

EGS | Catalogue 2010/2011



Device systems

THINK CONNECTED.

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OBO EGS seminars: First-hand knowledge

With a comprehensive programme of training courses and seminars on the subject of device systems, OBO is able to support its customers with specialist knowledge from a single source. Alongside the basic theoretical principles, the programme also deals with practical implementation in everyday applications. Special calculation and application examples round off the comprehensive programme of knowledge transfer.

Invitations to tender, product information and datasheets

We can make life easier for you: With our comprehensive selection of materials designed for practical applications, which provide you with effective support with the planning and calculation of a project. These include:

- Invitations to tender
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More than 10,000 entries from the KTS, BSS, TBS, LFS, EGS and UFS ranges can be called up free of charge. Regular updates and expansions means that you always have a comprehensive overview of the OBO products. All the current file formats (PDF, DOC, GAEB, HTML, TEXT, XML, ÖNORM) are available.

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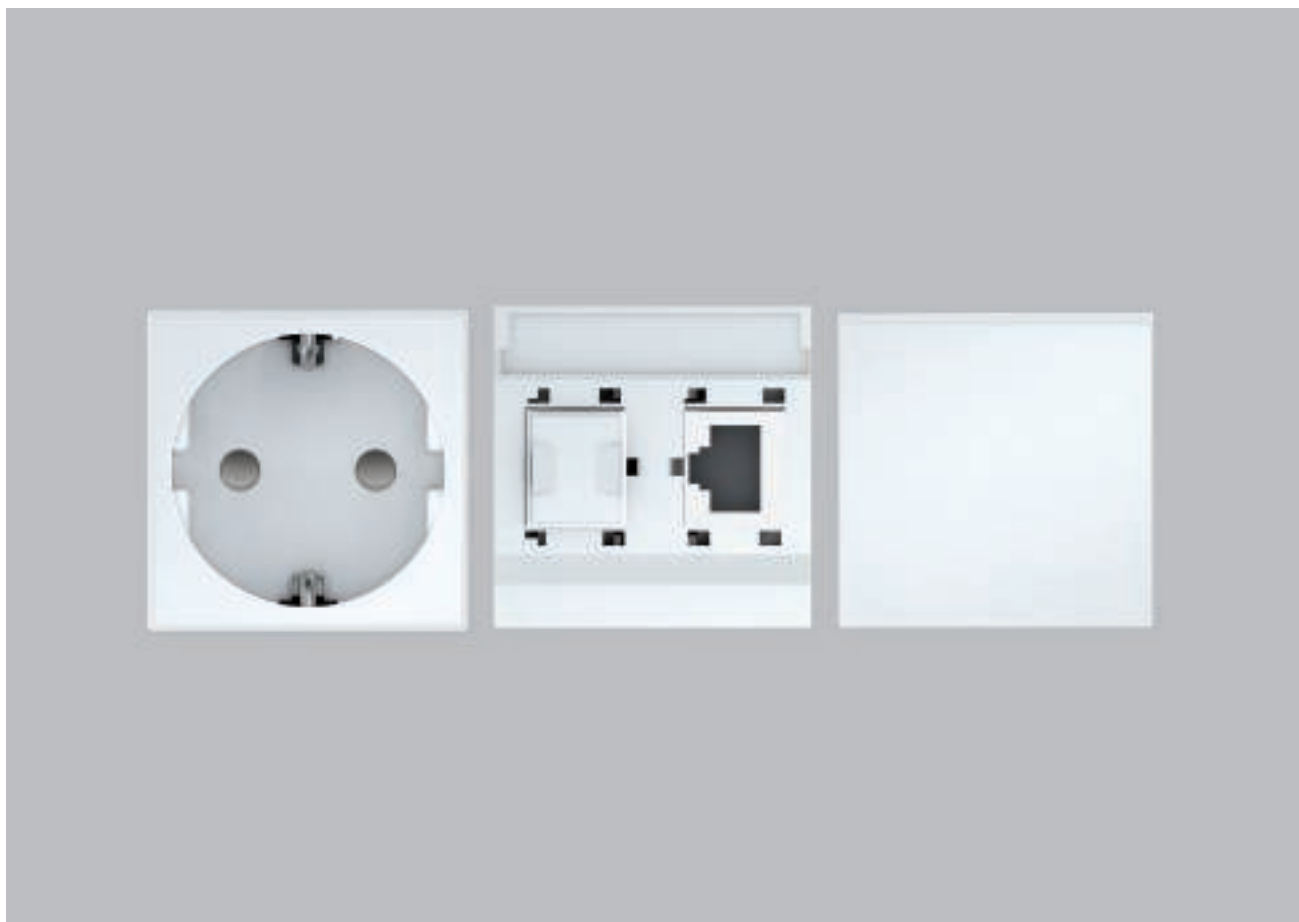
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The principle of Modul 45



One for all.

The new simplicity

Each building requires an individual solution for electrical installations. The Modul 45 series from OBO means that it is always possible to find a functional and aesthetically pleasing solution. Modul 45 can be installed universally in device installation ducts, in under-floor systems, in installation column systems and also in concealed and cavity wall applications. Using adapters and installation accessory sockets, Modul 45 devices can also be used in LFS systems with an 80 mm cover. When combined with ducts and cover frames, this produces a system in which everything is matched – and which can be adapted to new conditions at any time using just a few actions. Switches, sockets and data technology simply have to be snapped in. Device mounting has never

been quicker or simpler.

The advantages of Modul 45 at a glance:

- Modular structure
- Quick and easy planning
- Easy mounting
- High efficiency due to time and cost savings
- Wide range of application options
- Space savings
- Easy exchangeability
- Flexible adaptability
- Attractive design

Modul 45 in the OBO system environment



One for all.

Device installation ducts, 80 mm cover

Absolute ease of mounting, a modular system structure and practical materials are all characteristics of the device installation ducts made of plastic, sheet steel or aluminium. Modul 45 technology can also be installed using device mounting boxes and cover frames.

Deskbox

Ready for anything: The Deskbox is capable of being individually fitted with Modul 45 data and communication connections, sockets and switches. The Deskbox's curved shape makes it a refreshing addition to any desk.

Installation column

Energy couldn't flow better: The ISS installation column systems from OBO allow free positioning of supply points near workplaces. When equipped with Modul 45 devices, a flexible future is always installed.

Rapid 45 device installation ducts

Simple mounting, perfect appearance: The Rapid 45 device installation duct can be used universally. It can be installed as a dado and skirting board duct and offers

plenty of space for plenty of cables. Switches, sockets and the like are snapped into the duct profile by hand.

Underfloor systems

OBO underfloor systems can offer easy, safe access to power supplies, internal and external data networks and telecommunication systems. Hidden cable ducts are particularly elegant. The Modul 45-compatible product series contain solutions for all floor types and areas of application.

Concealed and cavity wall systems

Modul 45 devices are becoming ever more popular. With its new solutions and products, OBO is rising to meet the increasing demand for practical components.- for example concealed and cavity wall solutions produce new opportunities for installations.

Power supply unit

All good things come from above: The extremely robust power supply unit, which is suitable for industrial use, is suspended from the ceiling. It can be equipped with Modul 45 accessories and offers power, data technology and compressed air connections. Pre-equipped and pre-wired units are available.



What costs or time effects can be achieved using the Modul 45 system.



The quick and low-cost type of installation.

Time to save money

The Modul 45 system speeds up work in each project phase, and thus makes it cheaper. Thanks to the standardised installation dimensions and the wealth of components and accessories, you can use this system for almost any application. This speeds up planning – a decisive competitive advantage, when rapid action is required. You can also reduce your warehouse and logistics costs, because you will need fewer different systems from different manufacturers. The locking system ensures that installations and changes at a later date can be completed quickly.

Time savings through plug & play

With the new Modul 45connect socket system, OBO is offering the most time-saving, simple and safe type of electrical installation. An adapter for the GST18i connector system is simply locked onto the socket allowing quick connection and forwarding of the power supply with VL extension cables. This means that there is no need for lengthy work steps when connecting sockets, such as removing cable insulation, connecting cables and mounting strain relief.

A principle which makes the grade

Today, besides function and design, installation and mounting times are key quality characteristics of a product. The Modul 45 system simplifies installation and thus reduces mounting times. Compared with standard installation types, the cost of installation, expansion and replacement of accessories is considerably lower. The decisive advantage: switches, sockets and the like are simply snapped into the system environment by hand – and the perfect, attractive and practical installation is already complete.



Which is the ideal installation system for the Modul 45 system?



The "Dream Team": Rapid 45 and Modul 45 system.

Made for each other: Rapid 45 and the Modul 45 system

The Rapid 45 device installation ducts and installation columns with 45 mm system opening were developed especially for the devices of the Modul 45 system: The perfect interplay of modern, sleek design and contemporary economic installation. No additional components such as accessory mounting boxes, adapters or cover frames are required for mounting. The devices are clicked directly into the system opening, thus forming an unbeatable double act.

Noticeable: GEK Device installation duct Rapid 45

A characteristic feature of Rapid 45 is the imposing shape with slanting top edges. Thanks to its anodised surface, the Rapid 45 aluminium duct can be integrated easily in offices with high-quality fittings. It is available in two sizes, as mono and duoducts.

Very sleek

An ISS 45 mm system opening with a diameter of just 70 mm, the aluminium profile of the ISS Modul 45 system is irresistible. On the front side, there is an opening for direct installation of the switching and connection accessories of the Modul 45 system. An aluminium cover provides complete cover. This is what permits its extremely slender design.



The Modul 45 sockets offer every comfort required for economic contemporary electrical installations. Starting with the integrated screwless terminals, allowing tool-less mounting, through the compact design with the tried-and-trusted locking fastening up to a range of variants, offering the right solution for every system environment. The multiple sockets, 2x and 3x, are particularly economic and time-saving during installation. The lengthy wiring process of individual

sockets, as required for standard installations, is no longer necessary.

Planning aids for Modul 45 socket systems



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Country-specific sockets of the Modul 45 system



Ready for the world

The Modul 45 system is ready for use around the world. The continually growing range of components and systems included in the Modul 45 system is fulfilling ever more international requirements. Thanks to country-specific sockets such as the socket with earthing pin, the Danish or Swiss sockets, the Modul 45 system is being used in an increasing number of countries.

Danish standard socket

for plug type C (Euro) and K:

- Denmark

Socket with earthing pin

for plug type C (Euro) and E:

- Belgium
- France
- Monaco
- Poland
- Slovakia
- Czech Republic

Swiss standard socket

for plug type C (Euro) and J:

- Liechtenstein
- Switzerland

Power socket

for plug type C (Euro) and F:

- Albania
- Andorra
- Bosnia and Herzegovina

- Bulgaria
- Germany
- Estonia
- Finland
- Greece
- Iceland
- Croatia
- Latvia
- Lithuania
- Luxembourg
- Macedonia
- Moldova
- Montenegro
- Netherlands
- Norway
- Austria
- Portugal
- Romania
- Russia
- Sweden
- Serbia
- Slovenia
- Spain
- Ukraine
- Hungary

All data subject to change.

Safety power supply

To restrict special power circuits in industrial buildings, the sockets are available in the colours orange, green and red. This means that, for example in a laboratory, all the requirements of DIN VDE 100 Part 710 can be met.

Mounting aids, Modul 45 sockets



Device connection

The electrical connection is made using integrated screwless terminals, designed for rigid cables with a cross-section of 1.5–2.5 mm². Flexible wire ends must be equipped with a plug connector.



Use of strain relief

The strain relief is attached to the front side on the fastening grooves. The strain on cables of a diameter of up to 10 mm is relieved correctly.



Using the encoding pin

Attach the encoding pin to the connector and stick it fast. It is not possible to insert a connector into an encoded socket without the encoded pin being mounted.





The new Modul 45connect socket system is the logical step to make electrical installations even faster and safer. A socket can be mounted and connected with just a few actions. Adapters with the GST18i connector system are simply locked onto the socket and connection can begin, for example using the known VL connection cables. With the right adapter, arrangement of multiple sockets is no problem either. Efficient installation times and safe and simple

installation means that the new sockets are a particularly economic addition to the OBO Modul 45 product range.

Planning aids for Modul 45connect socket systems

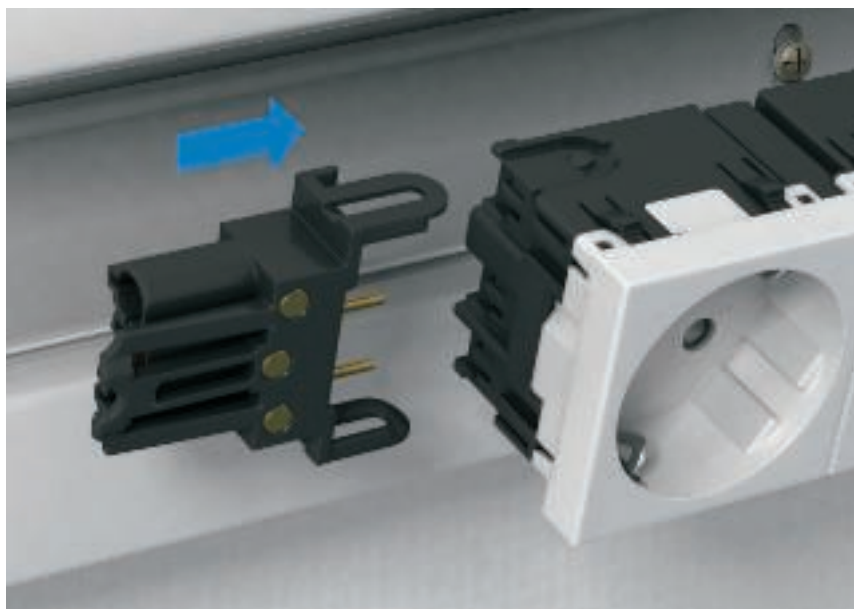


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What is Modul 45connect?



Mounted at high speed

Time is money! This statement reflects the fact that installation and mounting time is becoming ever more important in the decision for or against a product. The new Modul 45connect socket system from OBO Bettermann is taking this principle up and can offer new and innovative opportunities with regard to speed, safety and flexibility.

The new socket concept

The Modul 45connect sockets, with their simplified installation and optimised and reduced mounting work, are waiting just for you. With them, you need not do without the known benefits of the Modul 45 products. The plug connections of the new sockets are located on the front side and are thus particularly suited to applications in device installation trunking or service poles. Besides the standard fixed wiring up to a cable cross-section of 2.5 mm², the new arrangement of the plug connections allows simple attachment of connection adapters. For country-specific use, protective contact sockets and sockets with an earthing pin are available in double and triple versions with a 33° connection direction.

Connection adapters

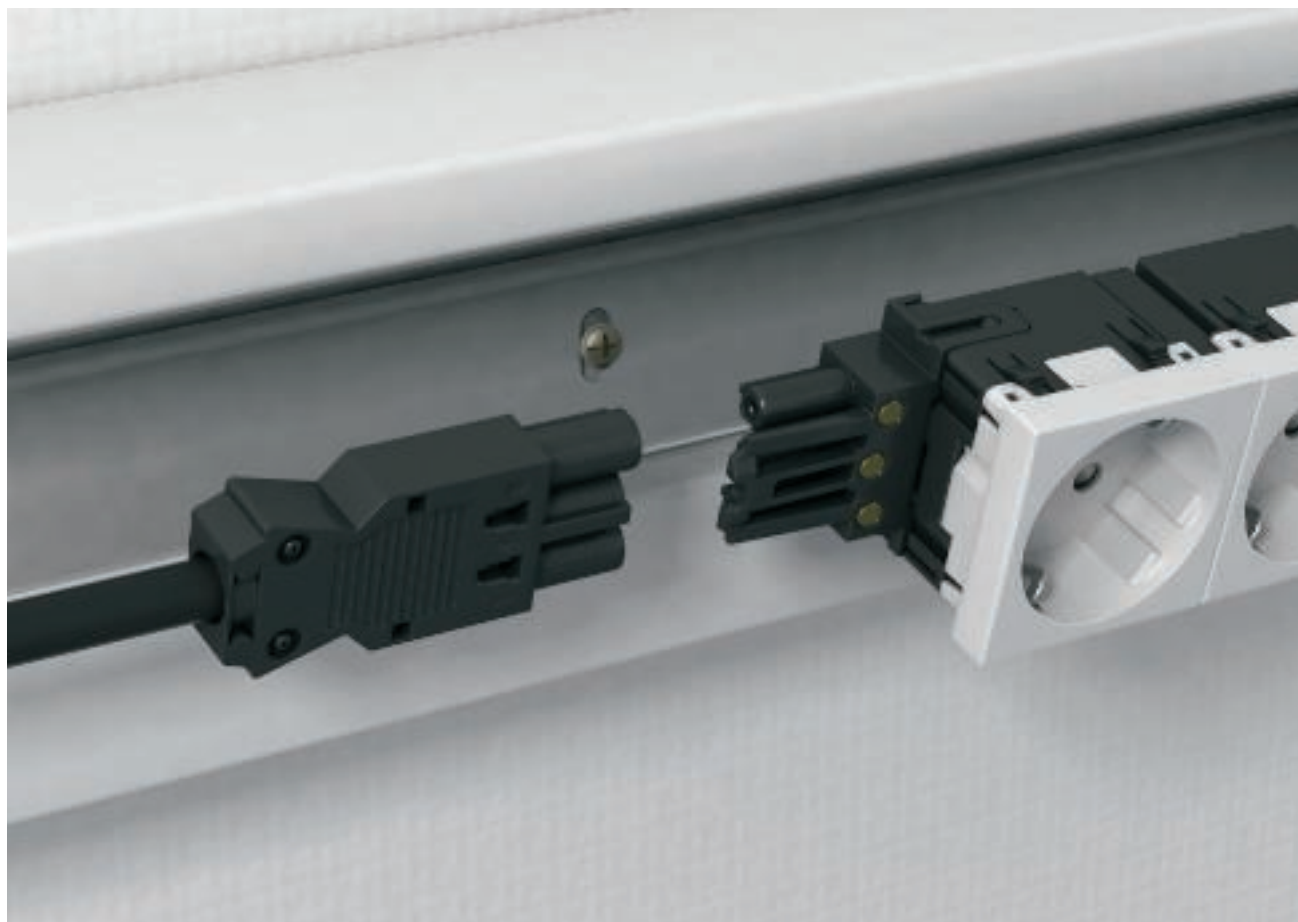
All the connection adapters for the

Modul 45connect system are equipped with the tried-and-trusted GST18i connector system and use connector and socket adapters to offer a standardised connection and forwarding option for power supplies using the known VL extension cables. To ensure visual differentiation between circuits, all the connection adapters and connection cables are available in the colours white and black.

Connection adapter

An additional new function is the connection of sockets using the plug connector for the Modul 45connect system. It is possible to create multi-socket combinations (up to 6x combinations) without the need for additional wiring.

What advantages does Modul 45connect system have?



Quick installation

The Modul 45connect sockets, together with the connection adapters, can reduce mounting times considerably, compared to standard socket installations. Time-intensive work steps when connecting sockets, such as removing the insulation from cables, connecting wires and mounting strain reliefs, are no longer necessary. The socket connection can be made in a few actions without the use of tools.

Touch protection included

If sockets with connection adapters or connectors are used for electrical installations, then there is no need for an additional protective housing. Modul 45connect guarantees comprehensive touch protection according to the VDE requirements.

More safety

When the adapter is used, it is almost impossible to swap the

connection sides. Each box has a socket and a plug connection side, to which only a matching adapter can be connected. The Modul 45connect socket system ensures that unpleasantness, and subsequent damage caused by faulty wiring, are a thing of the past.

Flexible and secure for the future

Should reconstruction take place in the system at a later date, only the plug connections need to be disconnected and then the system can be adapted to the new circumstances without any problems.





In which areas can the Modul 45connect system be used?



Cable routing systems with 45 mm system opening

The whole of the new Modul 45connect socket system really comes into its own in cable routing systems with a 45 mm system opening. The sockets can be locked directly into the system opening and thus offer the greatest ease of installation. Socket connection and forwarding to the next socket is carried out using straight connector and socket adapters. Sockets can be arranged (up to 6x combinations) easily and quickly in a few actions using the connector for Modul 45connect.

Cable routing systems with 80 mm system opening

Accessories are installed in cable routing systems with an 80 mm system opening using the module support 71MT3/45. The module support is open in the downwards direction and offers sufficient space for straight connection adapters with the GST18i connector system. Besides power connections, forwarding to the next socket is also extremely easy. An additional benefit: The compact structure and low installation depth of the Modul 45connect sockets mean that there is a lot more installation space for additional cables.

Device installation systems for raised floors and open, screed-flush duct systems

The Modul 45connect system makes device installation in the raised floor system environment and in open, screed-flush duct systems even easier and safer. Accessories are installed using the MT3/45 and MT4/45 module supports. Sockets are connected using a U-shaped adapter, which was designed especially for underfloor use. When the U-shaped adapter is mounted, the connection point for the extension cable is located beneath the socket. Socket combinations such as 1 x 4x or 2 x 2x can be created quickly and simply using Modul 45.

Mounting aids, Modul 45connect sockets



Conventional device connection

The electrical connection is made using integrated screwless terminals, designed for rigid cables with a cross-section of 1.5 - 2.5 mm². Flexible wire ends must be equipped with a plug connector.



Use of strain relief

The strain relief is attached to the front side on the fastening grooves. The strain on cables of a diameter of up to 10 mm is relieved correctly.



Device connection with connection adapter

The boxes possess two connection sides, which are designated the plug and socket side. Mechanical encoding is used to limit the connection options of the adapters to one side per type. Incorrect connection of the socket is excluded by the encoding.



Connection adapter, straight, connector

Insert the connection adapter (connector part adapter) into the plug side of the box and lock it in place.



Connection adapter, straight, socket part

Insert the connection adapter (socket part adapter) into the socket side of the box and lock it in place.



Connection adapter

Insert the connection adapter into the socket side of the first box and lock it in place. The next socket can be inserted and locked when the protective flap is removed. Note: Socket combinations with two connection adapters at most are permitted.



Connection adapter, U-shaped, connector part

Insert the connection adapter (U-shaped connector part adapter) into the plug side of the box and lock it in place.





Whether you're switching light sources, controlling building systems or connecting telephones and antennas, the devices of the Modul 45 system make it possible. Besides a complete selection of switches and buttons in $\frac{1}{2}$ and 1 module width, the Modul 45 system can also offer electronic accessories, such as surge protection and a wide range of other products, to make everyday living and work, at home or in the office, simpler, more convenient and safer.

Planning aids, Modul 45 switching and connection systems



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Electronic switching accessories for Modul 45



Electronics included

Whether at home or in the office: The electronic switching accessories for Modul 45 offer every comfort to make life simpler. OBO can offer intelligent solutions to control and regulate building systems, without the need to do without the known benefits of the Modul 45 system. Whether a timer, roller blind timer switch, motion detector or room thermostat – all the accessories are available in the compact Modul 45 design.

The electronic switching devices are offered as a system with a modular structure. A relay base and a top with the required function are always required for device installation. The system is based on two relay bases and four tops for the different functions.

Timer

The timer is used in conjunction with the RE-UW and RE-U2K relay bases. The timer can be used to switch consumers on and off automatically using switching times or manually. In addition, it is possible to carry out a switching operation using the extensions of the relay base.

- Optional manual or automatic operation
- Minimum switching time: 1 minute
- Daily/weekly programming
- 24 switching times programmable
- If there is a power failure, then the programming remains intact for 30 minutes.

Room thermostat

The room thermostat is used in combination with the RE-UW relay base. It is used to control the circulation pump of a heating system. Control takes place automatically using switching times or manual switch-on and off. In addition, it is possible to carry out a switching operation using the extension of the relay base.

- Optional manual or automatic operation
- Daily/weekly programming
- 24 switching times programmable
- Day, night and frost protection level settable
- Time and room temperature can be set at any time
- 6 control speeds (RP value) settable
- If there is a power failure, then the programming remains intact for 30 minutes.



Roller blind weekly timer

The roller blind weekly timer is used in conjunction with the RE-U2K relay base. With the roller blind weekly timer, it is possible to control a roller blind, Venetian blind or awning either automatically or manually. In addition, it is possible to carry out a switching operation using two extensions of the relay base.

- Optional manual or automatic operation
- Settable run time
- Daily/weekly programming
- 24 switching times programmable
- If there is a power failure, then the programming remains intact for 30 minutes.

Motion detector

The motion detector is used in combination with the RE-UW relay base. It detects the movement of people and the daylight value. The lighting is switched on when a movement is detected and the daylight value stays under the preset light value. The lighting remains switched on for the time during which motion is detected. If no further motion is detected, then switch-off takes place after the switch-off time has elapsed. The switch-off time can be set on the motion detector. The lighting can be switched on and off manually on the device. In addition, it is possible to carry out a switching operation using the extension of the relay base.

- Can be operated manually
- Detection range 8 m
- Angular coverage horizontal 180°

Mounting aids, Modul 45 switching and connection accessories



Device connection, switches/buttons

The electrical connection is made using integrated screwless terminals, designed for rigid cables with a cross-section of 1.5–2.5 mm². Flexible wire ends must be equipped with a plug connector.



Mounting LED element

Insert the LED element on the rear side of the switch into the intended opening and lock it in.



Device connection, electronic accessories

The electrical connection is made using integrated screw terminals, designed for rigid and flexible cables with a cross-section of 2.5 mm². The intended top, e.g. a room thermostat as shown, is attached to the relay insert.



Today, we cannot picture offices without data networks. A high level of flexibility is required for device installation. Thus the combination of connection modules and the Modul 45 data technology support is the right choice. All the connection modules for copper and fibre optic cabling can be installed in the Modul 45 support. A comprehensive range of Modul 45 data technology supports is available for the installation of connection modules of various data technology manufacturers.

Planning aids, Modul 45 data technology systems



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Modul 45 from OBO with R&M data technology



Connection module Cat. 5e, unshielded



Connection module Cat. 5e, shielded



Connection module Cat. 6, unshielded



Connection module Cat. 6, shielded



Fibre optic coupling



Data technology support

Perfect interplay

Change becomes everyday

Networks are coming together in modern offices. OBO solutions enable you to simply integrate highly sensitive PC electronics and communication devices into standard switch installations. The result is an aesthetic system, with the data technology being harmoniously matched to the Modul 45 product range. The OBO range of surge protectors guarantees optimised safety: sensitive high-tech modules are protected against voltage peaks.

The Cat. 5e connection modules of the R&M freenet cabling system are suited to both speech and data applications and are suitable for transmission frequencies of up to 100 MHz. The Cat. 6 connection modules of the R&M freenet cabling system are also suited to speech applications, however they are suitable for faster data applications and for transmission frequencies of up to 250 MHz.

Fibre optic connection modules can also be installed. Everything fits into the system and can be altered as and when needed.

Flexible

No matter which connection modules you install, all the modules fit in the data technology support. This is guaranteed by the standardised size of the insert plate on the bottom of the modules.

Ready for the future

When carrying out system restructuring work, only the connection modules need be replaced, as the base support can be reused.

Guarantees

When you carry out an installation with the R&M components, we give a five-year guarantee on the products, a twenty-year guarantee for the system and a lifetime guarantee for the applications.

Close safety loopholes in local networks



Complete solutions from one source

Data loss can prove fatal

More than 40% of companies losing all their data never recover; 29% have to close their business within two years of the crash. All too often, the causes of these catastrophes are within the cabling infrastructure.

Network security is essential

You cannot afford your networks to fail! As a planner, installation engineer or person responsible for IT and data cabling, you know of the essential significance of a reliable, secure infrastructure. Every second company suffers damage of up to 50,000 US dollars, caused simply by a one-hour interruption of their network. In sensitive areas, the loss could rise up to 90,000 US dollars per hour. The long-term consequences of longer failures in data and communication networks can often reach dramatic dimensions. Of particular sensitivity are stock exchanges and money transfer facilities, power supplies, telecommunication, health care and transportation, as well as larger manufacturing facilities.

The factor of people and small causes

It is often the simple, unspectacular connection errors and human frailties which cause network faults and data loss. Someone carelessly, incorrectly or improperly removes a connector, manipulates a cable connection or connects a universal cable to the wrong socket. And that's where the damage begins. Independent studies have shown that only 7% of data loss is caused by computer

viruses, but 44% is caused by hardware errors and 32% by human error. Other studies show that 59% of network problems can be traced directly back to the physical infrastructure and the connections.

More network safety

- Mechanical and colour coding prevent incorrect network connections.
- A lock mechanism allows authorised attachment and removal protection.

More flexibility

- Suitable for RJ45 & SC-RJ fibre components
- Simple attachment and refitting thanks to R&M smart holes

Comfort

- Tool-free mounting
- Retro-installation

Causes of data loss and network faults

Errors reducable using OBO and R&M

- Faulty manipulation 32%
- Hardware and system errors 32%
- Various extreme influences, EMC, etc. 3%

Errors not reducable by OBO and R&M

- Virus 7%
- Software error 14%



The right product for each safety requirement



Three-level safety system reduces data loss

The route to more security

Choose the innovative R&M security system to fend off network downtimes, errors, manipulations and other common sources of errors through a unique and simple, yet intelligent, connector solution. The hallmarks of the R&M security system are its modularity and flexibility. It is based on smart holes, which are installed as standard in the R&M platforms for copper and fibre optic connectors. This means that sockets and patch fields are ready-prepared for secure installations. All the security products are made from halogen-free materials and can be attached to the R&M cabling system at a later date. This means that tool-free installation is particularly easy.



Safety level 1 **Visual colour coding**

The colour coding supports the correct connection of the connection cables. They can be attached to connection cables and connection points (boxes, patch fields) very easily. If the applications change in the network, then previously installed colour coding can be replaced with other colours simply and without tools.

Features

- Simple, visible identification of the network service to be transmitted
- Replaceable and reusable colour coding
- Panel for individual labelling
- Reducing the risk of mistakes
- Can be mounted directly at a later date (boxes and patch fields with R&M smart holes)



Safety level 2 **Mechanical/visual plug-in protection**

The patented Data Save Lock mechanical/visual encoding guarantees mechanical plug-in protection. Thus the incorrect connection of a connection cable to a connection point is prevented right from the outset. In this way, undefined states in the network are avoided and sensitive network cards are protected against destruction. Incorrect connection, for example, of an Ethernet workplace to a slot assigned to the telephone system, can thus be prevented.

Features

- Protection against damage to electronics and network faults due to incorrectly connected terminals
- Mechanical and visual encoding options
- Eight different encoding options, no risk of mistakes
- Can be mounted directly at a later date (boxes and patch fields with R&M smart holes)
- Integrated kink protection for universal cables
- Patented



Safety level 3 **Lockable mechanical/visual removal and plug-in protection**

The Plug Guard protective sleeve can only be unlocked with an appropriate key. This means that unintentional removal of connection cables is no longer possible. Only trained and authorised people are able to remove these connections. A special, signal-coloured Safe Clip can also be used for the connection cable, preventing unintentional removal. The Safe Clip means that connection cables are also protected on the side of the active equipment.

Three steps to completing your universal cable:

1. Combine the components on the universal cable. Snap the base like a sleeve onto the connector and kink protection.
2. Lock the cover with the locking mechanism onto the base and push it under the unlocking lever of the connector.
3. Attach the colour clips to support correct patching.

After locking on, the Patch Guard is fixed to the connector and already complete. The connector and unlocking lever stay locked. Only authorised people can open the Patch Guard.



Universal data technology support for Modul 45



Universal support suitable for all applications

OBO offers two universally usable data technology supports for device installation with data modules: with straight connection direction and with slanting outlet. Both supports possess system fastening on all four sides and can thus be used in the wall duct or in an installation column. The data outlets are always arranged horizontally. Connection cables can be attached simply and safely and do not impede each other.

Safety

Integrated dust protection flaps cover the modules when unused and protect them against dust and other outside influences. When in use, the flaps are pushed up, and they close again automatically when the connection cable is removed.

Labelling panel

Both supports are supplied with

labelling panels with a transparent cover. The labelling panel is designed for strip labels of up to 12 mm width.

Flexible use

The data technology support consists of two components which are combined under a single order number. The base support assumes the function of installation in the system environment whilst the system-specific module support accepts the data modules. Each data technology support can accept up to two data modules. Both versions of the Universal data technology support are available for standard data modules.

Mounting aids, Modul 45 data technology



Device connection – cable preparation

Remove the outer jacket of the data technology cable and, if necessary, the insulation to a length of 50 mm.



Device connection – strain relief

Attach the cable to the cable seat and relieve the strain using the enclosed cable ties. With shielded cables, ensure that the contacting strap is connected to the shield.



Device connection – cable sorting

Attach the individual wires according to the connection table and fix the using the contacting terminal.



Device connection – Shorted cable excess

Cut off the excess cable length with cutters.



Device connection – cable attachment

Place the contacting bracket on the connection module and lock it in place. In the shielded version, the shield housing must also be attached.



Device connection as RJ11 telephone socket

When used as a telephone connection box, wire only the inner connection points. The reducing frame (type DMZ-RR/RJ11) prevents unintentional insertion of RJ45 connectors into the telephone socket.



Data technology support installation – device installation

Insert the complete data technology connection module into the data technology support from behind. For this, insert the support plate of the connection module into the seat and lock it in place.



Data technology support installation – system installation

Simply lock the data technology support into the system environment. The locking fastening is suitable for horizontal and vertical device installation.





The Modul 45 range can also display its benefits in terms of functions and ease of mounting in concealed and cavity wall applications. Using optimised additional components, the system can be adapted to any environment, thus achieving space-saving device installations of between $\frac{1}{2}$ and 3 module widths.

Depending on the version, the Modul net system can be installed on the surface of the wall or in a concealed fashion in cavity

walls. The modular structure of the system allows flexible device installation starting with the basic configuration for 4 Modul 45 accessories, which can be combined with the expansion module for two Modul 45 accessories according to requirements.

Planning aid, Modul 45 concealed and surface-mounted adapter systems



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Concealed and cavity wall installation with Modul 45



Lots of options for concealed and cavity wall solutions

OBO offers two systems for device installation in the concealed and cavity wall areas, which allow the installation of Modul 45 accessories. The systems are matched and designed to the various installation requirements and practices. Be it individual device installations, a switch/socket combination or the installation of a multiple socket, the right installation material is available for any requirements.

Standard device installation for Modul 45

The system components are designed for the installation of individual installation accessories. With device combinations, the individual accessories are mounted in a combination spacing of 71 mm. Besides the standard accessory sockets, two support plates with screw fastening or fastening claws and the appropriate cover frames are available in the widths ½ module and 1/1 module. Additional cover frames in 2 x 1/1 and 3 x 1/1 module width for the combination of multiple standard accessory sockets round off the offer.



Device installation system for Modul 45

The components of the device installation system are designed for the installation of multiple sockets and for device combination in one accessory socket. They consist of system accessory sockets and support plates in the module widths 1½x, 2x and 3x. Lockable cover frames for the width ½ module, 1/1 module, 1½ modules, 2 modules and 3 modules allow any combination of different Modul 45 components.



Modular structure and versatile use

The Modal net surface-mounted and cavity wall installation system has a compact design and offers the maximum of flexibility for electrical installations. The housing grows, and the modular system structure means that any number of device installations can be installed in a single housing. The basic configuration, consisting of two single housings (right and left side), offers space for four Modul 45 accessories. This basic configuration can be expanded as required using the expansion modules. The required expansion modules are simply placed between the individual houses of the basic configuration and locked into place.

Surface installation

The housing is simply mounted on the wall at the required location. The cables are usually infed via line routing ducts, which run directly into the housing.

Cavity wall installation

For cavity wall installation, the appropriate installation material, consisting of the cavity wall support and panel frame, is also required. The cavity wall support is placed in the wall opening and is used to accept the Modal net housing. For a tidy wall, the appropriate screen frame is locked on after installation. Cavity wall installations starting with a double version (basic configuration) up to a 6x version are possible.





Mounting aids, Modul 45 concealed installation



Accessory mounting box installation

Concealed devices and connection sockets can easily be plastered into masonry of all kind.



Combination of concealed sockets

The accessory sockets and the device connection boxes can be interconnected using their tunnel supports. The combination spacing is 71 mm.



Device connection sockets

Device connection sockets have a total compartment volume for the installation of an installation device and also space for at least three connection terminals.



Signal cover

Before plastering, place the signal cover on the device or connection sockets. They prevent soiling of the socket interior and simplify finding the sockets again after plastering.



Standard device installation for Modul 45 in concealed sockets

Ready-placed device and connection sockets for standard installations with 71 mm combination spacing can now be equipped with Modul 45 devices.



System device installation for Modul 45 in concealed sockets

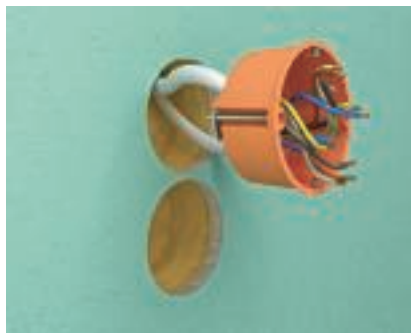
Ready-placed accessory sockets for Modul 45 system device installation can now be equipped with Modul 45 devices.

Mounting aids, Modul 45 cavity wall installation



Preparation of mounting hole

Draw on the centre of the hole and cut out a drill hole of 68 mm using a circular band saw. With combination mounting, maintain the standard hole spacing of 71 mm and create a second hole vertically or horizontally to the first one.



Installation of accessory socket

Cables and/or pipes are inserted in advance and are automatically clamped tight. Then place the accessory sockets in the drill hole.



Fastening the cavity wall sockets

The accessory sockets are fixed in the drill hole using a screwdriver and fastening screw. The small holding plates on the rear side of the boxes provide the necessary hold.



Preparation of mounting hole of multiple accessory sockets

When using a double accessory socket or system accessory socket, two holes are drilled in advance with the prescribed hole spacing and a diameter of 68 mm. The rest is cut out with a knife.



Mounting of multiple accessory sockets

Cables and/or pipes are inserted in advance and are automatically clamped tight. Then place the accessory sockets in the drill hole.



Standard device installation for Modul 45 in cavity wall sockets

Ready-placed device and connection sockets for standard installations with 71 mm combination spacing can now be equipped with Modul 45 devices.



System device installation for Modul 45 in cavity wall sockets

Ready-placed accessory sockets for Modul 45 system device installation can now be equipped with Modul 45 devices.





Mounting aids, surface-mounted installation – Modal net



Create a cable gland

Cut out the necessary cable glands and duct connection on the side of the housing base.



Housing configuration

Create the necessary housing size from the basic configuration and additional expansion modules. The housing bases are interconnected and locked in.



Housing mounting

Using the fastening holes in the rear wall, fasten the prepared housing base to the wall.



Cable strain relief device

Pull the installation cables through the cable gland and relieve the strain on the housing base.



Device installation

Modul 45 accessories can be locked into the cover frame and the connection work carried out.



Mounting of cover frame

Place the pre-installed cover frame on the housing base and lock it in place.



Surface installation

Surface-mounted installation is complete. Changes and extensions to the installation are very easy on account of the modular system structure.

Mounting aids, cavity wall installation – Modal net



Housing configuration

Create the necessary housing size from the basic configuration and additional expansion modules. The housing bases are interconnected and locked in.



Create a cable gland

Cut out the necessary cable glands in the rear panel area.



Mounting of cavity wall support

Insert the cavity wall support in the prepared mounting opening.



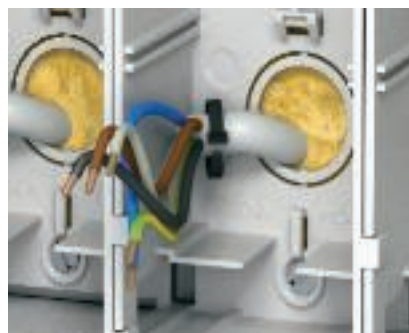
Mounting of cavity wall support

Place the supplied clamping pieces in the pre-specified seat at the side and screw them tight.



Housing mounting

Insert the prepared housing base into the cavity wall support and connect the rear panel with the supplied fastening screws.



Cable strain relief device

Pull the installation cables through the cable gland and relieve the strain on the housing base.



Device installation

Modul 45 accessories can be locked into the cover frame and the connection work carried out.



Mounting of cover frame

Place the pre-installed cover frame on the housing base and lock it in place.



Cavity wall installation

Place the screen frame on the cavity wall support and lock it in place. Cavity wall installation is complete.





The robust design and simple handling mean that energy distributors are essential wherever power and compressed air are required. The energy distributors can be suspended from the ceiling using a knotted chain and are thus always in the right location. The concentration of the energy sources directly at the workplace means that there are no interfering cables and hoses. This reduces the risk of accidents, and rationalisation at the workplace is improved considerably.

Planning aid, industrial and special connector systems



Power supply units VH and VHF	44
Mounting aids, power supply units VH and VHF	45





Power supply units VH and VHF



All good things come from above Power supply units for power and compressed air

Often, supplying power to workstations in production and workshops is a difficult matter. The required power sources, such as heavy current and compressed air, come from central supply points, are run to the individual workstations and must then often be re-bundled. These supply lines are often easily missed and pose an additional risk at the workstation. Besides posing the risk of tripping, carelessly routed compressed air hoses or power cable extensions often cause transport problems and are sources of risk not to be underestimated, especially when rapid working routes are required. OBO Bettermann can provide assistance here: With the space-saving type VH and VHF power supply units, problematic extension cables and hoses are a thing of the past. The solution is literally in the air and close at hand! The required compact, box-like distributors can be suspended from the ceiling using a knotted chain and thus freely positioned in the room. Thus OBO power supply units offer safe, rational working at the workstation.

VH power supply unit

Under normal working conditions, the VH distributor is used for ma-

chining and mounting areas or in car workshops.

To meet the necessary requirements, besides the freely equippable power supply units for four or eight devices, there is also a range of pre-equipped and pre-wired units available.

VHF power supply unit

In work areas such as bakeries, industrial kitchens, abattoirs or laboratories, power supplies will be subjected to special requirements. This is a job for the VHF distributor. It allows a wide range of solutions, which are suitable for damp and wet areas up to a protection rating of IP44.

The right accessories for every application

A comprehensive range of accessories complete the VH and VHF power supply units. It allows the installation of Modul 45 accessories, standard switching and connection devices, extension sockets with 38 x 38 mm fastening system, CEE connection units, protecton units and much more. This means that there are no limits to the range of applications for power supply units. Heavy current, compressed air, data technology and even country-specific installation solutions are available wherever they are required.

Mounting aids, power supply units VH and VHF



Installation with knotted chain

Mounting with a knotted chain is a rigid installation and does not require any additional cable reserves. Shorten the knotted chain to the required length and fasten it using the pre-mounted eyelet on the housing cover.



Installation with tension spring

With additional installations with a tension spring, always ensure flexible cable routing. The tension spring is usually used with compressed air for VH units and inserted directly in the fastening seat.



Compressed air connection

The compressed air connection is designed for compressed air hoses 13 x 3.5 mm. The hose connection is fixed and locked using a hose clip.



Cable entry

Cables are inserted using the pre-punched openings in the housing cover. Correct strain relief is achieved using the cable terminals integrated in the housing.



VH device installation – Modul 45

The Modul 45 devices are inserted and locked into the appropriate cover plate. After connecting the cable, place the cover plate on the housing and fix it using two screws.



VH device installation – support ring (EKR)

After cable connection, accessories with a support ring are screwed directly into the housing. The cover plate is fastened by mounting the central plate.



VH / VHF device installation – expansion devices

Fasten extension accessories for the 38 x 38 mm fastening system to the appropriate cover plate using the enclosed screws. After connecting the cable, place the cover plate on the housing and fix it using fastening screws.



VH / VHF device installation – CEE

The connection of cables to a CEE connection unit must be carried out using a pre-mounted cover plate. During device mounting, the cover plate is fastened using four fastening screws.



VHF device installation – IP44 socket

The IP44 socket is inserted and locked into the appropriate cover plate. After connecting the cable, place the cover plate on the housing and fix it using screws.



Mounting aids, power supply units VH and VHF



VHF device installation – power supply unit

In the first step, the appropriate support is pre-mounted using a PE terminal strip or N and PE terminal strip in the upper half of the housing. For this, the inner part of the fastening tracks must be completely removed.



VHF device installation – power supply unit

In the second step, the support bracket for the power supply unit is mounted in the lower half of the housing. Then the devices are connected and installed.



VHF device installation – power supply unit

In the third step, the transparent cover is placed on the cover plate and fastened with four screws. After that, mount the cover plate onto the equipped housing side using four screws.



	STOWARZYSZENIE ELEKTRYKÓW POLSKICH, Poland
	KEMA-KEUR, Netherlands
	Österreichischer Verband für Elektrotechnik, Austria
	Verband der Elektrotechnik, Elektronik, Informationstechnik e.V., Germany

Pictogram explanation

Surfaces

	DIN EN 10327
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Conformity symbol

	Communautés Européennes, EC declaration of conformity according to EC directives
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Quality marks

	Halogen-free; without chlorine, fluorine and bromine
	UV-RESISTANT

Specific product symbols

	Diameter 60 mm
	Diameter 68 mm
	Protection device to DIN EN 61643-11 or IEC 61643-11
	Transition from LPZ 2 to LPZ 3
	Acoustic signalling

Metals

	Aluminium
	Steel

Plastics

	Polyamide
	Polycarbonate
	Polyethylene
	Polypropylene
	Polystyrene
	Polyvinylchloride





Brief info

Besides the known advantages for tool-free mounting, the Modul 45 socket system also offers a range of variants, allowing installation in any system environment. For country-specific use, protective contact sockets and sockets with an earthing pin, and sockets made to the Swiss and Danish standards, are available.

System description

Material: Polycarbonate

Mounting type: Locking fastening

Connection: 2-pin screwless terminals for rigid cables of up to 2.5 mm²

Version: Single, double and triple sockets

Connection direction: 0° and 33°

Colours (visible surfaces): Pure white RAL 9010, pure orange RAL 2004, mint green RAL 6029, signal red RAL 3001, black-grey RAL 7021, varnished aluminium, similar to RAL 9006

Modul 45 socket systems

	Power socket	Direction of insertion 0°	52
		Direction of insertion 33°	52
	Socket with earthing pin	Direction of insertion 0°	53
		Direction of insertion 33°	53
	Socket with earthing pin – encoded version	Direction of insertion 0°	54
		Direction of insertion 33°	54
		Encoding pin	55
	Swiss standard socket	Direction of insertion 0°	55
	Danish standard socket	Direction of insertion 0°	55
	Accessories	Strain relief	55
		Surge protection module	56

Modul 45 sockets



Protective contact socket 0°

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS-D0 RW1	Pure white	20	3.800	6117 00 1
SKS-D0 ROR1	Orange	20	3.800	6117 00 3
SKS-D0 MZGN1	Mint green	20	3.800	6117 00 5
SKS-D0 SRO1	Signal red	20	3.800	6117 00 7
SKS-D0 SWGR1	Black-grey	20	3.800	6117 00 8
SKS-D0 AL1	Aluminium painted	20	3.800	6117 00 9

PC Polycarbonate /pc.

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

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS-D0 RW2	Pure white	10	7.500	6117 01 2
SKS-D0 ROR2	Orange	10	7.500	6117 01 4
SKS-D0 MZGN2	Mint green	10	7.500	6117 01 6
SKS-D0 SRO2	Signal red	10	7.500	6117 01 8
SKS-D0 SWGR2	Black-grey	10	7.500	6117 01 9
SKS-D0 AL2	Aluminium painted	10	7.500	6117 02 0

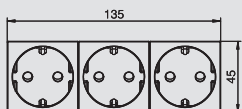
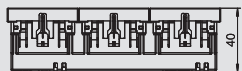
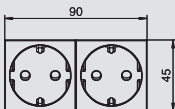
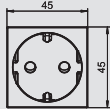
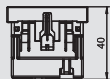
PC Polycarbonate /pc.

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

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS-D0 RW3	Pure white	4	10.300	6117 02 3
SKS-D0 ROR3	Orange	4	10.300	6117 02 5
SKS-D0 MZGN3	Mint green	4	10.300	6117 02 7
SKS-D0 SRO3	Signal red	4	10.300	6117 02 9
SKS-D0 SWGR3	Black-grey	4	10.300	6117 03 0
SKS-D0 AL3	Aluminium painted	4	10.300	6117 03 1

PC Polycarbonate /pc.

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



Protective contact socket 33°

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS-D3 RW1	Pure white	20	3.800	6117 04 1
SKS-D3 ROR1	Orange	20	3.800	6117 04 3
SKS-D3 MZGN1	Mint green	20	3.800	6117 04 5
SKS-D3 SRO1	Signal red	20	3.800	6117 04 7
SKS-D3 SWGR1	Black-grey	20	3.800	6117 04 8
SKS-D3 AL1	Aluminium painted	20	3.800	6117 04 9

PC Polycarbonate /pc.

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

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS-D3 RW2	Pure white	10	7.500	6117 05 2
SKS-D3 ROR2	Orange	10	7.500	6117 05 4
SKS-D3 MZGN2	Mint green	10	7.500	6117 05 6
SKS-D3 SRO2	Signal red	10	7.500	6117 05 8
SKS-D3 SWGR2	Black-grey	10	7.500	6117 05 9
SKS-D3 AL2	Aluminium painted	10	7.500	6117 06 0

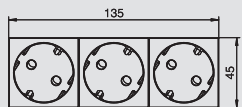
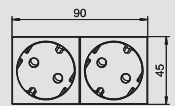
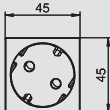
PC Polycarbonate /pc.

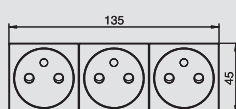
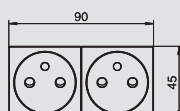
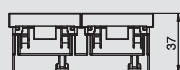
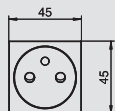
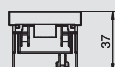
Power socket double 33°, with increased touch protection with screwless terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1.

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS-D3 RW3	Pure white	4	10.300	6117 06 3
SKS-D3 ROR3	Orange	4	10.300	6117 06 5
SKS-D3 MZGN3	Mint green	4	10.300	6117 06 7
SKS-D3 SRO3	Signal red	4	10.300	6117 06 9
SKS-D3 SWGR3	Black-grey	4	10.300	6117 07 0
SKS-D3 AL3	Aluminium painted	4	10.300	6117 07 1

PC Polycarbonate /pc.

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





Socket with earthing pin 0°

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-F0 RW1	Pure white	20	3.800	6117 10 2
SKS-F0 ROR1	Orange	20	3.800	6117 10 4
SKS-F0 MZGN1	Mint green	20	3.800	6117 10 6
SKS-F0 SRO1	Signal red	20	3.800	6117 10 8
SKS-F0 SWGR1	Black-grey	20	3.800	6117 10 9
SKS-F0 AL1	Aluminium painted	20	3.800	6117 11 0

PC Polycarbonate /pc.

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

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-F0 RW2	Pure white	10	7.500	6117 11 1
SKS-F0 ROR2	Orange	10	7.500	6117 11 3
SKS-F0 MZGN2	Mint green	10	7.500	6117 11 5
SKS-F0 SRO2	Signal red	10	7.500	6117 11 7
SKS-F0 SWGR2	Black-grey	10	7.500	6117 11 8
SKS-F0 AL2	Aluminium painted	10	7.500	6117 11 9

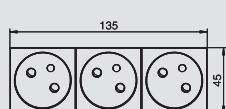
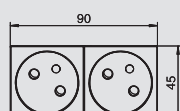
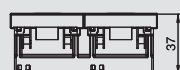
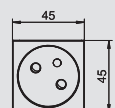
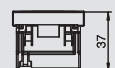
PC Polycarbonate /pc.

Socket with earthing pin double 0°, with increased touch protection with screwless terminals, 2-pin, 16 A, 250 V ~, with connection terminals to IEC 60884-1.

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-F0 RW3	Pure white	4	12.000	6117 12 3
SKS-F0 ROR3	Orange	4	12.000	6117 12 5
SKS-F0 MZGN3	Mint green	4	12.000	6117 12 7
SKS-F0 SRO3	Signal red	4	12.000	6117 12 9
SKS-F0 SWGR3	Black-grey	4	12.000	6117 13 0
SKS-F0 AL3	Aluminium painted	4	12.000	6117 13 1

PC Polycarbonate /pc.

Socket with earthing pin triple 0°, with increased touch protection with screwless terminals, 2-pin, 16 A, 250 V ~, with connection terminals to IEC 60884-1.



Socket with earthing pin 33°

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-F3 RW1	Pure white	20	3.800	6117 14 0
SKS-F3 ROR1	Orange	20	3.800	6117 14 2
SKS-F3 MZGN1	Mint green	20	3.800	6117 14 4
SKS-F3 SRO1	Signal red	20	3.800	6117 14 6
SKS-F3 SWGR1	Black-grey	20	3.800	6117 14 7
SKS-F3 AL1	Aluminium painted	20	3.800	6117 14 8

PC Polycarbonate /pc.

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

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-F3 RW2	Pure white	10	7.500	6117 15 1
SKS-F3 ROR2	Orange	10	7.500	6117 15 3
SKS-F3 MZGN2	Mint green	10	7.500	6117 15 5
SKS-F3 SRO2	Signal red	10	7.500	6117 15 7
SKS-F3 SWGR2	Black-grey	10	7.500	6117 15 8
SKS-F3 AL2	Aluminium painted	10	7.500	6117 15 9

PC Polycarbonate /pc.

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

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-F3 RW3	Pure white	4	10.300	6117 16 2
SKS-F3 ROR3	Orange	4	10.300	6117 16 4
SKS-F3 MZGN3	Mint green	4	10.300	6117 16 6
SKS-F3 SRO3	Signal red	4	10.300	6117 16 8
SKS-F3 SWGR3	Black-grey	4	10.300	6117 16 9
SKS-F3 AL3	Aluminium painted	4	10.300	6117 17 0

PC Polycarbonate /pc.

Socket with earthing pin triple 33°, with increased touch protection with screwless terminals, 2-pin, 16 A, 250 V ~, with connection terminals to IEC 60884-1.



Modul 45 sockets



Socket with earthing pin 0° – encoded version

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-FC0 RW1	Pure white	20	3.800	6106 67 1
SKS-FC0 ROR1	Orange	20	3.800	6106 67 3
SKS-FC0 MZGN1	Mint green	20	3.800	6106 67 5
SKS-FC0 SRO1	Signal red	20	3.800	6106 67 7
SKS-FC0 AL1	Aluminium painted	20	3.800	6106 67 9

PC Polycarbonate /pc.

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

The socket can only be used in conjunction with an encoding pin, type CST-SKS.

Note: The encoding pin is not contained in the scope of supply.

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-FC0 RW2	Pure white	10	7.500	6106 68 1
SKS-FC0 ROR2	Orange	10	7.500	6106 68 3
SKS-FC0 MZGN2	Mint green	10	7.500	6106 68 5
SKS-FC0 SRO2	Signal red	10	7.500	6106 68 7
SKS-FC0 AL2	Aluminium painted	10	7.500	6106 68 9

PC Polycarbonate /pc.

Socket with earthing pin double 0°, coded version with increased touch protection, with screwless terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1.

The socket can only be used in conjunction with an encoding pin, type CST-SKS.

Note: The encoding pin is not contained in the scope of supply.

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-FC0 RW3	Pure white	4	10.300	6106 69 1
SKS-FC0 ROR3	Orange	4	10.300	6106 69 3
SKS-FC0 MZGN3	Mint green	4	10.300	6106 69 5
SKS-FC0 SRO3	Signal red	4	10.300	6106 69 7
SKS-FC0 AL3	Aluminium painted	4	10.300	6106 69 9

PC Polycarbonate /pc.

Socket with earthing pin triple 0°, coded version with increased touch protection, with screwless terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1.

The socket can only be used in conjunction with an encoding pin, type CST-SKS.

Note: The encoding pin is not contained in the scope of supply.

Socket with earthing pin 33° – encoded version

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-FC3 RW1	Pure white	20	3.800	6106 70 1
SKS-FC3 ROR1	Orange	20	3.800	6106 70 3
SKS-FC3 MZGN1	Mint green	20	3.800	6106 70 5
SKS-FC3 SRO1	Signal red	20	3.800	6106 70 7
SKS-FC3 AL1	Aluminium painted	20	3.800	6106 70 9

PC Polycarbonate /pc.

Socket with earthing pin single 33°, coded version with increased touch protection, with screwless terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1.

The socket can only be used in conjunction with an encoding pin, type CST-SKS.

Note: The encoding pin is not contained in the scope of supply.

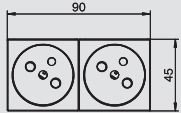
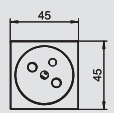
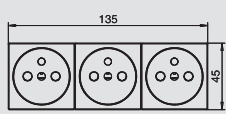
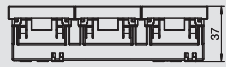
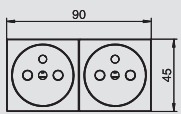
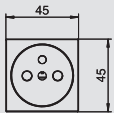
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-FC3 RW2	Pure white	10	7.500	6106 71 1
SKS-FC3 ROR2	Orange	10	7.500	6106 71 3
SKS-FC3 MZGN2	Mint green	10	7.500	6106 71 5
SKS-FC3 SRO2	Signal red	10	7.500	6106 71 7
SKS-FC3 AL2	Aluminium painted	10	7.500	6106 71 9

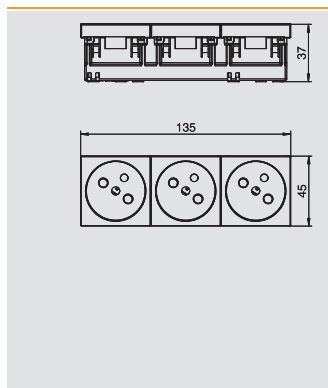
PC Polycarbonate /pc.

Socket with earthing pin double 33°, coded version with increased touch protection, with screwless terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1.

The socket can only be used in conjunction with an encoding pin, type CST-SKS.

Note: The encoding pin is not contained in the scope of supply.





Socket with earthing pin 33° – encoded version

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-FC3 RW3	Pure white	4	10.300	6106 72 1
SKS-FC3 ROR3	Orange	4	10.300	6106 72 3
SKS-FC3 MZGN3	Mint green	4	10.300	6106 72 5
SKS-FC3 SRO3	Signal red	4	10.300	6106 72 7
SKS-FC3 AL3	Aluminium painted	4	10.300	6106 72 9

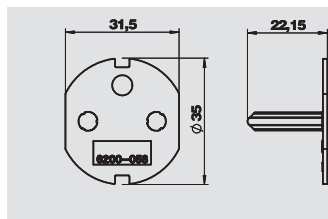
PC Polycarbonate

/pc.

Socket with earthing pin triple 33°, coded version with increased touch protection, with screwless terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1.

The socket can only be used in conjunction with an encoding pin, type CST-SKS.

Note: The encoding pin is not contained in the scope of supply.



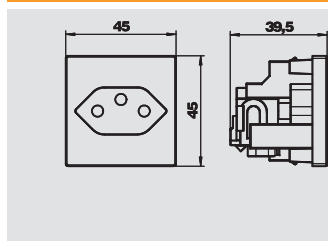
Encoding pin

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
CST-SKS	Black	10	1.200	6106 73 5

PC Polycarbonate

/pc.

Encoding pin for socket with earthing pin, encoded version



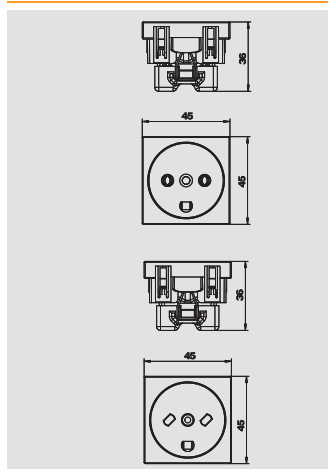
Swiss standard socket 0°

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-CH0 RW1	Pure white	1	3.400	6117 20 0

PC Polycarbonate

/pc.

Socket, single 0°, to Swiss standard (SEV), with screwless terminals, 2-pin, 10 A, 250 V~, type 13, with connection terminals to IEC 60884-1.



Danish standard socket 0°

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-DK0 RW1	Pure white	20	3.050	6117 20 2

PC Polycarbonate

/pc.

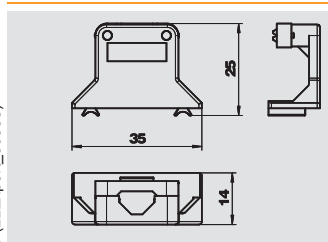
Socket, single 0°, to Danish standard, with increased touch protection, with screw terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1.

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-DKE0 RW1	Pure white	20	3.050	6117 20 3

PC Polycarbonate

/pc.

Socket, single 0°, to Danish standard, encoded for IT power circuit, with screw terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1.



Strain relief

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
ZL-SKS	White	10	0.467	6117 20 5

/pc.

Strain relief for 0° power socket, socket with 0° earthing pin and Modul 45connect sockets, connectable at side. For fastening a 3-wire cable, max. Ø 10 mm.



Modul 45 sockets



Surge protection module ÜSA-A

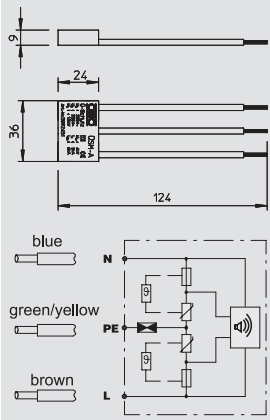
Type	Signalling on device	Pack. pcs	Weight kg/100 pcs.	Item No.
USM-A	Audible	1	1.500	5092 45 1

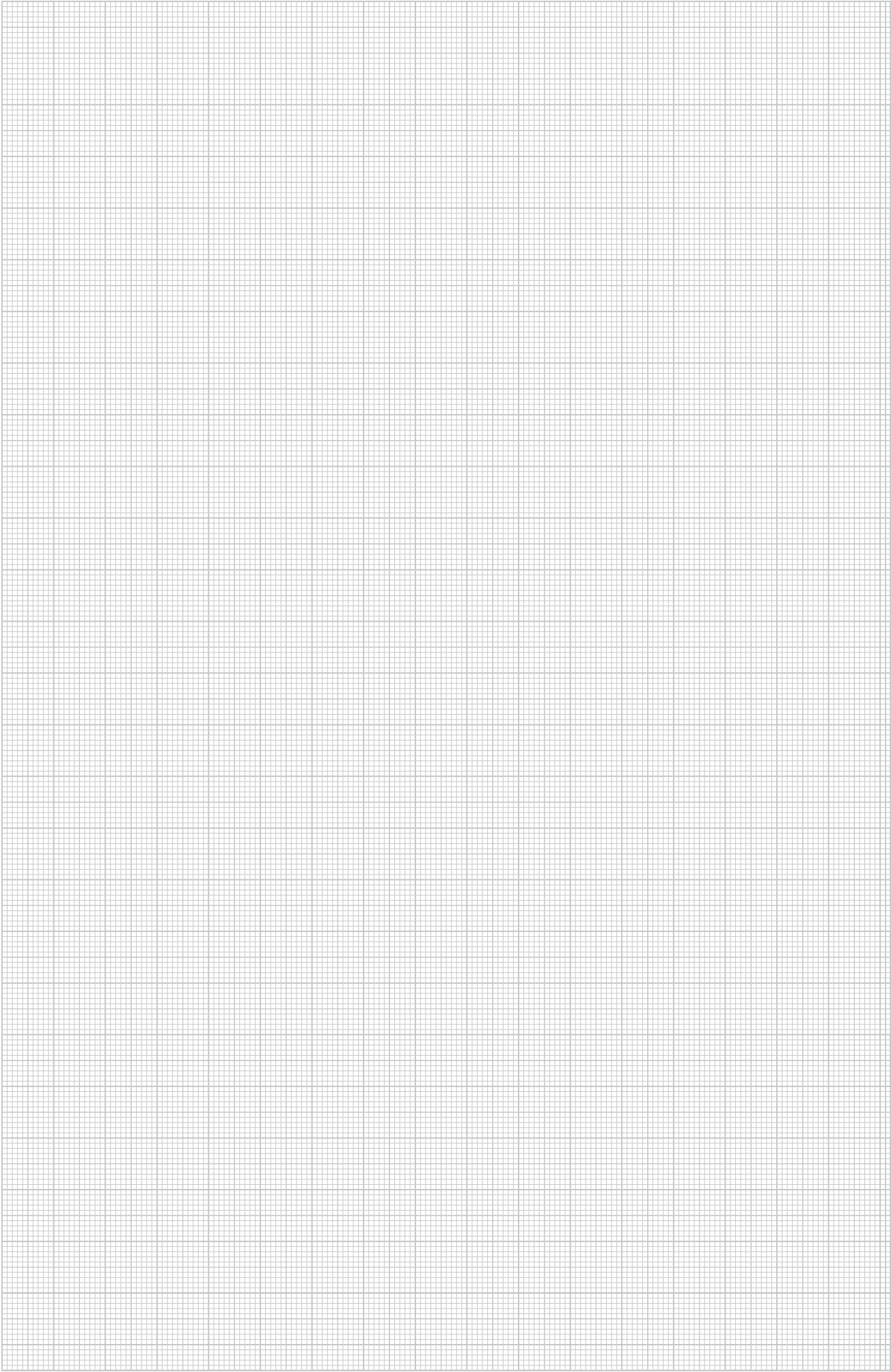
/pc.

Surge protection module type 3 (class D) to DIN EN 61643-11 (VDE 0675 Parts 6–11), fine protection device, for 230/400 V supplies.
For use on power sockets.

- With acoustic defect signal
- With low construction height
- Y circuit

Application: Universally applicable for all installation systems







Brief info

Besides the known functions of the Modul 45 systems, the new Modul 45connect socket system offers additional connection options to make electrical installations even faster and safer. Plug adapters create a direct connection and forwarding option for the GST18i connector system. Time-intensive work steps, which must be carried out for conventional electrical installations, are no longer needed.

System description

Material: Polycarbonate
 Mounting type: Locking fastening
 Connection: 2-pin screwless terminals for rigid cables of up to 2.5 mm², GST18i connector system in conjunction with socket and connector section adapters
 Version: Double and triple sockets
 Connection direction: 33°
 Colours (visible surfaces): Pure white RAL 9010, pure orange RAL 2004, mint green RAL 6029, signal red RAL 3001, black-grey RAL 7021, varnished aluminium, similar to RAL 9006

Modul 45connect socket systems

	Power socket	Direction of insertion 33°	60
	Socket with earthing pin	Direction of insertion 33°	60
	Connection adapter	Connector part, straight Socket part, straight Connector part, U-shaped	60
	Connection adapter	Plug socket	61
	Accessories	Strain relief Surge protection module ÜSA-A	61 61



Modul 45connect sockets



Protective contact socket 33°

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS-DS3 RW2	Pure white	10	8.240	6117 07 4
SKS-DS3 ROR2	Orange	10	8.240	6117 07 6
SKS-DS3 MZGN2	Mint green	10	8.240	6117 07 8
SKS-DS3 SRO2	Signal red	10	8.240	6117 08 0
SKS-DS3 SWGR2	Black-grey	10	8.240	6117 08 1
SKS-DS3 AL2	Aluminium painted	10	8.240	6117 08 2

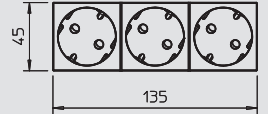
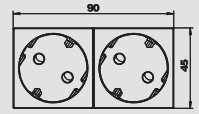
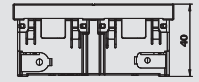
PC Polycarbonate /pc.

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

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS-DS3 RW3	Pure white	4	11.960	6119 85 0
SKS-DS3 ROR3	Orange	4	11.960	6119 85 2
SKS-DS3 MZGN3	Mint green	4	11.960	6119 85 4
SKS-DS3 SRO3	Signal red	4	11.960	6119 85 6
SKS-DS3 SWGR3	Black-grey	4	11.960	6119 85 8
SKS-DS3 AL3	Aluminium painted	4	11.960	6119 86 0

PC Polycarbonate /pc.

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



Socket with earthing pin 33°

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS-FS3 RW2	Pure white	10	7.880	6119 86 8
SKS-FS3 ROR2	Orange	10	7.880	6119 87 0
SKS-FS3 MZGN2	Mint green	10	7.880	6119 87 2
SKS-FS3 SRO2	Signal red	10	7.880	6119 87 4
SKS-FS3 SWGR2	Black-grey	10	7.880	6119 87 6
SKS-FS3 AL2	Aluminium painted	10	7.880	6119 87 8

PC Polycarbonate /pc.

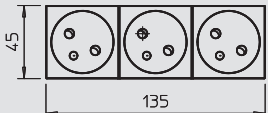
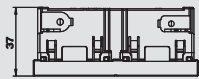
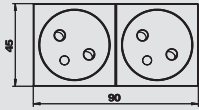
Socket with earthing pin with side connection double 33°, with increased touch protection with screwless terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1.

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS-FS3 RW3	Pure white	4	11.600	6119 88 0
SKS-FS3 ROR3	Orange	4	11.600	6119 88 2
SKS-FS3 MZGN3	Mint green	4	11.600	6119 88 4
SKS-FS3 SRO3	Signal red	4	11.600	6119 88 6
SKS-FS3 SWGR3	Black-grey	4	11.600	6119 88 8
SKS-FS3 AL3	Aluminium painted	4	11.600	6119 89 0

PC Polycarbonate /pc.

Socket with earthing pin with side connection triple 33°, with increased touch protection with screwless terminals, 2-pin, 16 A 250 V~, with connection terminals to IEC 60884-1.

With screwless terminals, 2-pole, 16 A 250 V~, with connection terminals to IEC 60884-1.

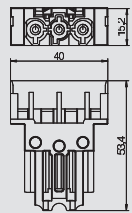


Connection adapter, straight, connector part

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
STA-SKS S1 SW	Black	10	1.200	6117 19 2
STA-SKS S1 W	White	10	1.200	6117 19 3

/pc.

Connector part adapter, straight, for connection to an SKS-DS or SKS-FS socket from the side, for VL extension cable with Wieland connector GST 18i 3p.

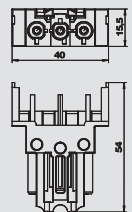


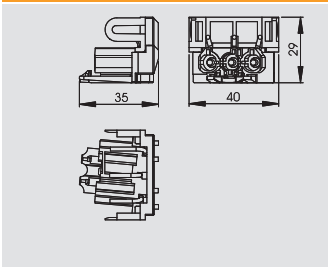
Connection adapter, straight, socket part

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
BTA-SKS S1 SW	Black	10	1.200	6117 19 0
BTA-SKS S1 W	White	10	1.200	6117 19 1

/pc.

Socket part adapter, straight, for connection to an SKS-DS or SKS-FS socket from the side, for VL extension cable with Wieland connector GST 18i 3p.



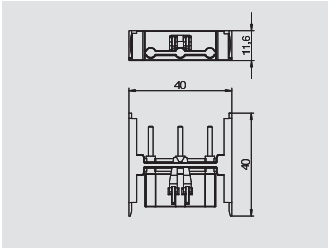


Connection adapter, U-shaped, connector part

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
STA-SKS SU1 SW	Black	10	1.190	6117 19 6
STA-SKS SU1 W	White	10	1.190	6117 19 7

/pc.

Connector part adapter, U-shaped, for connection to an SKS-DS or SKS-FS socket from the side, for VL extension cable with Wieland connector GST 18i 3p.



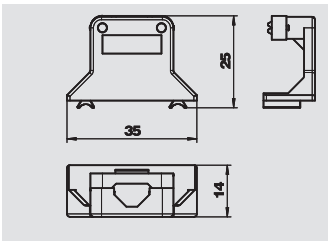
Connection adapter

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VB-SKS S	Black	10	0.590	6117 19 8

/pc.

Connection adapter for combining SKS-DS or SKS-FS sockets.

Note: Socket combinations with two connection adapters at most are permitted.

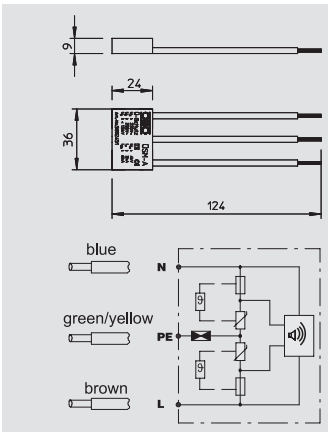


Strain relief

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
ZL-SKS	White	10	0.467	6117 20 5

/pc.

Strain relief for 0° power socket, socket with 0° earthing pin and Modul 45connect sockets, connectable at side. For fastening a 3-wire cable, max. Ø 10 mm.



Surge protection module ÜSA-A

Type	Signalling on device	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
ÜSM-A	Audible	1	1.500	5092 45 1

/pc.

Surge protection module type 3 (class D) to DIN EN 61643-11 (VDE 0675 Parts 6–11), fine protection device, for 230/400 V supplies. For use on power sockets.

- With acoustic defect signal
- With low construction height
- Y circuit

Application: Universally applicable for all installation systems





Brief info

There is a complete range of Modul 45 switching and connection accessories available for electrical installations. Besides a functional selection of switches and buttons, OBO can offer a range of items, such as telephone and aerial connection boxes, surge protection and electronic accessories for controlling building technology.

System description

Switches/buttons

Material: Polycarbonate

Mounting type: Locking fastening

Connection: 2-pole screwless terminals for rigid cables of up to 2.5 mm²

Versions: ½ and 1 module width

Colours (visible surfaces): Pure white RAL 9010, black-grey RAL 7021, varnished aluminium, similar to RAL 9006

Modul 45 switching and connection systems

	Switch	Changeover key Roller blind switch	64 66
	Switch	One-way switch Changeover switch Series switch Cross switch Roller blind switch Accessories	64
	Touch dimmer	Phase section Phase section	67
	Electronic devices	Relay insert Motion detector top Timer top Roller blind timer top Room thermostat top	67
	Surge protection	Signalling, visual Signalling, acoustic	69
	Antenna sockets	SAT Radio, TV Radio, TV, SAT	69
	Telephone connection	TAE-6F	70
	Equipotential bonding	Connection socket	70
	Cover	Cable outlet Blanking cover	70

Switching devices



Changeover switch 1/2 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
TA-B RW0.5	Pure white	10	1.800	6117 67 0
TA-B SWGR0.5	Black-grey	10	1.800	6117 66 8
TA-B AL0.5	Aluminium painted	10	1.800	6117 67 1

/pc.

Changeover switch, 1-pin, 10 A, 250 V~, with screwless terminals.

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
TA-NA RW0.5	Pure white	10	1.900	6117 67 5
TA-NA SWGR0.5	Black-grey	10	1.900	6117 67 2
TA-NA AL0.5	Aluminium painted	10	1.900	6117 67 6

/pc.

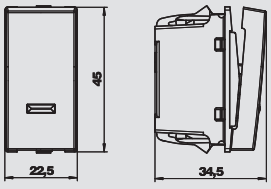
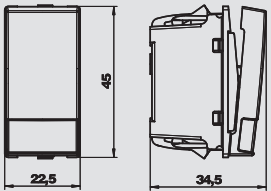
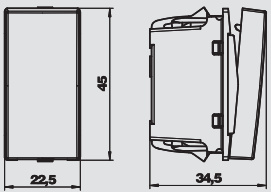
Changeover switch with nameplate, 1-pin, 10 A, 250 V, with screwless terminals.

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
TA-K RW0.5	Pure white	10	1.900	6117 67 8
TA-K SWGR0.5	Black-grey	10	1.900	6117 67 7
TA-K AL0.5	Aluminium painted	10	1.900	6117 67 9

/pc.

Changeover switch for lighting with LED element, 1-pin, 10 A, 250 V, with screwless terminals.

Note: The LED element is not contained in the scope of delivery.

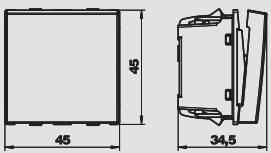


Changeover switch 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
TA-B RW1	Pure white	10	3.300	6117 67 3
TA-B SWGR1	Black-grey	10	3.300	6117 66 9
TA-B AL1	Aluminium painted	10	3.300	6117 67 4

/pc.

Changeover switch, 1-pin, 10 A, 250 V~, with screwless terminals.



One-way switch, 1/2 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
AS-B RW0.5	Pure white	10	1.700	6117 62 0
AS-B SWGR0.5	Black-grey	10	1.700	6117 62 2
AS-B AL0.5	Aluminium painted	10	1.700	6117 62 1

/pc.

One-way switch, 1-pin, 16 A, 250 V, with screwless terminals.

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
AS-NA RW0.5	Pure white	10	1.800	6117 61 7
AS-NA SWGR0.5	Black-grey	10	1.800	6117 61 9
AS-NA AL0.5	Aluminium painted	10	1.800	6117 61 8

/pc.

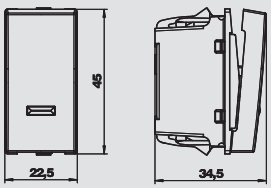
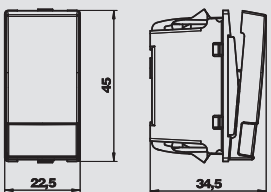
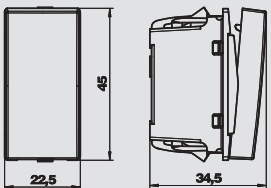
One-way switch with nameplate 1-pin, 16 A, 250 V, with screwless terminals.

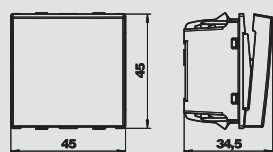
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
AS-K RW0.5	Pure white	10	1.800	6117 62 4
AS-K SWGR0.5	Black-grey	10	1.800	6117 62 3
AS-K AL0.5	Aluminium painted	10	1.800	6117 62 5

/pc.

One-way switch for lighting with LED element, 1-pin, 16 A, 250 V, with screwless terminals.

Note: The LED element is not contained in the scope of delivery.





One-way switch, 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
AS-B2P RW1	Pure white	10	2.300	6117 64 4
AS-B2P SWGR1	Black-grey	10	2.300	6117 64 3
AS-B2P AL1	Aluminium painted	10	2.300	6117 64 5

/pc.

One-way switch, 2-pin, 16 A, 250 V~, with screwless terminals.

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
AS-NA2P RW1	Pure white	10	2.800	6117 65 0
AS-NA2P SWGR1	Black-grey	10	2.800	6117 64 9
AS-NA2P AL1	Aluminium painted	10	2.800	6117 65 1

/pc.

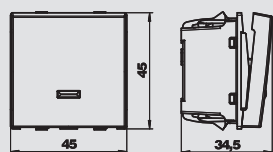
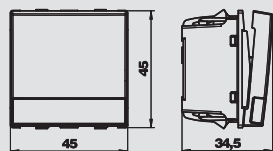
One-way switch with nameplate 2-pin, 16 A, 250 V, with screwless terminals.

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
AS-K2P RW1	Pure white	10	2.300	6117 64 7
AS-K2P SWGR1	Black-grey	10	2.300	6117 64 6
AS-K2P AL1	Aluminium painted	10	2.300	6117 64 8

/pc.

Switch off for lighting with LED element, 2-pin, 16 A, 250 V, with screwless terminals.

Note: The LED element is not contained in the scope of delivery.



Changeover switch 1/2 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WS-B RW0.5	Pure white	10	1.800	6117 62 7
WS-B SWGR0.5	Black-grey	10	1.800	6117 62 6
WS-B AL0.5	Aluminium painted	10	1.800	6117 62 8

/pc.

Changeover switch 1-pin, 16 A, 250 V~, with screwless terminals.

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WS-NA RW0.5	Pure white	10	1.900	6117 63 4
WS-NA SWGR0.5	Black-grey	10	1.900	6117 63 3
WS-NA AL0.5	Aluminium painted	10	1.900	6117 63 6

/pc.

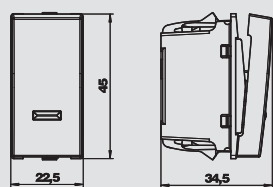
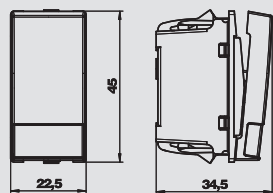
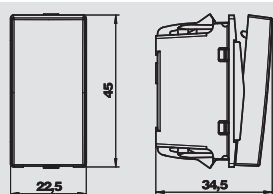
Changeover switch with nameplate, 1-pin, 16 A, 250 V~, with screwless terminals.

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WS-K RW0.5	Pure white	10	1.800	6117 63 0
WS-K SWGR0.5	Black-grey	10	1.800	6117 62 9
WS-K AL0.5	Aluminium painted	10	1.800	6117 63 1

/pc.

Changeover switch for lighting with LED element, 1-pin, 16 A, 250 V~, with screwless terminals.

Note: The LED element is not contained in the scope of delivery.

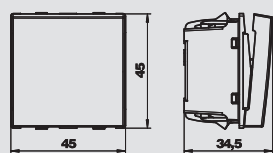


Changeover switch 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WS-B RW1	Pure white	10	2.600	6117 64 0
WS-B SWGR1	Black-grey	10	2.600	6117 64 2
WS-B AL1	Aluminium painted	10	2.600	6117 64 1

/pc.

Changeover switch 1-pin, 16 A, 250 V~, with screwless terminals.



Switching devices

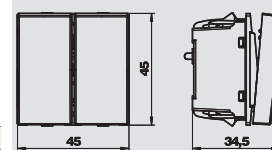


Series switch, 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SE-B RW1	Pure white	10	1.800	6117 61 5
SE-B SWGR1	Black-grey	10	1.800	6117 61 4
SE-B AL1	Aluminium painted	10	1.800	6117 61 6

/pc.

Serial switch, 16 A, 250 V~, with screwless terminals.

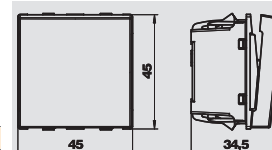


Cross switch 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
KS-B RW1	Pure white	10	1.900	6117 63 7
KS-B SWGR1	Black-grey	10	1.900	6117 63 9
KS-B AL1	Aluminium painted	10	1.900	6117 63 8

/pc.

Cross switch, 16 A, 250 V~, with screwless terminals.

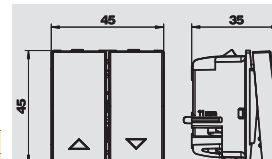


Roller blind button 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
RT-BS1 RW1	Pure white	10	3.700	6117 65 7
RT-BS1 SWGR1	Black-grey	10	3.700	6117 65 6
RT-BS1 AL1	Aluminium painted	10	3.700	6117 65 8

/pc.

Roller blind switch with electrical and mechanical locking, 1-pin, 10 A, 250 V~, with screwless terminals.

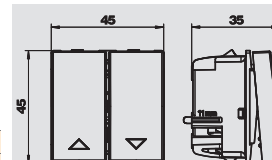


Roller blind switch, 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
RS-BS1 RW1	Pure white	10	3.700	6117 65 4
RS-BS1 SWGR1	Black-grey	10	3.700	6117 65 3
RS-BS1 AL1	Aluminium painted	10	3.700	6117 65 5

/pc.

Roller blind switch with electrical and mechanical lock, 1-pin, 10 A, 250 V~, with screwless terminals.



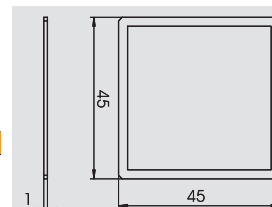
Adapter for switch installation rotated through 90°

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
AD-90G M45	1	0.400	6258 14 1

ST Steel

/pc.

The adapter allows switch installation rotated through 90° in, for example, installation columns with a 45 mm track or Rapid 45. Suitable for all switches and buttons in one module width (45 x 45 mm).



LED element

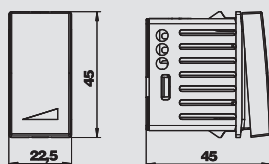
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
BE-LED B1RO	Red	10	1.100	6117 75 7
BE-LED B1GN	Green	10	1.100	6117 75 8

/pc.

LED element, 230 V~, 1.2 mA.

The LED illumination elements are only for switches/buttons with orientation illumination.





Touch dimmer 1/2 module width

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
TD-AB21 RW0.5	Pure white	1	2.300	6117 54 8
TD-AB21 SWGR0.5	Black-grey	1	2.300	6117 55 0
TD-AB21 AL0.5	Aluminium painted	1	2.300	6117 55 2

/pc.

Touch dimmer with memory for electronic transformers and ohmic loads.

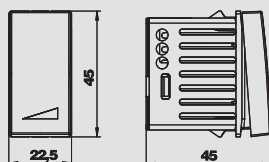
Technical data:

Phase section dimmer Load code R; C

Power supply 230 V, 50 Hz, 2-wire connection

Switching power: filament lamps 230 V: 25–210 W

Switching power, coiled transformers: 25–180 VA.



Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
TD-AN21 RW0.5	Pure white	1	2.300	6117 54 0
TD-AN21 SWGR0.5	Black-grey	1	2.300	6117 54 2
TD-AN21 AL0.5	Aluminium painted	1	2.300	6117 54 4

/pc.

Touch dimmer with memory for ohmic and inductive loads.

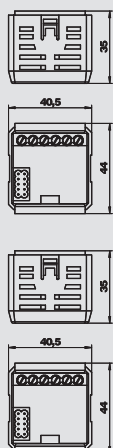
Technical data:

Phase section dimmer Load code R; L

Power supply 230 V, 50 Hz, 2-wire connection

Switching power: filament lamps 230 V: 25–210 W

Switching power, coiled transformers: 25–180 VA



Relay insert, 1/1 module width

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
RE-UW 1	1	4.640	6117 66 2

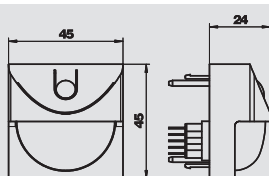
/pc.

Relay insert with changeover contact with extension input, 10 A, 230 VAC, suitable for room thermostat RTR-A, timer ZU-A and motion detector BM-A180 tops.

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
RE-U2K 1	1	4.640	6117 66 5

/pc.

Relay insert with 2 NO contacts with extension input, 4 A, 230 VAC, suitable for timer ZU-A and roller blind timer RZU-A tops.



Motion detector 180° top

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
BM-A180 RW1	Pure white	1	2.220	6117 37 0
BM-A180 SWGR1	Black-grey	1	2.220	6117 37 4
BM-A180 AL1	Aluminium painted	1	2.220	6117 37 2

/pc.

Top, passive infrared motion detector for Modul 45.

Recording angle: 180°, horizontal, vertical 20° upwards, vertical 50° downwards, for the angles 0–60° and 120–180°, vertical 35° downwards for the angles 70–110°, suitable for relay insert RE-UW.

Lens system:

Multi-lens, a double-sided sensor with mirror element

Range:

Radius 6 m

Mounting height:

Optimum concealed wall mounting in 0.8–1.2 m height

Structure height:

24 mm

Protection rating:

IP 20

Time setting:

Infinitely adjustable from 2 sec.–30 min.

Light sensor:

Infinitely adjustable from 2–1,000 lux, bright

Manual operation:

Switch on device to activate continuous light for 2 hours, irrespective of light value, with optical feedback by LED. When the continuous light time has elapsed, automatic return to Automatic operation.

Function:

press button = continuous light for 2 hours, red LED lit under the cover. Pressing the button again within 2 hours = continuous light function is cancelled, the detector switches back to Automatic operation, the red LED under the cover goes out. The light switches off quickly.





Electronic switching devices

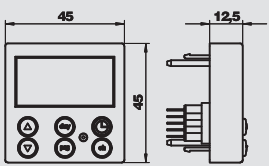


Timer switch top

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
ZU-A RW1	Pure white	1	2.660	6117 35 2
ZU-A SWGR1	Black-grey	1	2.660	6117 35 6
ZU-A AL1	Aluminium painted	1	2.660	6117 35 4

/pc.

Timer top, 24 switching times programmable for individual weekdays or blocks of days (Mon.–Fri., Sat.+Sun.) programmable, suitable for 1-channel relay insert RE-UW and 2-channel RE-U2K.

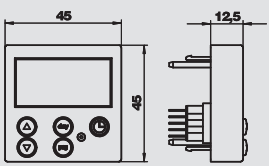


Roller blind timer top

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
RZU-A RW1	Pure white	1	2.570	6117 36 4
RZU-A SWGR1	Black-grey	1	2.570	6117 36 8
RZU-A AL 1	Aluminium painted	1	2.570	6117 36 6

/pc.

Roller blind timer top, 24 switching times programmable for individual weekdays or blocks of days (Mon.–Fri., Sat.+Sun.) programmable, suitable for 2-channel relay insert RE-U2K.

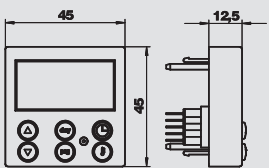


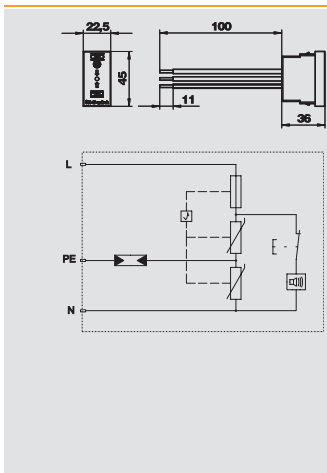
Room thermostat top

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
RTR-A RW1	Pure white	1	2.660	6117 35 8
RTR-A SWGR1	Black-grey	1	2.660	6117 36 2
RTR-A AL1	Aluminium painted	1	2.660	6117 36 0

/pc.

Room temperature controller top, two settable temperatures between 7 and 30 °C, frost protection temperature fixed 7 °C, 24 switching times for reduced temperature/presence for individual weekdays or blocks of days (Mon.–Fri., Sat.+Sun.) programmable, suitable for relay insert RE-UW.





Surge protection 1/2 module width, visual signalling

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
USS 45-O-RW	Pure white	1	2.411	6117 47 3
USS 45-O-ALU	Aluminium painted	1	2.411	6117 47 5

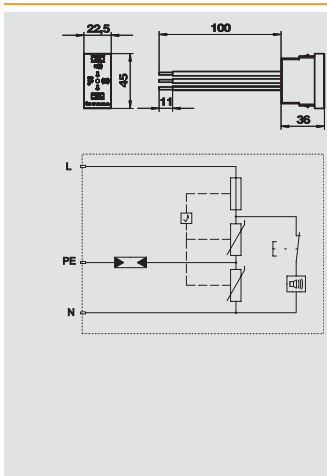
/pc.

For stationary installation in Rapid 45 trunking, device installation trunking and underfloor systems.

- Version -O with visual function display
- Quick and easy mounting
- Small width of 22.5 mm

Application: The correct installation of the surge protection device, which is performed by the electrical installer, secures individual sockets, but can also be used for protecting socket combinations.

Surge protection device type 3 (class D) to VDE 0675, Parts 6–11 (DIN EN 61643-11).



Surge protection 1/2 module width, acoustic signalling

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
USS 45-A-RW	Pure white	1	2.800	6117 46 5
USS 45-A-ALU	Aluminium painted	1	2.800	6117 46 7

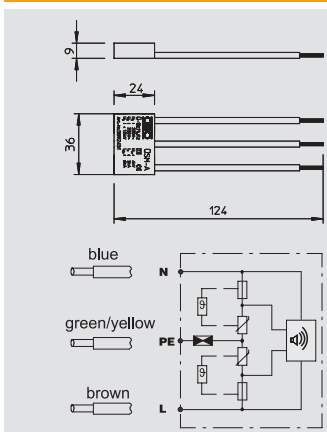
/pc.

For stationary installation in Rapid 45 trunking, device installation trunking and underfloor systems.

- Version -O with visual function display
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Surge protection device type 3 (class D) to VDE 0675, Parts 6–11 (DIN EN 61643-11).



Surge protection module, acoustic signalling

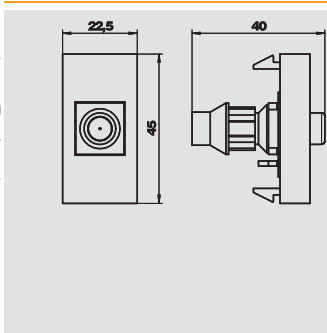
Type	Signalling on device	Pack. pcs	Weight kg/100 pcs.	Item No.
USM-A	Audible	1	1.500	5092 45 1

/pc.

Surge protection module type 3 (class D) to DIN EN 61643-11 (VDE 0675 Parts 6–11), fine protection device, for 230/400 V supplies.
For use on power sockets.

- With acoustic defect signal
- With low construction height
- Y circuit

Application: Universally applicable for all installation systems



Antenna socket SAT 1/2 module width

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
ANT-1S RW0.5	Pure white	1	2.250	6117 60 6
ANT-1S SWGR0.5	Black-grey	1	2.250	6117 61 0
ANT-1S AL0.5	Aluminium painted	1	2.250	6117 60 7

/pc.

Single socket for antennas, BK and satellite reception systems with SAT connection.

Frequency range: To 1 GHz
Through attenuation: Max. 0.055 dB



Connection accessories



Antenna socket 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
ANT-2E RW1	Pure white	10	8.100	6117 38 1
ANT-2E SWGR1	Black-grey	10	8.100	6117 38 3
ANT-2E AL1	Aluminium painted	10	8.100	6117 38 5

/pc.

Single socket for antenna, BK and satellite reception systems with connection for TV and radio.

Frequency: 5–862 MHz
Heat attenuation: 1 dB
Return channel attenuation: 14 dB
EMC protection class A



Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
ANT-2D RW1	Pure white	10	8.100	6117 38 7
ANT-2D SWGR1	Black-grey	10	8.100	6117 38 9
ANT-2D AL1	Aluminium painted	10	8.100	6117 39 1

/pc.

Through socket for antenna, BK and satellite reception systems with connection for TV and radio.

Frequency: 5–862 MHz
Through attenuation: 4 dB
Heat attenuation: 14 dB
EMC protection class A

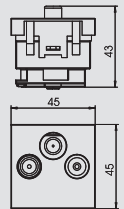
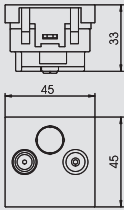
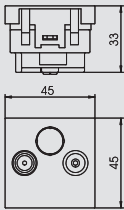


Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
ANT-3E RW1	Pure white	10	9.400	6117 39 3
ANT-3E SWGR1	Black-grey	10	9.400	6117 39 5
ANT-3E AL1	Aluminium painted	10	9.400	6117 39 7

/pc.

Single socket for antenna, BK and satellite reception systems with connection for TV, radio and SAT.

Frequency: 5–2050 MHz
Heat attenuation:
5-862 MHz – 1 dB
950-2050 MHz – 2 dB
Return channel attenuation: 14 dB
EMC protection class A

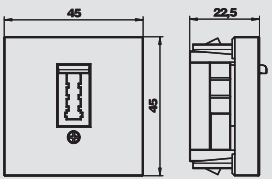


Telephone connection box 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
TAE-6F RW1	Pure white	10	2.000	6117 42 8
TAE-6F AL1	Aluminium painted	10	2.000	6117 43 0

/pc.

Telephone connection box TAE 6 F.

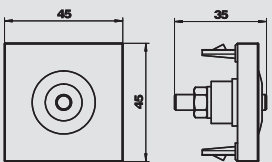


Equipotential bonding socket 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
PAD-LQ6 RW1	Pure white	1	5.400	6119 99 8
PAD-LQ6 SWGR1	Black-grey	1	5.400	6119 99 7
PAD-LQ6 AL1	Aluminium painted	1	5.400	6119 99 9

/pc.

Equipotential bonding socket to DIN 42 801 for the connection of an angular socket connector, type 1945, rear-sided connection with M6 screw bolts.

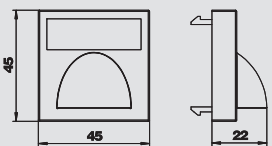


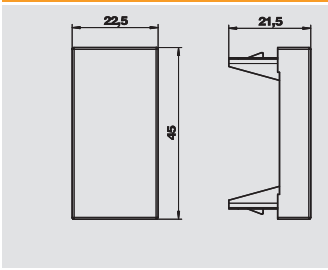
Cable outlet, 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
KA-ZKB RW1	Pure white	8	0.890	6117 98 5
KA-ZKB SWGR1	Black-grey	8	0.890	6117 98 6
KA-ZKB AL1	Aluminium painted	8	0.890	6117 98 7

/pc.

Cable outlet with strain relief via cable tie fastening.



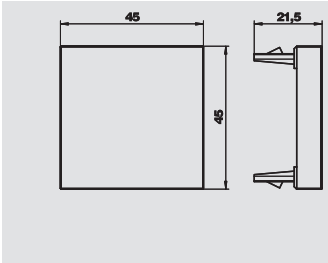


Blanking cover 1/2 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
ADP-B RW0.5	Pure white	10	0.400	6117 41 4
ADP-B SWGR0.5	Black-grey	10	0.400	6117 41 5
ADP-B AL0.5	Aluminium painted	10	0.400	6117 41 6

/pc.

Blanking cover for closing off empty spaces for half a device (1/2 module width).



Blanking cover 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
ADP-B RW1	Pure white	10	0.800	6117 40 6
ADP-B SWGR1	Black-grey	10	0.800	6117 40 7
ADP-B AL1	Aluminium painted	10	0.800	6117 40 8

/pc.

Blanking cover for closing off empty spaces for a device (one module width).





Brief info

Various connection modules for copper and fibre optic cabling are available for data technology installations. All the modules have a support plate, allowing standardised installation in the various data technology supports for the Modul 45 system.

There is a comprehensive range of Modul 45 data technology supports available to integrate data modules of various data technology manufacturers.

System description

Material: Polycarbonate

Mounting type: Connection modules in data technology support with support plate, data technology support installation with locking fastening

Versions: ½ and 1 module width

Colours (visible surfaces): Pure white RAL 9010, black-grey RAL 7021, varnished aluminium, similar to RAL 9006

Modul 45 data technology systems

	Connection module	Cat. 5 e Cat. 6e Fibre optic coupling Reducing frame	74
	Data technology support	Straight outlet Slanting outlet	74
	Safety system	Safe Clip Dust protection hinge Plug-in protector Connection protection	75
	Cross connect	Connector – connector version Connector – socket version	76
	Universal data technology support	Straight outlet Slanting outlet	77



Data connection modules and accessories

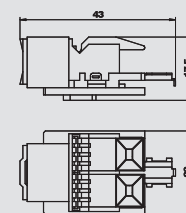


Data connection module with support plate, Cat. 5e

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
ASM-C5	1	1.120	6117 33 7

/pc.

Connection module with support plate, Cat. 5e unshielded, with an RJ 45 slot. Including a dust protection cap, a cable tie and mounting instructions.

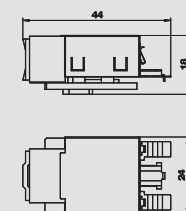


Data connection module with support plate, Cat. 5e shielded

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
ASM-C5 G	1	1.920	6117 32 5

/pc.

Connection module with support plate, Cat. 5e shielded, with an RJ 45 slot. Including an EMC screen hood, a dust protection cap, a cable tie and mounting instructions.

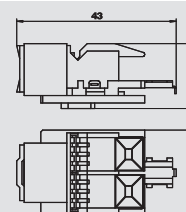


Data connection module with support plate, Cat. 6

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
ASM-C6	1	1.060	6117 34 1

/pc.

Connection module with support plate, Cat. 6 unshielded, with an RJ 45 slot. Including a dust protection cap, a cable tie and mounting instructions.

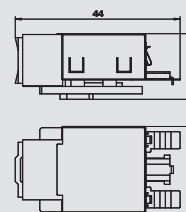


Data connection module with support plate, Cat. 6 shielded for 10GbE

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
ASM-C6 G	1	1.850	6117 32 9

/pc.

Connection module with support plate, Cat. 6 shielded for 10GbE, with an RJ 45 slot. Including an EMC screen hood, a dust protection cap, a cable tie and mounting instructions.

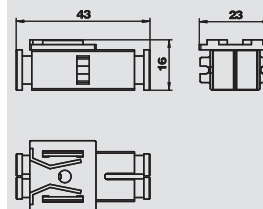


Fibre optic coupling with support plate

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
ASM-LWL K	1	0.095	6117 74 0

/pc.

Fibre optic coupling with support plate, single trunking module.
Scope of supply: coupling, support plate, two dust protection covers, one set of installation instructions, one description.
Scope of delivery: Coupling, carrier plate, 2 dust protection covers, installation instructions, 1 description

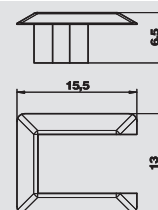


Reducing frame, RJ45 to RJ11/RJ12

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
DMZ-RR RJ11	Green	1	0.010	6117 97 2

/pc.

Reducing frame for RJ45 to RJ11/RJ12. Prevents unintentional insertion of RJ45 connectors (data) into an RJ45 socket, defined as a telephone socket (RJ11 connector).

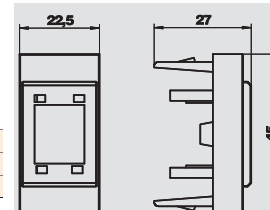


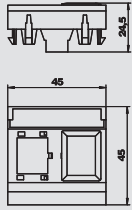
Data technology support 1/2 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
DMG-1RM RW0.5	Pure white	10	0.470	6117 29 2
DMG-1RM SWGR0.5	Black-grey	10	0.470	6117 29 1
DMG-1RM AL0.5	Aluminium painted	10	0.470	6117 29 3

/pc.

Data technology support with straight outlet to accept one connection module with support plate. The locking fastening is suitable for horizontal installation in the system environment.





Data technology support 1/1 module width

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
DMG-2RM RW1	White	10	1.100	6117 31 9
DMG-2RM SWGR1	Black-grey	10	1.100	6117 31 8
DMG-2RM AL1	Aluminium painted	10	1.100	6117 32 0

/pc.

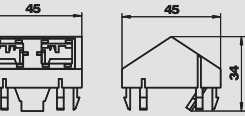
Data technology support with slanting outlet to accept two connection modules with support plate. The locking fastening is suitable for horizontal and vertical installation in the system environment.

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
DMS-2RM RW1	Pure white	10	0.855	6117 31 5
DMS-2RM AL1	Aluminium painted	10	0.855	6117 31 6
DMS-2RM SWGR1	Black-grey	10	0.855	6117 31 4

PC Polycarbonate

/pc.

Data technology support with slanting outlet to accept two connection modules with support plate. The locking fastening is suitable for horizontal and vertical installation in the system environment.

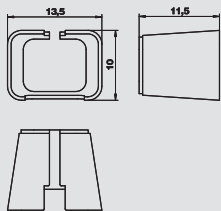
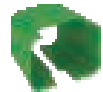


Safe clip

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
DMZ-SC GN	Green	20	0.040	6117 95 7
DMZ-SC RO	Red	20	0.040	6117 95 8

/pc.

Safe clip for visual colour coding of universal cables and CP cross connects.

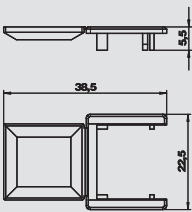


Hinge dust protection

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
DMZ-STTS W	White	10	0.058	6117 73 6
DMZ-STTS GN	Green	10	0.058	6117 73 7
DMZ-STTS RO	Red	10	0.058	6117 73 8

/pc.

Hinge dust protection for visual colour coding of the connection modules, for mounting on DMS and DMG data technology supports.



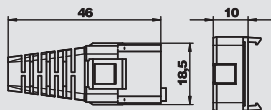
Mechanical and visual insertion protection

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
DMZ-ESMV CB	White	1	0.446	6117 70 8

/pc.

Mechanical and visual plug-in protector for RJ45 socket and RJ45 connector, socket side for mounting on DMS and DMG data technology support, "B" encoding for four different encodings with the colours yellow, brown, violet and white.

Note: During connector mounting, the adapter is only required for specific connector types.



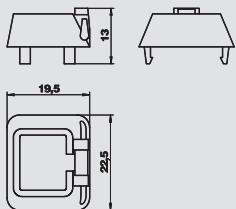
Connection protection

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
DMZ-AVS GN	Green	20	0.054	6117 72 4
DMZ-AVS RO	Red	20	0.054	6117 72 6
DMZ-AVS W	White	20	0.054	6117 72 8

/pc.

Connection protection as mechanical attachment protection and for visual colour coding of the connection modules, for mounting on DMS and DMG data technology supports, plug connection can only be released with the appropriate key, DMZ-SCHL AVS.

Note: The key, type DMZ-SCHL AVS, is not contained in the scope of delivery.



Data connection modules and accessories



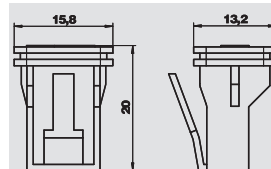
Plug-in protector for RJ45

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
DMZ-ES AVS	Black	1	0.049	6117 74 5

/pc.

Plug-in protector for connection protection, type DMZ-AVS, plug connection can only be released with the appropriate key, DMZ-SCHL AVS.

Note: The key, type DMZ-SCHL AVS, is not contained in the scope of delivery.

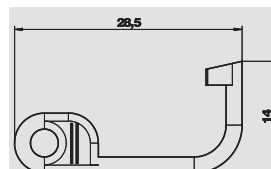


Key for connection protection

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
DMZ-SCHL AVS	Yellow	1	0.020	6117 73 2

/pc.

Key with fob for connection protection, type DMZ-AVS, plug connection can only be released with the key.



Universal cable, connector – connector version

Type	Cable length mm	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
RK-C5SF UTP1	1,000	Grey	10	4.530	6117 96 0
RK-C5SF UTP3	3,000	Grey	10	12.130	6117 96 2
RK-C5SF UTP5	5,000	Grey	10	19.730	6117 96 4

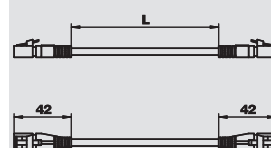
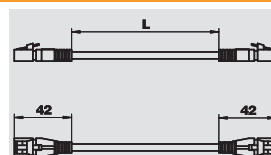
/pc.

Universal cable SF/UTP 4P, LSFRZH, Cat. 5, shielded, connector – connector version.

Type	Cable length mm	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
RK-C6S FTP1	1,000	Grey	10	4.530	6117 96 6
RK-C6S FTP3	3,000	Grey	10	12.130	6117 96 8
RK-C6S FTP5	5,000	Grey	10	19.730	6117 97 0

/pc.

Universal cable S/FTP 4P, LSFRZH, Cat. 6, shielded, connector – connector version.



CP cross connect, connector – socket version

Type	Cable length mm	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
CPK-C5SF UTP2	2,000	Grey	5	8.850	6117 93 8
CPK-C5SF UTP7.5	7,500	Grey	5	29.750	6117 94 0
CPK-C5SF UTP10	10,000	Grey	5	39.250	6117 94 2
CPK-C5SF UTP15	15,000	Grey	5	58.250	6117 94 4

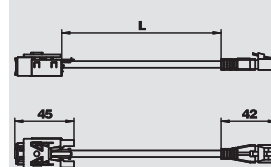
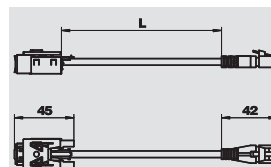
/pc.

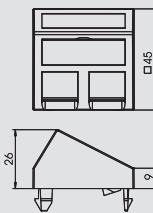
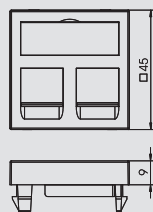
Universal cable as extension cable SF/UTP 4P, LSFRZH, Cat. 5, shielded, connector – socket version, socket side can be installable in the data technology support, types DMS and DMG.

Type	Cable length mm	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
CPK-C6S FTP2	2,000	Grey	5	9.240	6117 94 6
CPK-C6S FTP7.5	7,500	Grey	5	30.140	6117 94 8
CPK-C6S FTP10	10,000	Grey	5	39.640	6117 95 0
CPK-C6S FTP15	15,000	Grey	5	58.640	6117 95 2

/pc.

Universal cable as extension cable S/FTP 4P, LSFRZH, Cat. 6, shielded, connector – socket version, socket side can be installable in the data technology support, types DMS and DMG.





Data technology support Typ A, 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
DTG-2A RW1	Pure white	1	1.100	6119 20 2
DTG-2A SWGR1	Black-grey	1	1.100	6119 20 4
DTG-2A AL1	Aluminium painted	1	1.100	6119 20 6

PC Polycarbonate /pc.

Data technology support with straight outlet and locking slider to accept two data technology connection modules. The locking fastening is suitable for horizontal and vertical installation in the system environment.

Support plate, type A, to accept the following data connection modules: AMP TYCO: SL series 110Connect and Toolless, AMP-Twist (without dust protection cap); Brand-Rex: unshielded module; GG45; Nexans: LANmark with adapter clip.

Type A corresponds to a mounting opening in mm: 20.10 x 14.80.

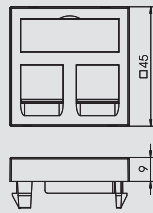
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
DTS-2A RW1	Pure white	1	1.500	6119 23 8
DTS-2A SWGR1	Black-grey	1	1.500	6119 24 0
DTS-2A AL1	Aluminium painted	1	1.500	6119 24 2

PC Polycarbonate /pc.

Data technology support with slanting outlet and lock slide to accept two data technology connection modules. The locking fastening is suitable for horizontal and vertical installation in the system environment.

Support plate, type A, to accept the following data connection modules: AMP TYCO: SL series 110Connect and Toolless, AMP-Twist (without dust protection cap); Brand-Rex: unshielded module; GG45; Nexans: LANmark with adapter clip.

Type A corresponds to a mounting opening in mm: 20.10 x 14.80.



Data technology support Typ B, 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
DTG-2B RW1	Pure white	1	1.100	6119 20 8
DTG-2B SWGR1	Black-grey	1	1.100	6119 21 0
DTG-2B AL1	Aluminium painted	1	1.100	6119 21 2

PC Polycarbonate /pc.

Data technology support with straight outlet and locking slider to accept two data technology connection modules. The locking fastening is suitable for horizontal and vertical installation in the system environment.

Support plate, type B, to accept the following data connection modules: BTR: E-DAT; Dätwyler: MS and MS-N; Kerpen: VarioKeystone.

Type B corresponds to a mounting opening in mm: 19.35/21.55 x 14.85.

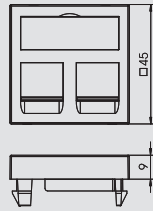
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
DTS-2B RW1	Pure white	1	1.500	6119 24 4
DTS-2B SWGR1	Black-grey	1	1.500	6119 24 6
DTS-2B AL1	Aluminium painted	1	1.500	6119 24 8

PC Polycarbonate /pc.

Data technology support with slanting outlet and lock slide to accept two data technology connection modules. The locking fastening is suitable for horizontal and vertical installation in the system environment.

Support plate, type B, to accept the following data connection modules: BTR: E-DAT; Dätwyler: MS and MS-N; Kerpen: VarioKeystone.

Type B corresponds to a mounting opening in mm: 19.35/21.55 x 14.85.



Data technology support Typ C, 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
DTG-2C RW1	Pure white	1	1.100	6119 21 4
DTG-2C SWGR1	Black-grey	1	1.100	6119 21 6
DTG-2C AL1	Aluminium painted	1	1.100	6119 21 8

PC Polycarbonate /pc.

Data technology support with straight outlet and locking slider to accept two data technology connection modules. The locking fastening is suitable for horizontal and vertical installation in the system environment.

Support plate, type C, to accept the following data connection modules: Brand-Rex: shielded module; Corning: modules with Keystone seat; Dätwyler: KS-T, MS-K and KU-T; ECU: E-Stone; R&M: Keystone; Rutenbeck: UM and UMflex; SETEC: UKJ and XKJ; Telegärtner: AMJ and UMJ.

Type C corresponds to a mounting opening in mm: 19.30 x 14.80.



Universal data technology support



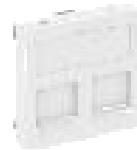
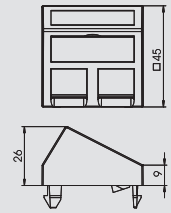
Data technology support Typ C, 1/1 module width

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
DTS-2C RW1	Pure white	1	1.500	6119 25 0
DTS-2C SWGR1	Black-grey	1	1.500	6119 25 2
DTS-2C AL1	Aluminium painted	1	1.500	6119 25 4

PC Polycarbonate /pc.

Data technology support with slanting outlet and lock slide to accept two data technology connection modules. The locking fastening is suitable for horizontal and vertical installation in the system environment.

Support plate, type C, to accept the following data connection modules: Brand-Rex: shielded module; Corning: modules with Keystone seat; Dätwyler: KS-T, MS-K and KU-T; ECU: E-Stone; R&M: Keystone; Rutenbeck: UM and UMflex; SETEC: UKJ and XKJ; Telegärtner: AMJ and UMJ. Type C corresponds to a mounting opening in mm: 19.30 x 14.80.



Data technology support Typ EP, 1/1 module width

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
DTG-2EP RW1	Pure white	1	1.100	6119 23 2
DTG-2EP SWGR1	Black-grey	1	1.100	6119 23 4
DTG-2EP AL1	Aluminium painted	1	1.100	6119 23 6

PC Polycarbonate /pc.

Data technology support with straight outlet and locking slider to accept two data technology connection modules. The locking fastening is suitable for horizontal and vertical installation in the system environment.

Support plate, type EP, to accept the following data connection modules: Leoni Kerpen: ELine Premium-System.

Type EP corresponds to a mounting opening in mm: 16.0 x 14.0.

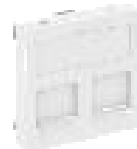
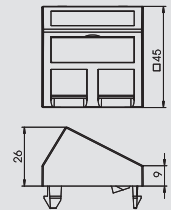
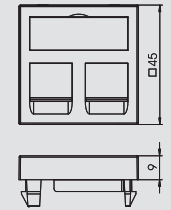
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
DTS-2EP RW1	Pure white	1	1.500	6119 26 8
DTS-2EP SWGR1	Black-grey	1	1.500	6119 27 0
DTS-2EP AL1	Aluminium painted	1	1.500	6119 27 2

PC Polycarbonate /pc.

Data technology support with slanting outlet and lock slide to accept two data technology connection modules. The locking fastening is suitable for horizontal and vertical installation in the system environment.

Support plate, type EP, to accept the following data connection modules: Leoni Kerpen: ELine Premium-System.

Type EP corresponds to a mounting opening in mm: 16.0 x 14.0.



Data technology support Typ F, 1/1 module width

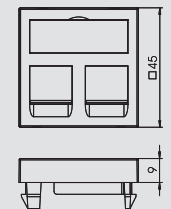
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
DTG-2F RW1	Pure white	1	1.100	6119 22 0
DTG-2F SWGR1	Black-grey	1	1.100	6119 22 2
DTG-2F AL1	Aluminium painted	1	1.100	6119 22 4

PC Polycarbonate /pc.

Data technology support with straight outlet and locking slider to accept two data technology connection modules. The locking fastening is suitable for horizontal and vertical installation in the system environment.

Support plate, type F, to accept the following data connection modules: Avaya/Systemax: M series.

Type F corresponds to a mounting opening in mm: 17.40 x 16.60.



Data technology support Typ PA, 1/1 module width

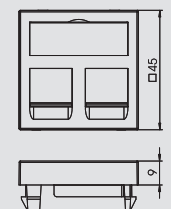
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
DTG-2PA RW1	Pure white	1	1.100	6119 22 6
DTG-2PA SWGR1	Black-grey	1	1.100	6119 22 8
DTG-2PA AL1	Aluminium painted	1	1.100	6119 23 0

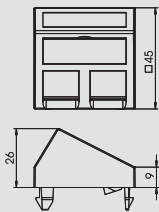
PC Polycarbonate /pc.

Data technology support with straight outlet and locking slider to accept two data technology connection modules. The locking fastening is suitable for horizontal and vertical installation in the system environment.

Support plate, type PA, to accept the following data connection modules: Panduit: Mini-Com.

Type PA corresponds to a mounting opening in mm: 18.4 x 16.0.





Data technology support Typ PA, 1/1 module width

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
DTS-2PA RW1	Pure white	1	1.500	6119 26 2
DTS-2PA SWGR1	Black-grey	1	1.500	6119 26 4
DTS-2PA AL1	Aluminium painted	1	1.500	6119 26 6

PC Polycarbonate /pc.

Data technology support with slanting outlet and lock slide to accept two data technology connection modules. The locking fastening is suitable for horizontal and vertical installation in the system environment.

Support plate, type PA, to accept the following data connection modules: Panduit: Mini-Com
Type PA corresponds to a mounting opening in mm: 18.4 x 16.0.





Brief info

The benefits of the Modul 45 system can also be taken advantage of in concealed and surface-mounted applications. Besides the standard device installation with a 71 mm combination spacing for concealed and cavity applications, OBO also offers system device installation specially for Modul 45 accessories. This permits device installations of between ½ and 3 module widths in one accessory socket.

For surface-mounted and cavity wall installation, a flexibly expandable system called Modal net is available, which can be used easily in cavity walls using the appropriate installation components.

System components

Concealed/cavity wall system

- Concealed device sockets
- Cavity wall accessory sockets
- Support plates
- Cover frame

Modal net surface-mounted/cavity system

- Surface-mounted housing
- Cavity wall installation material

System description

Concealed/cavity wall system

Device installation: Modul 45 accessories

Mounting type: Support plate on accessory socket with screw fastening, cover frame on support plate with locking fastening

Protection rating: IP20

Colours (visible surfaces): Pure white RAL 9010, black-grey RAL 7021, varnished aluminium, similar to RAL 9006

Modal net surface-mounted system

Device installation: Modul 45 accessories, protection unit

Mounting type: Cover on housing base with locking fastening

Protection rating: IP20

Colours (visible surfaces): Pure white RAL 9010, black-grey RAL 7021, varnished aluminium, similar to RAL 9006

Modul 45 concealed and surface-mounted adapter systems

	Standard device installation 71 mm	Concealed accessory socket Signal cover Cavity wall socket Support plate Cover frame	82
	System device installation, single	Concealed socket Signal cover Cavity wall socket Support plate Cover frame	84
	System device installation, double	Concealed socket Signal cover Cavity wall socket Support plate Cover frame	85
	System device installation, triple	Concealed socket Signal cover Cavity wall socket Support plate Cover frame	86
	Modal net – surface-mounted housing	Basic configuration, double Expansion module, single	87
	Modal net – cavity wall installation	Cavity wall support Screen frame	87
	Modal net – accessories	Cover frame, double Cover frame, 2x single Protection insulation Glow lamp element	88



Standard device installation for Modul 45 with 71 mm combination spacing



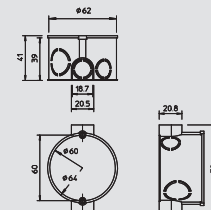
Concealed accessory socket

Type	Colour	Height mm	Ø mm	Box Quantity pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
UG 60 D	Black	40	60	300	25	1.490	2003 01 5

PS Polystyrene

price/100 pc.

Accessory socket with torsion-resistant guaranteed standard combination spacing of 71 mm (to DIN 49 073-1) through snap-lock coupling. 7 Break-out openings for cables and pipes Ø 20 mm and Ø 25 mm. Combinable for spreading and screw fastening, low-laying plaster holders, device screw spacing 60 mm, for screw fastening with self-tapping screws 3.2 mm, with two screw domes without screws, protection rating IP20.



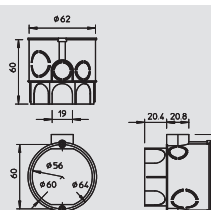
Concealed device/connection socket

Type	Colour	Height mm	Ø mm	Box Quantity pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
UG 60 VD	Black	60	60	200	25	1.800	2003 01 9

PS Polystyrene

price/100 pc.

Accessory/connection socket with torsion-resistant guaranteed standard combination spacing of 71 mm (to DIN 49 073-1) through snap-lock coupling. 13 break-out openings for cables and pipes Ø 20 mm and Ø 25 mm. Combinable for spreading and screw fastening, low-laying plaster holders, device screw spacing 60 mm, for screw fastening with self-tapping screws 3.2 mm, with two screw domes without screws, protection rating IP20.



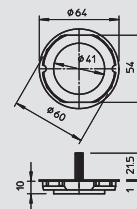
Signal cover

Type	Colour	Ø max.	Box Quantity pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
UG 60 SD	Red	60	500	50	0.550	2003 31 7

PE Polyethylene

price/100 pc.

Signal covers protect the interior, the screw domes and screw heads on plastering. The marking bristles allow simple location of the sockets and boxes after plastering. The signal covers can be used several times. After plastering, simply push the cover into the socket and remove the signal cover.



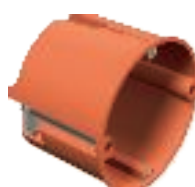
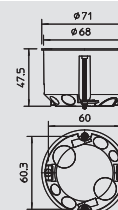
Cavity wall accessory socket

Type	Colour	Milling hole Ø mm	Height mm	Ø mm	Box Quantity pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
HG 60	Orange	68	47	68	250	25	2.240	2003 41 4

PP Polypropylene

price/100 pc.

Cavity wall accessory socket. Dimensions to DIN 49073-1, for plate thickness 7-35 mm. Standard combination spacing 71 mm, option for continuous wiring using connection support for combinations between accessory sockets and accessory connection sockets, 8 break-out openings for NYM cables, data cables and pipes Ø 20 mm, accessory sockets can also be used as connection sockets to VDE 0606-1 with double bolt fastening and screw-on cover, protection rating IP30.



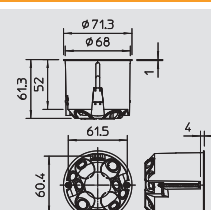
Cavity wall device/connection socket

Type	Colour	Milling hole Ø mm	Height mm	Ø mm	Box Quantity pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
HV 60	Orange	68	61	68	200	25	2.740	2003 44 2

PP Polypropylene

price/100 pc.

Cavity wall accessory/connection socket. Dimensions to DIN 49073-1, for plate thickness 7-35 mm. Standard combination spacing 71 mm, option for continuous wiring using connection support for combinations between accessory sockets and accessory connection sockets, 8 break-out openings for NYM cables, data cables and pipes Ø 20 mm, accessory sockets can also be used as connection sockets to VDE 0606-1 with double bolts fastening and screw-on cover, protection rating IP30.



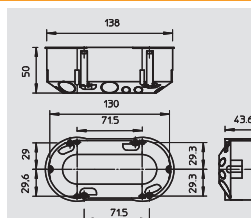
Cavity wall, double accessory socket

Type	Installation type	Colour	Box Quantity pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
HG 60 2	Cavity wall	Orange	100	10	4.850	2003 42 2

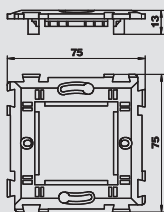
PP Polypropylene

price/100 pc.

Double accessory socket, for two service units or one double service unit, with four device bolts. Dimensions to DIN 49073-1, for plate thickness 7-35 mm. Standard combination spacing 71 mm, 14 break-out openings for NYM cables, data cables and pipes Ø 20 mm, protection rating IP30.



Standard device installation for Modul 45 with 71 mm combination spacing

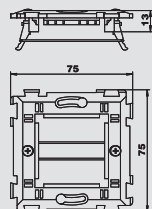


Support plate Modul 45 without fastening claw

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
TG-UP80M1	Transparent	10	1.050	6119 93 4

/pc.

Support plate to accept Modul 45 devices of up to 1 module width = 45 mm, for mounting with device screws on a standard concealed/cavity wall accessory socket.

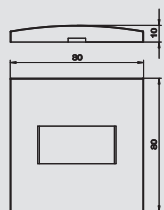


Support plate Modul 45 with fastening claw

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
TG-UP80M1S	Transparent	10	1.850	6119 93 6

/pc.

Support plate with spreading claw to accept Modul 45 devices of up to 1 module width = 45 mm, for mounting on a standard concealed/cavity wall accessory socket.

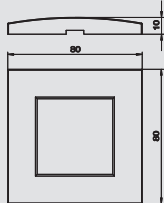


Modul 45 cover frame, single

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
ADR-UP80M0.5 RW	Pure white	1	1.900	6119 98 2
ADR-UP80M0.5SWGR	Black-grey	1	1.900	6119 98 3
ADR-UP80M0.5 AL	Aluminium painted	1	1.900	6119 98 4

/pc.

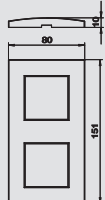
Cover frame for Modul 45 accessories with 1/2 module width = 22.5 mm, for locking on a support plate TG-UP80M1.



Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
ADR-UP80M1 RW	Pure white	1	1.460	6119 98 6
ADR-UP80M1 SWGR	Black-grey	1	1.460	6119 98 7
ADR-UP80M1 AL	Aluminium painted	1	1.460	6119 98 8

/pc.

Cover frame for Modul 45 accessories with 1 module width = 45 mm, for locking on a support plate TG-UP80M1.



Modul 45 cover frame, 2x single

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
ADR-UP80M2 RW	Pure white	1	2.540	6119 99 0
ADR-UP80M2 SWGR	Black-grey	1	2.540	6119 99 2
ADR-UP80M2 AL	Aluminium painted	1	2.540	6119 99 1

/pc.

Cover frame 2x single for Modul 45 accessories with 1 module width = 45 mm, for locking on an device combination with two support plates TG-UP80M1.



Modul 45 cover frame, 3x single

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
ADR-UP80M3 RW	Pure white	1	3.670	6119 99 4
ADR-UP80M3 SWGR	Black-grey	1	3.670	6119 99 6
ADR-UP80M3 AL	Aluminium painted	1	3.670	6119 99 5

/pc.

Cover frame 3x single for Modul 45 accessories with 1 module width = 45 mm, for locking on an device combination with three support plates TG-UP80M1.



Modul 45 system device installation, single



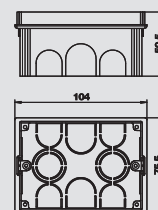
Concealed accessory socket Modul 45, single

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
UG-UPM1	Natural	1	3.200	6119 94 0

/pc.

Concealed accessory socket, rectangular, to accept support plates, type TG-UPM1, for Modul 45 devices of up to 1.5x module width = 67.5 mm, with breakable openings for cables and pipes.

Note: Always plaster the concealed accessory socket together with the appropriate plaster cover.

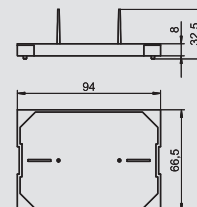


Signal cover for Modul 45 accessory socket, single

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
PD-UPM1	Red	1	0.550	6119 94 5

/pc.

The signal cover for the concealed accessory socket UG-UGM1 protects the interior, the bolt domes and bolt heads on plastering. The marking bristles allow simple location of the sockets after plastering. The signal covers can be used several times. After plastering, simply push the cover into the socket and remove the signal cover.

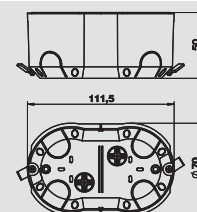


Modul 45 cavity wall accessory socket, single

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
HG-UPM1	Blue	1	3.300	6119 95 0

/pc.

Cavity wall accessory socket, oval, to accept support plates, type TG-UPM1, for Modul 45 devices of up to 1.5x module width = 67.5 mm, drill hole diameter 68 mm, hole spacing 45 mm.

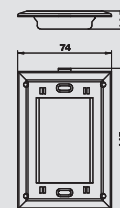


Support plate for Modul 45 accessory socket, single

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
TG-UPM1	Transparent	1	2.350	6119 95 5

/pc.

Support plate to accept Modul 45 devices of up to 1.5 module width = 67.5 mm, for mounting on the concealed accessory socket UG-UPM1 and cavity wall accessory socket HG-UPM1.



Cover frame for Modul 45 accessory socket, single

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
ADR-UPM0.5 RW	Pure white	1	2.100	6119 96 0
ADR-UPM0.5 SWGR	Black-grey	1	2.100	6119 96 1
ADR-UPM0.5 AL	Aluminium painted	1	2.100	6119 96 2

/pc.

Cover frame for Modul 45 accessories with 1/2 module width = 22.5 mm, for locking on a support plate TG-UPM1.

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
ADR-UPM1 RW	Pure white	1	1.900	6119 96 4
ADR-UPM1 SWGR	Black-grey	1	1.900	6119 96 5
ADR-UPM1 AL	Aluminium painted	1	1.900	6119 96 6

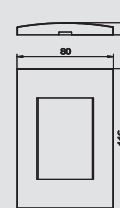
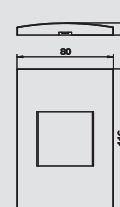
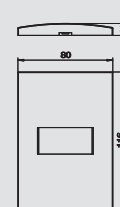
/pc.

Cover frame for Modul 45 accessories with 1 module width = 45 mm, for locking on a support plate TG-UPM1.

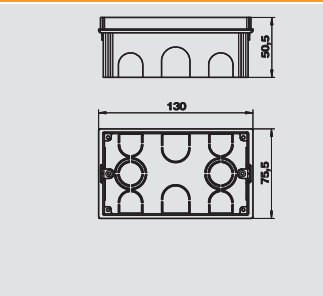
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
ADR-UPM1.5 RW	Pure white	1	1.700	6119 96 8
ADR-UPM1.5 SWGR	Black-grey	1	1.700	6119 96 9
ADR-UPM1.5 AL	Aluminium painted	1	1.700	6119 97 0

/pc.

Cover frame for Modul 45 accessories with 1.5 module width = 67.5 mm, for locking on a support plate TG-UPM1.



Modul 45 system device installation, double

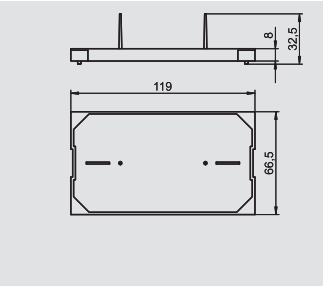


Concealed accessory socket Modul 45, double

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
UG-UPM2	Natural	1	4.550	6119 94 1

/pc.

Concealed accessory socket, rectangular, to accept support plates, type TG-UPM2, for Modul 45 devices of up to 2x module width = 90 mm, with breakable openings for cables and pipes.
Note: Always plaster the concealed accessory socket together with the appropriate plaster cover.

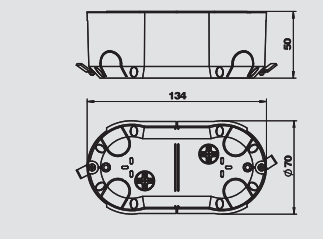


Signal cover for Modul 45 accessory socket, double

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
PD-UPM2	Red	1	0.098	6119 94 6

/pc.

The signal cover for the concealed accessory socket UG-UGM2 protects the interior, the bolt domes and bolt heads on plastering. The marking bristles allow simple location of the sockets after plastering. The signal covers can be used several times. After plastering, simply push the cover into the socket and remove the signal cover.

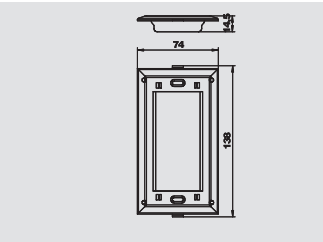
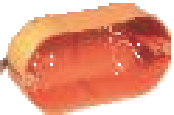


Modul 45 cavity wall accessory socket, double

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
HG-UPM2	Blue	1	4.600	6119 95 1

/pc.

Cavity wall accessory socket, oval, to accept support plates, type TG-UPM2, for Modul 45 devices of up to 2x module width = 90 mm, drill hole diameter 68 mm, hole spacing 68 mm.

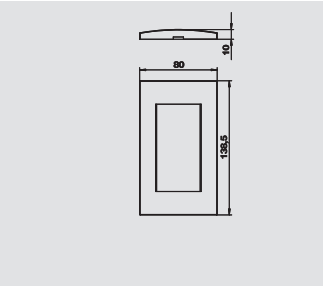


Support plate for Modul 45 accessory socket, double

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
TG-UPM2	Transparent	1	2.550	6119 95 6

/pc.

Support plate to accept Modul 45 devices of up to 2x module width = 90 mm, for mounting on the concealed accessory socket UG-UPM2 and cavity wall accessory socket HG-UPM2.



Cover frame for Modul 45 accessory socket, double

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
ADR-UPM2 RW	Pure white	1	1.880	6119 97 2
ADR-UPM2 SWGR	Black-grey	1	1.880	6119 97 3
ADR-UPM2 AL	Aluminium painted	1	1.880	6119 97 4

/pc.

Cover frame for Modul 45 accessories with 2x module width = 90 mm, for locking on a support plate TG-UPM2.



Modul 45 system device installation, triple

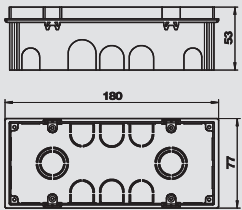


Concealed accessory socket Modul 45, triple

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
UG-UPM3	Natural	1	6.220	6119 94 3

/pc.

Concealed accessory socket, rectangular, to accept support plates, type TG-UPM3, for Modul 45 devices of up to 3x module width = 135 mm, with breakable openings for cables and pipes.
Note: Always plaster the concealed accessory socket together with the appropriate plaster cover.

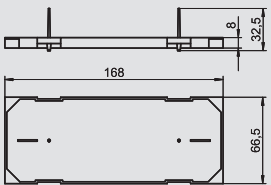


Signal cover for Modul 45 accessory socket, triple

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
PD-UPM3	Red	1	1.300	6119 94 7

/pc.

The signal cover for the concealed accessory socket UG-UGM3 protects the interior, the bolt domes and bolt heads on plastering. The marking bristles allow simple location of the sockets after plastering. The signal covers can be used several times. After plastering, simply push the cover into the socket and remove the signal cover.

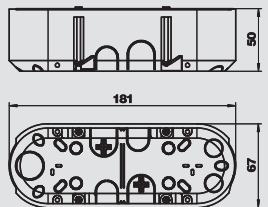


Modul 45 cavity wall accessory socket, triple

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
HG-UPM3	Blue	1	6.300	6119 95 2

/pc.

Cavity wall accessory socket, oval, to accept support plates, type TG-UPM3, for Modul 45 devices of up to 3x module width = 135 mm, drill hole diameter 68 mm, hole spacing 112 mm.

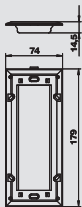


Support plate for Modul 45 accessory socket, triple

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
TG-UPM3	Transparent	1	3.650	6119 95 7

/pc.

Support plate to accept Modul 45 devices of up to 3x module width = 135 mm, for mounting on the concealed accessory socket UG-UPM3 and cavity wall accessory socket HG-UPM3.

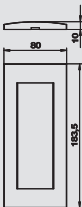


Cover frame for Modul 45 accessory socket, triple

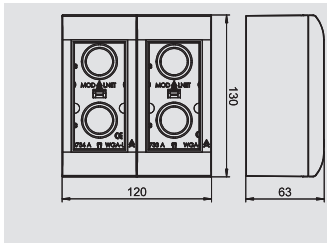
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
ADR-UPM3 RW	Pure white	1	3.000	6119 97 6
ADR-UPM3 SWGR	Black-grey	1	3.000	6119 97 7
ADR-UPM3 AL	Aluminium painted	1	3.000	6119 97 8

/pc.

Cover frame for Modul 45 accessories with 3x module width = 135 mm, for locking on a support plate TG-UPM3.



Modal net – surface-mounted and cavity wall system



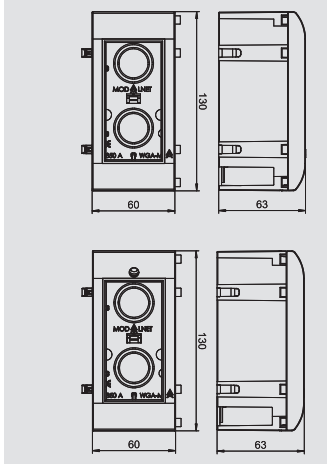
Modal net housing, basic configuration

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WG-AK RW	Pure white	1	35.000	6109 90 0

PC Polycarbonate

/pc.

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



Modal net housing, expansion module

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WG-MK RW	Pure white	1	17.500	6109 90 5

PC Polycarbonate

/pc.

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

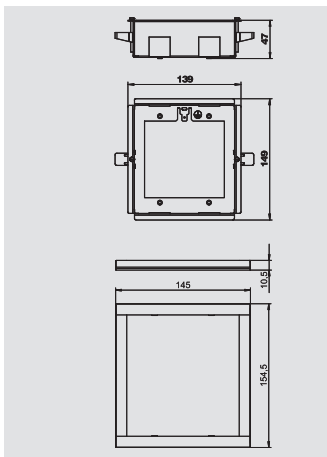
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WG-MKL RW	Pure white	1	17.500	6109 90 9

PC Polycarbonate

/pc.

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

Note: The lighting element (type BE-GL B1OR) is not contained in the scope of delivery.



Modal net cavity wall installation, double

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
WG-UK2	1	31.000	6109 95 0

ST Steel **FS** Strip-galvanised

/pc.

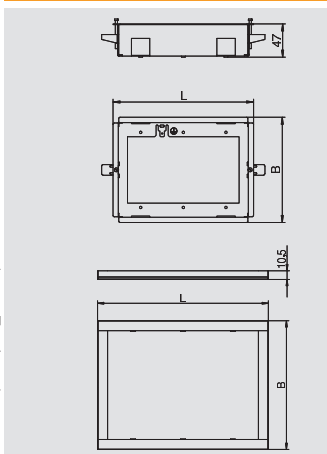
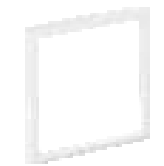
Metal cavity wall support to accept the Modal net housing .

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WG-UBR2 RW	Pure white	1	4.400	6109 93 4

PC Polycarbonate

/pc.

Screen frame for placing on the cavity wall support .



Modal net cavity wall installation, triple

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
WG-UK3	1	35.000	6109 95 2

ST Steel **FS** Strip-galvanised

/pc.

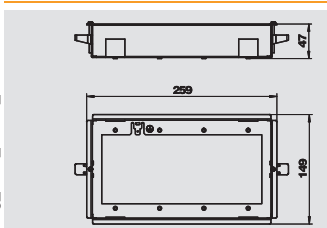
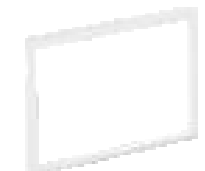
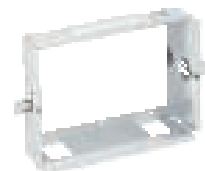
Metal cavity wall support to accept the Modal net housing .

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WG-UBR3 RW	Pure white	1	4.500	6109 93 6

PC Polycarbonate

/pc.

Screen frame for placing on the cavity wall support .



Modal net cavity wall installation, 4x

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
WG-UK4	1	39.000	6109 95 4

ST Steel **FS** Strip-galvanised

/pc.

Metal cavity wall support to accept the Modal net housing .



Modul 45 concealed and surface-mounted adapter systems

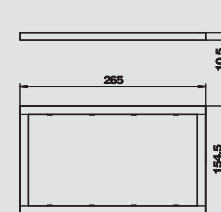


Modal net – surface-mounted and cavity wall system

Modal net cavity wall installation, 4x



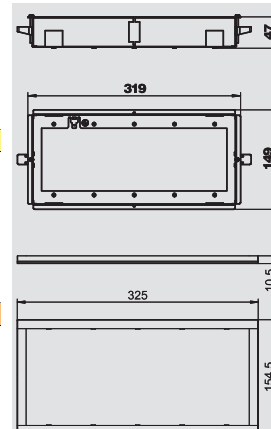
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
WG-UBR4 RW	Pure white	1	4.600	6109 93 8
PC Polycarbonate				/pc.
Screen frame for placing on the cavity wall support .				



Modal net cavity wall installation, 5x



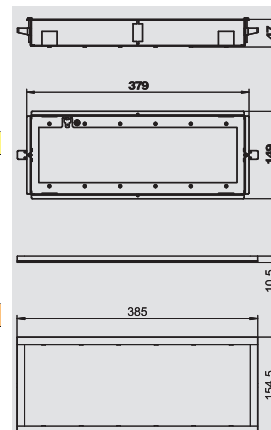
Type		Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WG-UK5		1	43.000	6109 95 6
ST Steel	FS Strip-galvanised			/pc.
Metal cavity wall support to accept the Modal net housing .				
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WG-UBR5 RW Pure white		1	4.700	6109 94 0
PC Polycarbonate				/pc.
Screen frame for placing on the cavity wall support .				



Modal net cavity wall installation, 6x



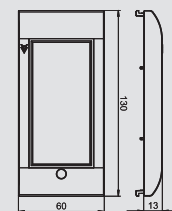
Type	Pack.	Weight	Item No.	
	pcs	kg/100 pcs.		
WG-UK6	1	47.000	6109 95 8	
ST Steel	FS Strip-galvanised		/pc.	
Metal cavity wall support to accept the Modal net housing .				
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WG-UBR6 RW	Pure white	1	4.800	6109 94 2
PC Polycarbonate				/pc.
Screen frame for placing on the cavity wall support .				



Modal net cover frame, Modul 45, double



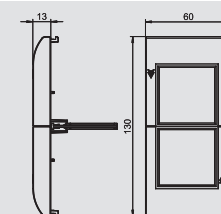
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
WG-AF2L RW	Pure white	6	2.620	6109 92 4
PC Polycarbonate				/pc.
Cover frame with control light to accept Modul 45 accessories of 2x module width = 90 mm. Note: The lighting element (type BE-GL/B1OR) is not contained in the scope of delivery.				



Modal net cover frame, Modul 45, 2x single



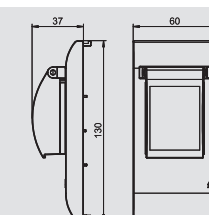
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
WG-AF11TW RW	Pure white	1	3.370	6109 92 7
PC Polycarbonate				/pc.
2x single cover frame with separating retainer to accept two Modul 45 accessories in 1 module width = 45 mm. Allows secure separation of various current types and circuits in one Modal net housing.				



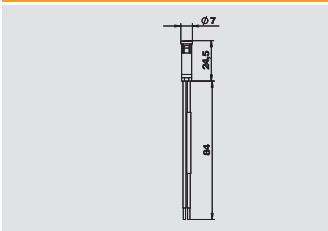
Modal net protection unit installation



Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
WG-AF2TE RW	Pure white	1	7.500	6109 93 2
PC Polycarbonate				/pc.
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.				



Modal net – surface-mounted and cavity wall system



		Glow lamp element		
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
BE-GL B1OR	Orange	1	2.200	6117 98 0
				/pc.

Glow lamp element 230 V~ with red-orange light colour.





Brief info

Wherever something is needed: capable of being individually fitted with Modul 45 data and communication connections, sockets and switches, the Deskbox makes it possible. The box's curved shape makes it a refreshing addition to any desk. It combines the Flexkanal to create a visually and technically appealing solution.

System components

Deskbox
Flexkanal
Base outlet

System description

Deskbox
Material: PC, halogen-free
Device installation: Modul 45 accessories
Protection rating: IP20
Colours: Pure white RAL 9010, light grey RAL 7035, anthracite grey RAL 7016, varnished aluminium, similar to RAL 9006

Workplace systems

	Deskboxes and accessories	For 4 Modul 45 accessories For 8 Modul 45 accessories Deskbox fastening	92
	Flexkanal and accessories	Flexkanal Flexkanal fastening Floor rail T piece	92
	Base outlet for Flexkanal	Round Rectangular with Lamella Rectangular With T piece	93
	Fastening bracket for Flexkanal	In GES service units In GESRM2 service units	94

Deskboxes and Flexkanal

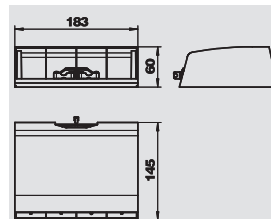


Deskbox for four Modul 45 devices

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
DSK-LG4M RW	Pure white	1	21.580	6117 51 0
DSK-LG4M BL	Blue	1	21.580	6117 51 1
DSK-LG4M LGR	Light grey	1	21.580	6117 51 2
DSK-LG4M ATHGR	Anthracite grey	1	21.580	6117 51 4
DSK-LG4M AL	Aluminium painted	1	21.580	6117 51 6

/pc.

Empty Deskbox, suitable for flexible installation of eight Modul 45 devices (45 x 45 mm). With pre-marked openings on the sides and opened rear wall for the connection of Flexkanal. Strain relief and the Flexkanal holder are pre-mounted.

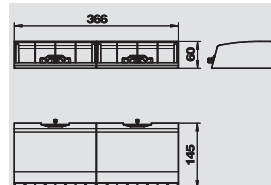


Deskbox for eight Modul 45 devices

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
DSK-LG8M RW	Pure white	1	86.450	6117 52 1
DSK-LG8M BL	Blue	1	86.450	6117 52 2
DSK-LG8M LGR	Light grey	1	86.450	6117 52 3
DSK-LG8M ATHGR	Anthracite grey	1	86.450	6117 52 5
DSK-LG8M AL	Aluminium painted	1	86.450	6117 52 7

/pc.

Empty Deskbox, suitable for flexible installation of eight Modul 45 devices (45 x 45 mm). With pre-marked openings on the sides and opened rear wall for the connection of Flexkanal. Strain relief and the Flexkanal holder are pre-mounted.

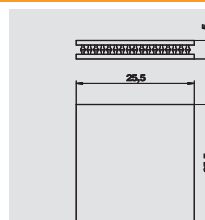


Velcro strip for Deskbox

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DSK-KLB	10	0.300	6117 53 8

/pc.

The Velcro strip is used to fasten the boxes to or under the workstation.



Flexkanal

Type	Length	Colour	Pack.	Weight	Item No.
	mm		m	kg/100 m	
FLK-2K CRW	1,000	White	1	28.760	6154 92 0
FLK-2K LGR	1,000	Light grey	1	28.760	6154 92 2
FLK-2K BL	1,000	Ultramarine blue	1	28.760	6154 92 4
FLK-2K SWGR	1,000	Black-grey	1	28.760	6154 93 0

/m

The Flexkanal runs your cables ordered and protected to the desk. It connects the Deskbox with the dado duct or with the floor connection box. When extended, the Flexkanal is 1,000 mm long, 60 mm wide and 20 mm high.

The trunking consists of two chambers, capacity per chamber:
two cables of 8.5 mm diameter or three cables of 7.5 mm diameter or
four cables of 7.0 mm diameter or five cables of 6.0 mm diameter.

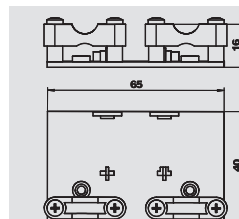


Holder with strain relief for Flexkanal

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
FLK-HL ZL	Anthracite grey	1	1.030	6154 96 1

/pc.

The holder possesses two integrated strain reliefs and can be screwed on. A Flexkanal can be mounted directly on the holder.

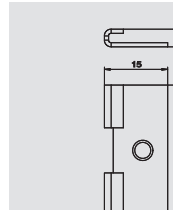


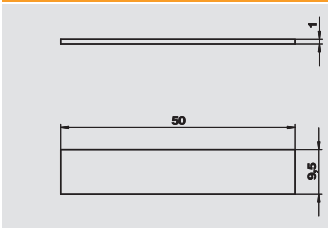
Fastening clamp for Flexkanal

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
FLK-BEF	1	0.146	6154 96 8
Al Aluminium			

/pc.

The Flexkanal is suspended from the fastening clamp. The holder is fastened using a counter-sunk union.



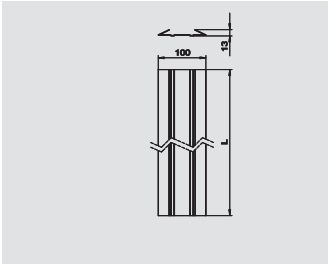


Adhesive tapes for Flexkanal

Type	Length	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
FLK-KL	50	1	0.100	6154 97 1

/pc.

Adhesive tape for fastening the Flexkanal.

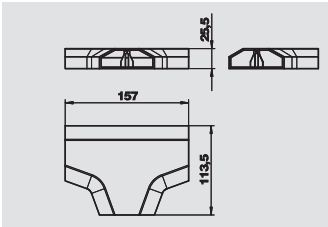


Floor rail for Flexkanal

Type	Length	Colour	Pack.	Weight	Item No.
	mm		pcs	kg/100 pcs.	
FLK-BS1	1,000	Anthracite grey	1	24.800	6154 98 0
FLK-BS2	2,000	Anthracite grey	1	49.500	6154 98 3

/pc.

The Flexkanal is pushed directly into the floor rail. The ramp on both sides reduces the risk of stumbling.

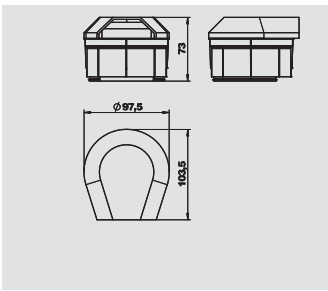


T branch for Flexkanal

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
FLK-TAZ	Anthracite grey	1	8.680	6154 96 5

/pc.

T branch for supply of working places with the Flexkanal.



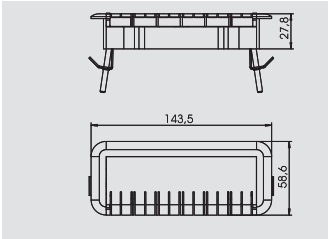
Round base outlet for Flexkanal

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
BAL-FLK R	Anthracite grey	1	7.700	6154 99 0

/pc.

Base outlet for mounting in raised floors – the Flexkanal can be directly connected to the base outlet.

Drilling diameter: 95 mm

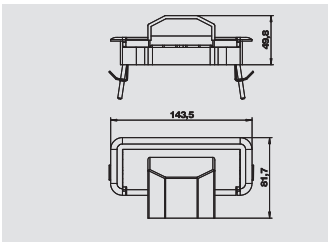


Rectangular base outlet with lamella for Flexkanal

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
BAL-L	Anthracite grey	1	7.000	6154 99 4

/pc.

Base outlet for mounting in raised floors – the Flexkanal can be directly connected to the base outlet.

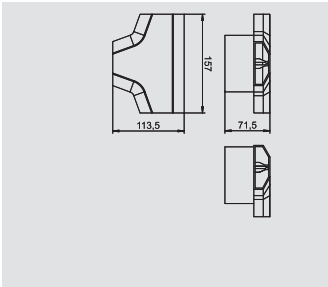


Rectangular base outlet for Flexkanal

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
BAL-FLK E	Anthracite grey	1	7.200	6154 99 2

/pc.

Base outlet for mounting in raised floors – the Flexkanal can be directly connected to the base outlet.



Base outlet with T branch for Flexkanal

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
BAL-FLK TAZ	Anthracite grey	1	12.600	6154 97 5

/pc.

Base outlet for mounting in raised floors – the Flexkanal can be directly connected to the base outlet, complete with T branch.

Drilling diameter: 95 mm.



Deskboxes and Flexkanal



Fastening bracket for Flexkanal in GES service units

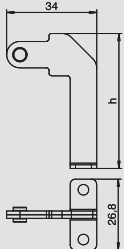
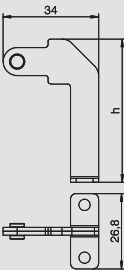
Type	Material symbol	Pack. pcs	Weight kg/100 pcs.	Item No.
FKH GES5	St	1	1.800	7407 86 0

ST Steel FS Strip-galvanised /pc.
Fastening bracket to connect a Flexkanal to a GES service unit with 5 mm floor covering recess.



Type	Material symbol	Pack. pcs	Weight kg/100 pcs.	Item No.
FKH GES10	St	1	2.000	7407 86 2

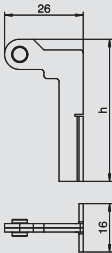
ST Steel FS Strip-galvanised /pc.
Fastening bracket to connect a Flexkanal to a GES service unit with 10 mm floor covering recess.

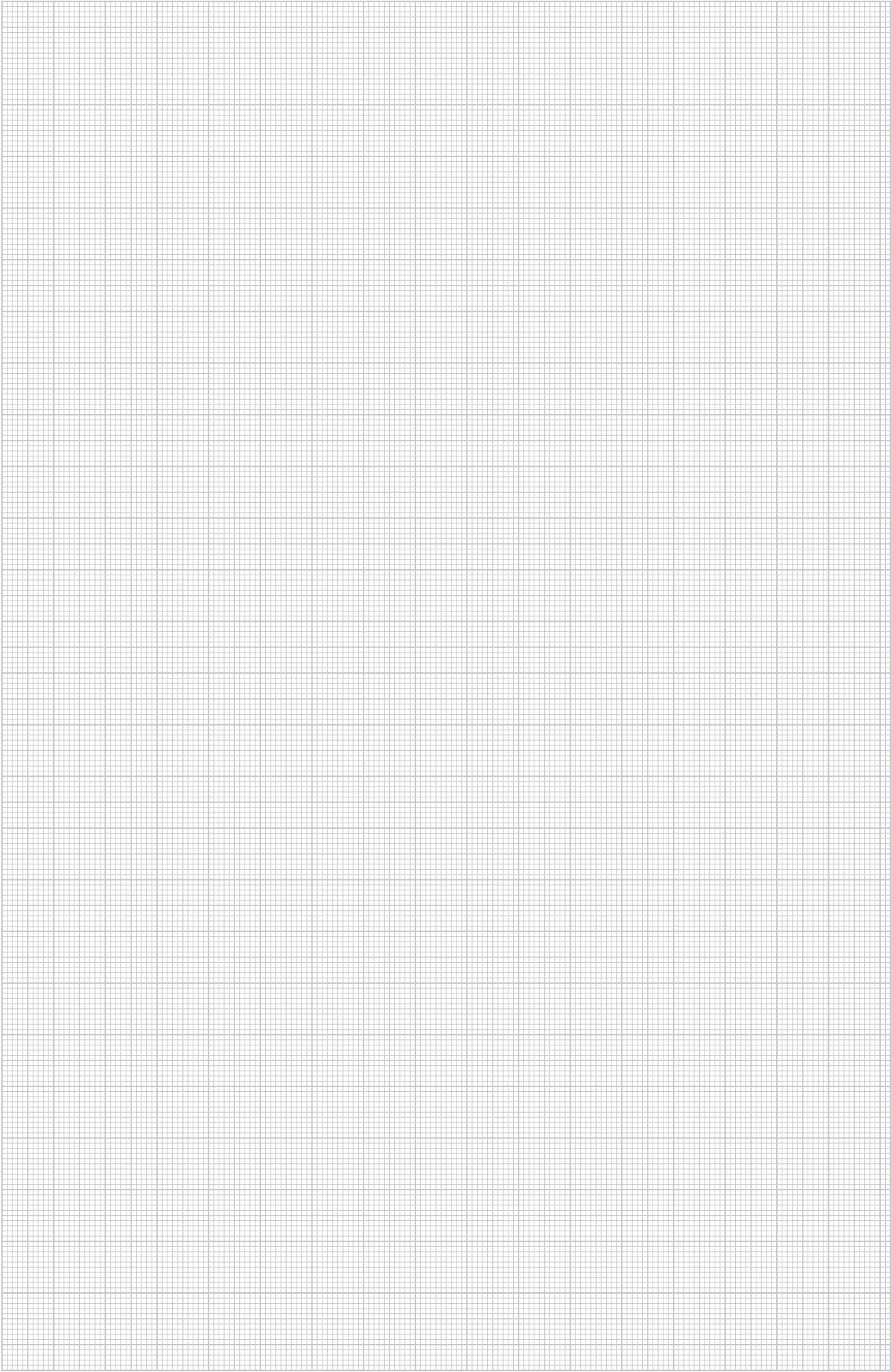


Fastening bracket for Flexkanal in GESRM2 service units

Type	Material symbol	Pack. pcs	Weight kg/100 pcs.	Item No.
FKH GESRM	St	1	1.500	7407 86 4

ST Steel FS Strip-galvanised /pc.
Fixing bracket to connect a Flexkanal to the service outlet GESRM2.







Brief info

The energy distributors are available in two different shapes for different areas of use. The VH distributor is used under normal working conditions and offers the IP20 protection rating. In wet and damp environments, the VHF distributor is used. The housing with the cover plates and the system-specific sockets are approved up to the protection rating IP44. The energy distributors can be suspended from the ceiling using a knotted chain and are thus always in the right location.

System components

Power supply unit VH
Power supply unit VHF

System description

Material: Polyamide
Device installation: Modul 45 accessories, support ring and support clamp accessories, CEE accessories, power supply unit, extension sockets with 38 x 38 mm fastening system
Mounting type: Cover plate on the housing with screw fastening
Protection ratings: VH - IP20, VHF - IP44
Colours (visible surfaces): Housing in graphite black RAL 9011, cover plates and grip hooks in rape yellow RAL 1021

Industrial and special connector systems

	VH-4 power supply units, IP20	Without compressed air connection With compressed air connection	98
	VH-8 power supply units, IP20	Without compressed air connection With compressed air connection	99
	VH accessories	Tensioning spring Knotted chain Partition Cover plate	100
	VH sockets	Power socket Socket with earthing pin Swiss standard socket Danish standard socket CEE connection unit	101
	VHF-8 power supply unit, IP44	Without compressed air connection With compressed air connection	103
	VHF accessories	Tensioning spring Knotted chain Partition Cover plate Protective equipment installation	103
	VHF sockets	Power sockets CEE connection unit	105



VH-4 power supply unit, IP20

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VH-4 LG	Graphite black	1	61.700	6109 80 0

PA Polyamide /pc.

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

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VH-4 4SD	Graphite black	1	95.000	6109 80 2

PA Polyamide /pc.

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

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

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VH-4 3SD1C16	Graphite black	1	115.700	6109 80 4

PA Polyamide /pc.

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

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

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VH-4 4SF	Graphite black	1	95.000	6109 80 6

PA Polyamide /pc.

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

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

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VH-4 3SF1C16	Graphite black	1	115.700	6109 80 8

PA Polyamide /pc.

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

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

VH-4 power supply unit with compressed air connection, IP20

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VH-4L LG	Graphite black	1	343.800	6109 81 0

PA Polyamide /pc.

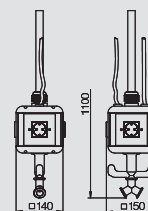
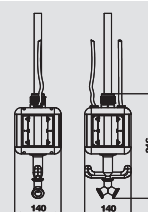
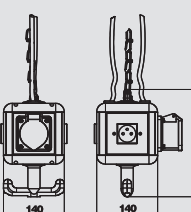
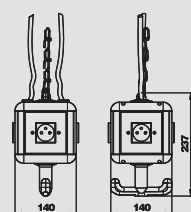
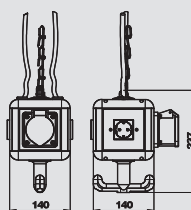
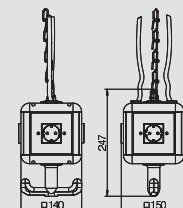
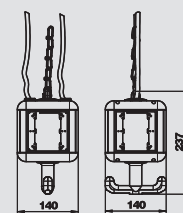
Empty housing with 1 m pipe 1/2" and connection for compressed air hose 13 x 3.5 mm and 2-way distributor 1/2". With suspension lug and grip hook, for the installation of four electrical resources, with included partition. Without cover plates.

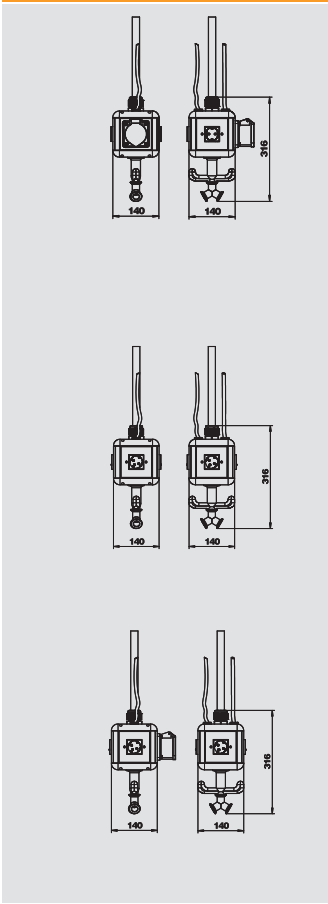
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VH-4L 4SD	Graphite black	1	428.600	6109 81 2

PA Polyamide /pc.

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





VH-4 power supply unit with compressed air connection, IP20

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VH-4L 3SD1C16	Graphite black	1	440.000	6109 81 4

PA Polyamide /pc.

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

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VH-4L 4SF	Graphite black	1	428.600	6109 81 6

PA Polyamide /pc.

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.

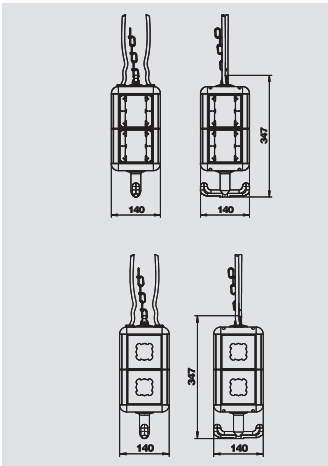
Equipped as follows: 4 x single sockets with earthing pin 16 A/250 V with increased touch protection, pre-wired for two AC currents, connection via 2 x 3-pin terminals, 1 x CEE socket 16 A/415 V, with partition for circuit separation.

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VH-4L 3SF1C16	Graphite black	1	440.000	6109 81 8

PA Polyamide /pc.

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



VH-8 power supply unit, IP20

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VH-8 LG	Graphite black	1	88.200	6109 82 1

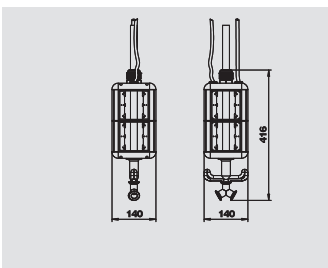
PA Polyamide /pc.

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

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VH-8 LG8P2	Graphite black	1	123.400	6109 82 0

PA Polyamide /pc.

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.



VH-8 power supply unit with compressed air connection, IP20

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VH-8L LG	Graphite black	1	300.000	6109 82 5

PA Polyamide /pc.

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.



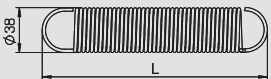


VH power supply units



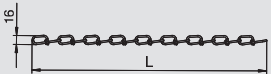
Tension spring VH-4 / VH-8

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
VH-F80	1	34.710	6109 83 1
ST Steel /pc.			
Tension spring for VH-4 and VH-8 with German eyelet.			
Fmax.= 80 N			
L0 = 200 mm			
Ln = 500 mm (for Fmax.)			
Material: Sprung steel ø 2.8 mm			



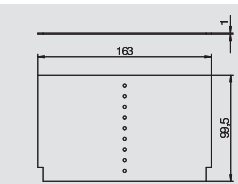
Knotted chain

Type	Designation	Pack. m	Weight kg/100 m	Item No.
VH-K800	sold by the metre	1	20.000	6109 87 0
ST	Steel	/m		
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.				



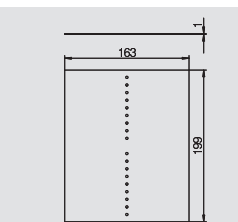
Partition VH-4

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VH-4 TW	Graphite black	1	2.350	6109 83 2
PVC	Polyvinylchloride			/pc.
Additional partition wall for reciprocal insulation of three different power circuits and types.				
Version for VH-4.				



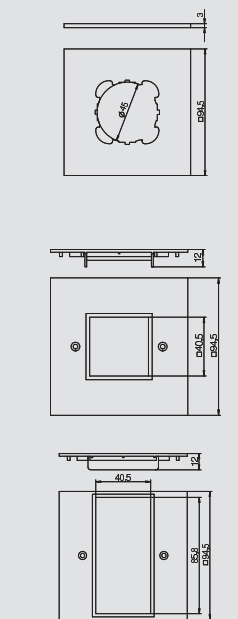
Partition VH-8

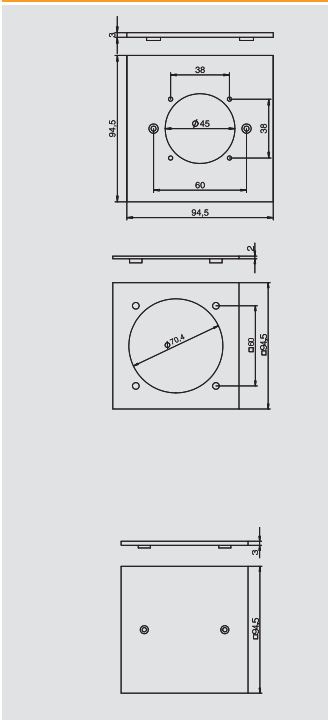
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VH-8 TW	Graphite black	1	4.890	6109 86 2
PVC	Polyvinylchloride			/pc.
Additional partition wall for reciprocal insulation of three different power circuits and types.				
Version for VH-8.				



Cover plate VH-4 / VH-8

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VH-P2	Rapeseed yellow	1	2.300	6109 83 4
PA Polyamide				/pc.
Cover plate with opening Ø 45 mm for the installation of a device with concealed support ring or support clamp.				
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VH-P4	Rapeseed yellow	1	2.030	6109 84 0
PA Polyamide				/pc.
Cover plate to install a single Modul 45 socket.				
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VH-P5	Rapeseed yellow	1	1.830	6109 83 6
PA Polyamide				/pc.
Cover plate to install a double Modul 45 socket.				





Cover plate VH-4 / VH-8

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VH-P7	Rapeseed yellow	1	1.890	6109 83 9

PA Polyamide /pc.

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

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VH-P3	Rapeseed yellow	1	1.870	6109 83 8

PA Polyamide /pc.

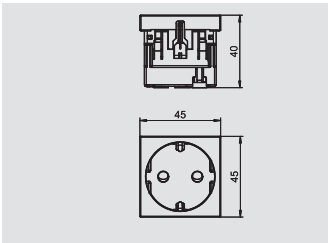
Cover plate with a Ø 70 mm opening for the installation of a CEE socket 16/32 A with 60 mm fastening track, including four fastening screws.

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

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VH-P1	Rapeseed yellow	1	3.000	6109 84 2

PA Polyamide /pc.

Cover plate as blanking cover.

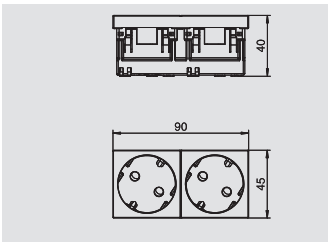


Protective contact socket 0°

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-D0 RW1	Pure white	20	3.800	6117 00 1

PC Polycarbonate /pc.

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

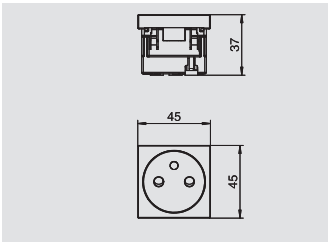


Protective contact socket 33°

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-D3 RW2	Pure white	10	7.500	6117 05 2

PC Polycarbonate /pc.

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

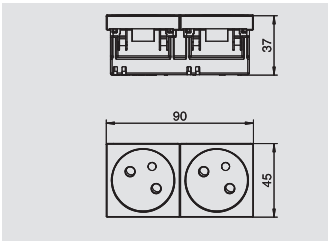


Socket with earthing pin 0°

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-F0 RW1	Pure white	20	3.800	6117 10 2

PC Polycarbonate /pc.

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



Socket with earthing pin 33°

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-F3 RW2	Pure white	10	7.500	6117 15 1

PC Polycarbonate /pc.

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



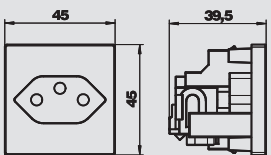


VH power supply units



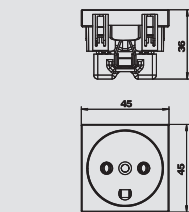
Swiss standard socket 0°

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-CH0 RW1	Pure white	1	3.400	6117 20 0
PC	Polycarbonate			/pc.
Socket, single 0°, to Swiss standard (SEV), with screwless terminals, 2-pin, 10 A, 250 V~, type 13, with connection terminals to IEC 60884-1.				



Danish standard socket 0°

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SKS-DK0 RW1	Pure white	20	3.050	6117 20 2
PC	Polycarbonate			/pc.
Socket, single 0°, to Danish standard, with increased touch protection, with screw terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1.				



CEE connection unit

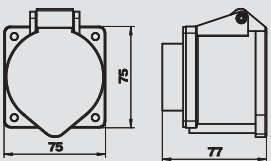
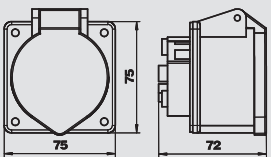
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
CEE-16A	1	19.100	6109 87 4
			/pc.

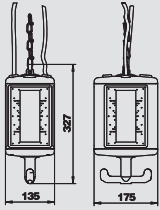
CEE socket with 60 mm fastening track, 3-pin + N + PE, 400 V, 16 A, 6 h.



Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
CEE-32A	1	20.400	6109 87 6
			/pc.

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



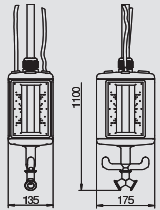


VHF-8 power supply unit, IP44

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VHF-8 LG	Graphite black	1	105.000	6109 82 2

PA Polyamide /pc.

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: IP 44.



VH-8 power supply unit, IP44 compressed air connection

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VHF-8L LG	Graphite black	1	400.000	6109 82 7

PA Polyamide /pc.

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: IP 44.



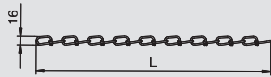
Tension spring VHF-8

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
VHF-F100	1	34.710	6109 83 0

ST Steel /pc.

Tension spring for VHF-8 with German eyelet.

Fmax = 100 N
L0 = 200 mm
Ln = 500 mm (for Fmax.)
Material: Sprung steel Ø 3.2 mm



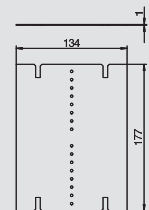
Knotted chain

Type	Designation	Pack.	Weight	Item No.
		m	kg/100 m	
VH-K800	sold by the metre	1	20.000	6109 87 0

ST Steel /m

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.

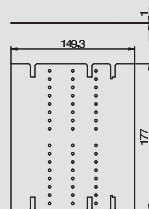


Partition VHF-8 without compressed air connection

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VHF-TW	Graphite black	1	3.520	6109 86 0

PVC Polyvinylchloride /pc.

Additional partition wall for reciprocal insulation of three different power circuits and types.

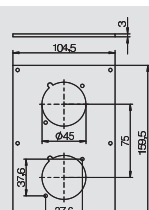


Partition VHF-8 with compressed air connection

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VHF-TW L	Graphite black	1	3.900	6109 86 1

PVC Polyvinylchloride /pc.

Additional partition wall for reciprocal insulation of three different power circuits and types.



Cover plate VHF-8

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VHF-P10	Rapeseed yellow	1	6.380	6109 86 3

PVC Polyvinylchloride /pc.

Cover plate with two Ø 45 mm openings for the installation of 2x power sockets with hinged cover (type S901F).





VHF power supply units



Cover plate VHF-8

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VHF-P9	Rapeseed yellow	1	6.350	6109 86 6

PVC Polyvinylchloride /pc.
Cover plate with a Ø 45 mm opening for the installation of 1x power socket with hinged cover (type S901F).

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VHF-P11	Rapeseed yellow	1	6.230	6109 86 4

PVC Polyvinylchloride /pc.
Cover plate with a Ø 45 mm opening for the installation of a power socket with hinged cover (type S901F) and a Ø 70 mm opening for the installation of a CEE socket 16/32A with 60 mm fastening track.

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VHF-P3	Rapeseed yellow	1	7.000	6109 86 5

PVC Polyvinylchloride /pc.
Cover plate with a Ø 70 mm opening for the installation of 1x CEE socket 16/32 A with 60 mm fastening track.

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VHF-P7	Rapeseed yellow	1	6.600	6109 87 8

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

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VHF-P8	Rapeseed yellow	1	5.900	6109 87 9

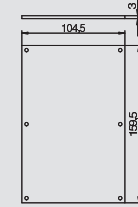
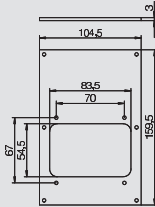
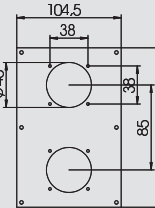
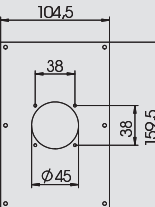
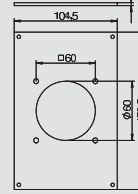
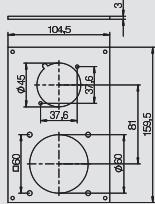
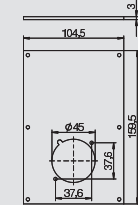
PVC Polyvinylchloride /pc.
Cover plate with opening for the installation of two sockets with 38 x 38 mm fastening system.

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VHF-P6	Rapeseed yellow	1	5.350	6109 86 7

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

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VHF-P1	Rapeseed yellow	1	7.000	6109 86 8

PVC Polyvinylchloride /pc.
Cover plate as blanking cover.

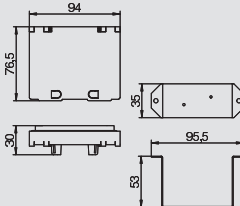


Protective equipment installation VHF-8, cover and support clamp

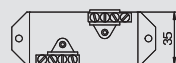
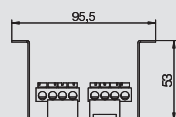
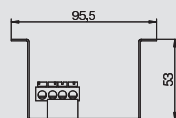
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VHF-AE4TE	1	12.800	6109 85 0

/pc.
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.



Protective equipment installation VHF-8, support



Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
VHF-T1	1	6.730	6109 85 2

ST Steel

/pc.

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

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
VHF-T2	1	8.380	6109 85 4

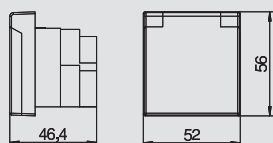
ST Steel

/pc.

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



Protective contact socket 45° with hinged cover, IP44



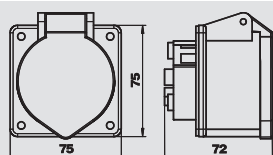
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
S901F	Graphite black	1	7.500	6109 87 2

/pc.

Single 45° power socket with hinged cover, for locking into the mounting opening of the cover plate. Protection rating: IP 44.



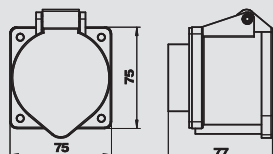
CEE connection unit



Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
CEE-16A	1	19.100	6109 87 4

/pc.

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



Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
CEE-32A	1	20.400	6109 87 6

/pc.

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





Brief info

There are multiple energy distributors available with fixed and plug connections for supplying workplaces. All the plug connections are equipped with the GST18i connector systems and strain relief. If different circuits and/or communication and data technology connections are only required at a single supply point to supply a workplace, then the Consolidation Point is used. Its housing is prepared for the installation of Modul 45 devices.

System components

Consolidation Point
Energy distributor
Connector/socket part
Extension cables

System description

Consolidation Point
Material: Galvanised sheet steel
Device installation: Modul 45 accessories
Input: Fixed connection using 5-pin terminal block or directly on the connection accessories
Energy distributor
Material: Galvanised sheet steel
Accessory installation: Not possible, pre-equipped with GST18i connector system
Input: For fixed connection via 5-pin terminal block, for plug connection using 5-pin connector, type GST18i, 1 or 2 rotary circuits
Output: 6 or 2 x 6 connectors, 3-pin, type GST18i

Energy distribution systems

	Consolidation Point	Empty housing Modul 45 support plate Cable outlet support plate Blanking plate Terminal strip	108
	Energy distributor	Energy distributors, fixed connection Energy distributors, plug connection	109
	Connection accessories	Connector part, 3-pin Socket part, 3-pin Distributor block, 3-pin Connector part, 5-pin Socket part 5-pin	110
	Extension cable	3-pin plug socket 3-pin plug socket, halogen-free	112



Consolidation Point

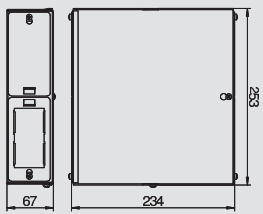


Empty housing

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
CP45-LG 8A	1	190.000	6108 03 7

ST Steel /pc.

Consolidation Point empty housing for the installation of 4 Modul 45 accessories (expandable to max. eight Modul 45 accessories), consisting of housing base and cover, a cover hood to separate data technology and heavy current, two support plates for the installation of two Modul 45 accessories each, two blanking plates, two cable glands V-TEC M25 and a protective conductor connection bracket.

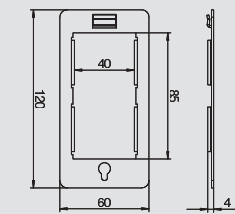


Support plate Modul 45

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
CP45-TP M	1	4.200	6108 03 9

ST Steel /pc.

Support plate to accept two Modul 45 devices in a Consolidation Point housing.

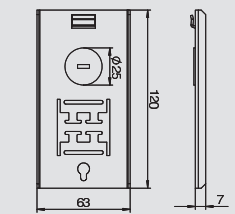


Support plate cable outlet

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
CP45-TP KE	1	8.800	6108 04 0

ST Steel /pc.

Support plate for cable insertion into the Consolidation Point housing.

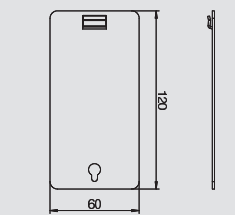


Blanking plate

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
CP45-BP	1	8.000	6108 04 2

ST Steel /pc.

Blanking plate for closing off a mounting opening on a Consolidation Point housing.

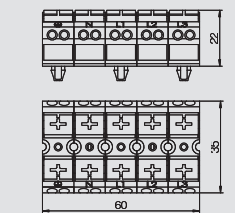


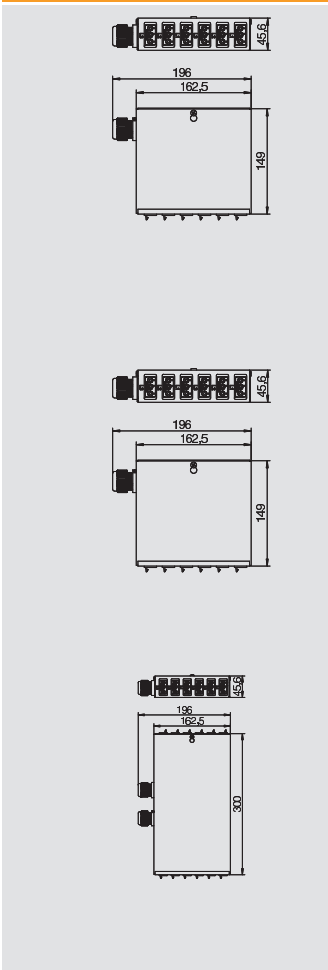
Terminal strip

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
CP45-KL	Black	1	2.000	6108 04 3

/pc.

Screwless terminal strip with locking foot, 5-pin for a cable cross-section of 0.5–4 mm².





Energy distributor with fixed connection

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
UVS-6W2	1	77.000	6108 00 5

ST Steel /pc.

Energy distributor for heavy current technology with fixed connection, equipped and pre-wired.

Input: One rotary current circuit via a screwless terminal block, 5-pin, for cable cross-sections of 0.5–4 mm².

Output: Six self-locking connectors, 3-pin, in white, 16 A, type GST18i (socket part: 2 x L1, 2 x L2, 2 x L3).

Internal wiring: PVC non-sheathed cable H07V-U2.5.

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
UVS-6S2	1	77.000	6108 00 0

ST Steel /pc.

Energy distributor for heavy current technology with fixed connection, equipped and pre-wired.

Input: One rotary current circuit via a screwless terminal block, 5-pin, for cable cross-sections of 0.5–4 mm².

Output: Six self-locking connectors, 3-pin, in black, 16 A, type GST18i (socket part: 2 x L1, 2 x L2, 2 x L3).

Internal wiring: PVC non-sheathed cable H07V-U2.5.

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
UVS-6S6W2	1	146.100	6108 01 0

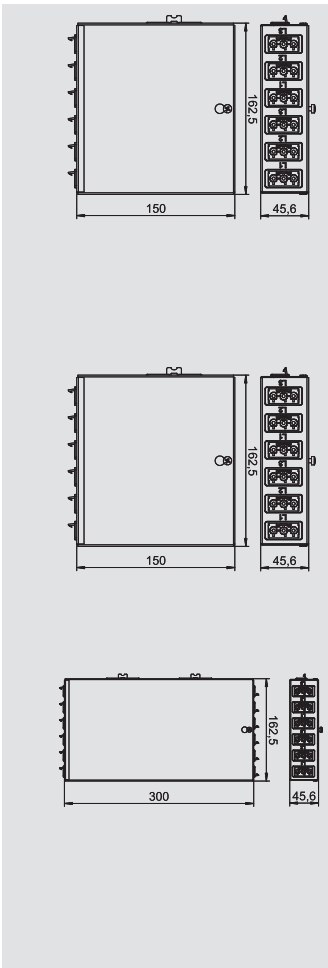
ST Steel /pc.

Energy distributor for heavy current technology with fixed connection, equipped and pre-wired.

Input: Two rotary current circuits via a screwless terminal block, 5-pin, for cable cross-sections of 0.5–4 mm².

Output: Twelve self-locking connectors, 3-pin, in white (6x) and black (6x), 16 A, type GST18i (socket part: 2 x L1, 2 x L2, 2 x L3 for each rotary current circuit).

Internal wiring: PVC non-sheathed cable H07V-U2.5.



Energy distributor with plug connection

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
UVS-6W2SA	1	79.000	6108 01 4

ST Steel /pc.

Energy distributor for heavy current technology with plug connection, equipped and pre-wired.

Input: One rotary current circuit using a self-locking connector, 5 -pin, type GST18i (connector part).

Output: Six self-locking connectors, 3-pin, in white, 16 A, type GST18i (socket part: 2 x L1, 2 x L2, 2 x L3).

Internal wiring: PVC non-sheathed cable H07V-U2.5.

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
UVS-6S2SA	1	79.000	6108 01 2

ST Steel /pc.

Energy distributor for heavy current technology with plug connection, equipped and pre-wired.

Input: One rotary current circuit using a self-locking connector, 5 -pin, type GST18i (connector part).

Output: Six self-locking connectors, 3-pin, in black, 16 A, type GST18i (socket part: 2 x L1, 2 x L2, 2 x L3).

Internal wiring: PVC non-sheathed cable H07V-U2.5.

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
UVS-6S6W2SA	1	140.000	6108 01 6

ST Steel /pc.

Energy distributor for heavy current technology with plug connection, equipped and pre-wired.

Input: Two rotary current circuits using self-locking connectors, 5 -pin, type GST18i (connector part).

Output: Twelve self-locking connectors, 3-pin, in white (6x) and black (6x), 16 A, type GST18i (socket part: 2 x L1, 2 x L2, 2 x L3 for each rotary current circuit).

Internal wiring: PVC non-sheathed cable H07V-U2.5.



Energy distributor and accessories



Connector 3-pin, spring power connection

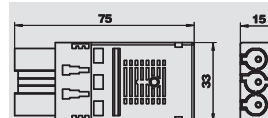
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
ST-F GST18i3p SW	Black	5	2.600	6108 05 0
ST-F GST18i3p W	White	5	2.620	6108 05 1

/pc.

Connector part, 3-pin, type GST18i with spring power connection for rigid cables of 1.5–2.5 mm², single-wire and ultrasonically welded, fine wire cables 1.5 mm² with end sleeves, unmounted with strain relief, can be terminated in situ, 250 V, 16 A.

Two connections per pole, for cables H05VV, NYM (Ø 7.8–10.33 mm), lockable, a lock should be provided for strain relief according to VDE 0628.

Stripping length: 45 mm
Stripped length: 9 mm



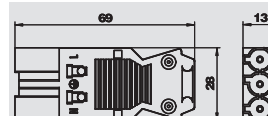
Connector section, 3-pin, screw connection

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
ST-S GST18i3p SW	Black	5	2.030	6108 05 4
ST-S GST18i3p W	White	5	2.030	6108 05 5

/pc.

Connector part, 3-pin, type GST18i with screw connection, low height (no slot loss in combination with distributor blocks), for cross-sections of 0.75–2.5 mm², single- and fine-wire cables connectable without end sleeve, for cable diameters between 6.5–10.5 mm (H05VV, NYM), unmounted with strain relief, terminable in situ, 250 V, 16 A.

Stripping length: 31 mm
Insulation removal length: 7 mm



Socket section 3-pin, spring power connection

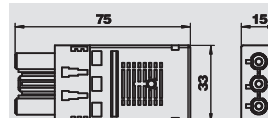
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
BT-F GST18i3p SW	Black	5	2.620	6108 05 2
BT-F GST18i3p W	White	5	2.690	6108 05 3

/pc.

Socket part, 3-pin, type GST18i with spring power connection for rigid cables of 1.5–2.5 mm², single-wire and ultrasonically welded, fine wire cables 1.5 mm² with end sleeves, unmounted with strain relief, can be terminated in situ, 250 V, 16 A.

Two connections per pole, for cables H05VV, NYM (Ø 7.8–10.33 mm), lockable, a lock should be provided for strain relief according to VDE 0628.

Stripping length: 45 mm
Stripped length: 9 mm



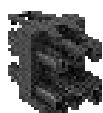
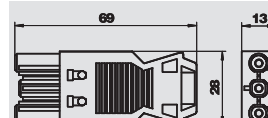
Socket section 3-pin, screw connection

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
BT-S GST18i3p SW	Black	5	2.150	6108 05 6
BT-S GST18i3p W	White	5	2.150	6108 05 7

/pc.

Socket part, 3-pin, type GST18i with screw connection, low height (no slot loss in combination with distributor blocks), for cross-sections of 0.75–2.5 mm², single- and fine-wire cables connectable without end sleeve, for cable diameters between 6.5–10.5 mm (H05VV, NYM), unmounted with strain relief, terminable in situ, 250 V, 16 A.

Stripping length: 31 mm
Insulation removal length: 7 mm

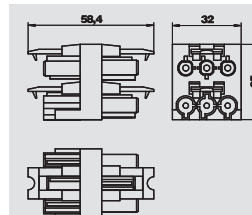


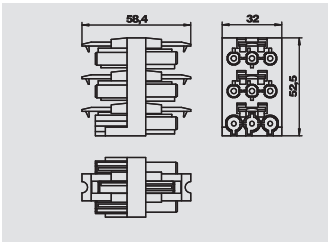
Distributor block 3-pole, 1E/3A

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VB-3 GST18i3p	Black	5	3.590	6108 08 0

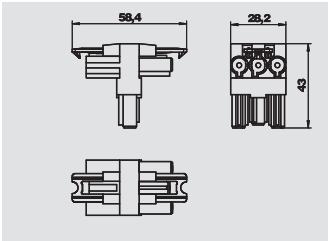
/pc.

Distributor block with lock, type GST18i, one input with plug section 3-pin and three outputs with socket section 3-pin.

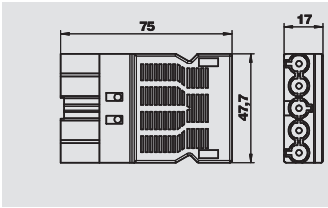




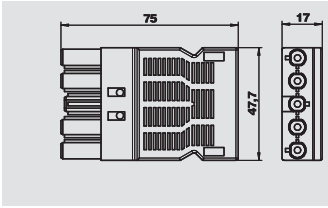
Distributor block 3-pole, 1E/5A				
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VB-5 GST18i3p	Black	5	5.590	6108 08 2
/pc.				
Distributor block with lock, type GST18i, one input with plug section 3-pin and five outputs with socket section 3-pin.				



Distributor block, 3-pole, T-shaped				
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
VB-T GST18i3p	Black	5	2.540	6108 08 4
/pc.				
T distributor with lock, type GST18i, one input with 3-pin connector part and two outputs with 3-pin socket part.				



Connector section, 5-pin, screw connection				
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
ST-S GST18i5p SW	Black	5	4.330	6108 07 0
/pc.				



Socket section 5-pin, screw connection				
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
BT-S GST18i5p SW	Black	5	4.550	6108 07 2
/pc.				



Extension cable



Extension cable, 3-pole, cross-section 1.5 mm²

Type	Cable length mm	Cross-section mm²	Number of poles	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VL-3Q1.5 1 SW	1,000	1.5	3	Black	1	14.000	6108 10 0
VL-3Q1.5 2 SW	2,000	1.5	3	Black	1	28.000	6108 10 1
VL-3Q1.5 3 SW	3,000	1.5	3	Black	1	42.000	6108 10 2
VL-3Q1.5 4 SW	4,000	1.5	3	Black	1	56.000	6108 10 3
VL-3Q1.5 5 SW	5,000	1.5	3	Black	1	70.000	6108 10 4
VL-3Q1.5 6 SW	6,000	1.5	3	Black	1	84.000	6108 10 5
VL-3Q1.5 7 SW	7,000	1.5	3	Black	1	98.000	6108 10 6
VL-3Q1.5 8 SW	8,000	1.5	3	Black	1	112.000	6108 10 7
VL-3Q1.5 9 SW	9,000	1.5	3	Black	1	126.000	6108 10 8
VL-3Q1.5 10 SW	10,000	1.5	3	Black	1	140.000	6108 10 9
VL-3Q1.5 11 SW	11,000	1.5	3	Black	1	154.000	6108 11 0
VL-3Q1.5 12 SW	12,000	1.5	3	Black	1	168.000	6108 11 1
VL-3Q1.5 13 SW	13,000	1.5	3	Black	1	182.000	6108 11 2
VL-3Q1.5 14 SW	14,000	1.5	3	Black	1	196.000	6108 11 3
VL-3Q1.5 15 SW	15,000	1.5	3	Black	1	210.000	6108 11 4

/pc.

Connection cable 3 x 1.5 mm² in the version socket – connector with GST18i connection system.

Type	Cable length mm	Cross-section mm²	Number of poles	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VL-3Q1.5 1 W	1,000	1.5	3	White	1	14.000	6108 12 5
VL-3Q1.5 2 W	2,000	1.5	3	White	1	28.000	6108 12 6
VL-3Q1.5 3 W	3,000	1.5	3	White	1	42.000	6108 12 7
VL-3Q1.5 4 W	4,000	1.5	3	White	1	56.000	6108 12 8
VL-3Q1.5 5 W	5,000	1.5	3	White	1	70.000	6108 12 9
VL-3Q1.5 6 W	6,000	1.5	3	White	1	84.000	6108 13 0
VL-3Q1.5 7 W	7,000	1.5	3	White	1	98.000	6108 13 1
VL-3Q1.5 8 W	8,000	1.5	3	White	1	112.000	6108 13 2
VL-3Q1.5 9 W	9,000	1.5	3	White	1	126.000	6108 13 3
VL-3Q1.5 10 W	10,000	1.5	3	White	1	140.000	6108 13 4
VL-3Q1.5 11 W	11,000	1.5	3	White	1	154.000	6108 13 5
VL-3Q1.5 12 W	12,000	1.5	3	White	1	168.000	6108 13 6
VL-3Q1.5 13 W	13,000	1.5	3	White	1	182.000	6108 13 7
VL-3Q1.5 14 W	14,000	1.5	3	White	1	196.000	6108 13 8
VL-3Q1.5 15 W	15,000	1.5	3	White	1	210.000	6108 13 9

/pc.

Connection cable 3 x 1.5 mm² in the version socket – connector with GST18i connection system.

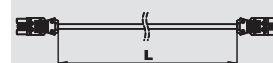


Extension cable, 3-pole, cross-section 2.5 mm²

Type	Cable length mm	Cross-section mm²	Number of poles	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VL-3Q2.5 1 SW	1,000	2.5	3	Black	1	18.000	6108 15 0
VL-3Q2.5 2 SW	2,000	2.5	3	Black	1	36.000	6108 15 1
VL-3Q2.5 3 SW	3,000	2.5	3	Black	1	54.000	6108 15 2
VL-3Q2.5 4 SW	4,000	2.5	3	Black	1	72.000	6108 15 3
VL-3Q2.5 5 SW	5,000	2.5	3	Black	1	90.000	6108 15 4
VL-3Q2.5 6 SW	6,000	2.5	3	Black	1	108.000	6108 15 5
VL-3Q2.5 7 SW	7,000	2.5	3	Black	1	126.000	6108 15 6
VL-3Q2.5 8 SW	8,000	2.5	3	Black	1	144.000	6108 15 7
VL-3Q2.5 9 SW	9,000	2.5	3	Black	1	162.000	6108 15 8
VL-3Q2.5 10 SW	10,000	2.5	3	Black	1	180.000	6108 15 9
VL-3Q2.5 11 SW	11,000	2.5	3	Black	1	198.000	6108 16 0
VL-3Q2.5 12 SW	12,000	2.5	3	Black	1	216.000	6108 16 1
VL-3Q2.5 13 SW	13,000	2.5	3	Black	1	234.000	6108 16 2
VL-3Q2.5 14 SW	14,000	2.5	3	Black	1	252.000	6108 16 3
VL-3Q2.5 15 SW	15,000	2.5	3	Black	1	270.000	6108 16 4

/pc.

Connection cable 3 x 2.5 mm² in the version socket – connector with GST18i connection system.





Extension cable, 3-pole, cross-section 2.5 mm²

Type	Cable length mm	Cross-section mm ²	Number of poles	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VL-3Q2.5 1 W	1,000	2.5	3	White	1	18.000	6108 17 5
VL-3Q2.5 2 W	2,000	2.5	3	White	1	36.000	6108 17 6
VL-3Q2.5 3 W	3,000	2.5	3	White	1	54.000	6108 17 7
VL-3Q2.5 4 W	4,000	2.5	3	White	1	72.000	6108 17 8
VL-3Q2.5 5 W	5,000	2.5	3	White	1	90.000	6108 17 9
VL-3Q2.5 6 W	6,000	2.5	3	White	1	108.000	6108 18 0
VL-3Q2.5 7 W	7,000	2.5	3	White	1	126.000	6108 18 1
VL-3Q2.5 8 W	8,000	2.5	3	White	1	144.000	6108 18 2
VL-3Q2.5 9 W	9,000	2.5	3	White	1	162.000	6108 18 3
VL-3Q2.5 10 W	10,000	2.5	3	White	1	180.000	6108 18 4
VL-3Q2.5 11 W	11,000	2.5	3	White	1	198.000	6108 18 5
VL-3Q2.5 12 W	12,000	2.5	3	White	1	216.000	6108 18 6
VL-3Q2.5 13 W	13,000	2.5	3	White	1	234.000	6108 18 7
VL-3Q2.5 14 W	14,000	2.5	3	White	1	252.000	6108 18 8
VL-3Q2.5 15 W	15,000	2.5	3	White	1	270.000	6108 18 9

/pc.

Connection cable 3 x 2.5 mm² in the version socket – connector with GST18i connection system.



Extension cable, 3-pole, halogen-free, cross-section 2.5 mm²

Type	Cable length mm	Cross-section mm ²	Number of poles	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VL-3Q2.5 H1 SW	1,000	2.5	3	Black	1	16.000	6108 45 0
VL-3Q2.5 H2 SW	2,000	2.5	3	Black	1	32.000	6108 45 1
VL-3Q2.5 H3 SW	3,000	2.5	3	Black	1	48.000	6108 45 2
VL-3Q2.5 H4 SW	4,000	2.5	3	Black	1	64.000	6108 45 3
VL-3Q2.5 H5 SW	5,000	2.5	3	Black	1	80.000	6108 45 4
VL-3Q2.5 H6 SW	6,000	2.5	3	Black	1	96.000	6108 45 5
VL-3Q2.5 H7 SW	7,000	2.5	3	Black	1	112.000	6108 45 6
VL-3Q2.5 H8 SW	8,000	2.5	3	Black	1	128.000	6108 45 7
VL-3Q2.5 H9 SW	9,000	2.5	3	Black	1	144.000	6108 45 8
VL-3Q2.5 H10 SW	10,000	2.5	3	Black	1	160.000	6108 45 9
VL-3Q2.5 H11 SW	11,000	2.5	3	Black	1	176.000	6108 46 0
VL-3Q2.5 H12 SW	12,000	2.5	3	Black	1	192.000	6108 46 1
VL-3Q2.5 H13 SW	13,000	2.5	3	Black	1	208.000	6108 46 2
VL-3Q2.5 H14 SW	14,000	2.5	3	Black	1	224.000	6108 46 3
VL-3Q2.5 H15 SW	15,000	2.5	3	Black	1	240.000	6108 46 4

/pc.

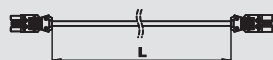
Halogen-free extension cables 3 x 2.5 mm² in the version socket – connector with GST18i connection system.

For extension of the 3-pole loss (OUT 1-6) of the OBO BUS box.

Type	Cable length mm	Cross-section mm ²	Number of poles	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VL-3Q2.5 H1 W	1,000	2.5	3	White	1	16.000	6108 47 5
VL-3Q2.5 H2 W	2,000	2.5	3	White	1	32.000	6108 47 6
VL-3Q2.5 H3 W	3,000	2.5	3	White	1	48.000	6108 47 7
VL-3Q2.5 H4 W	4,000	2.5	3	White	1	64.000	6108 47 8
VL-3Q2.5 H5 W	5,000	2.5	3	White	1	80.000	6108 47 9
VL-3Q2.5 H6 W	6,000	2.5	3	White	1	96.000	6108 48 0
VL-3Q2.5 H7 W	7,000	2.5	3	White	1	112.000	6108 48 1
VL-3Q2.5 H8 W	8,000	2.5	3	White	1	128.000	6108 48 2
VL-3Q2.5 H9 W	9,000	2.5	3	White	1	144.000	6108 48 3
VL-3Q2.5 H10 W	10,000	2.5	3	White	1	160.000	6108 48 4
VL-3Q2.5 H11 W	11,000	2.5	3	White	1	176.000	6108 48 5
VL-3Q2.5 H12 W	12,000	2.5	3	White	1	192.000	6108 48 6
VL-3Q2.5 H13 W	13,000	2.5	3	White	1	208.000	6108 48 7
VL-3Q2.5 H14 W	14,000	2.5	3	White	1	224.000	6108 48 8
VL-3Q2.5 H15 W	15,000	2.5	3	White	1	240.000	6108 48 9

/pc.

Halogen-free extension cables 3 x 2.5 mm² in the version socket – connector with GST18i connection system.





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5000204	2003 01 5		82	5122449	6108 10 6		112	5124900	6108 48 5		113	6458837	6117 01 6		52
5002314	2003 01 9		82	5122456	6108 10 7		112	5124917	6108 48 6		113	6471072	6117 01 8		52
5029298	2003 31 7		82	5122463	6108 10 8		112	5124924	6108 48 7		113				
5032779	2003 41 4		82	5122500	6108 10 9		112	5124955	6108 48 8		113	5648956	6117 01 9		52
5032830	2003 42 2		82	5122517	6108 11 0		112	5124962	6108 48 9		113				
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5364177	6106 67 5		54	5122807	6108 13 0		112	5125143	6109 81 4		99	6459018	6117 04 1		52
5364184	6106 67 7		54	5122814	6108 13 1		112	5125150	6109 81 6		99	6459070	6117 04 3		52
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6637218	6117 15 5		53					5701088	6117 64 3		65	5677871	6117 98 6		70
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5700975	6117 15 8		53	6214037	6117 40 8		71	5275886	6117 64 5		65	5696896	6119 20 2		77
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6213917	6117 15 9		53					5701095	6117 64 6		65	5696940	6119 20 6		77
6461110	6117 16 2		53	5701286	6117 41 5		71					5696957	6119 20 8		77
6461233	6117 16 4		53					5275923	6117 64 7		65	5696964	6119 21 0		77
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6461530	6117 16 8		53	6215713	6117 42 8		70					5696988	6119 21 4		77
				6215959	6117 43 0		70	5701101	6117 64 9		65	5696995	6119 21 6		77
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				5006220	6117 46 7		69	5275947	6117 65 0		65	5697015	6119 22 0		78
6213979	6117 17 0		53	6117673	6117 47 3		69	5275985	6117 65 1		65	5697022	6119 22 2		78
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5675181	6117 39 1		70	5701064	6117 63 9		66	5402534	6117 96 8		76				
5675211	6117 39 3		70					5402541	6117 97 0		76				
5675228	6117 39 5		70	5275824	6117 64 0		65	5677819	6117 97 2		74				
5675235	6117 39 7		70	5275862	6117 64 1		65	5677765	6117 98 0		89				

Type listing

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AD-90G M45	/ St	5469148	6258 14 1	/pc.	66	AS-B2P AL1	Aluminium painted	5275886	6117 64 5	/pc.	65
ADP-B AL0.5	Aluminium painted	6215652	6117 41 6		71	AS-B2P RW1	Pure white	5275879	6117 64 4		65
ADP-B AL1	Aluminium painted	6214037	6117 40 8		71	AS-B2P SWGR1	Black-grey	5701088	6117 64 3		65
ADP-B RW0.5	Pure white	6117550	6117 41 4		71	AS-K AL0.5	Aluminium painted	5275701	6117 62 5		64
ADP-B RW1	Pure white	6117499	6117 40 6		71	AS-K RW0.5	Pure white	5275695	6117 62 4		64
ADP-B SWGR0.5	Black-grey	5701286	6117 41 5		71	AS-K SWGR0.5	Black-grey	5701026	6117 62 3		64
ADP-B SWGR1	Black-grey	5701279	6117 40 7		83	AS-K2P AL1	Aluminium painted	5275930	6117 64 8		65
ADR-UP80M0.5 AL	Aluminium painted	5438243	6119 98 4		83	AS-K2P RW1	Pure white	5275923	6117 64 7		65
ADR-UP80M0.5 RW	Pure white	5438236	6119 98 2		83	AS-K2P SWGR1	Black-grey	5701095	6117 64 6		65
ADR-UP80M0.5SWGR	Black-grey	5701446	6119 98 3		83	ASM-C5		6235278	6117 33 7		74
ADR-UP80M1 AL	Aluminium painted	5438281	6119 98 8		84	ASM-C5 G		6235155	6117 32 5		74
ADR-UP80M1 RW	Pure white	5438274	6119 98 6		84	ASM-C6		6235339	6117 34 1		74
ADR-UP80M1 SWGR	Black-grey	5701453	6119 98 7		84	ASM-C6 G		6235216	6117 32 9		74
ADR-UP80M2 AL	Aluminium painted	5523048	6119 99 1		84	ASM-LWL K		6237319	6117 74 0		74
ADR-UP80M2 RW	Pure white	5523031	6119 99 0		84	AS-NA AL0.5	Aluminium painted	5405917	6117 61 8		64
ADR-UP80M2 SWGR	Black-grey	5701460	6119 99 2		84	AS-NA RW0.5	Pure white	5405900	6117 61 7		64
ADR-UP80M3 AL	Aluminium painted	5523062	6119 99 5		85	AS-NA SWGR0.5	Black-grey	5701002	6117 61 9		64
ADR-UP80M3 RW	Pure white	5523055	6119 99 4		86	AS-NA2P AL1	Aluminium painted	5275985	6117 65 1		65
ADR-UP80M3 SWGR	Black-grey	5701491	6119 99 6		86	AS-NA2P RW1	Pure white	5275947	6117 65 0		65
ADR-UPM0.5 AL	Aluminium painted	5406389	6119 96 2		69	AS-NA2P SWGR1	Black-grey	5701101	6117 64 9		65
ADR-UPM0.5 RW	Pure white	5406372	6119 96 0		69	BAL-FLK E	Anthracite grey	5081043	6154 99 2		93
ADR-UPM0.5 SWGR	Black-grey	5701378	6119 96 1		69	BAL-FLK R	Anthracite grey	5081036	6154 99 0		93
ADR-UPM1 AL	Aluminium painted	5406426	6119 96 6		69	BAL-FLK TAZ	Anthracite grey	6278596	6154 97 5		93
ADR-UPM1 RW	Pure white	5406419	6119 96 4		70	BAL-L	Anthracite grey	5081050	6154 99 4		93
ADR-UPM1 SWGR	Black-grey	5701385	6119 96 5		70	BE-GL B1OR	Orange	5677765	6117 98 0		89
ADR-UPM1.5 AL	Aluminium painted	5406440	6119 97 0		70	BE-LED B1GN	Green	5276241	6117 75 8		66
ADR-UPM1.5 RW	Pure white	5406433	6119 96 8		70	BE-LED B1RO	Red	5276234	6117 75 7		66
ADR-UPM1.5 SWGR	Black-grey	5701392	6119 96 9		70	BM-A180 AL1	Aluminium painted	5443803	6117 37 2		67
ADR-UPM2 AL	Aluminium painted	5406488	6119 97 4		70	BM-A180 RW1	Pure white	5443797	6117 37 0		67
ADR-UPM2 RW	Pure white	5406471	6119 97 2		70	BM-A180 SWGR1	Black-grey	5701262	6117 37 4		67
ADR-UPM2 SWGR	Black-grey	5701408	6119 97 3		70	BTA-SKS S1 SW	Black	5438069	6117 19 0		60
ADR-UPM3 AL	Aluminium painted	5406501	6119 97 8		70	BTA-SKS S1 W	White	5483540	6117 19 1		60
ADR-UPM3 RW	Pure white	5406495	6119 97 6		70	BT-F GST18i3p SW	Black	5273585	6108 05 2		110
ADR-UPM3 SWGR	Black-grey	5701439	6119 97 7		70	BT-F GST18i3p W	White	5273592	6108 05 3		110
ANT-1S AL0.5	Aluminium painted	5406235	6117 60 7		64	BT-S GST18i3p SW	Black	5273653	6108 05 6		110
ANT-1S RW0.5	Pure white	5406204	6117 60 6		64	BT-S GST18i3p W	White	5273660	6108 05 7		110
ANT-1S SWGR0.5	Black-grey	5701316	6117 61 0		64	BT-S GST18i5p SW	Black	5273714	6108 07 2		111
ANT-2D AL1	Aluminium painted	5675181	6117 39 1		CEE-16A		5125594	6109 87 4		102	
ANT-2D RW1	Pure white	5675167	6117 38 7								
ANT-2D SWGR1	Black-grey	5675174	6117 38 9								
ANT-2E AL1	Aluminium painted	5675150	6117 38 5								
ANT-2E RW1	Pure white	5675112	6117 38 1								
ANT-2E SWGR1	Black-grey	5675129	6117 38 3								
ANT-3E AL1	Aluminium painted	5675235	6117 39 7								
ANT-3E RW1	Pure white	5675211	6117 39 3								
ANT-3E SWGR1	Black-grey	5675228	6117 39 5								
AS-B AL0.5	Aluminium painted	5275688	6117 62 1								
AS-B RW0.5	Pure white	5275640	6117 62 0								
AS-B SWGR0.5	Black-grey	5701019	6117 62 2								

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
CEE-16A		5125594	6109 87 4	/pc.	105	DSK-LG8M LGR	Light grey	5007425	6117 52 3	/pc.	92
CEE-32A		5125600	6109 87 6		102	DSK-LG8M RW	Pure white	5007364	6117 52 1		92
CEE-32A		5125600	6109 87 6		105						
CP45-BP	/ ST	5577973	6108 04 2		108	DTG-2A AL1	Aluminium painted/ pc	5696940	6119 20 6		77
CP45-KL	Black	5577980	6108 04 3		108	DTG-2A RW1	Pure white/ pc	5696896	6119 20 2		77
CP45-LG 8A	/ ST	5577942	6108 03 7		108	DTG-2A SWGR1	Black-grey/ pc	5696902	6119 20 4		77
CP45-TP KE	/ ST	5577966	6108 04 0		108	DTG-2B AL1	Aluminium painted/ pc	5696971	6119 21 2		77
CP45-TP M	/ ST	5577959	6108 03 9		108	DTG-2B RW1	Pure white/ pc	5696957	6119 20 8		77
						DTG-2B SWGR1	Black-grey/ pc	5696964	6119 21 0		77
CPK-C5SF UTP10	Grey	5008569	6117 94 2		76	DTG-2C AL1	Aluminium painted/ pc	5697008	6119 21 8		77
CPK-C5SF UTP15	Grey	5008620	6117 94 4		76	DTG-2C RW1	Pure white/ pc	5696988	6119 21 4		77
CPK-C5SF UTP2	Grey	5081005	6117 93 8		76						
CPK-C5SF UTP7.5	Grey	5008521	6117 94 0		76	DTG-2C SWGR1	Black-grey/ pc	5696995	6119 21 6		77
CPK-C6S FTP10	Grey	5008682	6117 95 0		76	DTG-2EP AL1	Aluminium painted/ pc	5697121	6119 23 6		78
CPK-C6S FTP15	Grey	5008743	6117 95 2		76	DTG-2EP RW1	Pure white/ pc	5697077	6119 23 2		78
CPK-C6S FTP2	Grey	5081401	6117 94 6		76	DTG-2EP SWGR1	Black-grey/ pc	5697084	6119 23 4		78
CPK-C6S FTP7.5	Grey	5008644	6117 94 8								
CST-SKS	Black / PC	5364610	6106 73 5		55	DTG-2F AL1	Aluminium painted/ pc	5697039	6119 22 4		78
DMG-1RM AL0.5	Aluminium painted	5006725	6117 29 3		74	DTG-2F RW1	Pure white/ pc	5697015	6119 22 0		78
DMG-1RM RW0.5	Pure white	6233410	6117 29 2		74	DTG-2F SWGR1	Black-grey/ pc	5697022	6119 22 2		78
DMG-1RM SWGR0.5	Black-grey	5701163	6117 29 1		74	DTG-2PA AL1	Aluminium painted/ pc	5697060	6119 23 0		78
						DTG-2PA RW1	Pure white/ pc	5697046	6119 22 6		78
						DTG-2PA SWGR1	Black-grey/ pc	5697053	6119 22 8		78
DMG-2RM AL1	Aluminium painted	5006961	6117 32 0		75	DTS-2A AL1	Aluminium painted/ pc	5697183	6119 24 2		77
DMG-2RM RW1	White	5006947	6117 31 9		75	DTS-2A RW1	Pure white/ pc	5697138	6119 23 8		77
DMG-2RM SWGR1	Black-grey	5701200	6117 31 8		75	DTS-2A SWGR1	Black-grey/ pc	5697145	6119 24 0		77
DMS-2RM AL1	Aluminium painted/ PC	5006886	6117 31 6		75	DTS-2B AL1	Aluminium painted/ pc	5697244	6119 24 8		77
DMS-2RM RW1	Pure white/ PC	5006848	6117 31 5		75	DTS-2B RW1	Pure white/ pc	5697190	6119 24 4		77
DMS-2RM SWGR1	Black-grey/ PC	5701194	6117 31 4		75	DTS-2B SWGR1	Black-grey/ pc	5697206	6119 24 6		77
DMZ-AVS GN	Green	6239054	6117 72 4		75	DTS-2C AL1	Aluminium painted/ pc	5697305	6119 25 4		78
DMZ-AVS RO	Red	6239351	6117 72 6		75	DTS-2C RW1	Pure white/ pc	5697251	6119 25 0		78
DMZ-AVS W	White	6239474	6117 72 8		75						
DMZ-ES AVS	Black	6239658	6117 74 5		76	DTS-2C SWGR1	Black-grey/ pc	5697268	6119 25 2		78
DMZ-ESMV CB	White	6237913	6117 70 8		75						
DMZ-RR RJ11	Green	5677819	6117 97 2		74	DTS-2EP AL1	Aluminium painted/ pc	5697497	6119 27 2		78
						DTS-2EP RW1	Pure white/ pc	5697442	6119 26 8		78
						DTS-2EP SWGR1	Black-grey/ pc	5697480	6119 27 0		78
DMZ-SC GN	Green	5008767	6117 95 7		75	DTS-2PA AL1	Aluminium painted/ pc	5697435	6119 26 6		79
DMZ-SC RO	Red	5008804	6117 95 8		75	DTS-2PA RW1	Pure white/ pc	5697381	6119 26 2		79
DMZ-SC HL AVS	Yellow	6239535	6117 73 2		76	DTS-2PA SWGR1	Black-grey/ pc	5697428	6119 26 4		79
DMZ-STs GN	Green	5007562	6117 73 7		75	FKH GES10	/ St / FS	5437161	7407 86 2		94
DMZ-STs RO	Red	5007609	6117 73 8		75	FKH GES5	/ St / FS	5437154	7407 86 0		94
DMZ-STs W	White	6239597	6117 73 6		75	FKH GESRM	/ St / FS	5437192	7407 86 4		94
DSK-KLB		5007548	6117 53 8		92						
DSK-LG4M AL	Aluminium painted	5007326	6117 51 6		92	FLK-2K BL	1000 Ultramarine blue	6277759	6154 92 4	/m	92
DSK-LG4M ATHGR	Anthracite grey	5007302	6117 51 4		92	FLK-2K CRW	1000 White	6277339	6154 92 0		92
DSK-LG4M BL	Blue	6237432	6117 51 1		92	FLK-2K LGR	1000 Light grey	6277575	6154 92 2		92
DSK-LG4M LGR	Light grey	5007241	6117 51 2		92	FLK-2K SWGR	1000 Black-grey	6277995	6154 93 0		92
DSK-LG4M RW	Pure white	5007203	6117 51 0		92						
DSK-LG8M AL	Aluminium painted	5007487	6117 52 7		92						
DSK-LG8M ATHGR	Anthracite grey	5007449	6117 52 5		92						
DSK-LG8M BL	Blue	6237739	6117 52 2		92						

Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
FLK-BEF	/ Al	6278473	6154 96 8	/pc.	92	RT-BS1 AL1	Aluminium painted	5405955	6117 65 8	/pc.	66
FLK-BS1	1000 Anthracite grey	6278657	6154 98 0		93	RT-BS1 RW1	Pure white	5405948	6117 65 7		66
FLK-BS2	2000 Anthracite grey	6278718	6154 98 3		93	RT-BS1 SWGR1	Black-grey	5701149	6117 65 6		66
FLK-HL ZL	Anthracite grey	6278350	6154 96 1		92						
FLK-KL	50	6278534	6154 97 1		93	RTR-A AL1	Aluminium painted	5443742	6117 36 0		68
FLK-TAZ	Anthracite grey	6278411	6154 96 5		93	RTR-A RW1	Pure white	5443698	6117 35 8		68
				price/100 pc.		RTR-A SWGR1	Black-grey	5701224	6117 36 2		68
HG 60	Orange 68 / PP	5032779	2003 41 4		82						
HG 60 2	Cavity wall Orange / PP	5032830	2003 42 2		82	RZU-A AL 1	Aluminium painted	5443766	6117 36 6		68
				/pc.		RZU-A RW1	Pure white	5443759	6117 36 4		68
HG-UPM1	Blue	5406310	6119 95 0		84	RZU-A SWGR1	Black-grey	5701255	6117 36 8		68
HG-UPM2	Blue	5406327	6119 95 1		85	S901F	Graphite black	5125556	6109 87 2		105
HG-UPM3	Blue	5406334	6119 95 2		86						
				price/100 pc.		SE-B AL1	Aluminium painted	5405894	6117 61 6		66
HV 60	Orange 68 / PP	5032953	2003 44 2		82	SE-B RW1	Pure white	5405887	6117 61 5		66
				/pc.		SE-B SWGR1	Black-grey	5700999	6117 61 4		66
KA-ZKB AL1	Aluminium painted	5677888	6117 98 7		70						
KA-ZKB RW1	Pure white	5677864	6117 98 5		70	SKS-CH0 RW1	Pure white / PC	5008866	6117 20 0		55
KA-ZKB SWGR1	Black-grey	5677871	6117 98 6		70	SKS-CH0 RW1	Pure white / PC	5008866	6117 20 0		102
						SKS-D0 AL1	Aluminium painted / PC	6212774	6117 00 9		52
KS-B AL1	Aluminium painted	5405931	6117 63 8		66	SKS-D0 AL2	Aluminium painted / PC	6212835	6117 02 0		52
KS-B RW1	Pure white	5405924	6117 63 7		66	SKS-D0 AL3	Aluminium painted / PC	6213078	6117 03 1		52
						SKS-D0 MZGN1	Mint green / PC	6458530	6117 00 5		52
KS-B SWGR1	Black-grey	5701064	6117 63 9		66	SKS-D0 MZGN2	Mint green / PC	6458837	6117 01 6		52
						SKS-D0 MZGN3	Mint green / PC	6458950	6117 02 7		52
PAD-LQ6 AL1	Aluminium painted	5406549	6119 99 9		70	SKS-D0 ROR1	Orange / PC	6458356	6117 00 3		52
PAD-LQ6 RW1	Pure white	5406532	6119 99 8		70	SKS-D0 ROR2	Orange / PC	6458653	6117 01 4		52
						SKS-D0 ROR3	Orange / PC	6645077	6117 02 5		52
PAD-LQ6 SWGR1	Black-grey	5701507	6119 99 7		70	SKS-D0 RW1	Pure white / PC	6458295	6117 00 1		52
						SKS-D0 RW1	Pure white / PC	6458295	6117 00 1		101
PD-UPM1	Red	5406266	6119 94 5		84	SKS-D0 RW2	Pure white / PC	6518531	6117 01 2		52
PD-UPM2	Red	5406297	6119 94 6		85	SKS-D0 RW3	Pure white / PC	6458899	6117 02 3		52
PD-UPM3	Red	5406303	6119 94 7		86	SKS-D0 SRO1	Signal red / PC	6458592	6117 00 7		52
						SKS-D0 SRO2	Signal red / PC	6471072	6117 01 8		52
						SKS-D0 SRO3	Signal red / PC	6597376	6117 02 9		52
RE-U2K 1		5443735	6117 66 5		67	SKS-D0 SWGR1	Black-grey / PC	5700883	6117 00 8		52
RE-UW 1		5443704	6117 66 2		67	SKS-D0 SWGR2	Black-grey / PC	5648956	6117 01 9		52
						SKS-D0 SWGR3	Black-grey / PC	5700890	6117 03 0		52
RK-C5SF UTP1	Grey	5402466	6117 96 0		76						
RK-C5SF UTP3	Grey	5402473	6117 96 2		76	SKS-D3 AL1	Aluminium painted / PC	6213139	6117 04 9		52
RK-C5SF UTP5	Grey	5402480	6117 96 4		76	SKS-D3 AL2	Aluminium painted / PC	6213191	6117 06 0		52
						SKS-D3 AL3	Aluminium painted / PC	6213436	6117 07 1		52
RK-C6S FTP1	Grey	5402527	6117 96 6		76						
RK-C6S FTP3	Grey	5402534	6117 96 8		76	SKS-D3 MZGN1	Mint green / PC	6459131	6117 04 5		52
RK-C6S FTP5	Grey	5402541	6117 97 0		76	SKS-D3 MZGN2	Mint green / PC	6459674	6117 05 6		52
						SKS-D3 MZGN3	Mint green / PC	6459971	6117 06 7		52
RS-BS1 AL1	Aluminium painted	5276005	6117 65 5		66	SKS-D3 ROR1	Orange / PC	6459070	6117 04 3		52
RS-BS1 RW1	Pure white	5275992	6117 65 4		66	SKS-D3 ROR2	Orange / PC	6459612	6117 05 4		52
						SKS-D3 ROR3	Orange / PC	6459858	6117 06 5		52
						SKS-D3 RW1	Pure white / PC	6459018	6117 04 1		52
RS-BS1 SWGR1	Black-grey	5701132	6117 65 3		66	SKS-D3 RW2	Pure white / PC	6459551	6117 05 2		52
						SKS-D3 RW2	Pure white / PC	6459551	6117 05 2		101
						SKS-D3 RW3	Pure white / PC	6459797	6117 06 3		52

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				/pc.						/pc.	
SKS-D3 SRO1	Signal red / PC	6459377	6117 04 7		52	SKS-FC0 AL3	Aluminium painted / PC	5364375	6106 69 9		54
SKS-D3 SRO2	Signal red / PC	6459735	6117 05 8		52	SKS-FC0 MZGN1	Mint green / PC	5364177	6106 67 5		54
SKS-D3 SRO3	Signal red / PC	6460038	6117 06 9		52	SKS-FC0 MZGN2	Mint green / PC	5364245	6106 68 5		54
						SKS-FC0 MZGN3	Mint green / PC	5364320	6106 69 5		54
SKS-D3 SWGR1	Black-grey / PC	5700906	6117 04 8		52	SKS-FC0 ROR1	Orange / PC	5364146	6106 67 3		54
SKS-D3 SWGR2	Black-grey / PC	5700913	6117 05 9		52	SKS-FC0 ROR2	Orange / PC	5364238	6106 68 3		54
SKS-D3 SWGR3	Black-grey / PC	5700920	6117 07 0		52	SKS-FC0 ROR3	Orange / PC	5364313	6106 69 3		54
						SKS-FC0 RW1	Pure white / PC	5364139	6106 67 1		54
SKS-DK0 RW1	Pure white / PC	5462231	6117 20 2		55	SKS-FC0 RW2	Pure white / PC	5364207	6106 68 1		54
SKS-DK0 RW1	Pure white / PC	5462231	6117 20 2		102	SKS-FC0 RW3	Pure white / PC	5364306	6106 69 1		54
						SKS-FC0 SRO1	Signal red / PC	5364184	6106 67 7		54
SKS-DKE0 RW1	Pure white / PC	5616016	6117 20 3		55	SKS-FC0 SRO2	Signal red / PC	5364252	6106 68 7		54
						SKS-FC0 SRO3	Signal red / PC	5364368	6106 69 7		54
SKS-DS3 AL2	Aluminium painted / PC	5437987	6117 08 2		60						
SKS-DS3 AL3	Aluminium painted / PC	5670919	6119 86 0		60	SKS-FC3 AL1	Aluminium painted / PC	5364443	6106 70 9		54
SKS-DS3 MZGN2	Mint green / PC	5437949	6117 07 8		60	SKS-FC3 AL2	Aluminium painted / PC	5364535	6106 71 9		54
SKS-DS3 MZGN3	Mint green / PC	5670889	6119 85 4		60	SKS-FC3 AL3	Aluminium painted / PC	5364603	6106 72 9		55
SKS-DS3 ROR2	Orange / PC	5437932	6117 07 6		60	SKS-FC3 MZGN1	Mint green / PC	5364429	6106 70 5		54
SKS-DS3 ROR3	Orange / PC	5670872	6119 85 2		60	SKS-FC3 MZGN2	Mint green / PC	5364498	6106 71 5		54
SKS-DS3 RW2	Pure white / PC	5437925	6117 07 4		60	SKS-FC3 MZGN3	Mint green / PC	5364566	6106 72 5		55
SKS-DS3 RW3	Pure white / PC	5670865	6119 85 0		60	SKS-FC3 ROR1	Orange / PC	5364412	6106 70 3		54
SKS-DS3 SRO2	Signal red / PC	5437970	6117 08 0		60	SKS-FC3 ROR2	Orange / PC	5364481	6106 71 3		54
SKS-DS3 SRO3	Signal red / PC	5670896	6119 85 6		60	SKS-FC3 ROR3	Orange / PC	5364559	6106 72 3		55
SKS-DS3 SWGR2	Black-grey / PC	5700937	6117 08 1		60	SKS-FC3 RW1	Pure white / PC	5364382	6106 70 1		54
SKS-DS3 SWGR3	Black-grey / PC	5670902	6119 85 8		60	SKS-FC3 RW2	Pure white / PC	5364474	6106 71 1		54
						SKS-FC3 RW3	Pure white / PC	5364542	6106 72 1		55
SKS-F0 AL1	Aluminium painted / PC	6213498	6117 11 0		53	SKS-FC3 SRO1	Signal red / PC	5364436	6106 70 7		54
SKS-F0 AL2	Aluminium painted / PC	6213559	6117 11 9		53	SKS-FC3 SRO2	Signal red / PC	5364504	6106 71 7		54
SKS-F0 AL3	Aluminium painted / PC	6213795	6117 13 1		53	SKS-FC3 SRO3	Signal red / PC	5364597	6106 72 7		55
SKS-F0 MZGN1	Mint green / PC	6460212	6117 10 6		53	SKS-FS3 AL2	Aluminium painted / PC	5670995	6119 87 8		60
SKS-F0 MZGN2	Mint green / PC	6188956	6117 11 5		53	SKS-FS3 AL3	Aluminium painted / PC	5671084	6119 89 0		60
SKS-F0 MZGN3	Mint green / PC	6189373	6117 12 7		53	SKS-FS3 MZGN2	Mint green / PC	5670964	6119 87 2		60
						SKS-FS3 MZGN3	Mint green / PC	5671022	6119 88 4		60
SKS-F0 ROR1	Orange / PC	6460151	6117 10 4		53	SKS-FS3 ROR2	Orange / PC	5670957	6119 87 0		60
SKS-F0 ROR2	Orange / PC	6460458	6117 11 3		53	SKS-FS3 ROR3	Orange / PC	5671015	6119 88 2		60
SKS-F0 ROR3	Orange / PC	6189311	6117 12 5		53	SKS-FS3 RW2	Pure white / PC	5670926	6119 86 8		60
SKS-F0 RW1	Pure white / PC	6460090	6117 10 2		53	SKS-FS3 RW3	Pure white / PC	5671008	6119 88 0		60
SKS-F0 RW1	Pure white / PC	6460090	6117 10 2		101	SKS-FS3 SRO2	Signal red / PC	5670971	6119 87 4		60
SKS-F0 RW2	Pure white / PC	6460335	6117 11 1		53	SKS-FS3 SRO3	Signal red / PC	5671039	6119 88 6		60
SKS-F0 RW3	Pure white / PC	6189076	6117 12 3		53	SKS-FS3 SWGR2	Black-grey / PC	5670988	6119 87 6		60
						SKS-FS3 SWGR3	Black-grey / PC	5671046	6119 88 8		60
SKS-F0 SRO1	Signal red / PC	6460274	6117 10 8		53						
SKS-F0 SRO2	Signal red / PC	6189014	6117 11 7		53	STA-SKS S1 SW	Black	5438090	6117 19 2		60
SKS-F0 SRO3	Signal red / PC	6189618	6117 12 9		53	STA-SKS S1 W	White	5483571	6117 19 3		60
						STA-SKS SU1 SW	Black	5670933	6117 19 6		61
SKS-F0 SWGR1	Black-grey / PC	5700944	6117 10 9		53	STA-SKS SU1 W	White	5670940	6117 19 7		61
SKS-F0 SWGR2	Black-grey / PC	5433552	6117 11 8		53	ST-F GST18i3p SW	Black	5273530	6108 05 0		110
SKS-F0 SWGR3	Black-grey / PC	5433569	6117 13 0		53	ST-F GST18i3p W	White	5273547	6108 05 1		110
SKS-F3 AL1	Aluminium painted / PC	6213856	6117 14 8		53	ST-S GST18i3p SW	Black	5273608	6108 05 4		110
SKS-F3 AL2	Aluminium painted / PC	6213917	6117 15 9		53	ST-S GST18i3p W	White	5273646	6108 05 5		110
SKS-F3 AL3	Aluminium painted / PC	6213979	6117 17 0		53	ST-S GST18i5p SW	Black	5273707	6108 07 0		111
SKS-F3 MZGN1	Mint green / PC	6287291	6117 14 4		53						
SKS-F3 MZGN2	Mint green / PC	6637218	6117 15 5		53	TA-B AL0.5	Aluminium painted	5276050	6117 67 1		64
SKS-F3 MZGN3	Mint green / PC	6461356	6117 16 6		53						
						TA-B AL1	Aluminium painted	5623816	6117 67 4		64
SKS-F3 ROR1	Orange / PC	6189854	6117 14 2		53						
SKS-F3 ROR2	Orange / PC	6538690	6117 15 3		53	TA-B RW0.5	Pure white	5276043	6117 67 0		64
SKS-F3 ROR3	Orange / PC	6461233	6117 16 4		53						
SKS-F3 RW1	Pure white / PC	6189793	6117 14 0		53	TA-B RW1	Pure white	5623809	6117 67 3		64
SKS-F3 RW2	Pure white / PC	6460632	6117 15 1		53						
SKS-F3 RW2	Pure white / PC	6460632	6117 15 1		101	TA-B SWGR0.5	Black-grey	5701156	6117 66 8		64
SKS-F3 RW3	Pure white / PC	6461110	6117 16 2		53	TA-B SWGR1	Black-grey	5701323	6117 66 9		64
SKS-F3 SRO1	Signal red / PC	6287536	6117 14 6		53						
SKS-F3 SRO2	Signal red / PC	6461059	6117 15 7		53						
SKS-F3 SRO3	Signal red / PC	6461530	6117 16 8		53	TAE-6F AL1	Aluminium painted	6215959	6117 43 0		70
SKS-F3 SWGR1	Black-grey / PC	5700968	6117 14 7		53	TAE-6F RW1	Pure white	6215713	6117 42 8		70
SKS-F3 SWGR2	Black-grey / PC	5700975	6117 15 8		53						
SKS-F3 SWGR3	Black-grey / PC	5700982	6117 16 9		53	TA-K AL0.5	Aluminium painted	5405993	6117 67 9		64
SKS-FC0 AL1	Aluminium painted / PC	5364191	6106 67 9		54	TA-K RW0.5	Pure white	5405962	6117 67 8		64
SKS-FC0 AL2	Aluminium painted / PC	5364269	6106 68 9		54						

Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
TA-K SWGR0.5	Black-grey	5701347	6117 67 7	/pc.	64	VB-T GST18i3p	Black	5273776	6108 08 4	/pc.	111
TA-NA AL0.5	Aluminium painted	5276104	6117 67 6		64	VH-4 3SD1C16	Graphite black/ PA	5125075	6109 80 4		98
TA-NA RW0.5	Pure white	5276067	6117 67 5		64	VH-4 3SF1C16	Graphite black/ PA	5125099	6109 80 8		98
TA-NA SWGR0.5	Black-grey	5701330	6117 67 2		64	VH-4 4SD	Graphite black/ PA	5125044	6109 80 2		98
TD-AB21 AL0.5	Aluminium painted	5675341	6117 55 2		67	VH-4 4SF	Graphite black/ PA	5125082	6109 80 6		98
TD-AB21 RW0.5	Pure white	5675297	6117 54 8		67	VH-4 LG	Graphite black/ PA	5125037	6109 80 0		98
TD-AB21 SWGR0.5	Black-grey	5675303	6117 55 0		67	VH-4 TW	Graphite black/ PVC	5125266	6109 83 2		100
TD-AN21 AL0.5	Aluminium painted	5675280	6117 54 4		67	VH-4L 3SD1C16	Graphite black/ PA	5125143	6109 81 4		99
TD-AN21 RW0.5	Pure white	5675242	6117 54 0		67	VH-4L 3SF1C16	Graphite black/ PA	5125167	6109 81 8		99
TD-AN21 SWGR0.5	Black-grey	5675273	6117 54 2		67						
TG-UP80M1	Transparent	5438229	6119 93 4		83	VH-4L 4SD	Graphite black/ PA	5125136	6109 81 2		98
TG-UP80M1S	Transparent	5523024	6119 93 6		83	VH-4L 4SF	Graphite black/ PA	5125150	6109 81 6		99
TG-UPM1	Transparent	5406341	6119 95 5		84	VH-4L LG	Graphite black/ PA	5125105	6109 81 0		98
TG-UPM2	Transparent	5406358	6119 95 6		85	VH-8 LG	Graphite black/ PA	5287391	6109 82 1		99
TG-UPM3	Transparent	5406365	6119 95 7		86	VH-8 LG8P2	Graphite black/ PA	5125198	6109 82 0		99
						VH-8 TW	Graphite black/ PVC	5125440	6109 86 2		100
UG 60 D	Black 40/ PS	5000204	2003 01 5	price/100 pc.	82	VH-8L LG	Graphite black/ PA	5125211	6109 82 5		99
UG 60 SD	Red/ PE	5029298	2003 31 7		82	VHF-8 LG	Graphite black/ PA	5125204	6109 82 2		103
UG 60 VD	Black 60/ PS	5002314	2003 01 9		82	VH-F80	/ St	5287407	6109 83 1		100
						VHF-8L LG	Graphite black/ PA	5125228	6109 82 7		103
UG-UPM1	Natural	5406075	6119 94 0	/pc.	84	VHF-AE4TE		5125341	6109 85 0		104
UG-UPM2	Natural	5406082	6119 94 1		85	VHF-F100	/ St	5125259	6109 83 0		103
UG-UPM3	Natural	5406112	6119 94 3		86	VHF-P1	Rapeseed yellow/ PVC	5125532	6109 86 8		104
ÜSM-A		5080886	5092 45 1		56	VHF-P10	Rapeseed yellow/ PVC	5125457	6109 86 3		103
ÜSM-A		5080886	5092 45 1		61	VHF-P11	Rapeseed yellow/ PVC	5125464	6109 86 4		104
ÜSM-A		5080886	5092 45 1		69	VHF-P3	Rapeseed yellow/ PVC	5125501	6109 86 5		104
ÜSS 45-A-ALU	Aluminium painted	5006220	6117 46 7		69	VHF-P6	Rapeseed yellow/ PVC	5125525	6109 86 7		104
ÜSS 45-A-RW	Pure white	6117611	6117 46 5		69	VHF-P7	Rapeseed yellow/ PVC	5477440	6109 87 8		104
ÜSS 45-O-ALU	Aluminium painted	5006213	6117 47 5		69	VHF-P8	Rapeseed yellow/ PVC	5477457	6109 87 9		104
ÜSS 45-O-RW	Pure white	6117673	6117 47 3		69	VHF-P9	Rapeseed yellow/ PVC	5125518	6109 86 6		104
UVS-6S2	/ ST	5122265	6108 00 0		109	VHF-T1	/ St	5125372	6109 85 2		105
UVS-6S2SA	/ ST	5522997	6108 01 2		109	VHF-T2	/ St	5125389	6109 85 4		105
						VHF-TW	Graphite black/ PVC	5125396	6109 86 0		103
UVS-6S6W2	/ ST	5122289	6108 01 0		109	VHF-TW L	Graphite black/ PVC	5125402	6109 86 1		103
UVS-6S6W2SA	/ ST	5523017	6108 01 6		109					/m	
UVS-6W2	/ ST	5122272	6108 00 5		109	VH-K800	/ St	5125549	6109 87 0		100
						VH-K800	/ St	5125549	6109 87 0		103
UVS-6W2SA	/ ST	5523000	6108 01 4		109	VH-P1	Rapeseed yellow/ PA	5125334	6109 84 2	/pc.	101
						VH-P2	Rapeseed yellow/ PA	5125273	6109 83 4		100
VB-3 GST18i3p	Black	5273721	6108 08 0		110	VH-P3	Rapeseed yellow/ PA	5125310	6109 83 8		101
VB-5 GST18i3p	Black	5273769	6108 08 2		111	VH-P4	Rapeseed yellow/ PA	5125327	6109 84 0		100
VB-SKS S	Black	5438113	6117 19 8		61	VH-P5	Rapeseed yellow/ PA	5125280	6109 83 6		100
						VH-P7	Rapeseed yellow/ PA	5428459	6109 83 9		101

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
				/pc.						/pc.	
VL-3Q1.5 1 SW		5122326	6108 10 0		112	VL-3Q2.5 H3 SW		5124382	6108 45 2		113
VL-3Q1.5 1 W		5122692	6108 12 5		112	VL-3Q2.5 H3 W		5124788	6108 47 7		113
VL-3Q1.5 10 SW		5122500	6108 10 9		112	VL-3Q2.5 H4 SW		5124429	6108 45 3		113
VL-3Q1.5 10 W		5122876	6108 13 4		112	VL-3Q2.5 H4 W		5124795	6108 47 8		113
VL-3Q1.5 11 SW		5122517	6108 11 0		112						
VL-3Q1.5 11 W		5122883	6108 13 5		112						
VL-3Q1.5 12 SW		5122524	6108 11 1		112						
VL-3Q1.5 12 W		5122920	6108 13 6		112						
VL-3Q1.5 13 SW		5122562	6108 11 2		112						
VL-3Q1.5 13 W		5122937	6108 13 7		112						
VL-3Q1.5 14 SW		5122579	6108 11 3		112						
VL-3Q1.5 14 W		5122944	6108 13 8		112						
VL-3Q1.5 15 SW		5122586	6108 11 4		112						
VL-3Q1.5 15 W		5122982	6108 13 9		112						
VL-3Q1.5 2 SW		5122333	6108 10 1		112						
VL-3Q1.5 2 W		5122708	6108 12 6		112						
VL-3Q1.5 3 SW		5122340	6108 10 2		112						
VL-3Q1.5 3 W		5122746	6108 12 7		112						
VL-3Q1.5 4 SW		5122388	6108 10 3		112						
VL-3Q1.5 4 W		5122753	6108 12 8		112						
VL-3Q1.5 5 SW		5122395	6108 10 4		112						
VL-3Q1.5 5 W		5122760	6108 12 9		112						
VL-3Q1.5 6 SW		5122401	6108 10 5		112						
VL-3Q1.5 6 W		5122807	6108 13 0		112						
VL-3Q1.5 7 SW		5122449	6108 10 6		112						
VL-3Q1.5 7 W		5122814	6108 13 1		112						
VL-3Q1.5 8 SW		5122456	6108 10 7		112						
VL-3Q1.5 8 W		5122821	6108 13 2		112						
VL-3Q1.5 9 SW		5122463	6108 10 8		112						
VL-3Q1.5 9 W		5122869	6108 13 3		112						
VL-3Q2.5 1 SW		5123064	6108 15 0		112						
VL-3Q2.5 1 W		5123422	6108 17 5		113						
VL-3Q2.5 10 SW		5123248	6108 15 9		112						
VL-3Q2.5 10 W		5123552	6108 18 4		113						
VL-3Q2.5 11 SW		5123286	6108 16 0		112						
VL-3Q2.5 11 W		5123569	6108 18 5		113						
VL-3Q2.5 12 SW		5123293	6108 16 1		112						
VL-3Q2.5 12 W		5123576	6108 18 6		113						
VL-3Q2.5 13 SW		5123309	6108 16 2		112						
VL-3Q2.5 13 W		5123590	6108 18 7		113						
VL-3Q2.5 14 SW		5123347	6108 16 3		112						
VL-3Q2.5 14 W		5123606	6108 18 8		113						
VL-3Q2.5 15 SW		5123354	6108 16 4		112						
VL-3Q2.5 15 W		5123613	6108 18 9		113						
VL-3Q2.5 2 SW		5123101	6108 15 1		112						
VL-3Q2.5 2 W		5123453	6108 17 6		113						
VL-3Q2.5 3 SW		5123118	6108 15 2		112						
VL-3Q2.5 3 W		5123460	6108 17 7		113						
VL-3Q2.5 4 SW		5123125	6108 15 3		112						
VL-3Q2.5 4 W		5123477	6108 17 8		113						
VL-3Q2.5 5 SW		5123163	6108 15 4		112						
VL-3Q2.5 5 W		5123484	6108 17 9		113						
VL-3Q2.5 6 SW		5123170	6108 15 5		112						
VL-3Q2.5 6 W		5123514	6108 18 0		113						
VL-3Q2.5 7 SW		5123187	6108 15 6		112						
VL-3Q2.5 7 W		5123521	6108 18 1		113						
VL-3Q2.5 8 SW		5123224	6108 15 7		112						
VL-3Q2.5 8 W		5123538	6108 18 2		113						
VL-3Q2.5 9 SW		5123231	6108 15 8		112						
VL-3Q2.5 9 W		5123545	6108 18 3		113						
VL-3Q2.5 H1 SW		5124368	6108 45 0		113						
VL-3Q2.5 H1 W		5124733	6108 47 5		113						
VL-3Q2.5 H10 SW		5124542	6108 45 9		113						
VL-3Q2.5 H10 W		5124894	6108 48 4		113						
VL-3Q2.5 H11 SW		5124559	6108 46 0		113						
VL-3Q2.5 H11 W		5124900	6108 48 5		113						
VL-3Q2.5 H12 SW		5124566	6108 46 1		113						
VL-3Q2.5 H12 W		5124917	6108 48 6		113						
VL-3Q2.5 H13 SW		5124603	6108 46 2		113						
VL-3Q2.5 H13 W		5124924	6108 48 7		113						
VL-3Q2.5 H14 SW		5124610	6108 46 3		113						
VL-3Q2.5 H14 W		5124955	6108 48 8		113						
VL-3Q2.5 H15 SW		5124627	6108 46 4		113						
VL-3Q2.5 H15 W		5124962	6108 48 9		113						
VL-3Q2.5 H2 SW		5124375	6108 45 1		113						
VL-3Q2.5 H2 W		5124740	6108 47 6		113						

Discount groups

A	EGS device systems	N	Steel, impu, Siko needles
B	Lightning protection components	Q	Quick® clips
C	Switch range, wet room range UP, hospital systems	R	RKS Rational cable tray system
D	Electronic devices, radio systems, Deskboxes	T	Support clamp systems
E	Connection and fastening systems	U	Underfloor systems
F	Fire protection systems	V	Threaded joints + insulating accessories
G	Surge protection, devices, chemical articles	W	Threaded joints + brass accessories
H	Screws	X	BKK Cable tray systems
I	Plastic line routing trunking, wiring trunking	Z	Shipbuilding systems
J	Skirting board ducts, floor duct	Ö	OBO BUS system
K	Cable tray, cable ladders, AZ small ducts	Ö01	Cast aluminium range
L	Wall trunking bases, metal cable routing trunking, service poles		
M	Concealed and cavity wall systems		



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3. Verpackung, Versandweg und auch Transportmittel sind mangels besonderer Vereinbarungen unserer Wahl überlassen. Sie werden jeweils zum Selbstkostenpreis berechnet, Kisten nehmen wir bei frachtfreier Rücksendung, wenn solche unbeschädigt sind, zu 2/3 des berechneten Betrages zurück. Die zum Transport verwendeten Einweg- oder Poolpaletten sind bei Übernahme auszutauschen oder zurückzusenden. Lagermäßig geführte und in der Liste ausgewiesene kleinste Verpackungseinheiten können aus Rationalisierungsgründen nicht angebrochen werden. Bei Bestellung abweichender Stückzahlen wird die nächstliegende Verpackungseinheit geliefert.

Über- und Unterlieferungen, insbesondere bei auftragsbezogener Fertigung, behalten wir uns im marktüblichen Rahmen bzw. dem nationalen oder internationalen Standard entsprechend vor. Bei der Forderung nach exakter Mengeneinhaltung ist ein ausdrücklicher Hinweis erforderlich, der bestätigt werden muss.

Rahmen- und Abrufaufträge verpflichten den Kunden zur Abnahme der dem Rahmen-/Abrufauftrag zu Grunde liegenden Gesamtmenge. Soweit sich aus dem Vertrag keine bestimmten Abrufaufträge ergeben, ist die gesamte Menge des Rahmen-/Abrufauftrages innerhalb von zwölf Monaten abzurufen. Werden vom Kunden Abruftermine nicht eingehalten, so sind wir berechtigt, vier Wochen nach schriftlicher Ankündigung unter Hinweis auf die Folgen des unterbliebenen Abrufes die Gesamtmenge vollständig zu liefern und zu berechnen. Unsere Rechte aus einem Verzug des Kunden bleiben unberührt.

4. Unsere Preise verstehen sich, falls nichts anderes vereinbart ist, ab Werk und schließen Verpackung und Versicherung nicht ein. Zu unseren Preisen kommt die am Tage der Auslieferung gültige Mehrwertsteuer hinzu. Der Abnehmer versichert die Richtigkeit seiner UST-Ident.-Nr., die er uns unverzüglich ohne Aufforderung mitteilt. Er verpflichtet sich, jede Änderung seines Namens, seiner Anschrift und seiner UST-Ident.-Nr. sowohl uns als auch der für ihn zuständigen Inlands-Finanzbehörde unverzüglich mitzuteilen.

Eine Frankolieferung, d.h. fracht- und verpackungsfreie Lieferung innerhalb Deutschlands, erfolgt ab einem Nettoauftragswert von € 1.200,- frei Haus. Für Kleinbestellungen unter € 100,- (netto ohne Mehrwertsteuer) berechnen wir einen Mindermengenzuschlag von € 10,- (netto) pro Auftrag. Mit der Übergabe der Lieferungen und Leistungen an einen Spediteur oder Frachtführer, spätestens mit dem Verlassen unseres Lagers oder des Lieferwerkes geht die Gefahr, auch bei Lieferungen frei Bestimmungsort, auf den Empfänger über.

5. Lieferfristen und Liefertermine gelten nur annähernd, es sei denn, dass wir diese schriftlich und ausdrücklich als verbindlich bezeichnet haben. Lieferfristen beginnen mit dem Zugang unserer Auftragsbestätigung, jedoch nicht vor Klärstellung aller Ausführungs Einzelheiten, und verstehen sich ab Lieferort. Ein Rücktritt des Kunden ist nur nach Setzung einer angemessenen Nachfrist möglich. Teillieferungen bleiben vorbehalten. Schadens- und Aufwendungsersatzansprüche - gleich aus welchem Grund - bestehen nur nach Maßgabe der Regelungen in Ziff. 10.

Ereignisse, die wir im Rahmen eines üblichen Betriebsrisikos nicht zu vertreten haben und die uns die Lieferung wesentlich erschweren oder unmöglich machen, berechtigen uns, die Lieferung um die Dauer der Behinderung und einer angemessenen Anlaufzeit hinauszuschieben oder wegen des noch nicht erfüllten Teils vom Vertrag zurückzutreten.

Der Käufer kann von uns die Erklärung verlangen, ob wir innerhalb einer angemessenen Frist liefern oder ob wir zurücktreten wollen. Erklären wir uns nicht, so kann der Käufer zurücktreten. Die von uns gegenüber dem Käufer abgegebene Erklärung gilt als ausreichender Beweis, dass wir an der Belieferung behindert sind.

Die Lieferfrist verlängert sich bei Maßnahmen im Rahmen von Arbeitskämpfen, Streik und Aussperrung, behördlichen Anordnungen, Materialbeschaffungsschwierigkeiten, Ausschuss oder Nachbearbeitung, Betriebsstörungen und Personalmangel und Mangel an Transportmitteln sowie insgesamt beim Eintritt von unvorhergesehenen Ereignissen, auf welche wir keinen Einfluss haben, entsprechend der Dauer dieser Ereignisse.

6. Zahlungen sind bei Rechnungserhalt mit 3 % Skonto innerhalb von 10 Tagen, nach 30 Tagen ab Rechnungsdatum netto zu leisten. Montageleistungen bzw. sämtliche Lohnarbeiten sind ohne Skontoabzug innerhalb von 10 Tagen zu zahlen. Bei unbaren Zahlungen gilt der Tag der Gutschriftsanzeige als Zahlungseingang. Eingehende Zahlungen sind stets zunächst auf Kosten, dann auf Zinsen und sodann auf die älteste Schuld anzurechnen. Schecks und Wechsel werden nur zahlungshalber angenommen. Die Zahlung durch Wechsel unterliegt vorheriger gesonderter und schriftlicher Vereinbarung, wobei alle Wechsel-Kosten zu Lasten des Kunden gehen und kein Skonto gewährt werden kann. Dem Kunden steht - gleich aus welchem Rechtsgrund - ein Leistungsverweigerungs- oder Zurückbehaltungsrecht nicht zu, sofern wir seinen Anspruch nicht zuvor schriftlich anerkannt haben oder dieser Anspruch rechtskräftig festgestellt ist.

Eine Aufrechnung seitens des Kunden ist nur dann möglich, wenn seine Forderung rechtskräftig festgestellt oder unstreitig ist bzw. wenn sie von uns schriftlich anerkannt ist.

7. Die von uns gelieferten Waren bleiben unser Eigentum, bis unsere sämtlichen Forderungen aus allen Geschäften mit dem Kunden befriedigt sind - Kontokorrentklausel - und in Zahlung gegebene Wechsel oder Schecks vom Kunden eingelöst sind.

Die Be- und Verarbeitung der Vorbehaltsware erfolgt für uns als Hersteller im Sinne des § 950 BGB, ohne uns zu verpflichten. Wenn unsere Vorbehaltsware als Hauptsache anzusehen ist oder die Hauptsache im Eigentum des Kunden steht, geht das an der neuen Sache entstehende Eigentum mit seiner Entstehung in vollem Umfang auf uns über. In sonstigen Fällen erwerben wir Miteigentum an der neuen Sache, und zwar nach dem Verhältnis des Verkaufswertes unserer Vorbehaltsware zu den anderen für die neue Sache verwandten Waren im Zeitpunkt der Verarbeitung, Vermischung, Verbindung oder Vermengung. Der Kunde nimmt unser Eigentum oder Miteigentum für uns unentgeltlich in Verwahrung, es wird wie Vorbehaltsware behandelt.

Vor Eigentumsübergang darf unsere Ware ohne vorherige Zustimmung weder verpfändet noch zur Sicherheit übereignet werden. Ferner sind die Geltendmachung von Rechten Dritter an der Ware oder Pfändungen uns sofort mitzuteilen und uns alle für eine Intervention notwendigen Angaben zu machen und Urkunden auszuhändigen, andernfalls hat der Kunde unseren Schaden zu tragen. Im letzteren Fall werden außerdem unsere gesamten

Forderungen gegen den Kunden sofort fällig.

Der Kunde ist berechtigt, unsere Vorbehaltsware im Rahmen eines ordnungsgemäßen Geschäftsganges zu veräußern bzw. zu verwenden unter der Voraussetzung, dass tatsächlich ein Forderungsübergang nach Ziff. 8 stattfindet. Die Berechtigung erlischt, sofern der Kunde seinen Zahlungsverpflichtungen uns gegenüber nicht pünktlich nachkommt oder bei ihm Scheck- oder Wechselproteste vorkommen oder er seine Zahlungen einstellt. In diesem Fall sind wir berechtigt, die Waren vorläufig auf Kosten des Kunden wieder an uns zu nehmen und außerdem nach erfolgter Mahnung die Ware nach unserem pflichtgemäßen Ermessen zu verwerten. Wir werden dem Kunden dann eine entsprechende Gutschrift erteilen.

8. Werden unsere Waren vor Bezahlung unserer Forderung veräußert, ist der Kunde verpflichtet, unsere Eigentumsrechte bis zur vollständigen Bezahlung der Waren durch seinen Abnehmer diesem gegenüber vorzubehalten. Die durch den Weiterverkauf entstehende Forderung gegen den Abnehmer wird hiermit ebenso wie sonstige Neben- oder Sicherungsrechte des Kunden aus dem Verkauf sowie etwaige Ersatzansprüche bei Beschädigung oder Zerstörung unseres Vorbehalts Eigentums, worunter auch die an seine Stelle tretende Versicherungssumme fällt, an uns abgetreten. Wir nehmen diese Abtretung hiermit an. Soweit unser Miteigentum veräußert wird, erstreckt sich die Abtretung der Forderungen auf den Betrag, der unserem Anteilswert entspricht.

Auf Verlangen hat uns der Kunde seine Abnehmer mitzuteilen und diesen die Abtretung anzuzeigen sowie uns alle zur Geltendmachung der Rechte erforderlichen Urkunden auszuhändigen.

Solange der Kunde uns gegenüber seine vertraglichen Verpflichtungen pünktlich erfüllt, ist er ermächtigt, die abgetretenen Forderungen einzuziehen. Er hat die für uns eingezogenen Beträge gesondert zu verwahren und sofort an uns abzuführen, sobald und soweit unsere Forderungen fällig werden. Die Ermächtigung erlischt bei einem Scheck- oder Wechselprotest des Kunden oder endgültiger Zahlungseinstellung des Kunden. Der Kunde hat die Kosten einer etwaigen Intervention gegen Dritte zu tragen und sie auf Verlangen vorzuschießen.

Wenn unsere Sicherung durch den Eigentumsvorbehalt und die Vorausabtretung die zu sichernden Forderungen um mehr als 20 % übersteigt, sind wir verpflichtet, auf Verlangen des Kunden bezahlte Lieferungen nach unserer Wahl freizugeben. Mit Tilgung aller unserer Forderungen gegen den Kunden gehen abgetretene Forderungen auf den Kunden über.

9. Beanstandungen, die sich auf offensichtliche und bei sorgfältiger Prüfung erkennbare Mängel über Umfang oder Qualität unserer Lieferungen und Leistungen beziehen, müssen unverzüglich, spätestens innerhalb einer Ausschlussfrist von acht Tagen nach Eintreffen der Ware beim Kunden oder bei dem von ihm Benannten, schriftlich bei uns, nicht bei unseren Vertretern, eingegangen sein. Geringe Abweichungen in den Dimensionen und Ausführungen im Rahmen der technisch vorgegebenen Toleranzen berechtigen nicht zu Reklamationen. Die Rücksendung etwa beanstandeter Ware hat nur nach unserer vorherigen schriftlichen Einwilligung zu erfolgen. Bei berechtigter und fristgemäßer Mängelrüge beheben wir den Mangel im Wege der Nacherfüllung nach unserer Wahl durch die Beseitigung des Mangels, die Lieferung einer mangelfreien Sache oder gewähren eine Gutschrift über den berechneten Minderwert.

Wir sind berechtigt, nach den gesetzlichen Bestimmungen eine Nacherfüllung zu verweigern. Im Fall der Verweigerung der Nacherfüllung, des Fehlschlages oder ihrer Unzumutbarkeit für den Kunden, ist dieser zum Rücktritt gemäß den Bestimmungen der folgenden Sätze berechtigt. Zum Rücktritt vom Vertrag - soweit ein Rücktritt nicht gesetzlich ausgeschlossen ist - ist der Kunde erst nach erfolglosem Ablauf einer von ihm gesetzlich angemessenen Frist zur Nacherfüllung berechtigt, es sei denn, die Frist wäre nach den gesetzlichen Bestimmungen entbehrlich (§§ 281 Abs. 2, 323 Abs. 2, 440, 441 Abs. 1 BGB).

Im Fall des Rücktritts haftet der Kunde für Verschlechterung, Untergang und nicht gezogene Nutzungen für jedes fahrlässige und vorsätzliche Verschulden. Für etwaige Schadensersatz- und Aufwendungsersatzansprüche des Kunden gelten die Bestimmungen in Ziffer 10.

Im Fall des arglistigen Verschweigens eines Mangels oder im Fall der Übernahme einer Beschaffenheitsgarantie der Sache zum Zeitpunkt des Gefahrübergangs im Sinne von § 444 BGB (Erklärung des Verkäufers, dass der Kaufgegenstand bei Gefahrübergang eine bestimmte Eigenschaft hat und dass der Verkäufer verschuldensunabhängig für alle Folgen ihres Fehlens einstehen will), richten sich die Rechte des Kunden ausschließlich nach den gesetzlichen Bestimmungen.

Wir sind - neben den gesetzlichen Verweigerungsgründen - zur Verweigerung der Nacherfüllung auch dann und solange berechtigt, wie uns der Kunde nicht auf unsere Aufforderung hin die beanstandete Ware oder ein Muster zugesandt hat; ein Rücktrittsrecht steht dem Kunden wegen einer solchen Verweigerung nicht zu. Wir sind nicht zur Nacherfüllung verpflichtet, wenn ohne unsere Zustimmung Eingriffe oder Änderungen an der Ware vorgenommen wurden, es sei denn, der Kunde weist nach, daß der Mangel nicht durch diese Eingriffe oder Änderungen verursacht wurde.

Die Verjährungsfrist für Mängelansprüche beträgt ein Jahr; bei einer Sache, die entsprechend ihrer üblichen Verwendungsweise für ein Bauwerk verwendet worden ist und dessen Mangelhaftigkeit verursacht hat, zwei Jahre. Die Regeln der §§ 478, 479 BGB zum Rückgriff in der Lieferantenkette bleiben unberührt.

10. Im Fall einer vorvertraglichen, vertraglichen oder außervertraglichen Pflichtverletzung, auch bei einer mangelhaften Lieferung, unerlaubten Handlung und Produzentenhaftung, haften wir auf Schadens- und Aufwendungsersatz - vorbehaltlich weiterer vertraglicher oder gesetzlicher Haftungsvoraussetzungen - nur im Fall des Vorsatzes, der groben Fahrlässigkeit sowie im Fall der leicht fahrlässigen Verletzung einer wesentlichen Vertragspflicht (Vertragspflicht, deren Verletzung die Erreichung des Vertragszweckes gefährdet). Jedoch ist unsere Haftung - ausgenommen der Fall des Vorsatzes - auf den bei Vertragsschluss voraussehbaren vertragstypischen Schaden beschränkt. Die Geltendmachung nutzloser Aufwendungen durch den Käufer ist unzulässig.

Außerhalb der Verletzung wesentlicher Pflichten ist unsere Haftung für leichte Fahrlässigkeit ausgeschlossen, in jedem Fall aber auf die Höhe des Kaufpreises beschränkt.

Ein Anspruch des Kunden oder eines Dritten auf Zahlung einer Vertragsstrafe ist ausgeschlossen.

Für Verzögerungsschäden haften wir bei leichter Fahrlässigkeit nur in Höhe von bis zu 5 % des mit uns vereinbarten Kaufpreises.

Die genannten Haftungsausschlüsse und -beschränkungen gelten nicht bei Übernahme einer Garantie für die Beschaffenheit der Sache im Sinne des § 444 BGB im Fall des arglistigen Verschweigens des Mangels, im Fall von Schäden wegen der Verletzung des Lebens, des Körpers oder der Gesundheit sowie im Fall einer zwingenden Haftung nach dem Produkthaftungsgesetz.

Sämtliche Schadensersatzansprüche gegen uns, gleich aus welchem Rechtsgrund, verjähren spätestens nach einem Jahr seit Ablieferung der Sache an den Kunden, im Fall der deliktischen Haftung ab Kenntnis oder grob fahrlässiger Unkenntnis der den Anspruch begründenden Umstände und der Person des Ersatzpflichtigen. Diese Regelung gilt nicht im Fall einer Haftung für Vorsatz sowie im Fall der Übernahme einer Garantie für Beschaffenheit einer Sache, im Fall des arglistigen Verschweigens eines Mangels sowie im Fall von Schäden der Verletzung des Lebens, des Körpers oder der Gesundheit und im Fall einer zwingenden Haftung nach dem Produkthaftungsgesetz. Etwaige kürzere Verjährungsfristen haben Vorrang.

11. Wir sind berechtigt, die bezüglich der Geschäftsbeziehung oder im Zusammenhang mit dieser erhaltenen Daten über den Käufer, gleich ob diese vom Käufer selbst oder von Dritten stammen, im Sinne des Bundesdatenschutzgesetzes zu verarbeiten und zu speichern.

12. Erfüllungsort für Lieferung und Zahlung ist Menden/Sauerland. Gerichtsstand für alle Streitigkeiten, auch bei Wechseln und Schecks, ist das Amtsgericht Menden oder nach unserer Wahl das Landgericht Arnsberg, ohne Rücksicht auf den Ort des Streitgegenstandes. Wir sind aber auch berechtigt, den Auftraggeber an seinem Sitz zu verklagen.

Es gilt ausschließlich deutsches Recht. Die Anwendung der internationalen Kaufgesetze ist ausgeschlossen.

Sollten aus irgendeinem Grunde einzelne Bestimmungen unserer Bedingungen unwirksam sein, so wird die Wirksamkeit und Verbindlichkeit der anderen Bestimmungen nicht davon berührt. Der Kunde ist vielmehr damit einverstanden, dass die unwirksame Bestimmung durch eine wirksame ersetzt wird, die der unwirksamen Bestimmung von ihrem wirtschaftlichen Sinn her nahe kommt.

13. Die Preise der Produkte aus Messing und Kupfer unterliegen gewissen Schwankungen, die sich an den jeweiligen DEL-Notierungen orientieren. Die Preise unserer Messingartikel basieren auf einer DEL-Notierung von € 150,- für Ms 58, die unserer Kupferprodukte auf einem DEL-Wert für Elektrolytkupfer von € 200,-.

Bei einer Veränderung dieser Kurse um mehr als € 15,- nach oben oder unten wird pro 15 Punkte ein fünfprozentiger Zu- oder Abschlag angerechnet. Für die Kalkulation der Zu- oder Abschläge wird jeweils die DEL-Notiz des Datums zu Grunde gelegt, an dem der Auftrag bei uns eingegangen ist.



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