pg 11	19	Light grey	1200	100	0.156	**2032511**
90 PG13.5 DSMB	Pg 13,5	22	Light grey	1000	100	0.216	**2032538**
90 PG16 DSMB	Pg 16	24	Light grey	1000	100	0.249	**2032546**
90 PG21 DSMB	Pg 21	30	Light grey	500	50	0.422	**2032554**
90 PG29 DSMB	Pg 29	37	Light grey	300	25	0.563	**2032562**

With perforation membrane, the opening D is pre-marked, but closed.
Grip seal to screw into PG thread to DIN 40430.
With self-sealing cone at the end of the thread, therefore no connection thread sealing ring required. Protection rating achievable with careful mounting: IP54.





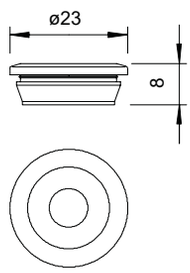
TPE

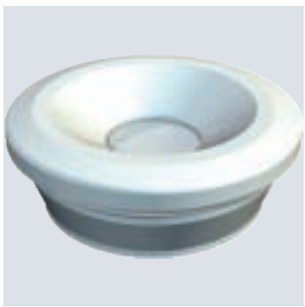
IP 54

Nipple 89

Type	Size	For Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
89	PG 11	7 - 13	Light grey	100	0.111	**2012030**
89 RW	PG 11	7 - 13	Pure white	100	0.113	**2012103**
89 SW	PG 11	7 - 13	Black	100	0.112	**2012146**
89 LoG	PG 11	7 - 13	Light grey	5000	0.111	**2012065**
89 3MM NUT	PG 11	7 - 13	Light grey	2000	0.106	**2012081**

Closed entry nipple with perforation membrane for cable diameters 7–13 mm. Ideal for simple cable routing in housings or through thin sheet metal.
Required hole diameter 18.5–19 mm, wall thickness max. 1.8 mm.



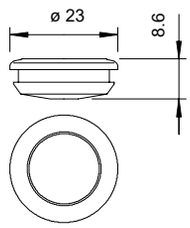


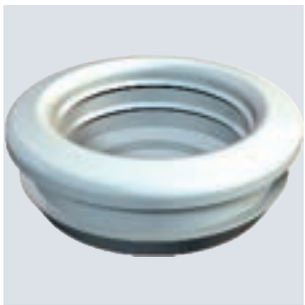
TPE

Nipple 89/RK

Type	Size	For Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
89 ROE 12-16	PG 13,5	12 - 16	Light grey	100	0.102	**2012049**

Closed entry nipple with perforation membrane for cable diameters 12–16 mm. Ideal for simple cable routing in housings or through thin sheet metal.
Required hole diameter 18.5–19 mm, wall thickness max. 3 mm.





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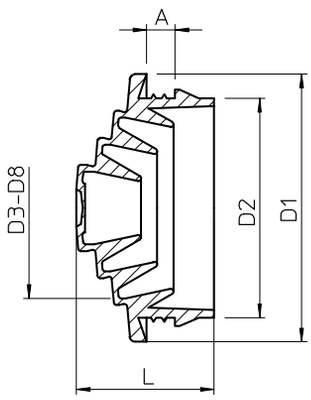
EDVS plug-in seal, B series/VBX series



Type	Size	For Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
EDVS M20 LGR	M20	0-17	Light grey	100	0.117	**2012375**
EDVS M25 LGR	M25	0-22	Light grey	100	0.179	**2012383**
EDVS M32 LGR	M32	0-28	Light grey	50	0.295	**2012391**

The push-in nipple can be cut back to suit the relevant cable diameter.

Dimensions



Type	Dim. L mm	Dim. A mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	Dim. D5 mm	Dimension D6 mm	Dimension D7 mm	Dimension D8 mm
EDVS M20 LGR	12.8	3.4	24.8	20.3	6	10	15	17	–	–
EDVS M25 LGR	14.5	4.3	29.5	25.3	6	10	15	20	22	–
EDVS M32 LGR	17.8	4.4	36.3	32.3	6	10	15	20	25	28

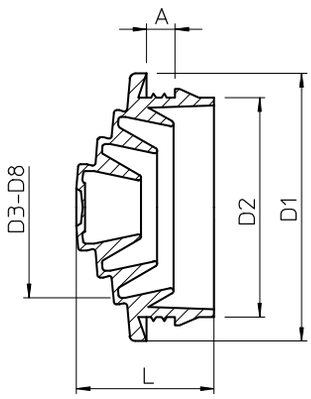
EDS plug-in seal, light grey, X series



Type	Size	For Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
EDS M20 LGR	M20	0-17	Light grey	100	0.125	**2012350**
EDS M25 LGR	M25	0-22	Light grey	100	0.185	**2012354**
EDS M32 LGR	M32	0-28	Light grey	50	0.295	**2012358**
EDS M20 SW	M20	0-17	Black	100	0.125	**2012340**
EDS M25 SW	M25	0-22	Black	100	0.193	**2012342**
EDS M32 SW	M32	0-28	Black	50	0.254	**2012344**

The push-in nipple can be cut back to suit the relevant cable diameter.

Dimensions



Type	Dim. L mm	Dim. A mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	Dim. D5 mm	Dimension D6 mm	Dimension D7 mm	Dimension D8 mm
EDS M20 LGR	12.8	3.1	24.8	20.3	6	10	15	17	–	–
EDS M25 LGR	14.5	3.1	29.5	25.3	6	10	15	20	22	–
EDS M32 LGR	17.8	3.1	36.3	32.3	6	10	15	20	25	28
EDS M20 SW	12.8	3.1	24.8	20.3	6	10	15	17	–	–
EDS M25 SW	14.5	3.1	29.5	25.3	6	10	15	20	22	–
EDS M32 SW	17.8	3.1	36.3	32.3	6	10	15	20	25	28

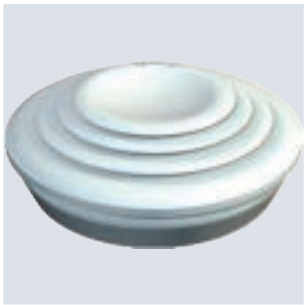
EDK plug-in seal

TPE

M25 M32 M40 IP 66

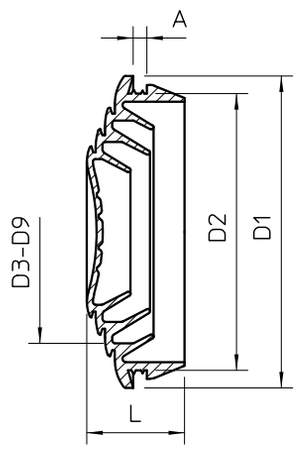
Type	Size	For Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
EDK 25 LGR	M25	0-22	Light grey	100	0.214	**2011638**
EDK 32 LGR	M32	0-27	Light grey	50	0.328	**2011646**
EDK 40 LGR	M40	0-34	Light grey	25	0.534	**2011654**
EDK 25 RW	M25	0-22	Pure white	100	0.214	**2011689**
EDK 32 RW	M32	0-27	Pure white	50	0.328	**2011697**
EDK 40 RW	M40	0-34	Pure white	25	0.534	**2011700**

The plug-in seal can be cut back to suit the relevant cable diameter.



Dimensions

Type	Dim. L mm	Dim. A mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	Dim. D5 mm	Dimension D6 mm	Dimension D7 mm	Dimension D8 mm	Dimension D9 mm
EDK 25 LGR	10.1	2.2	29.5	25.4	5	10	15	18	22	–	–
EDK 32 LGR	11.4	2.2	36.4	32.3	5	10	15	18	22	27	–
EDK 40 LGR	13.4	2.2	44.1	40.2	5	10	15	18	22	27	34
EDK 25 RW	10.1	2.2	29.5	25.4	5	10	15	18	22	–	–
EDK 32 RW	11.4	2.2	36.4	32.3	5	10	15	18	22	27	–
EDK 40 RW	13.4	2.2	44.1	40.2	5	10	15	18	22	27	34



Plug-in seal for pipes, T-series junction box, light grey

TPE

IP 55 M25 M32 M40

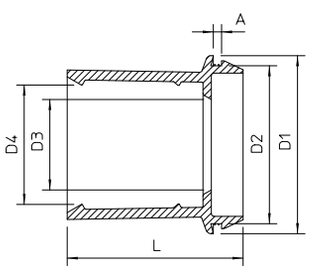
Type	Size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
EDR 25 16-20 LGR	M25	Light grey	50	0.520	**2011506**
EDR 25 20-25 LGR	M25	Light grey	50	0.680	**2011514**
EDR 32 25-32 LGR	M32	Light grey	50	1.170	**2011530**
EDR 40 32-40 LGR	M40	Light grey	25	2.200	**2011546**

Plug-in seal for junction boxes for direct insertion of metric pipes



Dimensions

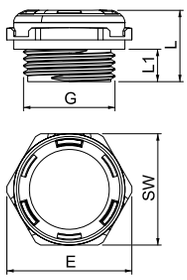
Type	Dim. L mm	Dim. A mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm
EDR 25 16-20 LGR	30	2.2	29.5	25.3	15	18.4
EDR 25 20-25 LGR	30	2.2	29.5	25.3	18.5	24.2
EDR 32 25-32 LGR	36	2.2	37	32.3	24	31.2
EDR 40 32-40 LGR	49	2.2	46	42.3	31	39.2



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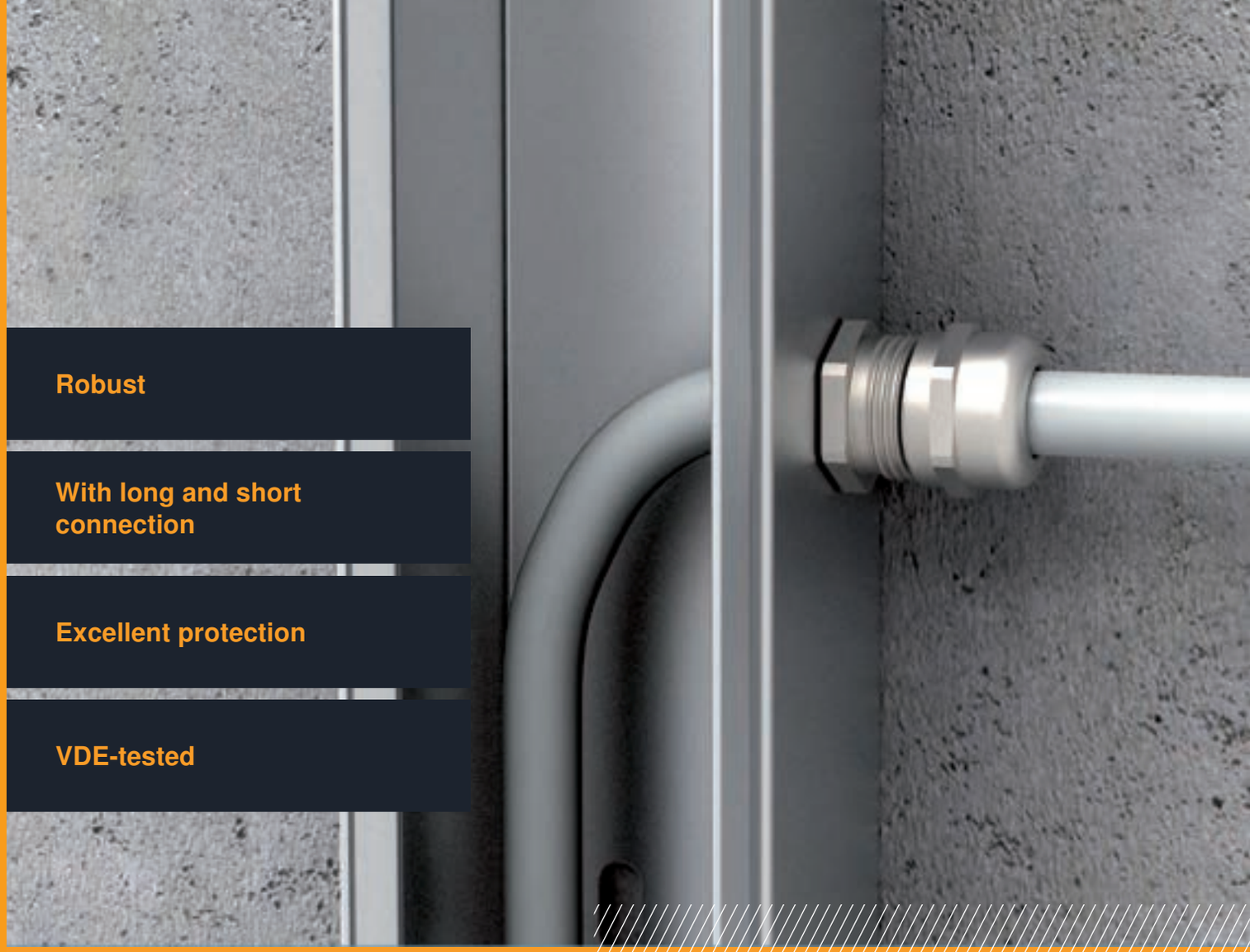
Pressure compensation element





Type	Thread	Protection rating	Colour	Pack Piece	Weight kg/100 pc.	Item no.
109 M20 LGR	M20x1,5	IP68	Light grey	1	0.538	**2034680**

The pressure compensation element, type 109 M20 LGR compensates for pressure differences in junction boxes, small distributors and connection sockets with an M20 opening and avoids the formation of condensation water in sealed housings. The polyamide pressure compensation element has an IP68/IP69 protection rating. This remains intact, even after the installation of the pressure compensation element. The pressure compensation element is suitable for use in industrial environments and in exterior areas.



- **Robust**
- **With long and short connection**
- **Excellent protection**
- **VDE-tested**

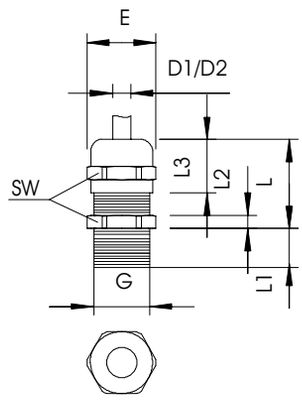
Cap nut cable gland V-TEC VM MS

Tough conditions are no problem for the brass V-TEC VM. Here too, the well-known V-TEC cap nut design of the cable glands ensures a secure hold of the cables. The protection class IP68 is achieved using separate sealing rings and their special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connecting threads are metric or PG and are therefore suitable for universal use. Once screwed in place, the installation will stay secure for a long time to come. The optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.



Cap nut cable gland





G	D1	SW	E	L max.
	mm	mm	mm	mm
M12 x 1.5	3–6	14	15.5	20
M16 x 1.5	5–9	17	19	24
M20 x 1.5	9–13	22	24	27
M25 x 1.5	11–16	27	30	29.5
M32 x 1.5	14–21	34	36	30
M40 x 1.5	19–27	43	46	33
M50 x 1.5	24–35	55	60	38.5
M63 x 1.5	32–42	65	70	44.5

- Sturdy cable gland to withstand mechanical loads
- The proven V-TEC cap nut design ensures a secure hold of the cables
- The protection class IP68 is achieved using separate sealing rings and their special OBO slat technology
- With metric connecting thread to IEC 423
- Neoprene/NBR sealing ring, polyamide terminal insert
- With pre-mounted sealing ring on the connection thread
- Optimum thread adjustment with the right pitch ensures lasting resistance to shaking
- Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet
- Temperature range: –20 °C to +100 °C
- * Prices according to DEL notationli>

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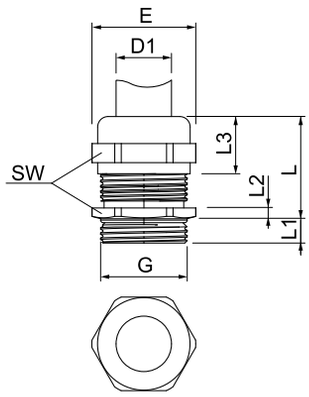
Cap nut cable gland, metric thread, silver grey, nickel-plated



Type	Thread	Material	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM12 MS	M12x1,5	Brass	50	1.305	**2086018**
V-TEC VM16 MS	M16x1,5	Brass	50	1.640	**2086024**
V-TEC VM20 MS	M20x1,5	Brass	25	3.140	**2086030**
V-TEC VM25 MS	M25x1,5	Brass	25	4.260	**2086036**
V-TEC VM32 MS	M32x1,5	Brass	20	8.457	**2086042**
V-TEC VM40 MS	M40x1,5	Brass	5	12.240	**2086048**
V-TEC VM50 MS	M50x1,5	Brass	5	22.700	**2086054**
V-TEC VM63 MS	M63 x 1,5	Brass	5	30.300	**2086060**

With metric connecting thread to IEC 423, robust cap-nut cable gland with large sealing area. Strain relief, wringing protection and tightness over the whole clamping area. Neoprene sealing ring. Polyamide terminal insert. With pre-mounted O sealing ring on connection thread, VDE-tested to DIN EN 50262, protection rating IP68 at 5 bar for 1 hr, max. permitted ambient temperature -20 to +100 °C.
* Prices according to DEL notation.

Dimensions



Type	Sealing range D mm	SW mm	Dim. E mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
V-TEC VM12 MS	3-6	14	15.5	20	5	3	11.5
V-TEC VM16 MS	5-9	17	19	24	5	3	15
V-TEC VM20 MS	9-13	22	24	27	6	3.5	16.5
V-TEC VM25 MS	11-16	27	30	29.5	7	4	17
V-TEC VM32 MS	14-21	34	36	30	8	4.5	18.5
V-TEC VM40 MS	19-27	43	46	33	8	4.5	21
V-TEC VM50 MS	24-35	55	60	38.5	9	4.5	25
V-TEC VM63 MS	32-42	65	70	44.5	10	5	31

CuZn 37 N
IP 68 M

Cap nut cable gland, metric thread, silver grey, long, nickel-plated

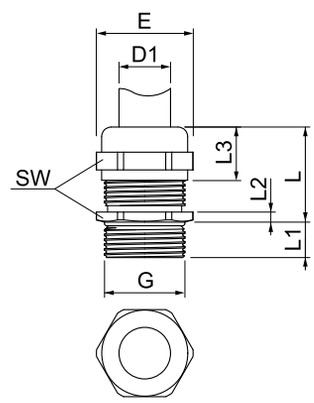
Type	Material		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM LM12 MS	Brass		50	1.300	**2086111**
V-TEC VM LM16 MS	Brass		50	2.059	**2086117**
V-TEC VM LM20 MS	Brass		25	3.360	**2086123**
V-TEC VM LM25 MS	Brass		25	4.800	**2086129**
V-TEC VM LM32 MS	Brass		10	9.150	**2086135**
V-TEC VM LM40 MS	Brass		5	13.400	**2086141**
V-TEC VM LM50 MS	Brass		5	24.000	**2086147**
V-TEC VM LM63 MS	Brass		5	32.100	**2086153**
V-TEC VM LM75MS1	Brass		3	112.300	**2086156**
V-TEC VM LM75MS2	Brass		3	98.200	**2086159**



With metric connecting thread to IEC 423, robust cap-nut cable gland with large sealing area. Strain relief, wringing protection and tightness over the whole clamping area. For thicker housing wall thicknesses in conjunction with locknuts. Neoprene sealing ring. Polyamide terminal insert. With pre-mounted sealing ring on connection thread, VDE-tested to DIN EN 50262, protection rating IP 68 at 5 bar for 1 hr.
With long connection thread.
* Prices according to DEL notation.

Type	Sealing range D mm	SW mm	Dim. E mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
V-TEC VM LM12 MS	3-6	14	15.5	20	10	3	11.5
V-TEC VM LM16 MS	5-9	17	19	24	10	3	15
V-TEC VM LM20 MS	9-13	22	24	27	10	3.5	16.5
V-TEC VM LM25 MS	11-16	27	30	29.5	11	4	17
V-TEC VM LM32 MS	14-21	34	36	30	13	4.5	18.5
V-TEC VM LM40 MS	19-27	43	46	33	13	4.5	21
V-TEC VM LM50 MS	24-35	55	60	38.5	14	4.5	25
V-TEC VM LM63 MS	32-42	65	65	44.5	14	5	31
V-TEC VM LM75MS1	48-55	90	97	42	18	7	25
V-TEC VM LM75MS2	53-60	90	97	42	18	7	25

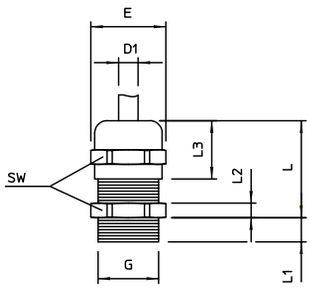
Dimensions



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Cable gland, PG thread







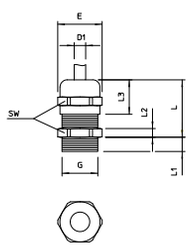
- Even tough conditions are no problem
- With PG connection thread
- Once screwed in place, the installation will stay secure for a long time to come
- Temperature range: –20 °C to +100 °C
- *Prices according to DEL notation

G	D1	D2	SW	E	L max.	L2	L3
	mm	mm	mm	mm	mm	mm	mm
Pg 7	2.5–6.5	3–6.5	14	15.5	20	3	12
Pg 9	2.5–8	3.5–8	17	18.9	22	3	14
PG 11	3.5–10	4.5–10	20	22.2	24	3	15
Pg 13.5	5–12	6–12	22	24.4	25	3.5	15
Pg 16	7–14	7–14	24	26.7	27	4	17
Pg 21	9–18	12–18	30	33.5	33	4.5	20
Pg 29	14–25	17–25	40	43.5	39	5	23.5
Pg 36	18–32	20–32	50	54	49	5.5	29
Pg 42	24–38	26–38	57	61	52	6	31
Pg 48	30–44	30–44	64	69	52.5	6.5	31

Cap nut cable gland, brass

Cap nut cable gland, PG thread, nickel-plated





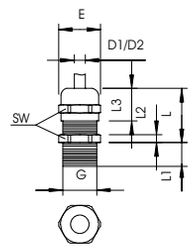
Type	Material		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC PG7 MS	Brass		50	1.044	2085607
V-TEC PG9 MS	Brass		50	1.600	2085615
V-TEC PG11 MS	Brass		50	2.300	2085623
V-TEC PG13 MS	Brass		50	2.800	2085631
V-TEC PG16 MS	Brass		25	3.400	2085658
V-TEC PG21 MS	Brass		25	6.000	2085666
V-TEC PG29 MS	Brass		20	13.000	2085674
V-TEC PG36 MS	Brass		10	21.195	2085682
V-TEC PG42 MS	Brass		5	23.500	2085690
V-TEC PG48 MS	Brass		5	31.500	2085704

Cable gland of cap-nut design with large sealing area, and strain relief and torsion protection for high sealing demands with Pg connection thread to DIN 40430, polyamide terminal insert, sealing ring of chloroprene/nitrile rubber, with pre-mounted O ring on the connection thread.
Protection rating IP 68 at 5 bar: 1 hr, tested to VDE 0619.
"Normal" connection thread length, according to DIN 46320.
* Prices according to DEL notation.

CuZn 37 | N | IP 68 | Pg

Cap nut cable gland, PG thread, long, nickel-plated

Type	Material		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC L PG9 MS	Brass		50	1.795	**2085739**
V-TEC L PG11 MS	Brass		50	2.550	**2085747**
V-TEC L PG13 MS	Brass		50	3.030	**2085755**
V-TEC L PG16 MS	Brass		25	3.660	**2085763**
V-TEC L PG21 MS	Brass		25	6.580	**2085771**
V-TEC L PG29 MS	Brass		10	12.792	**2085798**
V-TEC L PG48 MS	Brass		5	37.900	**2085836**



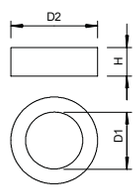


Cable gland of cap-nut design with large sealing area, and strain relief and torsion protection for high sealing demands with long Pg connection thread to DIN 40430, for thicker housing wall thicknesses in connection with locknut.
Polyamide terminal insert.
Sealing ring of chloroprene/nitrile rubber.
O ring pre-mounted on connection thread.
Protection rating IP 68 at 5 bar: 1 hr.
Tested to VDE 0619.
With long connection thread.
* Prices according to DEL notation.

CR NBR | M

Reducing sealing insert, metric

Type	Size mm	Sealing range D mm	Dim. D1 mm	Dim. D2 mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
107CR VM 12	M12	2-5	5	8.9	7.2	50	0.050	**2029560**
107CR VM 16	M16	2.5-7	7	12.7	8.1	50	0.115	**2029563**
107CR VM 20	M20	4-9	9	16	9.3	50	0.205	**2029566**
107CR VM 25	M25	6-13	13	20.7	10.5	50	0.340	**2029569**
107CR VM 32	M32	11-16	16	25.7	12.3	25	0.625	**2029572**
107CR VM 40	M40	12-23	23	33.7	15	25	1.140	**2029575**
107CR VM 50	M50	18-29	29	41.7	18.5	25	2.080	**2029578**
107CR VM 63	M63	29-40	40	54.8	20.2	25	3.560	**2029581**



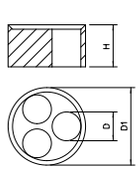


Reduces the sealing area D of the cable gland V-TEC VM and V-TEC VM L.

NBR SBR | Pg

Multi-way seal insert, PG

Type	Size mm	Dim. D mm	Dim. H mm	Dim. D1 mm	Number of drill holes	Pack Piece	Weight kg/100 pc.	Item no.
107 C V 16 5x4	Pg 16	4	9.5	17.5	5	50	0.205	**2029618**
107 C V 16 3x5	Pg 16	5	9.5	17.5	3	50	0.210	**2029626**
107 C V 16 2x6	Pg 16	6	9.5	17.5	2	50	0.210	**2029634**
107 C V 16 3x6	Pg 16	6.5	9.5	17.5	3	50	0.155	**2029642**
107 C V 21 3x7	Pg 21	7	12	23	3	25	0.450	**2029650**
107 C V 21 2x8	Pg 21	8	12	23	2	25	0.340	**2029669**





Use to insert multiple thin cables in the V-TEC cable glands, is replaced with the simple sealing ring of the cable gland.

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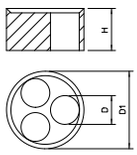
Cap nut cable gland, brass

Multi-way seal insert, metric

NBR SBR

M





Type	Size mm	Dim. D mm	Dim. H mm	Dim. D1 mm	Number of drill holes	Pack Piece	Weight kg/100 pc.	Item no.
107 C VM 20 2x4	M20	4	8.1	15.1	2	50	0.130	**2029672**
107 C VM 20 4x5	M20	5	8.1	15.1	4	50	0.080	**2029675**
107 C VM 20 2x6	M20	6	8.1	15.1	2	50	0.100	**2029677**
107 C VM 25 5x4	M25	4	10	19.8	5	50	0.180	**2029679**
107 C VM 25 3x6	M25	6	10	19.8	3	50	0.210	**2029682**
107 C VM 25 2x6	M25	6	10	19.8	2	50	0.260	**2029685**
107 C VM 25 3x7	M25	7	10	19.8	3	50	0.180	**2029688**
107 C VM 25 2x8	M25	8	10	19.8	2	50	0.200	**2029690**
107 C VM 32 2x8	M32	8	13.4	25.1	2	25	0.530	**2029693**
107 C VM 32 4x8	M32	8	13.4	25.1	4	25	0.400	**2029696**

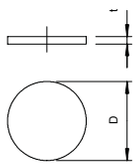
Use to insert multiple thin cables in the V-TEC VM cable glands, is replaced with the simple sealing ring of the cable gland.

Dust protection plate, metric

ZELL PE

M





Type	Size mm	Dim. D mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
107 S VTEC M12	M12	12	1.5	100	0.001	**2028870**
107 S VTEC M16	M16	16	1.5	100	0.002	**2028873**
107 S VTEC M20	M20	20	1.5	100	0.010	**2028875**
107 S VTEC M25	M25	25	1.5	100	0.008	**2028877**
107 S VTEC M32	M32	32	1.5	100	0.012	**2028880**
107 S VTEC M40	M40	40	1.5	100	0.022	**2028883**
107 S VTEC M50	M50	50	1.5	100	0.040	**2028885**

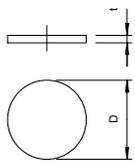
Cellular polyethylene.
Small protective disc to protect the V-TEC VM and V-TEC VM MS cable glands against dust before the cable is installed.
Application: the discs are pre-mounted between the cap nut and the seal. They do not need to be removed when the cable is installed, but are simply passed through to the interior with the cable.
Note: the discs do not provide any mechanical protection.

Dust protection plate, PG

ZELL PE

Pg



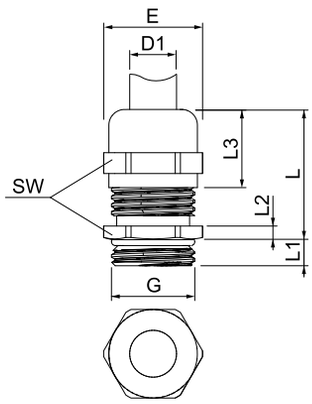


Type	Size mm	Dim. D mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
107 S VTEC PG7	Pg 7	11	2	100	0.001	**2028891**
107 S VTEC PG9	Pg 9	14	2	100	0.010	**2028905**
107 S VTEC PG11	Pg 11	16.5	2	100	0.003	**2028913**
107 S VTEC PG13	Pg 13,5	18.5	2	100	0.010	**2028921**
107 S VTEC PG16	Pg 16	21	2	100	0.006	**2028948**
107 S VTEC PG21	Pg 21	26.5	2	100	0.010	**2028956**
107 S VTEC PG29	Pg 29	34.5	2	100	0.015	**2028964**
107 S VTEC PG36	Pg 36	44	3	100	0.035	**2028972**
107 S VTEC PG42	Pg 42	50	3	100	0.050	**2028980**
107 S VTEC PG48	Pg 48	56	3	100	0.060	**2028999**

Cellular polyethylene.
Small protective disc to protect the V-TEC and V-TEC MS cable glands against dust before the cable is installed.
Application: the discs are pre-mounted between the cap nut and the seal. They do not need to be removed when the cable is installed, but are simply passed through to the interior with the cable.
Note: the discs do not provide any mechanical protection.

Cable gland, EMC





- Robust EMC cap-nut cable gland
- With metric connecting thread to IEC 423
- Satisfies high tightness requirements: protection rating IP68 at 5 bar/1 hr
- Neoprene/natural rubber sealing ring, polyamide terminal insert
- With pre-mounted O sealing ring on the connection thread
- * Prices according to DEL notation

G	D1	SW	E	L max.	L1
	mm	mm	mm	mm	mm
M12 x 1.5	3–6	14	15.5	25	5
M16 x 1.5	5–9	17	19	30	5
M20 x 1.5	9–13	22	24	33.5	6
M25 x 1.5	11–16	27	30	36.5	7
M32 x 1.5	14–21	34	36	38	8
M40 x 1.5	19–27	43	46	49.5	8
M50 x 1.5	24–35	55	60	49.5	9
M63 x 1.5	32–42	65	70	52.5	10

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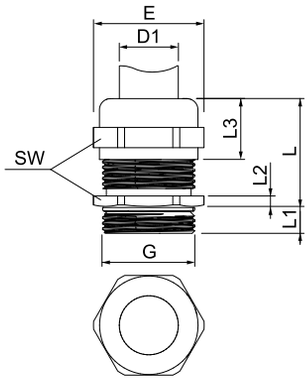
Cap nut cable gland, EMC, metric thread, nickel-plated



Type	Material		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM12 EMV	Brass		50	1.362	**2086203**
V-TEC VM16 EMV	Brass		50	1.837	**2086207**
V-TEC VM20 EMV	Brass		25	3.473	**2086211**
V-TEC VM25 EMV	Brass		25	5.280	**2086215**
V-TEC VM32 EMV	Brass		20	7.662	**2086219**
V-TEC VM40 EMV	Brass		5	12.880	**2086223**
V-TEC VM50 EMV	Brass		5	26.165	**2086227**
V-TEC VM63 EMV	Brass		5	33.990	**2086231**

With metric connecting thread to IEC 423, robust EMV cap-nut cable gland with large sealing area. Strain relief, wringing protection and tightness over the whole clamping area. Neoprene sealing ring. Polyamide terminal insert. With pre-mounted O sealing ring on connection thread, VDE-tested to DIN EN 50262, protection rating IP 68 at 5 bar for 1 hr.
* Prices according to DEL notation.

Dimensions



Type	Sealing range D mm	SW mm	Dim. E mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
V-TEC VM12 EMV	3-6	14	15.5	25	5	3	11.5
V-TEC VM16 EMV	5-9	17	19	30	5	3	15
V-TEC VM20 EMV	9-13	22	24	33.5	6	3.5	16.5
V-TEC VM25 EMV	11-16	27	30	36.5	7	3.5	16.5
V-TEC VM32 EMV	14-21	34	38	42	8	4.5	18.5
V-TEC VM40 EMV	19-27	43	46	49.5	8	4.5	21
V-TEC VM50 EMV	24-35	55	60	49.5	9	4.5	25
V-TEC VM63 EMV	32-42	65	70	52.5	10	6.5	26

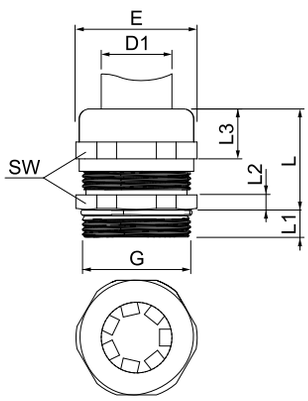
Cap nut cable gland, EMC spring contact, metric thread, nickel-plated



Type	Material		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM16 EMV-K	Brass		50	2.010	**2086165**
V-TEC VM20 EMV-K	Brass		25	3.564	**2086169**
V-TEC VM25 EMV-K	Brass		25	5.693	**2086173**
V-TEC VM32 EMV-K	Brass		20	9.880	**2086177**
V-TEC VM40 EMV-K	Brass		5	17.200	**2086181**
V-TEC VM50 EMV-K	Brass		5	13.735	**2086185**
V-TEC VM63 EMV-K	Brass		5	16.780	**2086189**

With metric connecting thread to IEC 423, robust EMV cap-nut cable gland with large sealing area. The contact between the gland and braided shield is made using a contact spring. Strain relief, wringing protection and tightness over the whole clamping area. Neoprene sealing ring. Polyamide terminal insert. With pre-mounted O sealing ring on connection thread, VDE-tested to DIN EN 50262, protection rating IP 68 at 5 bar for 1 hr.
* Prices according to DEL notation.

Dimensions



Type	Sealing range D mm	SW mm	Dim. E mm	Dim. L max. mm	Dim. L1 mm
V-TEC VM16 EMV-K	5-9	17	19	25	5
V-TEC VM20 EMV-K	9-13	22	24	27.5	6
V-TEC VM25 EMV-K	11-16	27	30	29	7
V-TEC VM32 EMV-K	14-21	34	36	30	8
V-TEC VM40 EMV-K	19-27	43	46	31	8
V-TEC VM50 EMV-K	24-35	55	60	40.5	9
V-TEC VM63 EMV-K	38-48	65	65	42.5	10

Cone cable glands, brass

Cable gland with hexagonal intermediate connector, shape C4, to DIN 46320 with metric connection thread to DIN EN 60423 and ISO 68.



Robust EMC cap-nut cable gland

With metric connecting thread to IEC 423 for meeting high tightness requirements

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IP 54 IP 65



- Robust EMC cap-nut cable gland
- With metric connection thread to IEC 423 for meeting high tightness requirements

Conical cable gland, brass

Cone cable gland, metric thread, cutting ring, nickel-plated

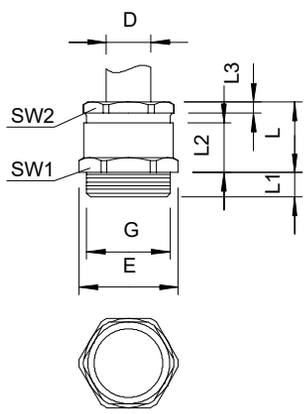
CuZn 37 | N | IP 54 | IP 65 | M



Type	Material		Pack Piece	Weight kg/100 pc.	Item no.
162 MS M12	Brass		50	1.200	**2083706**
162 MS M16	Brass		50	1.814	**2083712**
162 MS M20	Brass		25	2.294	**2083716**
162 MS M25	Brass		25	3.388	**2083720**
162 MS M32	Brass		10	5.004	**2083724**
162 MS M40	Brass		10	14.881	**2083728**
162 MS M50	Brass		5	15.800	**2083732**
162 MS M63	Brass		5	21.600	**2083736**

Cable gland with hexagonal intermediate connector, shape C4, to DIN 46320 with metric connection thread to DIN EN 60423 and ISO 68. Pressure rings made of electrogalvanised and transparently passivated steel. NR/SBR sealing ring.
Protection rating: with connection thread sealing ring IP 65, without connection thread sealing ring IP 54.
With cutting ring.
* Prices according to DEL notation.

Dimensions



Type	Sealing range D mm	SW 1 mm	SW 2 mm	Dim. E mm	Dim. L mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
162 MS M12	5-7	14	13	15.5	15	7	16	2.5
162 MS M16	5-8	18	15	20.2	16	7	16	3
162 MS M20	7.5-13.5	22	20	24.4	18	7	18	3
162 MS M25	10-20.5	32	28	35.5	22	8	22	2.5
162 MS M32	18-29	40	37	43.5	24	8.5	24	3.5
162 MS M40	24-31	50	47	54	29	8.5	29	3.5
162 MS M50	30-42	57	54	61	33	9.5	33	4
162 MS M63	36-47	65	60	69	35	10	10	4

CuZn 37 | N | IP 54 | IP 65 | Pg

Cone cable gland, PG thread, cutting ring, nickel-plated

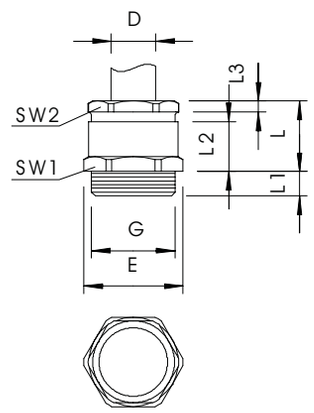
Type	Material		Pack Piece	Weight kg/100 pc.	Item no.
162 MS PG 7	Brass		50	1.000	**2082620**
162 MS PG 9	Brass		50	1.232	**2082519**
162 MS PG11	Brass		50	1.960	**2082500**
162 MS PG13.5	Brass		50	2.630	**2082527**
162 MS PG16	Brass		25	3.190	**2082543**
162 MS PG21	Brass		25	5.240	**2082578**
162 MS PG29	Brass		10	9.260	**2082594**
162 MS PG36	Brass		10	13.156	**2082616**
162 MS PG42	Brass		5	25.000	**2082624**
162 MS PG48	Brass		5	33.100	**2082632**



Cable gland with hexagonal intermediate connector, shape C4, to DIN 46320 with Pg connection thread to DIN 40430.
Pressure rings made of electrogalvanised and transparently passivated steel.
NR/SBR sealing ring.
Protection rating: with connection thread sealing ring IP 65, without connection thread sealing ring IP 54.
With cutting ring.
* Prices according to DEL notation.

Type	Sealing range D mm	Dim. E mm	Dim. L mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
162 MS PG 7	3.5-8	15.5	15	5	9	2
162 MS PG 9	5-9.5	18.9	16	6	10.5	2.5
162 MS PG11	7.5-11.5	22.2	17	6	11	3
162 MS PG13.5	7.5-13.5	24.4	18	6.5	12.5	3
162 MS PG16	7.5-15.5	26.7	19	6.5	13.5	3
162 MS PG21	10-20.5	33.5	22	7	15	3.5
162 MS PG29	18-29	43.5	24	8	16.5	4
162 MS PG36	24-37	54	29	9	19.5	4.5
162 MS PG42	30-42	61	33	10	22	6
162 MS PG48	36-47	69	44	10	23	6

Dimensions



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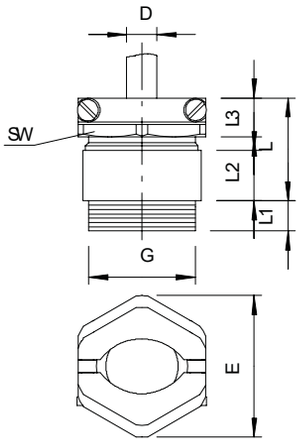
Cone cable gland, PG thread, strain relief, nickel-plated



Type	Material	Surface	Pack Piece	Weight kg/100 pc.	Item no.
159 MS PG 7	Brass	Nickel-plated	50	1.960	**2046075**
159 MS PG 9	Brass	Nickel-plated	50	2.460	**2046091**
159 MS PG11	Brass	Nickel-plated	50	3.993	**2046113**
159 MS PG13.5	Brass	Nickel-plated	50	3.830	**2046121**
159 MS PG16	Brass	Nickel-plated	25	5.700	**2046164**
159 MS PG21	Brass	Nickel-plated	25	7.590	**2046210**
159 MS PG29	Brass	Nickel-plated	10	14.970	**2046296**
159 MS PG36	Brass	Nickel-plated	5	22.030	**2046369**
159 MS PG42	Brass	Nickel-plated	5	41.070	**2046423**
159 MS PG48	Brass	Nickel-plated	4	46.250	**2046482**

Cable gland with centrically acting transverse clip strain relief in the pressure screw, bend protection of movable cables through strongly rounded pressure screw.
With Pg connection thread to DIN 40430.
Pressure rings made of electrogalvanised and transparently passivated steel.
NR/SBR sealing ring.
Protection rating: with connection thread sealing ring IP 65, without connection thread sealing ring IP 54.
With hexagonal intermediate support (similar to shape C 4 to DIN 46320).
* Prices according to DEL notation.

Dimensions



Type	Sealing range D mm	Dim. E mm	Dim. L mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
159 MS PG 7	5-7	17.5	–	5	10	9.3
159 MS PG 9	6-8	20.5	–	6	10.5	10.6
159 MS PG11	8-10	24.5	–	6	11	11.3
159 MS PG13.5	8-10	27	–	6.5	12.5	11.3
159 MS PG16	8-10	29	–	6.5	13.5	11.8
159 MS PG21	17-19	37	–	7	15	13.3
159 MS PG29	24-26	46.5	34	8	16.5	13.8
159 MS PG36	31-33	57	–	9	19.5	15.8
159 MS PG42	37-39	65	–	10	22	16.3
159 MS PG48	43-45	70	–	10	23	16.3

CuZn 37 N

Pg

Pressure screw, PG strain relief

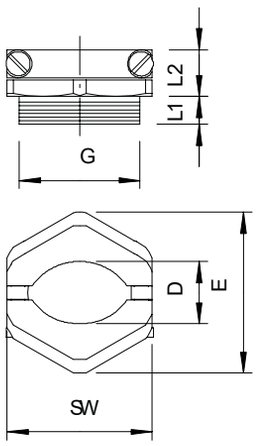
Type	Thread	Pack Piece	Weight kg/100 pc.	Item no.
157 MS PG 7	Pg 7	100	1.224	**2013061**
157 MS PG 9	Pg 9	100	1.500	**2013096**
157 MS PG11	Pg 11	100	2.100	**2013118**
157 MS PG13.5	Pg 13,5	100	2.200	**2013134**
157 MS PG16	Pg 16	50	3.400	**2013169**
157 MS PG21	Pg 21	50	4.500	**2013215**
157 MS PG29	Pg 29	25	9.156	**2013290**



Pressure screw with centrically acting transverse clip strain relief, rust-proof stainless steel screws.
With bend protection and strain relief.
* Prices according to DEL notation.

Type	Dim. D mm	SW mm	Dim. E mm	Dim. L1 mm	Dim. L2 mm
157 MS PG 7	–	16	–	5.5	9.3
157 MS PG 9	–	19	–	6	10.6
157 MS PG11	–	22	–	6	11.3
157 MS PG13.5	–	24	–	6.5	11.3
157 MS PG16	–	26	–	6.5	11.8
157 MS PG21	–	33	–	7.5	13.3
157 MS PG29	–	42	–	8	13.8

Dimensions

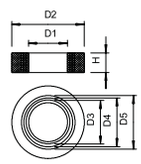


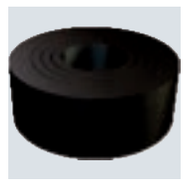
NBR SBR

Pg

Cutting ring

Type	Size mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	Dim. D5 mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
107 B PG9	Pg 9	5	13.3	7.5	10	0	5.5	100	0.090	**2029103**
107 B PG11	Pg 11	7.5	16.5	10	12.5	0	6	100	0.132	**2029111**
107 B PG13.5	Pg 13,5	7.5	18.3	10	12.5	0	6	100	0.172	**2029138**
107 B PG16	Pg 16	7.5	20.4	10	12.5	15	7	100	0.265	**2029162**
107 B PG21	Pg 21	10	25.9	13	16	19	8	100	0.490	**2029219**
107 B PG29	Pg 29	18	34.7	21	24	27	9.5	100	0.803	**2029294**
107 B PG36	Pg 36	24	44.7	27	30	33	12	50	1.733	**2029367**
107 B PG42	Pg 42	30	51.7	33	36	39	14	50	2.345	**2029421**
107 B PG48	Pg 48	36	56.9	39	42	45	14	50	2.615	**2029480**





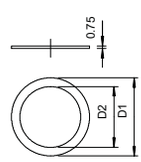
Rubber cutting ring (cuttable sealing ring) to DIN 46320 for cone cable gland.

St GTP

Pg

Pressure ring, PG thread

Type	Size mm	Dim. D1 mm	Dim. D2 mm	Pack Piece	Weight kg/100 pc.	Item no.
107 D PG7 GTP	Pg 7	11	8	100	0.025	**2027070**
107 D PG9 GTP	Pg 9	13.5	10	100	0.032	**2027097**
107 D PG11 GTP	Pg 11	16.5	12	100	0.052	**2027119**
107 D PG13.5 GTP	Pg 13,5	18.5	14	100	0.063	**2027135**
107 D PG16 GTP	Pg 16	20.5	16	100	0.076	**2027151**
107 D PG21 GTP	Pg 21	26	21	50	0.097	**2027216**



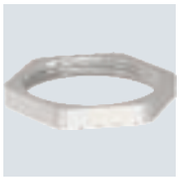


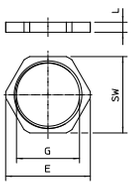
Pressure ring, Part 7, to DIN 46320, suitable for plastic and brass glands to DIN 46320.

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Locknut, metric thread

CuZn 37 N M



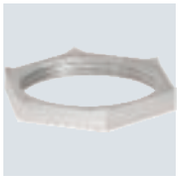


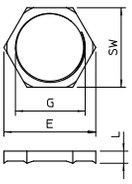
Type	Thread	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
169 MS M12	M12 x 1,5	15	16.6	3	100	0.220	**2091607**
169 MS M16	M16 x 1,5	20	22.1	2.8	100	0.310	**2091615**
169 MS M20	M20 x 1,5	24	25.6	3	100	0.580	**2091623**
169 MS M25	M25 x 1,5	30	33.2	3.5	100	0.880	**2091631**
169 MS M32	M32 x 1,5	35	38.7	4	100	1.016	**2091658**
169 MS M40	M40 x 1,5	45	49.8	4.5	50	1.920	**2091666**
169 MS M50	M50 x 1,5	55	60.4	5.5	50	3.070	**2091674**
169 MS M63	M63 x 1,5	70	77.6	6	25	5.628	**2091682**
169 MS M75	M75 x 1,5	90	100	8	3	16.800	**2091685**

Locknut to DIN 46319 with metric thread IEC 423.
* Prices according to DEL notation.

Locknut, metric thread with cutting teeth

CuZn 37 N M





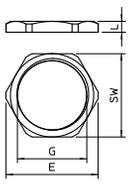
Type	Thread	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
169 MSS M12	M12x1,5	15	17.3	4.5	50	0.355	**2091705**
169 MSS M16	M16x1,5	19	21.9	4.5	50	0.490	**2091709**
169 MSS M20	M20x1,5	24	27.7	4.5	50	0.760	**2091713**
169 MSS M25	M25x1,5	30	34.6	4.5	50	1.190	**2091717**
169 MSS M32	M32x1,5	36	41.5	4.5	50	1.230	**2091721**
169 MSS M40	M40x1,5	46	53.1	5	25	2.590	**2091725**
169 MSS M50	M50x1,5	60	69.2	5	25	5.070	**2091729**
169 MSS M63	M63x1,5	70	80.8	6	25	5.859	**2091733**

Locknuts DIN 46319 with metric thread IEC 423.
* Prices according to DEL notation.

Locknut, PG thread

CuZn 37 N Pg





Type	Thread	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
169 MS PG 7	Pg 7	15	16.6	2.8	100	0.180	**2091070**
169 MS PG 9	Pg 9	18	20	2.8	100	0.260	**2091097**
169 MS PG11	Pg 11	21	23.5	3	100	0.290	**2091119**
169 MS PG13.5	Pg 13,5	23	25.5	3	100	0.364	**2091135**
169 MS PG16	Pg 16	26	29	3	100	0.460	**2091151**
169 MS PG21	Pg 21	32	35.5	3.5	100	0.720	**2091216**
169 MS PG29	Pg 29	41	45	4	100	1.320	**2091291**
169 MS PG36	Pg 36	51	56	5	50	2.100	**2091364**
169 MS PG42	Pg 42	60	65	5	50	3.266	**2091429**
169 MS PG48	Pg 48	64	69	5.5	25	3.270	**2091488**

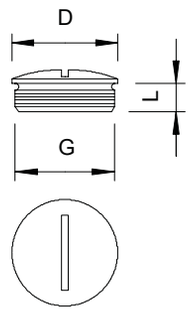
Locknuts, part M to DIN 46320 with Pg thread to DIN 40430. * Price according to DEL notation.

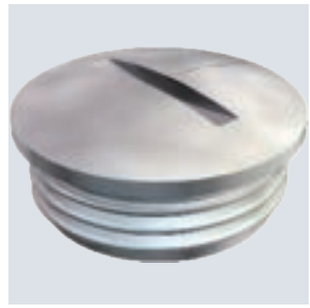
CuZn 37 N

M

Screw plug, metric thread

Type	Thread	Dim. D mm	Dim. L mm	Material	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
168 MS M12	M12 x 1,5	16	5	Brass	3000	100	0.390	**2090511**
168 MS M16	M16 x 1,5	20	6	Brass	2000	100	0.640	**2090538**
168 MS M20	M20 x 1,5	22	6.5	Brass	1000	100	0.930	**2090546**
168 MS M25	M25 x 1,5	28	7	Brass	500	50	1.850	**2090554**
168 MS M32	M32 x 1,5	35	8	Brass	200	50	2.810	**2090562**
168 MS M40	M40 x 1,5	45	8	Brass	100	50	5.290	**2090570**
168 MS M50	M50 x 1,5	55	9	Brass	100	25	6.310	**2090589**
168 MS M63	M63 x 1,5	68	10	Brass	50	25	12.570	**2090597**





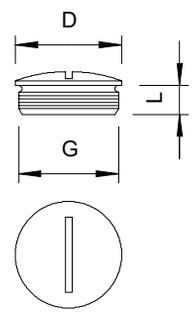
Screw plug N in accordance with DIN 46320, with metric thread to DIN EN 60423 or ISO 68.
In conjunction with sealing ring, types 107, 170 or 171, protection rating IP68 (5 bar/1 hr).
Sealing ring not contained in the scope of delivery.
* Prices according to DEL notation.

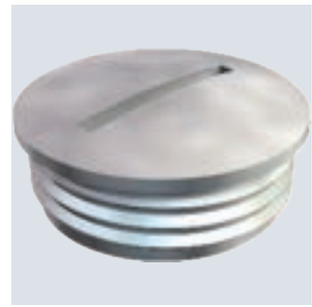
CuZn 37 N

Pg

Screw plug, PG thread

Type	Thread	Dim. D mm	Dim. L mm	Material	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
168 MS PG 7	Pg 7	14	5	Brass	3000	100	0.410	**2090074**
168 MS PG 9	Pg 9	17	6	Brass	2000	100	0.530	**2090090**
168 MS PG11	Pg 11	20	6	Brass	1000	100	0.840	**2090112**
168 MS PG13	Pg 13,5	22	6.5	Brass	1000	100	0.930	**2090139**
168 MS PG16	Pg 16	24	6.5	Brass	1000	100	1.300	**2090163**
168 MS PG21	Pg 21	30	7	Brass	500	50	2.420	**2090201**
168 MS PG29	Pg 29	39	8	Brass	200	50	4.310	**2090295**
168 MS PG36	Pg 36	50	9	Brass	100	50	7.800	**2090368**
168 MS PG42	Pg 42	57	10	Brass	100	25	11.710	**2090422**
168 MS PG48	Pg 48	64	10	Brass	50	25	15.260	**2090481**



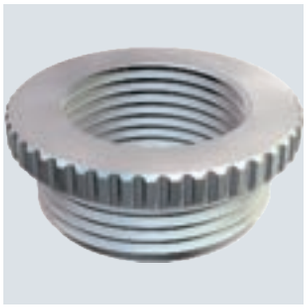


Screw plug N in accordance with DIN 46320, with PG thread to DIN 40430.
In conjunction with sealing ring, types 107, 170 or 171, protection rating IP68 (5 bar/1 hr).
Sealing ring not contained in the scope of delivery.
* Prices according to DEL notation.

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Reduction, metric thread

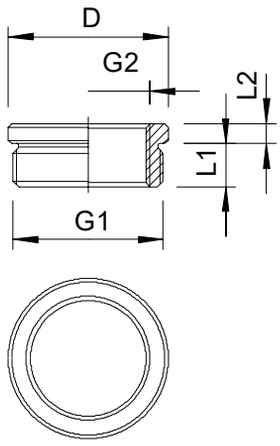
CuZn 37 N M



Type	External thread	Internal thread	Dim. D mm	Thread length mm	Dim. L2 mm	Pack Piece	Weight kg/100 pc.	Item no.
167 R MS M16-12	M16	M12	20	6	2.5	50	0.880	**2089505**
167 R MS M20-12	M20	M12	24	6.5	3.5	50	1.340	**2089513**
167 R MS M20-16	M20	M16	24	6.5	3.5	50	1.134	**2089521**
167 R MS M25-16	M25	M16	30	7	3	50	3.220	**2089548**
167 R MS M25-20	M25	M20	30	7	3	50	2.102	**2089556**
167 R MS M32-20	M32	M20	39	8	3.5	50	6.120	**2089564**
167 R MS M32-25	M32	M25	39	8	3.5	50	4.500	**2089572**
167 R MS M40-25	M40	M25	50	6	3.5	25	9.960	**2089580**
167 R MS M40-32	M40	M32	50	9	3.5	25	6.840	**2089599**
167 R MS M50-32	M50	M32	57	10	4	25	16.300	**2089602**
167 R MS M50-40	M50	M40	57	10	4	25	10.250	**2089610**
167 R MS M63-40	M63	M40	64	10	4	10	30.080	**2089629**
167 R MS M63-50	M63	M50	64	10	4	10	10.090	**2089637**

Reduction (Part H) in accordance with DIN 46320, with metric thread to DIN EN 60423 or ISO 68.
* Prices according to DEL notation.

Dimensions



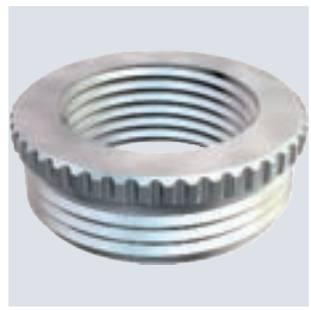
Type	Dim. L1 mm	Dim. L2 mm	Dim. D mm
167 R MS M16-12	6	2.5	20
167 R MS M20-12	6.5	3.5	24
167 R MS M20-16	6.5	3.5	24
167 R MS M25-16	7	3	30
167 R MS M25-20	7	3	30
167 R MS M32-20	8	3.5	39
167 R MS M32-25	8	3.5	39
167 R MS M40-25	9	3.5	50
167 R MS M40-32	9	3.5	50
167 R MS M50-32	10	4	57
167 R MS M50-40	10	4	57
167 R MS M63-40	10	4	64
167 R MS M63-50	10	4	64

CuZn 37 N

Pg

Reduction, PG thread

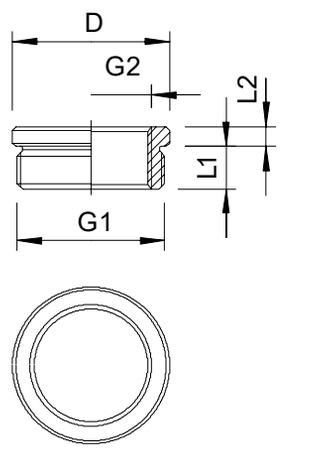
Type	Thread length mm		Pack Piece	Weight kg/100 pc.	Item no.
167 R MS PG9-7	6		50	0.430	**2089025**
167 R MS PG11-7	6		50	1.030	**2089041**
167 R MS PG11-9	6		50	0.650	**2089076**
167 R MS PG13-7	6.5		50	1.520	**2089092**
167 R MS PG13-9	6.5		50	1.120	**2089114**
167 R MS PG13-11	6.5		50	0.470	**2089130**
167 R MS PG16-9	6.5		50	1.730	**2089157**
167 R MS PG16-11	6.5		50	1.050	**2089173**
167 R MS PG16-13	6.5		50	0.656	**2089203**
167 R MS PG21-11	7		50	2.960	**2089238**
167 R MS PG21-13	7		50	2.520	**2089254**
167 R MS PG21-16	7		50	1.964	**2089270**
167 R MS PG29-16	8		50	6.560	**2089297**
167 R MS PG29-21	8		50	4.273	**2089319**
167 R MS PG36-21	9		25	11.660	**2089335**
167 R MS PG36-29	9		25	6.980	**2089351**
167 R MS PG42-36	10		25	6.750	**2089408**
167 R MS PG48-36	10		25	12.840	**2089424**
167 R MS PG48-42	10		25	6.230	**2089440**



Reduction (Part H) to DIN 46320, with Pg thread to DIN 40430, as a transition from a PG thread hole to a smaller cable gland.
* Prices according to DEL notation.

Type	External thread	Internal thread	Dim. L1 mm	Dim. L2 mm	Dim. D mm
167 R MS PG9-7	Pg 9	Pg 7	6	2.5	17
167 R MS PG11-7	Pg 11	Pg 7	6	2.5	20
167 R MS PG11-9	Pg 11	Pg 9	6	2.5	20
167 R MS PG13-7	Pg 13,5	Pg 7	6.5	2.5	22
167 R MS PG13-9	Pg 13,5	Pg 9	6.5	2.5	22
167 R MS PG13-11	Pg 13,5	Pg 11	6.5	2.5	22
167 R MS PG16-9	Pg 16	Pg 9	6.5	3	24
167 R MS PG16-11	Pg 16	Pg 11	6.5	3	24
167 R MS PG16-13	Pg 16	Pg 13,5	6.5	3	24
167 R MS PG21-11	Pg 21	Pg 11	7	3	30
167 R MS PG21-13	Pg 21	Pg 13,5	7	3	30
167 R MS PG21-16	Pg 21	Pg 16	7	3	30
167 R MS PG29-16	Pg 29	Pg 16	8	3.5	39
167 R MS PG29-21	Pg 29	Pg 21	8	3.5	39
167 R MS PG36-21	Pg 36	Pg 21	9	3.5	50
167 R MS PG36-29	Pg 36	Pg 29	9	3.5	50
167 R MS PG42-36	Pg 42	Pg 36	10	4	57
167 R MS PG48-36	Pg 48	Pg 36	10	4	64
167 R MS PG48-42	Pg 48	Pg 42	10	4	64

Dimensions



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Expansion piece, metric thread

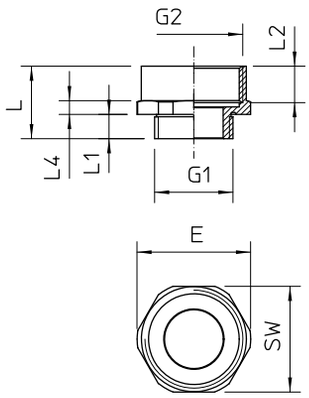
CuZn 37 N M



Type	External thread	Internal thread		Pack Piece	Weight kg/100 pc.	Item no.
165 ADA M12-16	M12	M16		50	1.030	**2088280**
165 ADA M16-20	M16	M20		50	1.430	**2088281**
165 ADA M20-25	M20	M25		50	2.090	**2088282**
165 ADA M25-32	M25	M32		50	2.710	**2088283**
165 ADA M32-40	M32	M40		25	5.180	**2088284**
165 ADA M40-50	M40	M50		10	10.150	**2088285**
165 ADA M 50-63	M50	M63		5	13.060	**2088286**

The areas of application for brass cable glands range from junction boxes as a distribution/-connection box up to large industrial applications for safe floor routing to switchgear cabinets with a control and distribution function. For high mechanical requirements, OBO can offer the entire family of extensions (Part K) to DIN 46320.
* Prices according to DEL notation.

Dimensions



Type	SW mm	Dim. E mm	Dim. L mm	Dim. L1 mm	Dim. L2 mm	Dim. D mm
165 ADA M12-16	18	20	16	5	7	8
165 ADA M16-20	22	24.5	16.7	5	8	12
165 ADA M20-25	27	29	18.5	6.4	9	15
165 ADA M25-32	34	35.8	20.7	7.4	8	20.8
165 ADA M32-40	42	45.5	23.8	8	10	26
165 ADA M40-50	52	58	30.5	8.2	12.5	33.8
165 ADA M 50-63	65	69.9	33	9.2	16	43.4

CuZn 37 N
M Pg

Adapter expansion M - PG

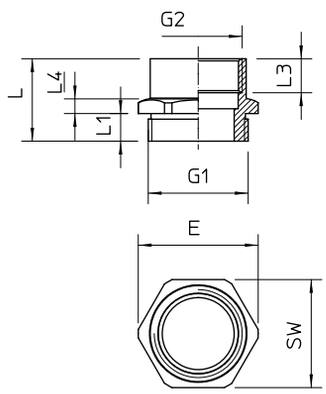
Type	External thread	Internal thread	Pack Piece	Weight kg/100 pc.	Item no.
165 ADA M12-PG7	M12	PG7	20	0.590	**2088301**
165 ADA M16-PG9	M16	PG9	20	9.110	**2088312**
165 ADA M16-PG11	M16	PG11	20	2.220	**2088302**
165 ADA M20-PG11	M20	PG11	20	1.760	**2088316**
165 ADA M20-PG13	M20	PG13,5	20	1.320	**2088303**
165 ADA M20-PG16	M20	PG16	20	1.650	**2088318**
165 ADA M25-PG16	M25	PG16	20	2.540	**2088304**
165 ADA M25-PG21	M25	PG21	20	2.330	**2088324**
165 ADA M32-PG29	M32	PG29	10	4.850	**2088330**
165 ADA M40-PG29	M40	PG29	10	7.150	**2088306**
165 ADA M50-PG42	M50	PG42	10	10.110	**2088307**
165 ADA M63-PG48	M63	PG48	4	20.750	**2088348**



Adapter for converting a metric threaded drill hole to a Pg threaded drill hole.

Type	External thread	Internal thread	SW mm	Dim. E mm	Dim. L mm	Dim. L1 mm	Dim. L3 mm	Dim. D mm
165 ADA M12-PG7	M12	PG7	14	15.5	16	6	9	8
165 ADA M16-PG9	M16	PG9	17	19	16.5	5	7	12
165 ADA M16-PG11	M16	PG11	22	24.5	16	6	7.9	12.5
165 ADA M20-PG11	M20	PG11	22	24.5	17.6	6.5	10.2	15
165 ADA M20-PG13	M20	PG13,5	22	24.5	19	6.5	11.5	16
165 ADA M20-PG16	M20	PG16	–	23.9	19.6	6	9	11.5
165 ADA M25-PG16	M25	PG16	27	30	20.5	7	12.5	18.3
165 ADA M25-PG21	M25	PG21	30	33.5	22.2	7	13.5	20.5
165 ADA M32-PG29	M32	PG29	40	44	24.4	8	15	27.5
165 ADA M40-PG29	M40	PG29	43	46.2	24.4	8	15	31.8
165 ADA M50-PG42	M50	PG42	57	60.8	31	9	20	44
165 ADA M63-PG48	M63	PG48	65	69.8	33	10	21	52.2

Dimensions



CuZn 37 N
M Pg

Adapter expansion PG - M

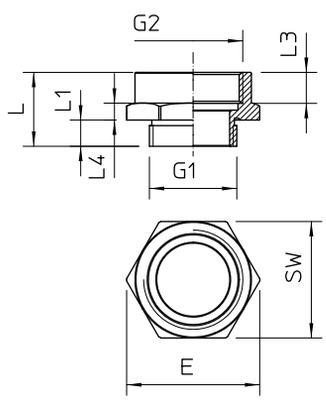
Type	External thread	Internal thread	Pack Piece	Weight kg/100 pc.	Item no.
165 ADA PG9-M16	PG9	M16	20	1.160	**2088291**
165 ADA PG11-M16	PG11	M16	20	2.237	**2088292**
165 ADA PG13-M20	PG13,5	M20	20	2.040	**2088293**
165 ADA PG16-M20	PG16	M20	20	3.080	**2088294**
165 ADA PG16-M25	PG16	M25	20	3.320	**2088295**
165 ADA PG21-M25	PG21	M25	10	4.490	**2088296**
165 ADA PG21-M32	PG21	M32	10	4.310	**2088297**
165 ADA PG29-M40	PG29	M40	10	4.830	**2088298**
165 ADA PG36-M50	PG36	M50	5	9.250	**2088299**



Adapter for converting a Pg threaded drill hole to a larger metric threaded drill hole.

Type	External thread	Internal thread	SW mm	Dim. E mm	Dim. L mm	Dim. L1 mm	Dim. L3 mm	Dim. D mm
165 ADA PG9-M16	PG9	M16	19	21	16	6	7.5	12.5
165 ADA PG11-M16	PG11	M16	22	24.5	16	6	7.5	13
165 ADA PG13-M20	PG13,5	M20	24	26	17.5	6.5	8.5	16
165 ADA PG16-M20	PG16	M20	27	29	17.5	6.5	8.5	18.5
165 ADA PG16-M25	PG16	M25	30	33.5	18.5	6.6	9.5	18.5
165 ADA PG21-M25	PG21	M25	32	33.5	19	7	9.5	23
165 ADA PG21-M32	PG21	M32	36	39	20	7	10.5	23
165 ADA PG29-M40	PG29	M40	43	46	21	8	10.5	32
165 ADA PG36-M50	PG36	M50	55	60	23	9	11	42

Dimensions



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Adapter reduction M - PG

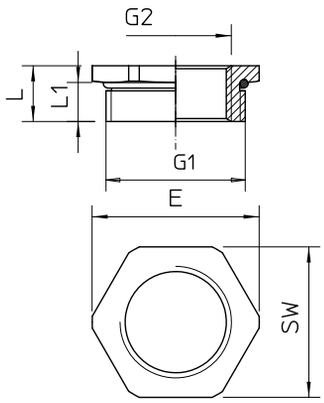
CuZn 37 | N | M | Pg



Type	External thread	Internal thread	Pack Piece	Weight kg/100 pc.	Item no.
165 ADA M16-PG7	M16	PG7	20	5.130	**2088310**
165 ADA M20-PG9	M20	PG9	20	1.100	**2088314**
165 ADA M25-PG11	M25	PG11	20	1.940	**2088320**
165 ADA M25-PG13	M25	PG13,5	20	1.610	**2088322**
165 ADA M32-PG16	M32	PG16	10	3.790	**2088328**
165 ADA M32-PG21	M32	PG21	10	1.730	**2088305**
165 ADA M40-PG21	M40	PG21	10	6.980	**2088334**
165 ADA M50-PG29	M50	PG29	5	11.220	**2088340**
165 ADA M63-PG36	M63	PG36	5	16.950	**2088344**
165 ADA M63-PG42	M63	PG42	5	10.460	**2088346**

Adapter for reducing a metric threaded drill hole to a smaller Pg threaded drill hole.

Dimensions



Type	External thread	Internal thread	SW mm	Dim. E mm	Dim. L mm	Dim. L1 mm
165 ADA M16-PG7	M16	PG7	17	19	8	5
165 ADA M20-PG9	M20	PG9	22	24.5	9	6
165 ADA M25-PG11	M25	PG11	27	30	10	7
165 ADA M25-PG13	M25	PG13,5	27	30	10	7
165 ADA M32-PG16	M32	PG16	34	36	11	8
165 ADA M32-PG21	M32	PG21	34	36	11	8
165 ADA M40-PG21	M40	PG21	43	46	12	8
165 ADA M50-PG29	M50	PG29	55	60	13	9
165 ADA M63-PG36	M63	PG36	65	69	14.2	10
165 ADA M63-PG42	M63	PG42	65	70	14.2	10

Adapter reduction PG - M

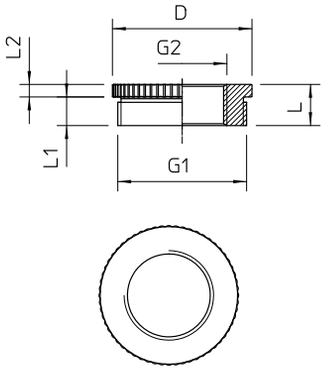
CuZn 37 | N | M | Pg



Type	External thread	Internal thread	Pack Piece	Weight kg/100 pc.	Item no.
165 ADA PG29-M25	PG29	M25	20	5.730	**2088289**

Adapter for converting a Pg threaded drill hole to a metric threaded drill hole.

Dimensions



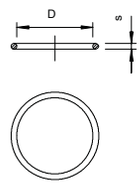
Type	External thread	Internal thread	Dim. D mm	Dim. L mm	Dim. L1 mm
165 ADA PG29-M25	PG29	M25	39	11.5	8

NBR

Pg

O sealing ring for PG connection thread

Type	Size mm	Dim. D mm	Dim. S mm	Pack Piece	Weight kg/100 pc.	Item no.
171 PG 9	Pg 9	13	1.5	100	0.008	**2088819**
171 PG11	Pg 11	16	1.5	100	0.010	**2088827**
171 PG13.5	Pg 13,5	18	1.5	100	0.011	**2088835**
171 PG16	Pg 16	20	1.5	100	0.012	**2088843**
171 PG21	Pg 21	25	2	100	0.027	**2088851**
171 PG29	Pg 29	33	2	100	0.035	**2088878**
171 PG36	Pg 36	43	2	50	0.045	**2088886**
171 PG42	Pg 42	50	2	50	0.052	**2088894**





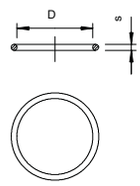
O sealing rings, suitable as connection thread sealing rings for all plastic and brass cable glands with Pg connection thread to DIN EN 60423 or ISO 68. The rings can be captively pre-mounted.

NBR

M

O sealing ring for metric connection thread

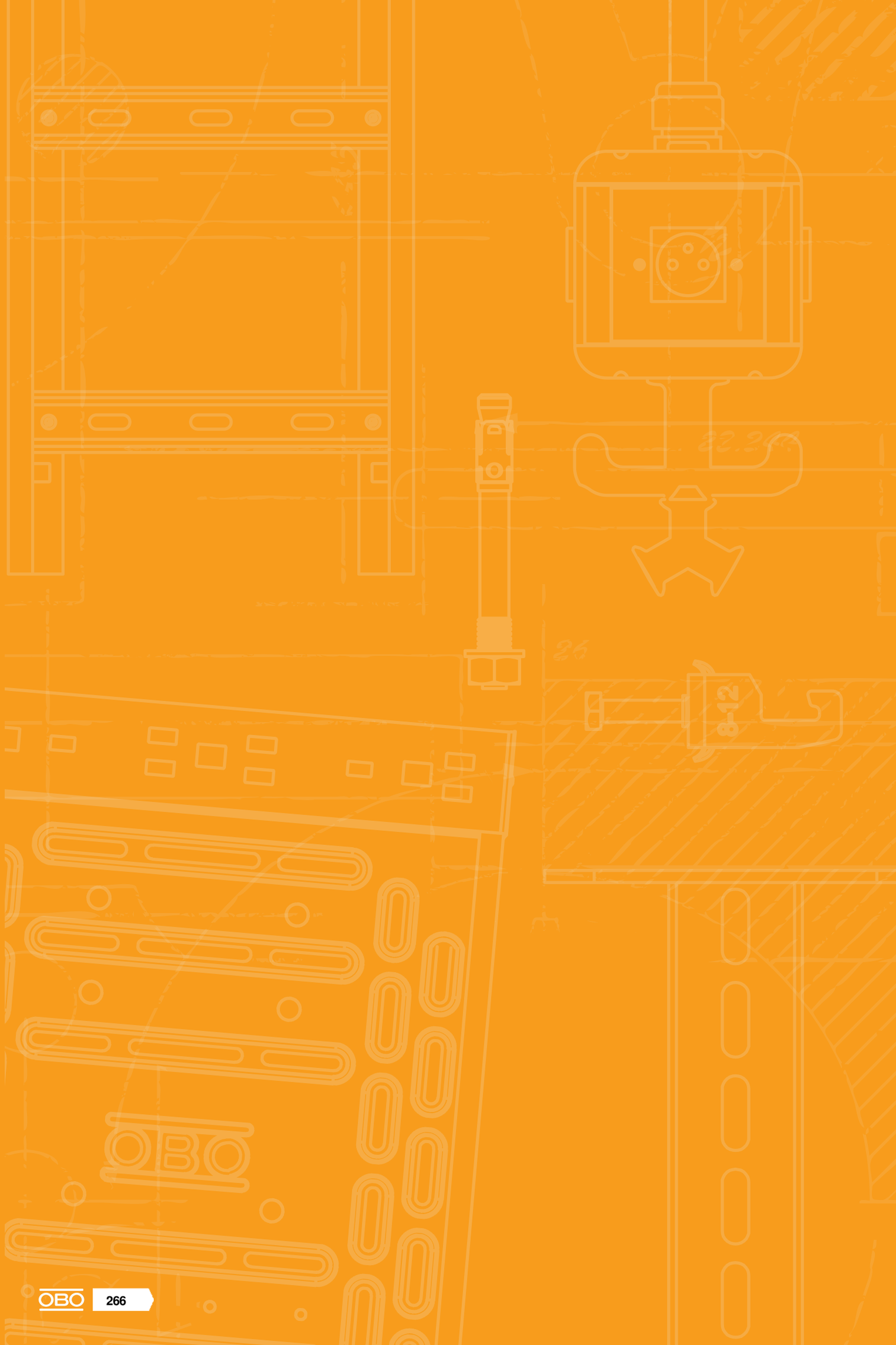
Type	Size mm	Dim. D mm	Dim. S mm	Pack Piece	Weight kg/100 pc.	Item no.
171 M12	M12	10	1.5	100	0.007	**2088703**
171 M16	M16	13	1.5	100	0.008	**2088711**
171 M20	M20	18	1.5	100	0.011	**2088738**
171 M25	M25	22	1.5	100	0.012	**2088746**
171 M32	M32	29	2	100	0.035	**2088754**
171 M40	M40	36	2	50	0.045	**2088762**
171 M50	M50	46	2	50	0.052	**2088770**
171 M63	M63	59	2	25	0.056	**2088789**





O sealing rings, suitable as connection thread sealing rings for all plastic and brass cable glands with metric connection thread to DIN EN 60423 or ISO 68. The rings can be captively pre-mounted.

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Pipe systems


Pipe systems, metal 268


Pipe systems, plastic 282


Plastic end caps 288

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Metal pipe systems

Protection against mechanical loads
OBO metal pipes are particularly suited to use under tough industrial conditions. They provide reliable protection against very heavy mechanical loads during cable routing.
The different material and surface qualities, from galvanised to painted, allow perfect adaptation to the requirements of the appropriate environment.

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

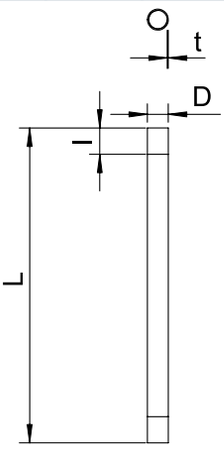


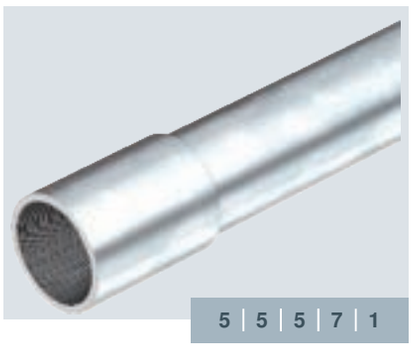


St G
M E30 E90

Electrogalvanised steel pipe, with thread

Type	Thread	Dim. D mm	Dim. L mm	Dim. l mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
SM16W G	M16x1,5	16	3000	13	1.3	30	50.390	**2046861**
SM20W G	M20x1,5	20	3000	13	1.5	30	66.667	**2046862**
SM25W G	M25x1,5	25	3000	18	1.5	30	92.290	**2046863**
SM32W G	M32x1,5	32	3000	18	1.5	21	120.000	**2046864**
SM40W G	M40x1,5	40	3000	20.5	1.5	15	151.450	**2046865**
SM50W G	M50x1,5	50	3000	25	1.5	15	190.000	**2046866**
SM63W G	M63x1,5	63	3000	25	1.7	9	287.700	**2046867**





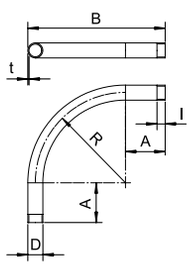
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Electrical installation pipe according to EN 61386-1 with threaded ends to EN 60423 for mechanical protection of cables.
With burr-free inner wall. One coupling is already screwed onto each pipe.

St G
M E30 E90

Electrogalvanised steel bend, with thread

Type	Thread	Dim. A mm	Dim. B mm	Dim. D mm	Dim. l mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBNM16 G	M16x1,5	45	103	16	13	50	1.4	15	10.400	**2046778**
SBNM20 G	M20x1,5	55	155	20	13	90	1.6	25	21.000	**2046779**
SBNM25 G	M25x1,5	68	190	25	18	110	1.6	25	33.000	**2046780**
SBNM32 G	M32x1,5	88	254	32	18	150	1.6	20	56.600	**2046781**
SBNM40 G	M40x1,5	89	279	40	20.5	170	1.6	15	77.600	**2046782**
SBNM50 G	M50x1,5	133	358	50	25	200	1.6	5	125.800	**2046783**
SBNM63 G	M63x1,5	165	446	63	25	250	1.8	3	227.000	**2046784**



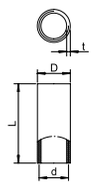


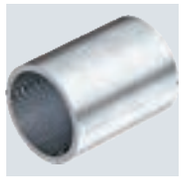
90° bend for electrical installation pipes according to EN 61386-1 with threaded ends to DIN EN 60423. With burr-free inner wall.
One connection sleeve is already screwed onto each pipe bend.

St G
M E30 E90

Electrogalvanised steel sleeve, with thread

Type	Thread	Dim. D mm	Dim. d mm	Dim. L mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SVM16W G	M16x1,5	18.5	16	26	2	25	2.110	**2046875**
SVM20W G	M20x1,5	22.5	20	30	2	50	3.000	**2046876**
SVM25W G	M25x1,5	27.5	25	40	2	50	5.030	**2046877**
SVM32W G	M32x1,5	35.5	32	40	2.5	50	8.800	**2046878**
SVM40W G	M40x1,5	43.5	40	45	2.5	25	11.370	**2046879**
SVM50W G	M50x1,5	53.5	50	54	2.5	10	16.970	**2046880**
SVM63W G	M63x1,5	68	63	60	3.2	5	30.670	**2046881**



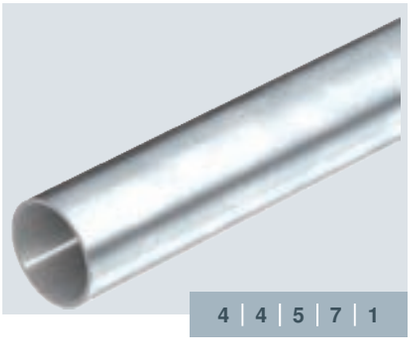


Accessory part: coupling with thread according to EN 60423 to connect electrical installation pipes and 90° bends.

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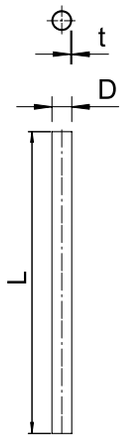
Armoured steel pipe without thread, electrogalvanised

St G E30 E90



Electrical installation pipe without threaded ends according to EN 61386-1 for mechanical protection of cables. With burr-free inner wall.

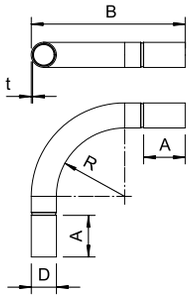
Type	Dim. D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W G	16	3000	1	30	37.000	**2046840**
S20W G	20	3000	1	30	44.700	**2046841**
S25W G	25	3000	1.2	30	70.400	**2046842**
S32W G	32	3000	1.2	21	91.200	**2046843**
S40W G	40	3000	1.2	15	139.700	**2046844**
S50W G	50	3000	1.2	15	176.000	**2046845**
S63W G	63	3000	1.2	9	223.000	**2046846**



Electrogalvanised steel bend, without thread

St G E30 E90





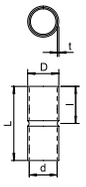
Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBN16 G	43.7	103	18.6	50	1	15	7.200	**2046808**
SBN20 G	53.7	155	22.6	90	1	25	13.300	**2046809**
SBN25 G	66.5	190	28	110	1.2	25	24.400	**2046810**
SBN32 G	86.5	254	35.1	150	1.2	20	41.000	**2046811**
SBN40 G	87.2	279	43.7	170	1.5	15	70.200	**2046812**
SBN50 G	131	358	54	200	1.5	5	111.800	**2046813**
SBN63 G	163	446	67	250	1.5	3	174.200	**2046814**

90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.

Armoured steel pipe connection sleeve without thread, electrogalvanised

St G E30 E90





Type	Dim. D mm	Dim. d mm	Dim. L mm	Dim. l mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SV16W G	18.6	16.6	50	25	1	25	2.100	**2046854**
SV20W G	23.1	20.7	60	30	1.2	50	2.800	**2046855**
SV25W G	28.1	25.7	60	30	1.2	50	4.800	**2046856**
SV32W G	35.2	32.8	70	35	1.2	50	7.200	**2046857**
SV40W G	43.8	43.8	80	40	1.5	25	13.200	**2046858**
SV50W G	54	51	100	50	1.5	10	20.000	**2046859**
SV63W G	67	64	100	50	1.5	5	28.000	**2046860**

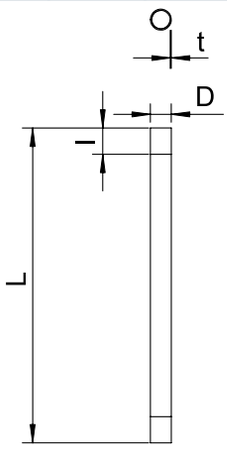
Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.

St

M E30 E90

Armoured steel pipe with thread, black

Type	Thread	Dim. D mm	Dim. L mm	Dim. l mm	Dim. t mm	Colour	Pack m	Weight kg/100 m	Item no.
SM16W SW	M16x1,5	16	3000	13	1.3	Jet black	30	50.000	**2046500**
SM20W SW	M20x1,5	20	3000	13	1.5	Jet black	30	73.000	**2046501**
SM25W SW	M25x1,5	25	3000	18	1.5	Jet black	30	92.000	**2046502**
SM32W SW	M32x1,5	32	3000	18	1.5	Jet black	21	120.000	**2046503**
SM40W SW	M40x1,5	40	3000	20.5	1.5	Jet black	15	152.000	**2046505**
SM50W SW	M50x1,5	50	3000	25	1.5	Jet black	15	190.700	**2046506**
SM63W SW	M63x1,5	63	3000	25	1.7	Jet black	9	287.700	**2046507**





5 | 5 | 5 | 6 | 1

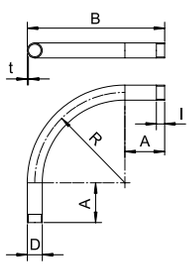
Electrical installation pipe according to EN 61386-1 with threaded ends to EN 60423 for mechanical protection of cables.
With burr-free inner wall. One coupling is already screwed onto each pipe.

St

M E30 E90

Black powder-coated steel bend, with thread

Type	Thread	Dim. A mm	Dim. B mm	Dim. D mm	Dim. l mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBNM16 SW	M16x1,5	45	103	16	13	50	1.4	15	10.400	**2046793**
SBNM20 SW	M20x1,5	55	155	20	13	90	1.6	25	21.000	**2046794**
SBNM25 SW	M25x1,5	68	190	25	18	110	1.6	25	33.000	**2046795**
SBNM32 SW	M32x1,5	88	254	32	18	150	1.6	20	56.600	**2046796**
SBNM40 SW	M40x1,5	89	279	40	20.5	170	1.6	15	77.600	**2046797**
SBNM50 SW	M50x1,5	133	358	50	25	200	1.6	5	125.800	**2046798**
SBNM63 SW	M63x1,5	165	446	63	25	250	1.8	3	227.000	**2046799**





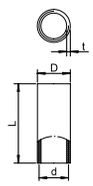
90° bend for electrical installation pipes according to EN 61386-1 with threaded ends to DIN EN 60423. With burr-free inner wall.
One connection sleeve is already screwed onto each pipe bend.

St

M E30 E90

Black powder-coated steel sleeve, with thread

Type	Thread	Dim. D mm	Dim. d mm	Dim. L mm	Dim. t mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
SVM16W SW	M16x1,5	18.5	16	26	2	Jet black	25	2.100	**2046522**
SVM20W SW	M20x1,5	22.5	20	30	2	Jet black	50	3.400	**2046523**
SVM25W SW	M25x1,5	27.5	25	40	2	Jet black	50	5.000	**2046524**
SVM32W SW	M32x1,5	35.5	32	40	2.5	Jet black	50	8.800	**2046525**
SVM40W SW	M40x1,5	43.5	40	45	2.5	Jet black	25	11.400	**2046526**
SVM50W SW	M50x1,5	53.5	50	54	2.5	Jet black	10	17.000	**2046527**
SVM63W SW	M63x1,5	68	63	60	3.2	Jet black	5	30.700	**2046528**



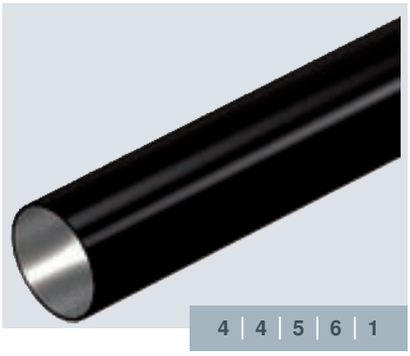


Accessory part: coupling with thread according to EN 60423 to connect electrical installation pipes and 90° bends.

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Armoured steel pipe without thread, black

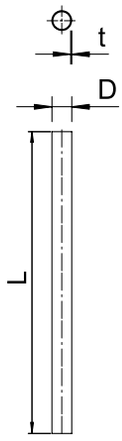
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E30 E90



4 | 4 | 5 | 6 | 1

Electrical installation pipe without threaded ends according to EN 61386-1 for mechanical protection of cables. With burr-free inner wall.

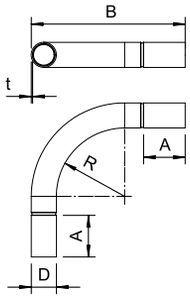
Type	Dim. D mm	Dim. L mm	Dim. t mm	Colour	Pack m	Weight kg/100 m	Item no.
S16W SW	16	3000	1	Jet black	30	37.000	**2046565**
S20W SW	20	3000	1	Jet black	30	44.700	**2046566**
S25W SW	25	3000	1.2	Jet black	30	70.400	**2046567**
S32W SW	32	3000	1.2	Jet black	21	91.200	**2046568**
S40W SW	40	3000	1.2	Jet black	15	139.700	**2046569**
S50W SW	50	3000	1.2	Jet black	15	176.000	**2046570**
S63W SW	63	3000	1.2	Jet black	9	223.000	**2046571**



Black powder-coated steel bend, without thread

St
E30 E90



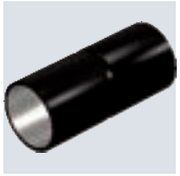


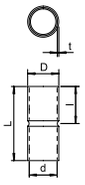
Type	Colour	Dim. A mm	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBN16 SW	Jet black	43.7	103	16.6	50	1	15	7.200	**2046824**
SBN20 SW	Jet black	53.7	155	20.6	90	1	25	13.300	**2046825**
SBN25 SW	Jet black	66.5	190	25.6	110	1.2	25	24.400	**2046826**
SBN32 SW	Jet black	86.5	254	32.7	150	1.2	20	41.000	**2046827**
SBN40 SW	Jet black	87.2	279	40.7	170	1.5	15	68.900	**2046828**
SBN50 SW	Jet black	131	358	51	200	1.5	5	111.800	**2046829**
SBN63 SW	Jet black	163	446	64	250	1.5	3	174.200	**2046830**

90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.

Armoured steel pipe connection sleeve without thread, black

St
E30 E90





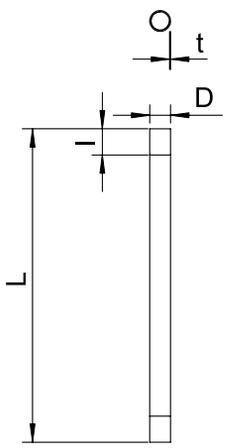
Type	Dim. D mm	Dim. d mm	Dim. L mm	Dim. l mm	Dim. t mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
SV16W SW	18.6	16.6	50	25	1	Jet black	25	2.400	**2046582**
SV20W SW	23.1	20.7	60	30	1.2	Jet black	50	3.200	**2046583**
SV25W SW	28.1	25.7	60	30	1.2	Jet black	50	5.500	**2046584**
SV32W SW	35.2	32.8	70	35	1.2	Jet black	50	7.900	**2046585**
SV40W SW	43.8	40.8	80	40	1.5	Jet black	25	13.200	**2046586**
SV50W SW	54	51	100	50	1.5	Jet black	10	20.000	**2046587**
SV63W SW	67	64	100	50	1.5	Jet black	5	28.000	**2046588**

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.

St FT
M E30 E90

Hot-dip galvanised steel pipe, with thread

Type	Thread	Dim. D mm	Dim. L mm	Dim. l mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
SM16W FT	M16x1,5	16	3000	13	1.3	30	54.000	**2046533**
SM20W FT	M20x1,5	20	3000	13	1.5	30	79.000	**2046534**
SM25W FT	M25x1,5	25	3000	18	1.5	30	99.000	**2046535**
SM32W FT	M32x1,5	32	3000	18	1.5	21	130.000	**2046536**
SM40W FT	M40x1,5	40	3000	20.5	1.5	15	164.000	**2046537**
SM50W FT	M50x1,5	50	3000	25	1.5	15	206.000	**2046538**
SM63W FT	M63x1,5	63	3000	26	1.8	9	324.700	**2046540**





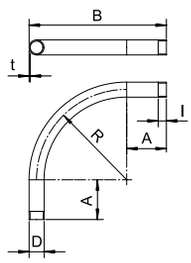
5 | 5 | 5 | 7 | 1

Electrical installation pipe according to EN 61386-1 with threaded ends to EN 60423 for mechanical protection of cables.
With burr-free inner wall. Corrosion protection class 4 (high). One coupling is already screwed onto each pipe.

St FT
M E30 E90

Hot-dip galvanised steel bend, with thread

Type	Thread	Dim. A mm	Dim. B mm	Dim. D mm	Dim. l mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBNM16 FT	M16x1,5	45	103	16	13	50	1.4	15	10.400	**2046786**
SBNM20 FT	M20x1,5	55	155	20	13	90	1.6	25	21.000	**2046787**
SBNM25 FT	M25x1,5	68	190	25	18	110	1.6	25	33.000	**2046788**
SBNM32 FT	M32x1,5	88	254	32	18	150	1.6	20	56.600	**2046789**
SBNM40 FT	M40x1,5	89	279	40	20.5	170	1.6	15	77.600	**2046790**
SBNM50 FT	M50x1,5	133	358	50	25	200	1.6	5	125.800	**2046791**
SBNM63 FT	M63x1,5	165	446	63	25	250	1.8	3	227.000	**2046792**



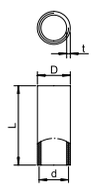


90° bend for electrical installation pipes according to EN 61386-1 with threaded ends to DIN EN 60423. With burr-free inner wall.
One connection sleeve is already screwed onto each pipe bend.

St
M E30 E90

Zinc-nickel coated steel sleeve, with thread

Type	Thread	Dim. D mm	Dim. d mm	Dim. L mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SVM16W DN	M16x1,5	18.5	16	26	2	25	2.100	**2046553**
SVM20W DN	M20x1,5	22.5	20	30	2	50	3.000	**2046554**
SVM25W DN	M25x1,5	27.5	25	40	2	50	3.986	**2046556**
SVM32W DN	M32x1,5	35.5	32	40	2.5	50	8.800	**2046557**
SVM40W DN	M40x1,5	43.5	40	45	2.5	25	11.400	**2046558**
SVM50W DN	M50x1,5	53.5	50	54	2.5	10	17.000	**2046559**
SVM63W DN	M63x1,5	68	63	60	3.2	5	30.700	**2046560**





Accessory part: coupling with thread according to EN 60423 to connect electrical installation pipes and 90° bends.

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Hot-dip galvanised steel pipe, without thread

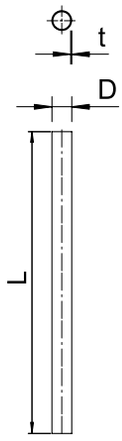
St FT E30 E90



4 | 4 | 5 | 7 | 1

Electrical installation pipe without threaded ends according to EN 61386-1 for mechanical protection of cables. With burr-free inner wall. Corrosion protection class 4 (high).

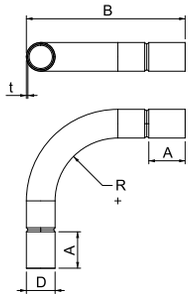
Type	Dim. D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W FT	16	3000	1	30	37.000	**2046593**
S20W FT	20	3000	1	30	44.700	**2046594**
S25W FT	25	3000	1.2	30	70.400	**2046595**
S32W FT	32	3000	1.2	21	91.200	**2046596**
S40W FT	40	3000	1.2	15	139.700	**2046597**
S50W FT	50	3000	1.2	15	176.000	**2046598**
S63W FT	63	3000	1.2	9	223.000	**2046599**



Hot-dip galvanised steel bend, without thread

St FT E30 E90



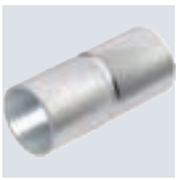


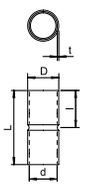
Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBN16 FT	43.7	103	16.6	50	1	15	7.200	**2046816**
SBN20 FT	53.7	155	20.6	90	1	25	13.300	**2046817**
SBN25 FT	66.5	190	25.6	110	1.2	25	24.400	**2046818**
SBN32 FT	86.5	254	32.7	150	1.2	20	41.000	**2046819**
SBN40 FT	87.2	279	40.7	170	1.5	15	68.900	**2046820**
SBN50 FT	131	358	51	200	1.5	5	111.800	**2046821**
SBN63 FT	163	446	64	250	1.5	3	174.200	**2046822**

90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.

Hot-dip galvanised steel sleeve, without thread

St FT E30 E90





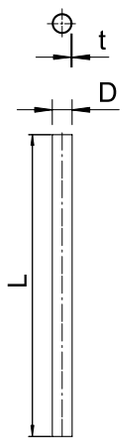
Type	Dim. D mm	Dim. d mm	Dim. L mm	Dim. l mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SV16W FT	18.6	16.6	50	25	1	25	2.200	**2046620**
SV20W FT	23.1	20.7	60	30	1.2	50	3.200	**2046621**
SV25W FT	28.1	25.7	60	30	1.2	50	5.100	**2046622**
SV32W FT	35.2	32.8	70	35	1.2	50	7.500	**2046623**
SV40W FT	43.8	40.8	80	40	1.5	25	14.400	**2046624**
SV50W FT	54	51	100	50	1.5	10	22.000	**2046625**
SV63W FT	67	63	100	50	1.5	5	22.000	**2046626**

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.

VA 2B
E30 E90

Stainless steel pipe, V2A

Type	Dim. D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W A2	16	3000	1	30	37.000	**2046720**
S20W A2	20	3000	1	30	46.900	**2046721**
S25W A2	25	3000	1	30	59.200	**2046722**
S32W A2	32	3000	1.2	21	91.200	**2046723**
S40W A2	40	3000	1.2	15	114.800	**2046724**
S50W A2	50	3000	1.5	15	179.400	**2046725**
S63W A2	63	3000	1.5	9	227.500	**2046726**





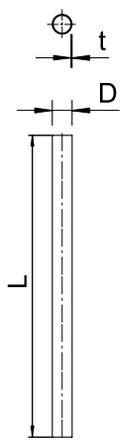
5 | 5 | 5 | 7 | 1

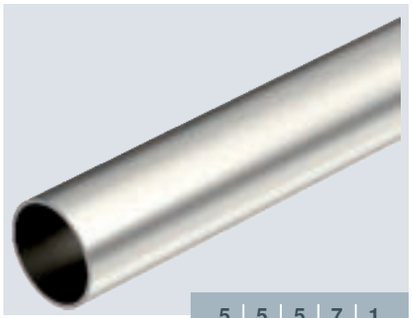
Electrical installation pipe without threaded ends to EN 61386-1 for mechanical protection of cables. With burr-free inner wall. Corrosion protection class 4 (high).
Classification according to DIN EN 61386-1: 555711404010

VA 2B
E30 E90

Stainless steel pipe, V4A

Type	Dim. D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W A4	16	3000	1	15	37.000	**2046750**
S20W A4	20	3000	1	15	46.900	**2046751**
S25W A4	25	3000	1	15	59.200	**2046752**
S32W A4	32	3000	1.2	15	91.200	**2046753**
S40W A4	40	3000	1.2	9	114.800	**2046754**
S50W A4	50	3000	1.5	9	179.400	**2046755**
S63W A4	63	3000	1.5	9	227.500	**2046756**





5 | 5 | 5 | 7 | 1

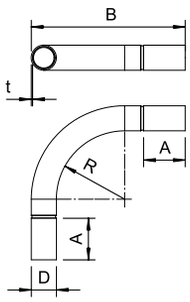
Electrical installation pipe without threaded ends to EN 61386-1 for mechanical protection of cables. With burr-free inner wall. Corrosion protection class 4 (high).

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Stainless steel pipe bend, V4A

VA 2B
E30 E90





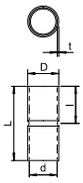
Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SB16W A4	54	104	18.2	50	1	5	7.200	**2046760**
SB20W A4	66	156	22.2	90	1	10	13.300	**2046761**
SB25W A4	81.5	194	27.2	112.5	1	10	20.400	**2046762**
SB32W A4	104	250	34.7	146	1.25	10	42.000	**2046763**
SB40W A4	129	294	42.7	165	1.25	5	61.200	**2046764**
SB50W A4	158	408	52.7	250	1.25	5	79.500	**2046765**
SB63W A4	198	448	65.7	250	1.25	3	144.600	**2046766**

90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.

Stainless steel sleeve V4A

VA 2B
E30 E90





Type	Dim. D mm	Dim. d mm	Dim. L mm	Dim. l mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SV16W A4	18.2	16.2	50	25	1	10	2.100	**2046770**
SV20W A4	22.2	20.2	60	30	1	15	3.200	**2046771**
SV25W A4	27.2	25.2	60	30	1	15	3.900	**2046772**
SV32W A4	34.7	32.2	70	35	1.25	15	7.300	**2046773**
SV40W A4	42.7	40.2	80	40	1.25	10	10.300	**2046774**
SV50W A4	52.8	50.2	100	50	1.3	5	16.700	**2046775**
SV63W A4	65.8	63.2	100	50	1.3	3	20.900	**2046776**

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.



Aluminium pipes

Small weight – high protection.

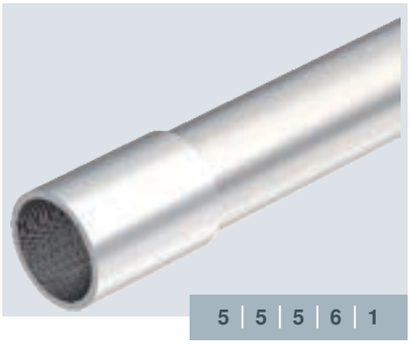
Simple installation in any environment, both inside and outdoors.

- Less weight
- High resistance against compression and impact
- Corrosion resistant
- M16–M63
- Accessories: Bends and couplings
- Plug-in or threaded system

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Aluminium pipe, with thread

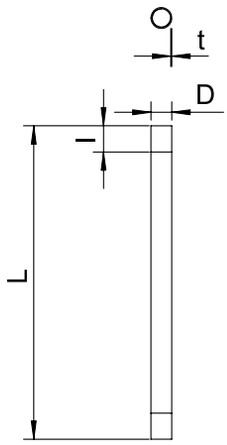
Alu
M



5 | 5 | 5 | 6 | 1

Electrical installation pipe to EN 61386-1 with threaded ends to DIN EN 60423 for mechanical protection of cables.
With burr-free inner wall. One connection sleeve is already screwed onto each pipe.

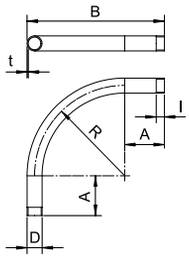
Type	Thread	Dim. D mm	Dim. L mm	Dim. l mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
SM16W ALU	M16x1,5	16	3000	15	1.6	30	19.543	**2046032**
SM20W ALU	M20x1,5	20	3000	15	1.9	30	29.170	**2046033**
SM25W ALU	M25x1,5	25	3000	20	1.9	30	37.230	**2046034**
SM32W ALU	M32x1,5	32	3000	20	1.9	30	48.510	**2046035**
SM40W ALU	M40x1,5	40	3000	20	1.9	15	61.403	**2046036**
SM50W ALU	M50x1,5	50	3000	25	2.1	15	85.323	**2046037**
SM63W ALU	M63x1,5	63	3000	25	2.1	15	108.480	**2046038**



Aluminium pipe bend, with thread

Alu
M





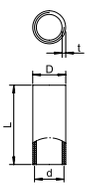
Type	Thread	Dim. A mm	Dim. B mm	Dim. D mm	Dim. l mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBM16W ALU	M16x1,5	78	150	16	15	64	1.6	15	3.300	**2046042**
SBM20W ALU	M20x1,5	80	170	20	15	80	1.9	25	7.300	**2046043**
SBM25W ALU	M25x1,5	93	208	25	20	102.5	1.9	25	11.500	**2046044**
SBM32W ALU	M32x1,5	105	252	32	20	131	1.9	20	20.000	**2046045**
SBM40W ALU	M40x1,5	115	300	40	20	165	1.9	15	27.300	**2046046**
SBM50W ALU	M50x1,5	128	358	50	25	205	2.1	5	49.500	**2046047**
SBM63W ALU	M63x1,5	135	423	63	25	256.5	2.1	3	78.400	**2046048**

90° bend for electrical installation pipes according to EN 61386-1 with threaded ends to DIN EN 60423. With burr-free inner wall.
One connection sleeve is already screwed onto each pipe bend.

Aluminium sleeve, with thread

Alu
M





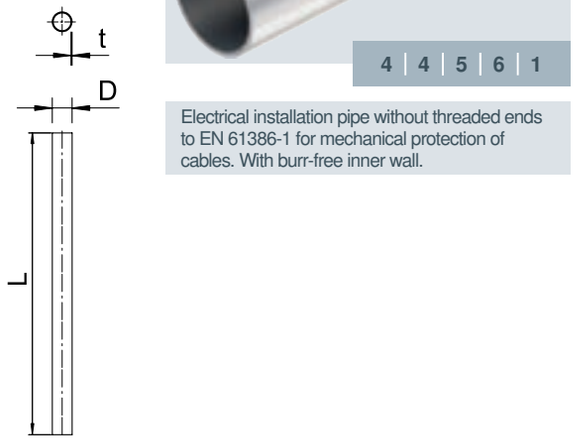
Type	Thread	Dim. D mm	Dim. d mm	Dim. L mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SVM16W ALU	M16x1,5	18.5	16	35	2.25	50	1.080	**2046052**
SVM20W ALU	M20x1,5	22.5	20	35	2.25	50	1.100	**2046053**
SVM25W ALU	M25x1,5	28	25	45	2.5	50	2.430	**2046054**
SVM32W ALU	M32x1,5	35	32	45	2.5	50	3.100	**2046055**
SVM40W ALU	M40x1,5	43.5	40	45	2.75	20	4.270	**2046056**
SVM50W ALU	M50x1,5	53.5	50	55	2.75	20	6.510	**2046057**
SVM63W ALU	M63x1,5	66.5	63	55	2.8	20	8.320	**2046058**

Accessory part: coupling with thread according to EN 60423 to connect electrical installation pipes and 90° bends.

Alu

Aluminium pipe, without thread

Type	Dim. D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W ALU	16	3000	1.2	30	15.065	**2046002**
S20W ALU	20	3000	1.2	30	19.134	**2046003**
S25W ALU	25	3000	1.3	30	26.134	**2046004**
S32W ALU	32	3000	1.3	30	33.853	**2046005**
S40W ALU	40	3000	1.4	15	45.839	**2046006**
S50W ALU	50	3000	1.4	15	57.714	**2046007**
S63W ALU	63	3000	1.7	15	88.394	**2046008**



4 | 4 | 5 | 6 | 1

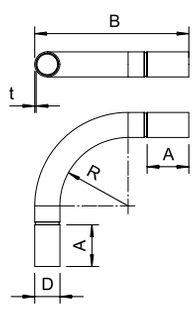
Electrical installation pipe without threaded ends to EN 61386-1 for mechanical protection of cables. With burr-free inner wall.

Alu

Aluminium pipe bend, without thread

Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SB16W ALU	78	151	16	64	1.2	15	2.350	**2046012**
SB20W ALU	80	171	20	80	1.2	25	5.500	**2046013**
SB25W ALU	93	209	25	102.5	1.3	25	9.000	**2046014**
SB32W ALU	105	253	32	131	1.3	20	14.100	**2046015**
SB40W ALU	115	302	40	165	1.4	15	22.400	**2046016**
SB50W ALU	128	360	50	205	1.4	5	35.400	**2046017**
SB63W ALU	135	425	63	256.5	1.7	3	59.500	**2046018**

90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.



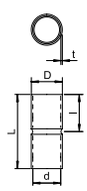


Alu

Aluminium sleeve, without thread

Type	Dim. D mm	Dim. d mm	Dim. L mm	Dim. l mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SV16W ALU	18.6	16.2	40	20	1.2	50	0.700	**2046022**
SV20W ALU	22.6	20.2	50	25	1.2	50	1.300	**2046023**
SV25W ALU	27.6	25.2	60	30	1.2	50	1.900	**2046024**
SV32W ALU	34.6	32.2	70	35	1.2	50	2.400	**2046025**
SV40W ALU	43	40.2	70	35	1.4	20	4.000	**2046026**
SV50W ALU	53	50.2	90	45	1.4	20	6.100	**2046027**
SV63W ALU	66.2	63.2	110	55	1.5	20	9.000	**2046028**

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.

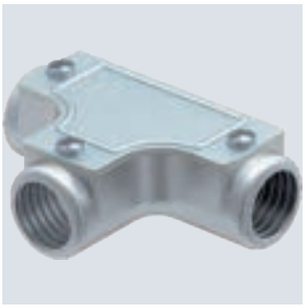


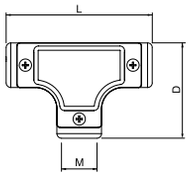


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Control T piece with thread

AIG
M
IP 54





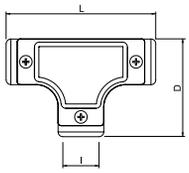
Type	Size	Dim. D mm	Dim. L mm	Dimension M	Pack Piece	Weight kg/100 pc.	Item no.
SKTM16W ALU	16	47.5	72	M16x1,5	5	7.200	**2047604**
SKTM20W ALU	20	65	102	M20x1,5	5	13.500	**2047605**
SKTM25W ALU	25	75	115	M25x1,5	5	22.000	**2047606**
SKTM32W ALU	32	96	156	M32x1,5	4	46.600	**2047607**
SKTM40W ALU	40	96	156	M40x1,5	4	34.000	**2047608**
SKTM50W ALU	50	124.5	194	M50x1,5	2	56.300	**2047609**

Die-cast aluminium T piece, with internal thread, for mounting in pipe sections as a junction. Removable cover for easier cable routing and later checking.

Control T piece without thread

AIG
IP 54





Type	Size	Dim. D mm	Dim. L mm	Dim. I mm	Pack Piece	Weight kg/100 pc.	Item no.
SKT16W ALU	16	47.5	72	16	5	6.900	**2047588**
SKT20W ALU	20	65	102	20	5	12.900	**2047589**
SKT25W ALU	25	75	115	25	5	21.500	**2047590**
SKT32W ALU	32	96	156	32	4	45.300	**2047591**
SKT40W ALU	40	96	156	40	4	32.800	**2047592**
SKT50W ALU	50	124.5	194	50	2	53.100	**2047593**

Die-cast aluminium T piece, for mounting in pipe sections as a junction. Removable cover for easier cable routing and later checking.



Quick pipe

The Quick pipe system combines the benefits of cable ducts and conventional electrical installation pipes to produce a single, intelligent system for surface-mounted installations.



- 4 sizes – M16-M32
- Two colours: White and grey
- Simple installation
- Retroinstallation possible
- VDE-approved



Cables are inserted in the open Quick pipe electrical installation pipes in the same way as with open cable ducting.



After the cable has been laid the Quick pipe is turned in the Quick clip, and thereby closed tightly.



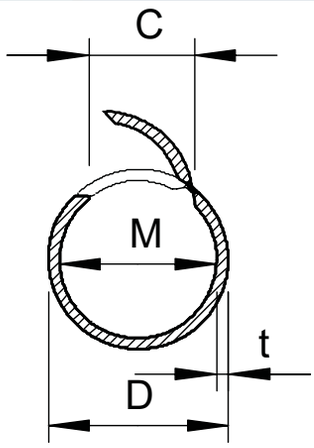
Retro-fittings are also possible because the Quick pipe can be opened easily by turning it.

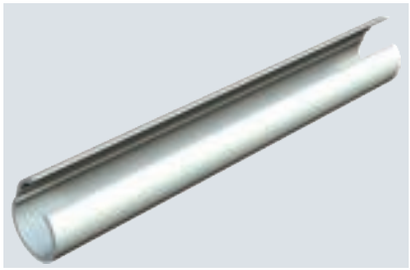
PVC

IP 44 M

Quick pipe

Type	Size	Colour	Length mm	Dim. t mm	Dim. C mm	Dim. D mm	Dimension M	Pack m	Weight kg/100 m	Item no.
2953 M16 LGR	M16	Light grey	2000	1.2	8.2	15.6	13,2	50	7.000	**2153904**
2953 M20 LGR	M20	Light grey	2000	1.5	10	20	17	40	11.500	**2153912**
2953 M25 LGR	M25	Light grey	2000	1.6	13.6	25	21,8	30	16.000	**2153920**
2953 M32 LGR	M32	Light grey	2000	1.7	17	32	28,6	20	21.500	**2153939**





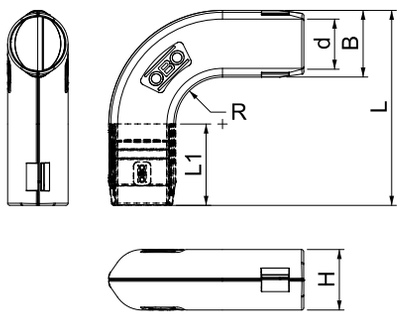
Open plastic Quick pipe pipe for surface-mounted routing of cables in interiors and protected outdoor areas. Mounting on wall and ceiling with Quick clip, starQuick clip and Multi-Quick clip. Toolless closing and opening through turning in the clip. Can be used in a temperature range of –25 to +60 °C.

PP

IP 44 M

90° Quick pipe bend

Type	Size	Colour	Dim. B mm	Dim. L mm	Dim. L1 mm	Dim. R mm	Height mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
3000 BMS M16 LGR	M16	Light grey	21.4	69	28	20	18	15.6	10	0.592	**2154052**
3000 BMS M20 LGR	M20	Light grey	26.3	83.2	35	22	23	20	5	1.103	**2154054**
3000 BMS M25 LGR	M25	Light grey	31.2	91	38	22	28	25	5	1.514	**2154056**
3000 BMS M32 LGR	M32	Light grey	38.8	103	42	22	35	32.6	5	2.035	**2154058**





Fitting for plastic electrical installation pipes to create 90° bends. Suitable for Quick pipe pipes or corrugated pipes. Toolless closing and opening. Can be used in a temperature range of –25 to +60 °C.

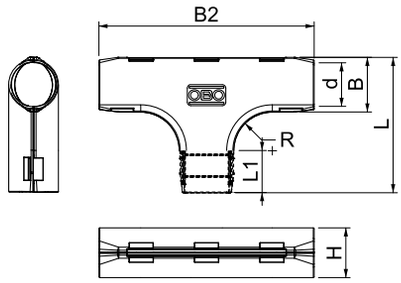
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Quick pipe T piece

PP
IP 44 M



Type	Size	Colour	Dim. L mm	Dim. B mm	Dim. B2 mm	Dim. L1 mm	Dim. d mm	Height mm	Dim. R mm	Pack Piece	Weight kg/100 pc.	Item no.
3000 TMS M16 LGR	M16	Light grey	58	21	94	17	16	18	20	10	0.798	**2153839**
3000 TMS M20 LGR	M20	Light grey	69	26	110	20	20	23	22	5	1.401	**2153841**
3000 TMS M25 LGR	M25	Light grey	77	31	123	24	25	28	22	5	1.977	**2153843**
3000 TMS M32 LGR	M32	Light grey	87	39	135	26	32.6	35	22	5	2.511	**2153845**



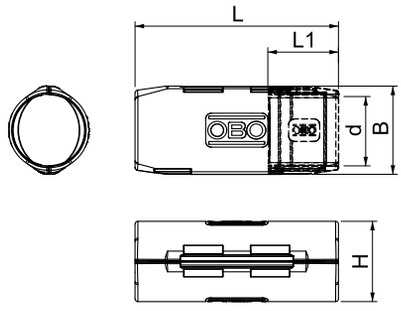
Fitting for plastic electrical installation pipes to create T branches. Suitable for Quick pipe pipes or corrugated pipes. Toolless closing and opening. Can be used in a temperature range of –25 to +60 °C.

Quick pipe connection sleeve

PP
IP 44 M



Type	Size	Colour	Dim. L mm	Dim. B mm	Dim. L1 mm	Height mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
3000 MMS M16 LGR	M16	Light grey	52	21	18	18	15.6	10	0.299	**2154081**
3000 MMS M20 LGR	M20	Light grey	65	26	23	23	20	10	0.581	**2154083**
3000 MMS M25 LGR	M25	Light grey	72	31	25	28	25	10	0.823	**2154085**
3000 MMS M32 LGR	M32	Light grey	80	39	28	35	32.6	10	1.095	**2154087**



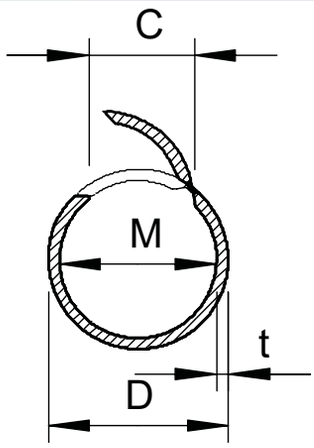
Connection sleeve for plastic electrical installation pipes to create straight connections. Suitable for Quick pipe pipes or corrugated pipes. Toolless closing and opening. Can be used in a temperature range of –25 to +60 °C.

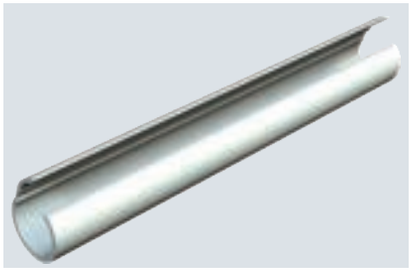
PVC

IP 44 M

Quick pipe

Type	Size	Colour	Length mm	Dim. t mm	Dim. C mm	Dim. D mm	Dimension M	Pack m	Weight kg/100 m	Item no.
2953 M16 RW	M16	Pure white	2000	1.2	8.2	15.6	13,2	50	7.700	**2153960**
2953 M20 RW	M20	Pure white	2000	1.5	10	20	17	40	11.500	**2153963**
2953 M25 RW	M25	Pure white	2000	1.6	13.6	25	21,8	30	16.000	**2153966**
2953 M32 RW	M32	Pure white	2000	1.7	17	32	28,6	20	21.500	**2153969**





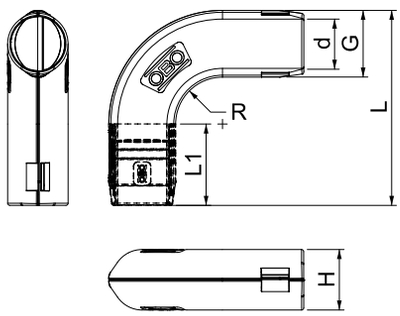
Open plastic Quick pipe pipe for surface-mounted routing of cables in interiors and protected outdoor areas. Mounting on wall and ceiling with Quick clip, starQuick clip and Multi-Quick clip. Toolless closing and opening through turning in the clip. Can be used in a temperature range of –25 to +60 °C.

PP

IP 44 M

90° Quick pipe bend

Type	Size	Colour	Dim. B mm	Dim. L mm	Dim. L1 mm	Dim. R mm	Height mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
3000 BMS M16 RW	M16	Pure white	21.4	69	28	20	18	15.6	10	0.592	**2154062**
3000 BMS M20 RW	M20	Pure white	26.3	83.2	35	22	23	20	5	1.103	**2154064**
3000 BMS M25 RW	M25	Pure white	31.2	91	38	22	28	25	5	1.514	**2154066**
3000 BMS M32 RW	M32	Pure white	38.8	103	42	22	35	32.6	5	2.035	**2154068**





Fitting for plastic electrical installation pipes to create 90° bends. Suitable for Quick pipe pipes or corrugated pipes. Toolless closing and opening. Can be used in a temperature range of –25 to +60 °C.

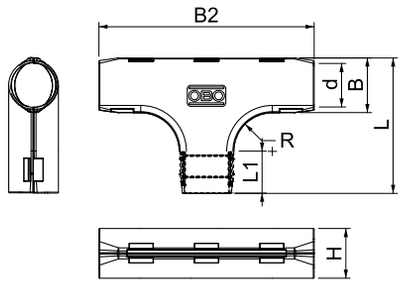
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Quick pipe T piece

PP
IP 44 M



Type	Size	Colour	Dim. L mm	Dim. B mm	Dim. B2 mm	Dim. L1 mm	Dim. d mm	Height mm	Dim. R mm	Pack Piece	Weight kg/100 pc.	Item no.
3000 TMS M20 RW	M20	Pure white	69	26	110	20	20	23	22	5	1.401	**2153953**
3000 TMS M25 RW	M25	Pure white	77	31	123	24	25	28	22	5	1.978	**2153955**
3000 TMS M32 RW	M32	Pure white	87	39	135	26	32.6	35	22	5	2.511	**2153957**



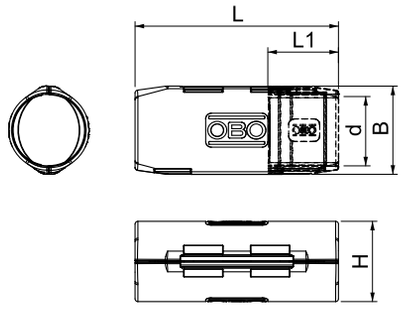
Fitting for plastic electrical installation pipes to create T branches. Suitable for Quick pipe pipes or corrugated pipes. Toolless closing and opening. Can be used in a temperature range of –25 to +60 °C.

Quick pipe connection sleeve

PP
IP 44 M



Type	Size	Colour	Dim. L mm	Dim. B mm	Dim. L1 mm	Height mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
3000 MMS M16 RW	M16	Pure white	52	21	18	18	15.6	10	0.299	**2154091**
3000 MMS M20 RW	M20	Pure white	65	26	23	23	20	10	0.581	**2154093**
3000 MMS M25 RW	M25	Pure white	72	31	25	28	25	10	0.823	**2154095**
3000 MMS M32 RW	M32	Pure white	80	39	28	35	32.6	10	1.095	**2154097**



Connection sleeve for plastic electrical installation pipes to create straight connections. Suitable for Quick pipe pipes or corrugated pipes. Toolless closing and opening. Can be used in a temperature range of –25 to +60 °C.

PVC

IP 44 M

Set of Quick clips and Quick pipe pipes

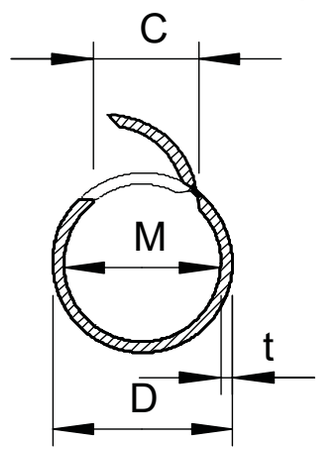
Type	Size	Colour	Set consisting of	Pack Piece	Weight kg/100 pc.	Item no.
2954 M16 LGR	M16	Light grey	50 m Quick pipe and 156x OBO Quick clip	1	444.000	**2154501**
2954 M20 LGR	M20	Light grey	40 m Quick pipe and 120x OBO Quick clip	1	508.000	**2154528**
2954 M25 LGR	M25	Light grey	30 m Quick pipe and 96x OBO Quick clip	1	517.000	**2154536**
2954 M32 LGR	M32	Light grey	20 m Quick pipe and 60x OBO Quick clip	1	479.000	**2154544**



Set consisting of Quick pipe electrical installation pipes and Quick clip surface-mounted clips. For surface-mounted routing of cables in interiors and protected outdoor areas. Universal fastening on wall and ceiling. Comprises up to 50 m of pipe each of 2 metres in length and up to 156 Quick clips. Can be used in a temperature range of –25 to +60 °C.

Type	Dimension M	Dim. t mm	Dim. C mm	Dim. D mm
2954 M16 LGR	13,2	1.2	8,2	15.6
2954 M20 LGR	17	1.5	10	20
2954 M25 LGR	21,8	1.6	13,6	25
2954 M32 LGR	28,6	1.7	17	32

Dimensions



IP 44 M

Quick pipe shears

Type	Cutting area mm	Pack Piece	Weight kg/100 pc.	Item no.
SQ 1632	16-32	1	40.000	**2153572**



Shears for burr-free cutting of Quick Pipe electrical installation pipe Ø 16–32 mm.

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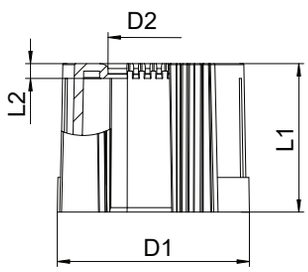
Pipe end cap, splittable, metric, light grey



Type	Size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
129 TB M16	M16	Light grey	50	0.400	**2047812**
129 TB M20	M20	Light grey	50	0.440	**2047831**
129 TB M25	M25	Light grey	50	0.500	**2047839**
129 TB M32	M32	Light grey	50	0.656	**2047855**
129 TB M40	M40	Light grey	30	0.790	**2047863**
129 TB M50	M50	Light grey	30	0.935	**2047890**
129 TB M63	M63	Light grey	20	1.140	**2047898**

Separable pipe end cap to slot onto metric electrical installation pipes.
The separable pipe end cap can be used for repairs on existing installations according to regulations. It is not necessary to disconnect the cables, allowing quick mounting.

Dimensions



Type	Dim. D1 mm	Dim. D2 mm	Dim. L1 mm	Dim. L2 mm
129 TB M16	20	10	30	3
129 TB M20	24	13.4	30	3
129 TB M25	30	18.4	30	3
129 TB M32	36	25.4	30	3
129 TB M40	44	33.4	30	3
129 TB M50	53	43	30	3
129 TB M63	67	56	30	3

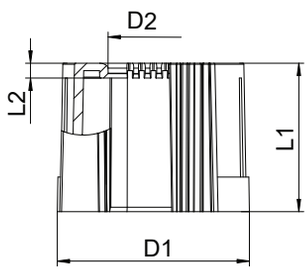
Pipe end cap, splittable, metric, black



Type	Size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
129 TB M16 SW	M16	Black	50	0.400	**2047936**
129 TB M20 SW	M20	Black	50	0.440	**2047944**
129 TB M25 SW	M25	Black	50	0.500	**2047952**
129 TB M32 SW	M32	Black	50	0.656	**2047971**
129 TB M40 SW	M40	Black	30	0.790	**2047979**
129 TB M50 SW	M50	Black	30	0.935	**2047987**
129 TB M63 SW	M63	Black	20	1.140	**2047995**

Separable pipe end cap to slot onto metric electrical installation pipes.
The separable pipe end cap can be used for repairs on existing installations according to regulations. It is not necessary to disconnect the cables, allowing quick mounting.

Dimensions



Type	Dim. D1 mm	Dim. D2 mm	Dim. L1 mm	Dim. L2 mm
129 TB M16 SW	20	10	30	3
129 TB M20 SW	24	13.4	30	3
129 TB M25 SW	30	18.4	30	3
129 TB M32 SW	36	25.4	30	3
129 TB M40 SW	44	33.4	30	3
129 TB M50 SW	53	43	30	3
129 TB M63 SW	67	56	30	3

PE

Pg UV RESISTANT

Pipe end cap, splittable, PG, light grey

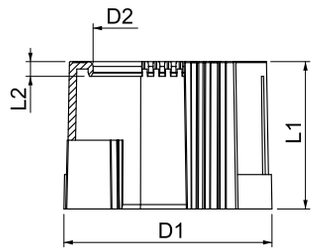
Type	Size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
129 TB PG9	PG9	Light grey	50	0.400	**2044509**
129 TB PG11	PG11	Light grey	50	0.430	**2044511**
129 TB PG13,5	PG13,5	Light grey	50	0.460	**2044513**
129 TB PG16	PG16	Light grey	50	0.500	**2044516**
129 TB PG21	PG21	Light grey	50	0.590	**2044521**
129 TB PG29	PG29	Light grey	50	0.700	**2044529**
129 TB PG36	PG36	Light grey	30	0.870	**2044536**
129 TB PG42	PG42	Light grey	30	0.980	**2044542**
129 TB PG48	PG48	Light grey	20	1.060	**2044548**



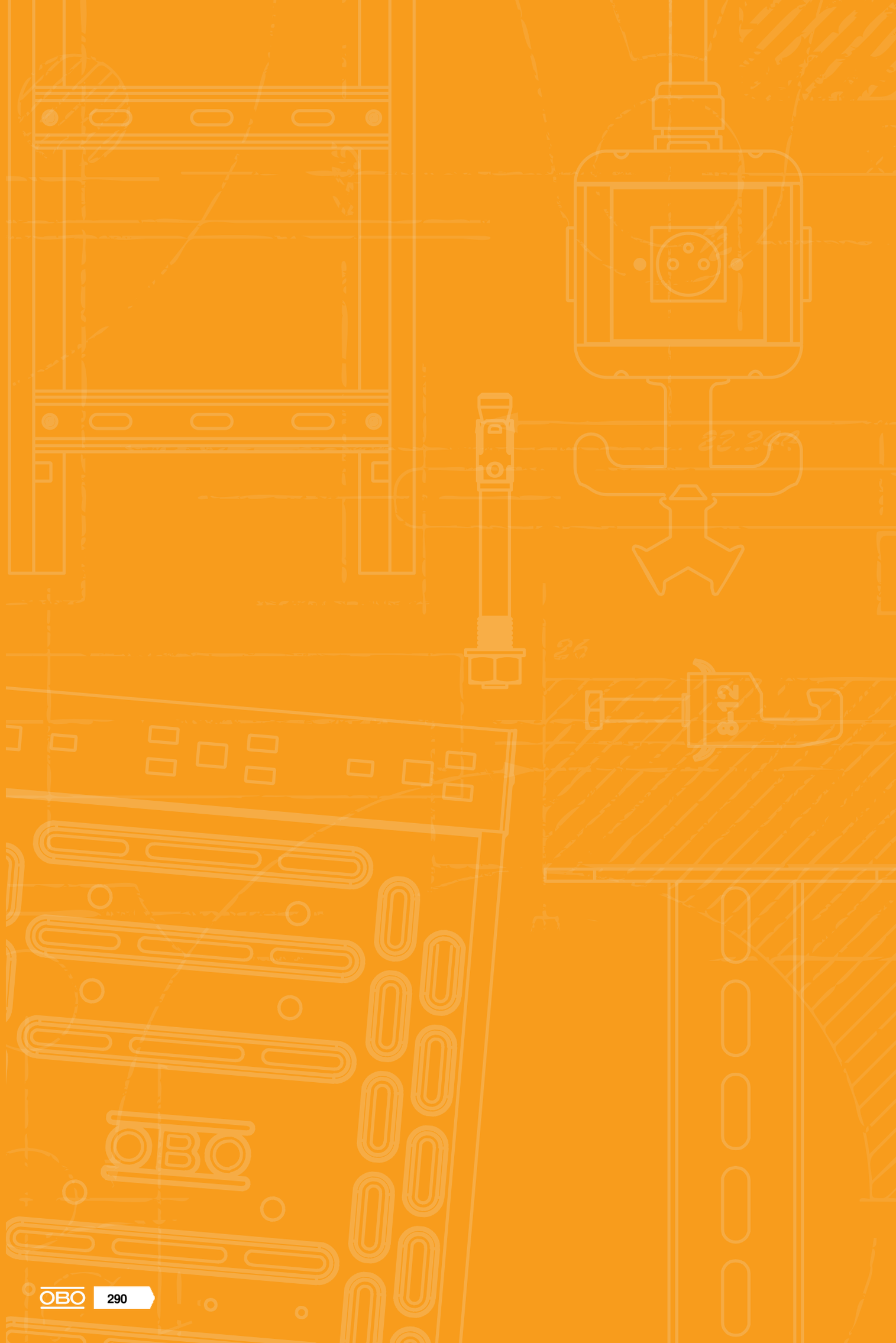
Separable pipe end cap to slot onto PG electrical installation pipes.
The separable pipe end cap can be used for repairs on existing installations according to regulations. It is not necessary to disconnect the cables, allowing quick mounting.

Type	Dim. D1 mm	Dim. D2 mm	Dim. L1 mm	Dim. L2 mm
129 TB PG9	20	10	30	3
129 TB PG11	24	12.5	30	3
129 TB PG13,5	26	15	30	3
129 TB PG16	28	16	30	3
129 TB PG21	34	21.5	30	3
129 TB PG29	38	30	30	3
129 TB PG36	48	40.5	30	3
129 TB PG42	60	47.5	30	3
129 TB PG48	66	52	30	3

Dimensions



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Test marks

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

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

Pictogram explanation

Surfaces

FS	Strip galvanised
FSK	Strip galvanised/plastic-coated
DD	Strip galvanised zinc/aluminium, double dip
BK	Bright
2B	Bright, reworked
EL	Anodised
F	Hot-dip galvanised
G	Electrogalvanised
GK	Electrogalvanised/plastic-coated
GCL	Electrogalvanised, yellow-chromatised
GGP	Electrogalvanised, yellow passivated
GTP	Electrogalvanised, transparently passivated
GR	Primed
L	Painted
SG	Welding primed
FT	Hot-dip galvanised
FT SO	Hot-dip galvanised 85 µm
Cu	Copper-plated
N	Nickel-plated
ZD	Galvanised, Deltatone 500
ZDM	Galvanised, MAGNI 565
GA	Zinc-aluminium coated, Galfan
ZL	Zinc scale

Conformity symbol

CE	Communautés Européennes, EC declaration of conformity according to EC directives
RoHS conform	RoHS-conformant

Quality marks

	Halogen-free; without chlorine, fluorine and bromine
650°	Flame resistant 650 °C
750°	Flame resistant 750 °C
960°	Flame resistant 960 °C
UV RESISTANT	UV-resistant

Specific product symbols

Ø 60	Diameter 60 mm
Ø 68	Diameter 68 mm
Type 3	Protection device to DIN EN 61643-11 or IEC 61643-11
LPZ 2→3	Transition from LPZ 2 to LPZ 3
AS	Acoustic signalling

Applications

FS	Remote signalling
AS	Acoustic signalling
ISDN	Integrated Service Digital Network, ISDN applications
DSL	Digital Subscriber Line, DSL applications
Analog TK	Analogue telecommunication
Cat 5	Category 5 TwisterPair
Cat 6_A	Channel Performance to American EIA/TIA standard
MSR	Measuring, controlling and regulating systems
TV	TV applications
SAT	SAT-TV applications
Mu	MultiBase base
	LifeControl
EX	Intrinsically safe protection device for potentially explosive areas
Class E_A	Channel Performance to ISO/IEC 11801
PoE	Power over Ethernet
230/ 400 V System	230/400 V system
IP 54	Protection rating IP 54
IP 65	Protection rating IP 65

Lightning protection classes

Type 1	Protection device to DIN EN 61643-11 or IEC 61643-11
Type 1+2	Combination protection device made of type 1 and type 2
Type 2	Protection device to DIN EN 61643-11 or IEC 61643-11

Lightning protection classes

Type 2+3	Protection device to DIN EN 61643-11 or IEC 61643-11
Type 3	Protection device to DIN EN 61643-11 or IEC 61643-11

Lightning protection zone

LPZ 0→1	Transition from LPZ 0 to LPZ 1
LPZ 0→2	Transition from LPZ 0 to LPZ 2
LPZ 0→3	Transition from LPZ 0 to LPZ 3
LPZ 1→2	Transition from LPZ 1 to LPZ 2
LPZ 1→3	Transition from LPZ 1 to LPZ 3
LPZ 2→3	Transition from LPZ 2 to LPZ 3

BSS maintenance of electrical function installation

	Fire-tested systems
	Escape route ceiling mounting with pressure clip
	OBO Grip, wall routing type
	OBO Grip, ceiling routing type
	Pressure clip for maintenance of electrical function, ceiling mounting

BSS anchor

	Fire protection anchor
	Fire protection bolt tie

BSS test marks/material class

E30	Maintenance of electrical function class E30
E90	Maintenance of electrical function class E90

Clamp clip base shapes

N	Clamp clip for C profile rail, slot width 11–12 mm
H	Clamp clip for C profile rail, slot width 16–17 mm
U	Clamp clip for C profile rail, slot width 18–22 mm

Diameter

Ø 60	Diameter 60 mm
Ø 68	Diameter 68 mm
Ø 70	Diameter 70 mm
Ø 74	Diameter 74 mm

Entries

4	4 cable entries
6	6 cable entries
7	7 cable entries
8	8 cable entries
9	9 cable entries
10	10 cable entries
12	12 cable entries
10	10 cable entries ECO
12	12 cable entries ECO
14	14 cable entries ECO
16	16 cable entries
18	18 cable entries ECO
24	24 cable entries

Gland thread

M	Thread metric
Pg	Thread Pg

Entry size

M20	M20 entry
M25	M25 entry
M32	M32 entry
M40	M40 entry

KTS side heights

	Cable tray, side height 35 mm
	Cable tray, side height 60 mm
	Cable tray, side height 85 mm
	Mesh cable tray, side height 35 mm
	Mesh cable tray, side height 55 mm

Materials

	Flat steel
	Angular steel
	U steel
	Round material

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Always indicate the item number when ordering.

Pictogram explanation

Nominal cross-section

1,5 mm²	Nominal cross-section 1.5 mm²
1,5–2,5 mm²	Nominal cross-section 1.5–2.5 mm²
2,5 mm²	Nominal cross-section 2.5 mm²
2,5–4 mm²	Nominal cross-section 2.5–4 mm²
4 mm²	Nominal cross-section 4 mm²
4-6 mm²	Nominal cross-section 4–6 mm²
6 mm²	Nominal cross-section 6 mm²
10 mm²	Nominal cross-section 10 mm²
16 mm²	Nominal cross-section 16 mm²

Nominal voltage

400 V	Nominal voltage 400 V
500 V	Nominal voltage 500 V
660 V	Nominal voltage 660 V

Polarity

3	3-pole
5	5-pole
7	7-pole
8	8-pole
10	10-pole
12	12-pole

Slot widths

7,5	Slot width 7.5 mm
11	Slot width 11 mm
11-12	Slot width 11–12 mm
12	Slot width 12 mm
15	Slot width 15 mm
16	Slot width 16 mm
16,5	Slot width 16.5 mm
16-17	Slot width 16–17 mm
17	Slot width 17 mm
18	Slot width 18 mm
22	Slot width 22 mm
35	Slot width 35 mm

Screw heads

	Philips screw
	Torx screw
	Phillips screw
	Pozidriv

Firing devices

	Bolt-firing tool
	Nail device

Protection rating

IP 20	Protection rating IP 20
IP 30	Protection rating IP 30
IP 31	Protection rating IP 31
IP 44	Protection rating IP 44
IP 54	Protection rating IP 54
IP 55	Protection rating IP 55
IP 65	Protection rating IP 65
IP 66	Protection rating IP 66
IP 67	Protection rating IP 67
IP 68	Protection rating IP 68

Metals

Alu	Aluminium
Alu/St	Aluminium/steel
A2	Stainless steel, rustproof
A4	Stainless steel, rustproof
A5	Stainless steel, rustproof
Cu	Copper
CuZn 37	Brass
St	Steel
TG	Malleable iron
Zn	Die-cast zinc

Plastics

ABS/ASA	Acrylonitrile butadiene styrene
UF	Duroplast, Aminoplast, type 131.5
MF	Duroplast, melamine resin, type 150
EVA	Ethylene vinyl acetate

Plastics

FA	Fibre-proof material DIN 28091
GFK	Fibreglass-reinforced plastic
NBR SBR	Rubber mixture
NBR	Nitrile rubber
PETR	Petrolatum
PA	Polyamide
PA/ GF	Polyamide, fibreglass reinforced
PBPT	Polybutylene terephthalate
PC	Polycarbonate
PE	Polyethylene
PP	Polypropylene
PP/GF	Polypropylene, fibreglass reinforced
PS	Polystyrene
PVC	Polyvinylchloride
ZELL PE	Cellular polyethylene

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Always indicate the item number when ordering.

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129 TB M16 SW	6332335	2047936	288
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