SAFETY AND PROTECTION INSTALLATIONS



External lightning protection

OBO BETTERMANN



Building Connections

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

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





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

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



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Improved structure, sharpened profile



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

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

OBO Product Worlds



Industrial installations

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



Building installations

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



Safety and protection installations

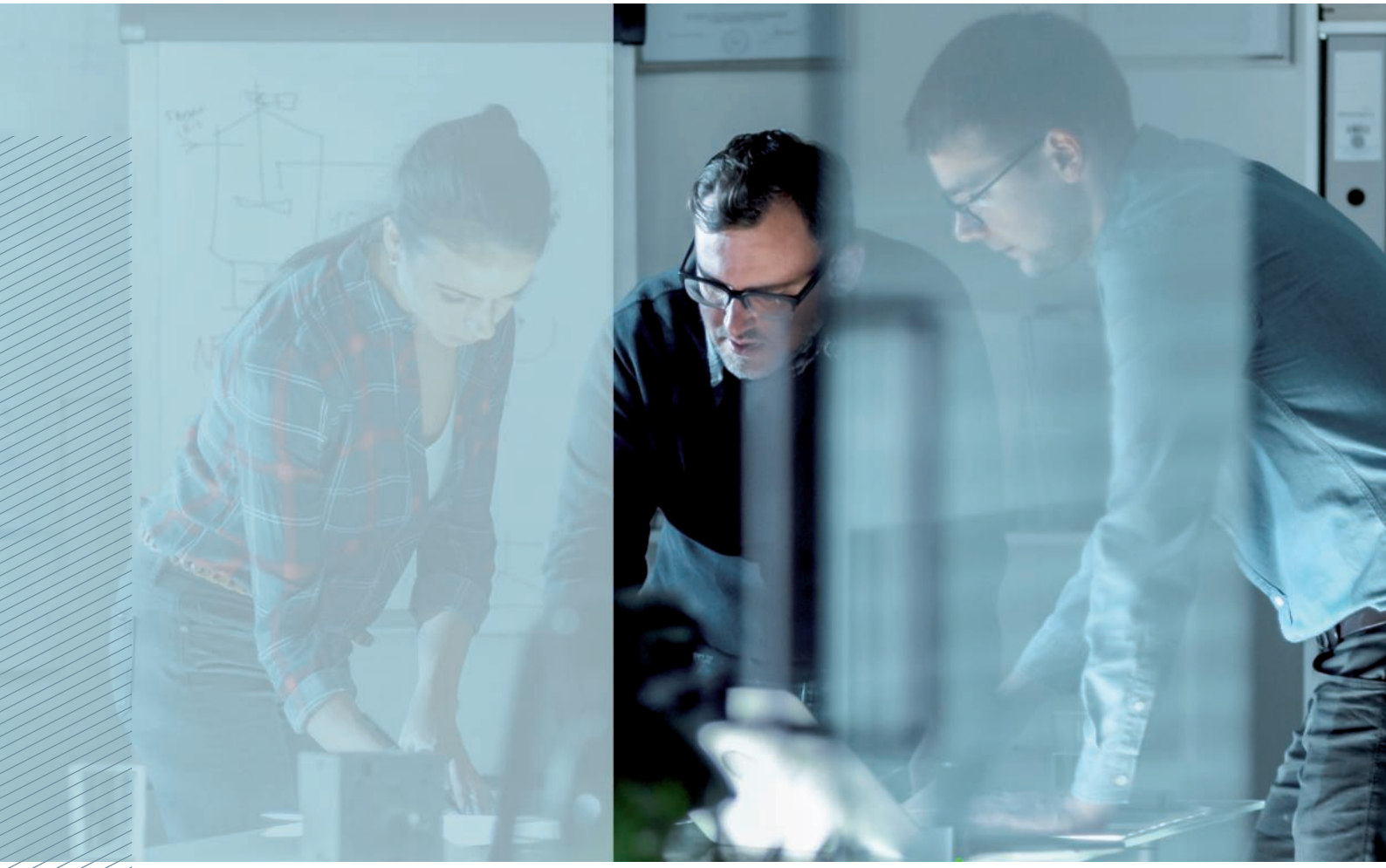
- Surge protection
- External lightning protection
- Equipotential bonding and earthing
- Insulation and cable bandages
- Fire-tested support and routing systems
- Fire protection ducts



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

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OBO Support *& contact*



You have a problem? We have the solution!

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

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

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

What is OBO Support?

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

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

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

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

Monday–Thursday
07.30–17.00

Friday
07.30–15.00

export@obo.de



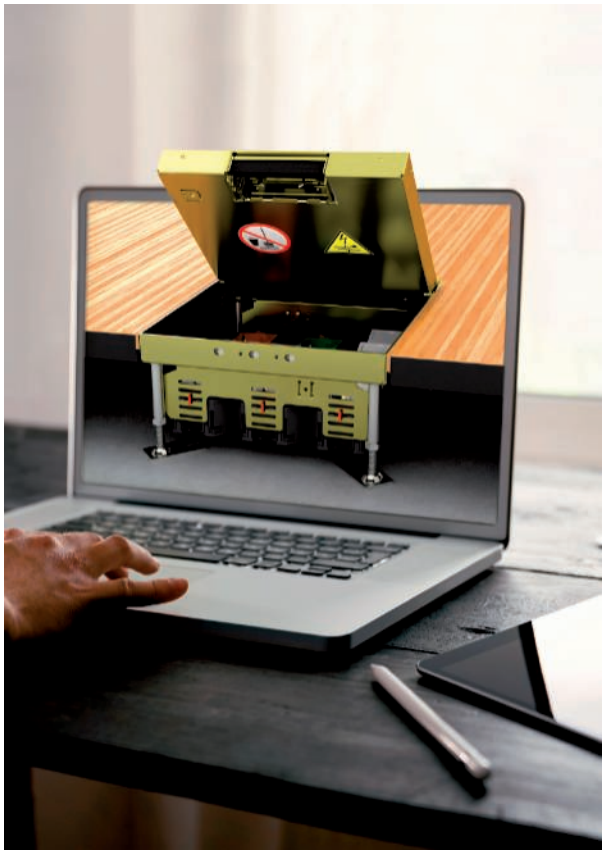
Service – OBO can help
Everywhere and in every project phase:
- Highly competent hotline
- Product and system information, digitally or printed
- Selection and planning aids on the web, as an app, as a CAD application or in printed form
- 2D and 3D product data for planning
- Field service, branch offices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

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

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

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

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OBO Construct: Planning has never been so easy!

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

Laden im App Store

JETZT BEI Google Play



OBO Academy: From the basics to the concrete application

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



Clear delivery capability

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



1 **Sales Warehouse North**
Bad Fallingbostel

2 **Sales Warehouse West**
Iserlohn

3 **Sales Warehouse East**
Delitzsch

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

5 **Sales Warehouse South**
Dasing

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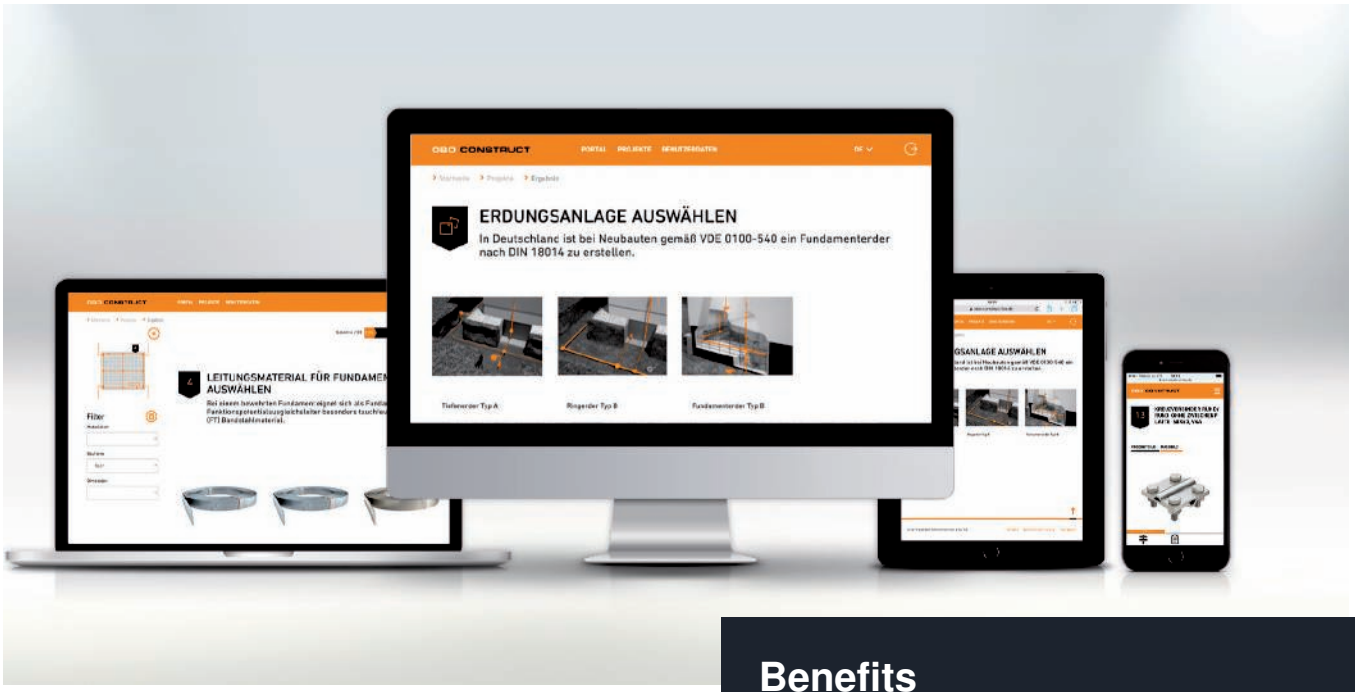
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OBO Construct planning aids



Benefits

- Time and place-independent work assistance
- Transmit planning requirements to complete product systems
- Find suitable products quickly and simply
- Calculate material and parts lists automatically
- Download configuration results as Excel or Word files

Digital selection aids for earthing systems and surge protection
The OBO Construct electronic planning aids are programs developed to support electrical installation engineers and planners in the design of electrical installation systems. In particular, in complex areas such as surge protection and earthing, there are countless technical and standard general conditions to be observed. The two OBO Construct programs for earthing and surge protection systems should provide active help here. Systematic questions simplify the search for suitable products and guaranteed surge protection systems and earthing systems which fulfil the standards.

OBO Construct for surge protection
This online tool aids you in the project-orientated selection and connection of suitable surge protection systems and provides you with information on the OBO surge protection systems. You can create your personal materials list, connection diagram and invitation to tender texts quickly, efficiently and in a targeted manner for complete surge protection in the fields of energy technology, photovoltaics, telecommunication, MSR, TV, HF and data technology. The result can be exported easily into Excel format for further processing.

OBO Construct for earthing systems
Earthing systems can be planned and configured easily using the digital selection aid. The simple and intuitive user guidance leads you through the individual components of the earthing system step by step. The software then automatically calculates the amounts required and the matching accessories. The application can be opened on any end device, irrespective of its operating system – be it smartphone, tablet or desktop PC.

Lightning protection guide. Safely routed.

Reference work and planning aid for electrical installation engineers and technical planners
At OBO Bettermann, we can look back on more than 90 years of experience in the field of lightning and surge protection. This experience and, of course, the latest standards and technical innovations have flowed into the company's new lightning protection guide. The brochure allows you to plan installations in the field of lightning and surge protection faster and more easily.

It contains a balanced mixture of both basic and expert knowledge, as well as planning and selection aids for the protection of buildings and systems.

The new lightning protection guide can be requested by calling +49 23 73 89 - 17 00 and is also available for download on the OBO website.



Topics

- Basic principles
- The external lightning protection system
- Air-termination and down-conductor systems
- Examples and selection aids for wind load calculation conform with Eurocode 1+3
- Earthing systems with foundation earth electrode to current DIN 18014
- The internal lightning protection system
- Equipotential bonding systems
- Overvoltage protection systems
- Current standards
- New selection and planning aids
- Examples

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First-hand support and knowledge



RAL GÜTEZEICHEN
Blitzschutz
RAL-GZ 642/5

OBO TBS seminars: First-hand knowledge
With a comprehensive programme of training courses and seminars on the subject of surge voltage and lightning protection 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 on the Internet at www.ausschreiben.de
More than 10,000 entries from the cable support systems, fire protection systems, connection and fastening systems, transient and lightning protection systems, cable routing systems, device systems and underfloor systems can be recalled for free. Regular updates and extensions mean that you always have a comprehensive overview of the OBO products. All the current file formats (PDF, DOC, GAEB, HTML, TEXT, XML, ÖNORM) are available.
www.ausschreiben.de

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

Invitations to tender for lightning protection/earthing at the highest level:
OBO manufactures products to RAL GZ642-5 and is dedicated to compliance with the RAL directives. Lightning protection and earthing products can be used for invitations to tender according to RAL.

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



Customer service and credibility
Friendliness, reliability and competence create acceptance, credibility and lasting working relationships. These shared values arise from OBO's consistent orientation around the wishes and needs of its customers. Close partnerships with customers is OBO's foremost priority.

Help and advice
Answers to questions about products and installation, planning advice for complex projects – OBO's staff will help you through every phase of your project, no matter what field it is in. We are constantly improving the support we provide in every phase of collaboration, laying the foundations for genuine partnerships.

Speed and reliability
Optimised procedures and highly developed logistics ensure that OBO products are in the right place at the right time, anywhere in the world. OBO offers comprehensive support for large-scale projects, from planning all the way to installation.



- Production location
- Subsidiary
- Representative

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Minor cause, major effect: Damage caused by surge voltages



Our dependency on electrical and electronic equipment continues to increase, in both our professional and private lives. Data networks in companies or emergency facilities such as hospitals and fire stations are lifelines for an essential real time information exchange. Sensitive databases, e.g. in banks or media publishers, need reliable transmission paths.

It is not only lightning strikes that pose a latent threat to these systems. More and more frequently, today's electronic aids are damaged by surge voltages caused by remote lightning discharges or switching operations in large electrical systems. During thunderstorms too, high volumes of energy are instantaneously released. These voltage peaks can penetrate a building through all manner of conductive connections and cause enormous damage.

Financial implications of lightning and surge damage



Financial losses can only be considered in isolation when no legal or insurance requirements for the safety of people apply.

Substantial losses result from the destruction of electrical devices, notably:

- Computers and servers
- Telephone systems
- Fire alarm systems
- Monitoring systems
- Lift, garage door and roller shutter drives
- Consumer electronics
- Kitchen appliances

Additional costs can also be incurred due to outages and consequential damage in relation to:

- Loss of data
- Production outage
- Loss of contactability (Internet, telephone, fax)
- Faulty heating system
- Costs due to faults and false alarms in fire or burglar alarm systems

Financial losses are on the rise

Recent statistics and numbers show: Surge voltage damages per year have been on the decline since 2014. The positive development could be a result, amongst other things, of the mandatory use of surge protection measures to VDE 0100-443. At the same time, the figures also show that the costs per year are rising significantly. A reason for this is the growing dependency on electrical devices and the increasing number of smart home solutions. Therefore it is always recommended to retrofit surge protection systems, even when they are not required by norms. Although costs will be covered by insurance policies, the annoyance about the preventable damage is initially large. Information on protection measures can be found in, for example, the German Directive VdS 2010.

Year	Amount of lightning and surge voltage damage	Paid damages for lightning and surge voltage damage
2010	290,000	€170 million
2011	380,000	€230 million
2012	360,000	€230 million
2013	290,000	€170 million
2014	380,000	€250 million
2015	350,000	€240 million
2016	320,000	€250 million
2017	300,000	€240 million
2018	280,000	€250 million
2019	230,000	€250 million
2020	200,000	€260 million

Number of instances of damage from lightning and surge voltages and amounts paid out by home and contents insurance companies (the example is of Germany); source: GDV extrapolation based on industry and risk statistics; numbers rounded to the nearest €10,000 or €10 million.

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Lightning and surge protection standards

When planning and executing a lightning protection system, it is necessary to observe all relevant national guidelines and take account of any special circumstances or applications and the safety stipulations in the relevant country-specific supplements.
A lightning and surge protection system consists of several systems, each tailored to each of the others. At its most basic, a lightning and surge protection system consists of one internal and one external lightning protection system.

These, in turn, can be categorised as follows:
- Air-termination devices
- Down-conductors
- Earthing systems
- Area shielding
- Separation distance
- Lightning protection equipotential bonding system

These systems must be carefully selected for the application at hand, and used in a coordinated way. Installation of the systems takes place according to various application and product standards. The supplements to the international IEC guidelines and harmonised European versions of the various country-specific translations often contain additional informative information specific to the country in question.

Product standards
To ensure that the components can withstand the loads to which they are likely to be exposed in application, they must be checked against the respective product standard for external and internal lightning protection.



External and internal lightning protection systems

Standard	German supplement	Contents
VDE 0185-305-1 (IEC 62305-1)		Protection against lightning – Part 1: General principles
VDE 0185-305-2 (IEC 62305-2)		Protection against lightning – Part 2: Risk management
	1	Lightning risk in Germany
	2	Calculation aids for estimating the risk of damage for buildings
	3	Additional information on use of EN 62305-2
VDE 0185-305-3 (IEC 62305-3)		Protection against lightning – Part 3: Physical damage to structures and life hazard
	1	Additional information on use of EN 62305-3
	2	Additional information for building structures
	3	Additional information for the testing and servicing of lightning protection systems
	4	Use of metal roofs in lightning protection systems
	5	Lightning and surge protection in PV power supply systems
VDE 0185-305-4 (IEC 62305-4)		Protection against lightning – Part 4: Electrical and electronic systems within structures
	1	Distribution of the lightning current
VDE 0675-6-11 (IEC 0675-6-11)		Low-voltage surge protective devices – Part 11: Surge protective devices connected to low-voltage power systems
VDE 0100-534 (IEC 60364-5-53)		Low-voltage electrical installations – Part 5-53: Selection and erection of electrical equipment – Isolation, switching and control – Clause 534: Devices for protection against surge voltages
VDE 0100-443 (IEC 60364-4-44)		Low-voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances – Clause 443: Protection against surge voltages of atmospheric origin or due to switching
VDE 0100-712 (IEC 60364-7-712)		Requirements for operational premises, special rooms and systems – photovoltaic (PV) power supply systems

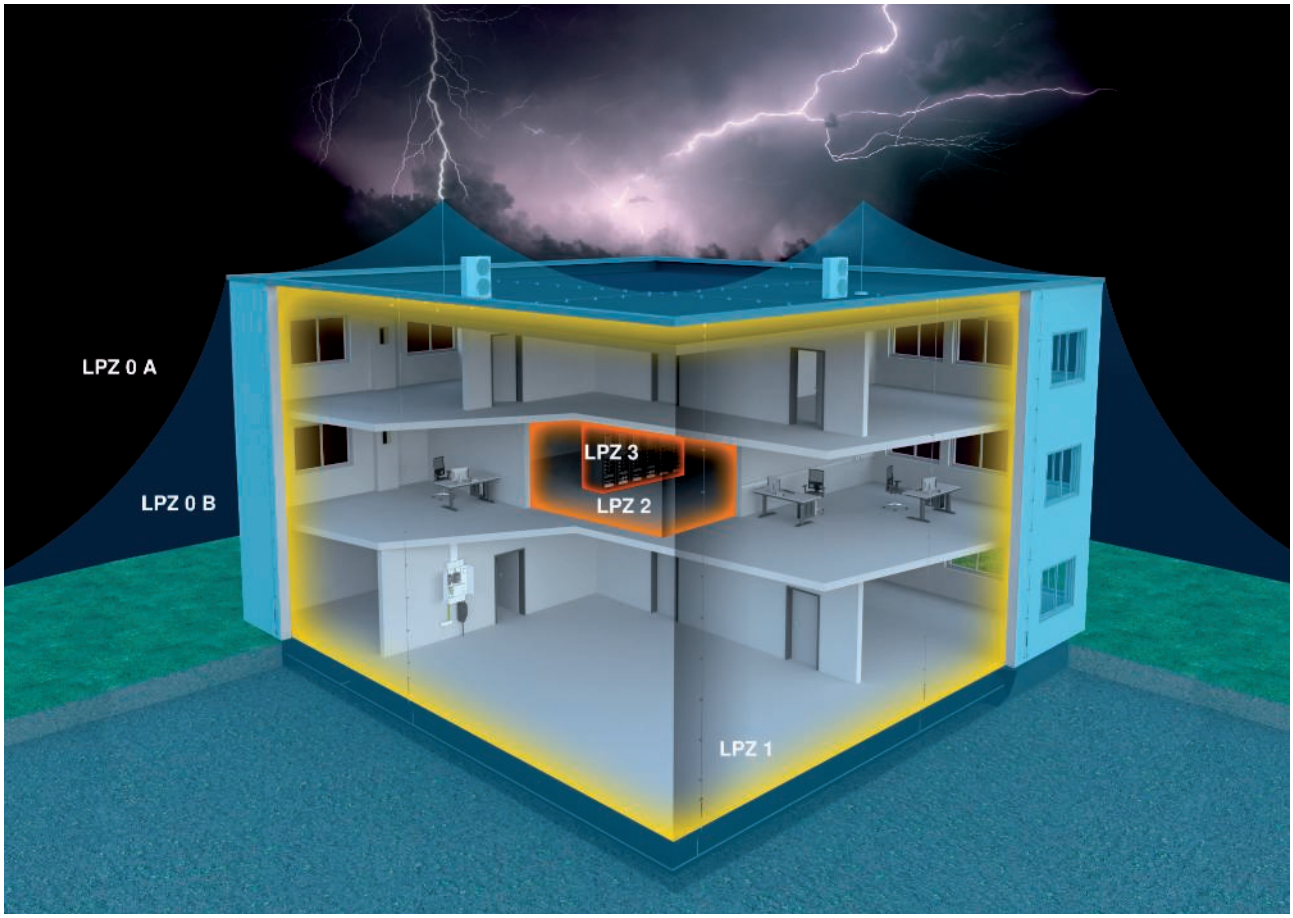
Key lightning protection standards and specifications

Product standards	Contents
VDE 0185-561-1 (IEC 62561-1)	Lightning protection system components – Requirements for connection components
VDE 0185-561-2 (IEC 62561-2)	Lightning protection system components – Requirements for conductors and earthers
VDE 0185-561-3 (IEC 62561-3)	Lightning protection system components – Requirements for isolating spark gaps
VDE 0185-561-4 (IEC 62561-4)	Lightning protection system components – Requirements for conductor fasteners
VDE 0185-561-5 (IEC 62561-5)	Lightning protection system components – Requirements for earth electrode inspection housings and earth electrode seals
VDE 0185-561-6 (IEC 62561-6)	Lightning protection system components – Requirements for lightning strike counters
VDE 0185-561-7 (IEC 62561-7)	Lightning protection system components – Requirements for earthing enhancing compounds
IEC TS 62561-8	Lightning protection system components – Requirements for components for insulated lightning protection systems
VDE 0675-6-11 (IEC 61643-11)	Surge protective devices for use in low-voltage power systems – Requirements and test methods
VDE 0845-3-1 (IEC 61643-21)	Surge protection for use in telecommunications and signalling networks

Lightning protection and surge protection components

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Gradual surge reduction with lightning protection zones



Lightning protection zone concept
The lightning protection zone concept described in international standard IEC 62305-4 (DIN VDE 0185 Part 4) has proved to be practical and efficient. This concept is based on the principle of gradually reducing surges to a safe level before they reach the terminal device and cause damage. In order to achieve this situation, a building's entire energy network is split into lightning protection zones (LPZ = lightning protection zone). Installed at each transition from one zone to another is a surge arrester for equipotential bonding. These arresters correspond to the requirement class in question.

Lightning protection zone

LPZ 0 A		Unprotected zone outside the building. Direct lightning strike, no shielding against electromagnetic interference pulses LEMP (Lightning Electromagnetic Pulse).
LPZ 0 B		Through the area protected by the external lightning protection system. No shielding against LEMP.
LPZ 1		Zone inside the building. Low partial lightning energies possible.
LPZ 2		Zone inside the building. Low surges possible.
LPZ 3		Zone inside the building (can also be the metal housing of a consumer). No interference pulses through LEMP or surges present.

Choosing the right surge protective devices

The classification of surge protective devices into types means they can be matched to different requirements with regard to location, protection level and current-carrying capacity. The table provides an overview of the zone transitions. It also shows which OBO surge protective devices can be installed in the energy supply network and their respective function.

Zone transition	Protection device and device type	Product example	Product figure
LPZ 0 B to LPZ 1	Protection device for lightning protection equipotential bonding in accordance with VDE 0185-305 (IEC 62305) for direct or close lightning strikes. Devices: Type 1+2 (Class I+II), e.g. CCF Compact Max. protection level according to standard: 1.5 kV OBO protection level: < 1.5 kV Installation, e.g. in the main distributor/at building entry	MCF Compact Item no.: 5096987	
LPZ 1 to LPZ 2	Protection device for lightning protection equipotential bonding in accordance with VDE 0185-305 (IEC 62305) for direct or close lightning strikes. Devices: Type 2 (Class II), e.g. V20 Max. protection level according to standard: 1.5 kV OBO protection level: < 1.3 kV Installation, e.g. in the main distributor/at building entry	V20 Item no.: 5095253	
LPZ 2 to LPZ 3	Protection device, designed for surge protection of portable consumers at sockets and power supplies. Devices: Type 3 (Class III), e.g. ÜSM-A Max. protection level according to standard: 1.5 kV OBO protection level: < 1.3 kV Installation, e.g. on the end consumer	ÜSM-A Item no.: 5092451	

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BET Test Centre – for lightning protection, electrical engineering and support systems



BET with countless tasks
Whereas previously only lightning current, environmental and electrical testing had been possible at BET, the BET Test Centre is now also a competent partner for the testing of cable support systems. This combination has made it necessary to revise the meaning of the name. If BET previously stood for "Blitzschutz- und EMV-Technologiezentrum" (Lightning protection and EMC technology centre), since 2009 these letters have meant BET Test Centre for lightning protection, electrical engineering and support systems.

Test generator for lightning current tests
The test generator planned in 1994 and completed in 1996 makes it possible to carry out lightning current tests at up to 200 kA. The generator was planned and constructed in cooperation with Soest Technical College. Due to the intensive planning and scientific support in the construction of the test system, it has worked for 20 years without errors and meets current standardised test requirements.

Testing tasks
The main load of the testing generator is generated through the testing of products from the TBS product division. For this, developmental tests of new developments, modifications to existing OBO products and also comparison tests with competitive products are carried out. These include lightning protection components, surge protective devices and lightning conductors. Tests for lightning protection components are carried out according to DIN EN 62561-1, for spark gaps according to DIN EN 62561-3 and for lightning and surge protective devices according to DIN EN 61643-11. This is only a small amount of the testing standards used for tests in the BET Test Centre.

Certification

In development, manufacture and marketing, the products of OBO Bettermann are subject to high, standardised quality standards and international standards. For decades now, OBO Bettermann has operated an ISO 9001-certified quality management system, which also fulfils the high requirements of the ATEX 2014/34/EU directive for EX products. In addition, OBO has run a certified energy management system according to ISO 50001 and is a long-standing member of Industrieverband Feuerverzinken e.V.

The BET Test Centre is a testing laboratory, recognised and certified by VDE, for the execution of countless tests according to international standards for lightning protection systems.



Zertifikat zur Anerkennung
Certificate of acceptance

von / of

OBO Bettermann GmbH & Co. KG
BET Testcenter
Hüingser Ring 52
58710 Menden
GERMANY

durch die / by the

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute

Zertifikat
Mitteilung über die Bewertung des Qualitätssicherungssystems

für das / for the

Acceptance Program

Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen
Richtlinie 2014/34/EU
Anhang IV - Modul D: Konformität mit dem Baumuster auf der Grundlage einer Qualitätssicherung bezogen auf den Produktionsprozess
Anhang VII - Modul E: Konformität mit dem Baumuster auf der Grundlage der Qualitätssicherung bezogen auf das Produkt

Nummer des Zertifikates: BVS 16 ATEX ZQS/E310

Produktkategorie: Geräte und Komponenten
Gerätegruppe II, Kategorien 1G, 2G: Transienten- und Blitzschutz-Systeme

Stufe 2 / in Stage 2

40046136

2019-06-22

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VDE INSTITUT

Confirmation

Herewith we confirm, that

OBO BETTERMANN GmbH & Co. KG
Hüingser Ring 52
58710 Menden

is a member of our association

Industrieverband Feuerverzinken e. V., Düsseldorf.

The company OBO BETTERMANN GmbH & Co. KG provides among other things corrosion protection for fabricated iron and steel articles by hot dip galvanizing and examines that business in accordance with the requirements of the standard

DIN EN ISO 1461
"Hot dip galvanized coatings on fabricated iron and steel articles – specifications and test methods".

Industrieverband Feuerverzinken e.V.
- Director -

Düsseldorf, February 3rd, 2017

Mark Huckshold

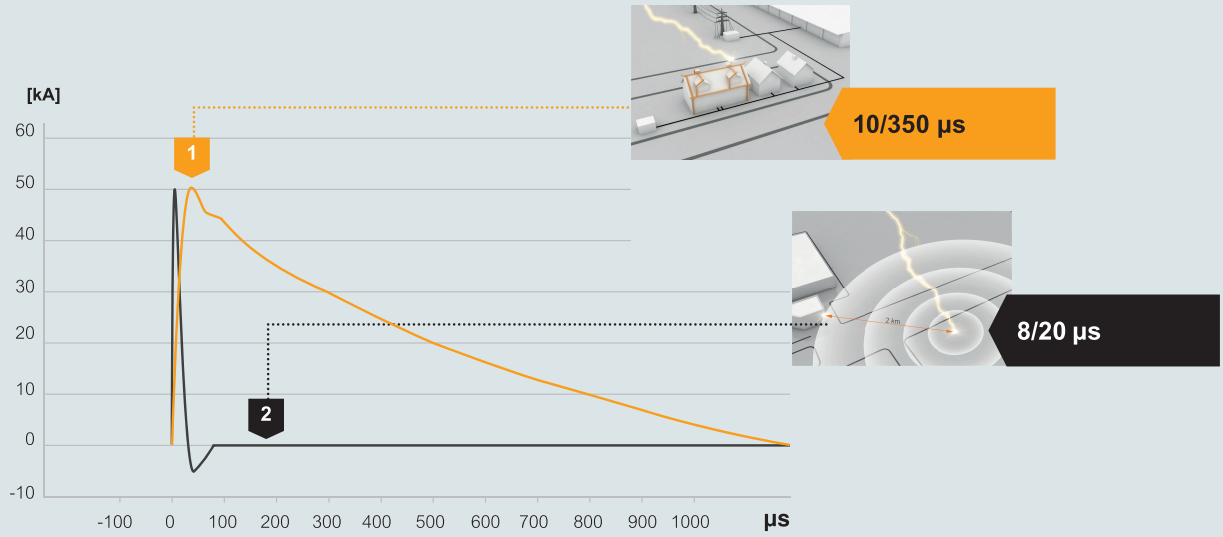
Industrieverband Feuerverzinken e.V.
Mörsenbroicher Weg 200
40470 Düsseldorf

Mitglied der European General Galvanizers Association EGGA - BIC DEUTDEDBDUE - IBAN DE42 3007 0024 0589 1643 00

Fachzertifizierer

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Types of pulse and their characteristics

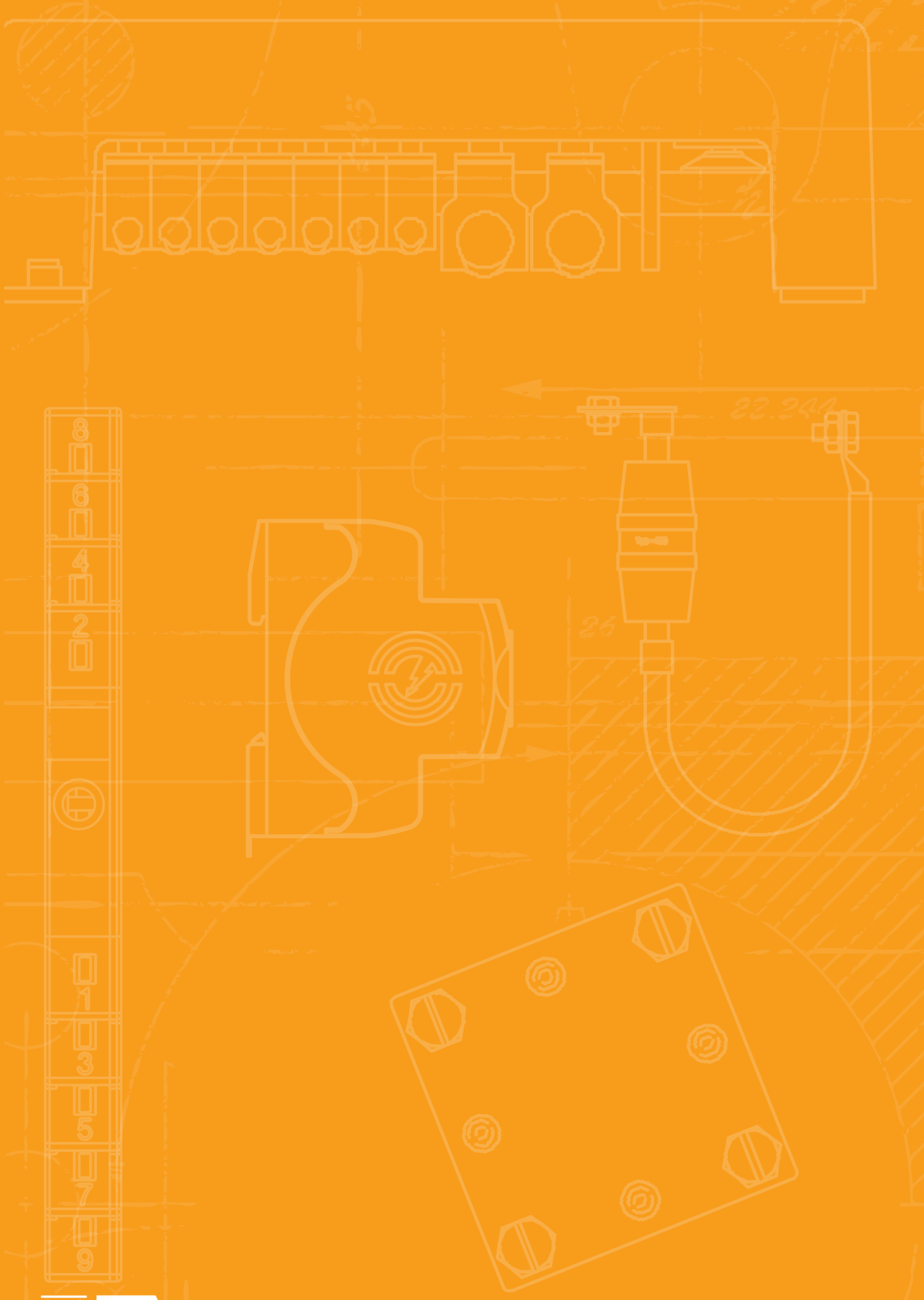


1	Pulse shape 1: Direct lightning strike, 10/350 µs simulated lightning pulse
2	Pulse shape 2: Remote lightning strike or switching operation, 8/20 µs simulated current pulse (surge voltage)

Testing types for lightning and surge protection
Both lightning current tests and surge voltage tests can be carried out at up to 20 kV. A hybrid generator is used for these tests, which was also developed as part of a cooperation with the Soest Technical College. EMC testing of cable support systems can also be carried out using this test generator. All kinds of cable routing and cable support systems of up to 8 m length can be tested without any difficulties. Tests for electrical conductivity according to IEC 61537 are also carried out.

Simulation of real environmental conditions
To carry out standardised tests on components intended for external use, they must be pretreated under real environmental conditions. This takes place in a salt spray trough and a sulphur dioxide testing chamber. Depending on the test, the test length and the concentration of the salt spray or sulphur dioxide in the testing chambers may vary. This means that it is possible to conduct tests according to IEC 60068-2-52, ISO 7253, ISO 9227 and EN ISO 6988.

Testing cable support systems
The well-known KTS testing system, newly installed in the BET Test Centre, allows the investigation of the load capacities of any cable support system manufactured by OBO. The basis for this is IEC 61537 and VDE 0639.
In the BET Test Centre, OBO Bettermann has a testing department in which products can be tested according to standards, even during the development phase.



OBO isCon® system



isCon® conductors 30



isCon® conductor accessories 36

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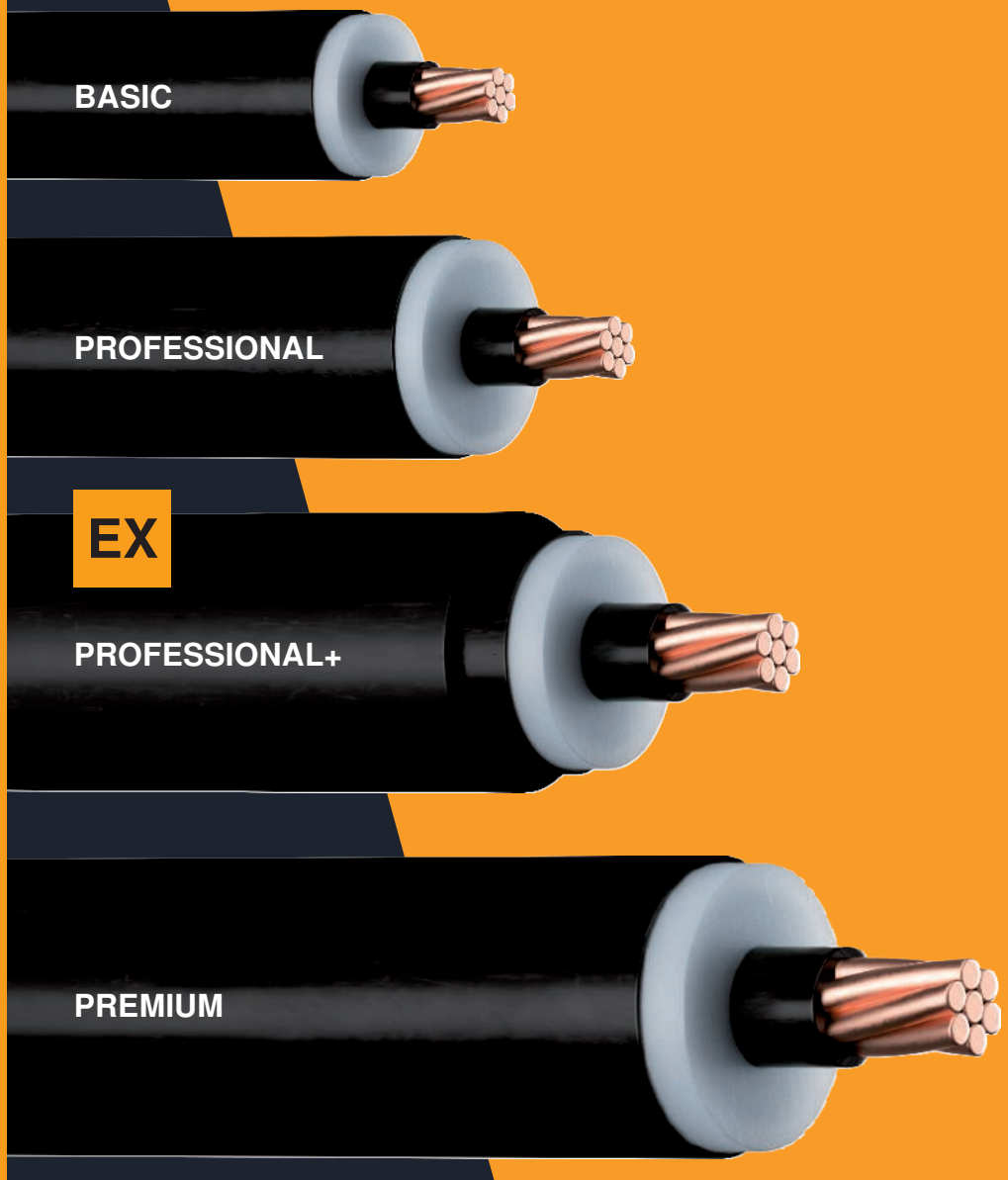
Insulated isCon® conductor

isCon®
MADE BY OBO

The high-voltage-resistant, insulated isCon® down-conductor is the modern solution for planners and erectors of lightning protection systems, in order to maintain the necessary separation distances safely according to VDE 0185-305-3 (IEC/EN 62305-3).

As an innovative international provider of complete lightning and surge protection systems, OBO has adjusted its product range according to the different demands of our customers in the area of insulated lightning protection.

The result: We can now offer the appropriate isCon® conductor system with external certification according to the most recent testing norms (VDE V 0185-561-8/IEC TS 62561-8) for any lightning protection project.



$s_e \leq 45$ cm

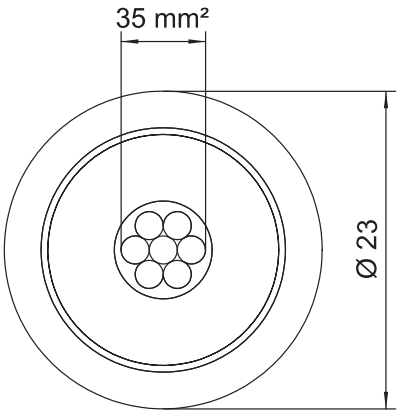
$s_e \leq 75$ cm

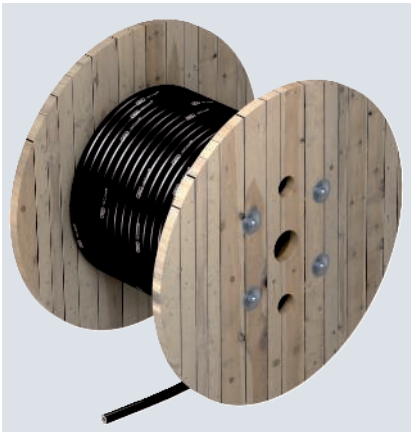
$s_e \leq 75$ cm

$s_e \leq 90$ cm

isCon® conductor, Professional plus black

Type	Cross-section mm²	Nominal size Ø mm	Equivalent separation distance m		Pack m	Weight kg/100 m	Item no.
isCon Pro+ 75 SW	35	23	0.75		25	69.400	**5408002**
isCon Pro+ 75 SW	35	23	0.75		100	69.400	**5408004**
isCon Pro+ 75 SW	35	23	0.75		250	69.400	**5408006**





Please refer to the mounting instructions for information on routing the OBO isCon® conductor.

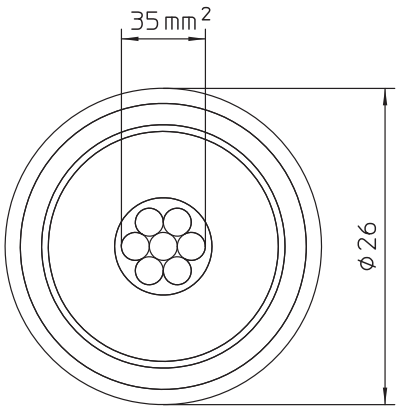
- Highly voltage-resistant, insulated conductor
- Floating discharge-free
- Additional mechanical protection (black protective jacket)
- For maintenance of the separation distance according to IEC 62305 (VDE 0185-305-3)
- Tested according to IEC/EN 62561-1 (VDE 0185-561-1) with H1/150 kA
- Equivalent separation distance se ≤ 0.75 m (air) and se ≤ 1.5 (solid material)
- Tested according to IEC TS 62561-8 (VDE V 0185-561-8)
- Halogen-free
- Fire load 4.3 kWh/m
- Can be used in potentially explosive areas Ex zone 1/2 and 21/22 when taking the current mounting instructions into account

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isCon® conductor, Professional plus light grey



Type	Cross-section mm²	Nominal size Ø mm	Equivalent separation distance m		Pack m	Weight kg/100 m	Item no.
isCon Pro+ 75 GR	35	26	0.75		25	86.800	**5407995**
isCon Pro+ 75 GR	35	26	0.75		100	86.800	**5407997**

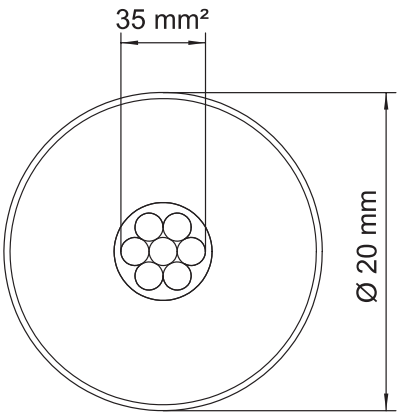


Please refer to the mounting instructions for information on routing the OBO isCon® conductor.

- Highly voltage-resistant, insulated arrester
- Protection against contact voltage during rain (VDE 0432-1 (IEC/EN 60060-1)
- Floating discharge-free
- Additional mechanical protection (double protective jacket)
- For maintenance of the separation distance according to IEC 62305 (VDE 0185-305-3)
- Tested according to IEC/EN 62561-1 (VDE 0185-561-1) with H1/150 kA
- Equivalent separation distance se ≤ 0.75 m (air) and se ≤ 1.5 (solid material)
- Tested according to IEC TS 62561-8 (VDE V 0185-561-8)
- Halogen-free
- Fire load 5.1 kWh/m
- Protection against contact voltage under sprinkling (VDE 0432-1 (IEC/EN 60060-1)
- Can be used in potentially explosive areas Ex zone 1/2 and 21/22 when taking the current mounting instructions into account

isCon® conductor, Professional black

Type	Cross-section mm²	Nominal size Ø mm	Equivalent separation distance m		Pack m	Weight kg/100 m	Item no.
isCon Pro 75 SW	35	20	0.75		100	57.000	**5408008**





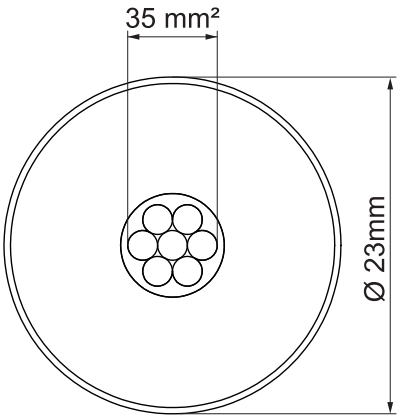
Please refer to the mounting instructions for information on routing the OBO isCon® Pro conductor.

- Highly voltage-resistant, insulated conductor
- Floating discharge-free
- For maintenance of the separation distance according to IEC 62305 (VDE 0185-305-3)
- Tested according to IEC/EN 62561-1 (VDE 0185-561-1) with H1/150 kA
- Equivalent separation distance se ≤ 0.75 m (air) and se ≤ 1.5 m (solid material)
- Tested according to IEC TS 62561-8 (VDE V 0185-561-8)
- Halogen-free
- Fire load 3.3 kWh/m

isCon® conductors, Premium

isCon® conductor, Premium black

Type	Cross-section mm²	Nominal size Ø mm	Equivalent separation distance m		Pack m	Weight kg/100 m	Item no.
isCon PR 90 SW	35	23	0.9		100	66.600	**5408018**





Please refer to the mounting instructions for information on routing the OBO isCon® Premium conductor.

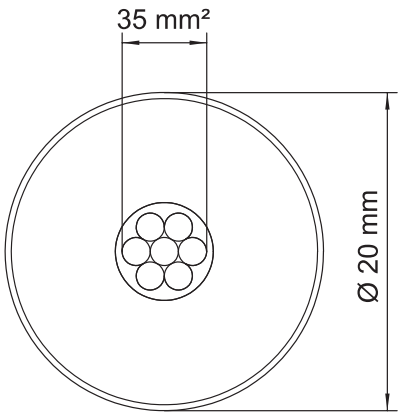
- Highly voltage-resistant, insulated conductor
- Floating discharge-free
- Tested according to IEC/EN 62561-1 (VDE 0185-561-1) with H2/200 kA
- Equivalent separation distance se ≤ 0.90 m (air) and se ≤ 1.8 m (solid material)
- Tested according to IEC TS 62561-8 (VDE V 0185-561-8)
- Halogen-free
- Fire load 4.2 kWh/m

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isCon® conductor, Basic black



Type	Cross-section mm²	Nominal size Ø mm	Equivalent separation distance m		Pack m	Weight kg/100 m	Item no.
isCon BA 45 SW	35	20	0.45		100	57.000	**5408014**



Please refer to the mounting instructions for information on routing the OBO isCon® Basic conductor.

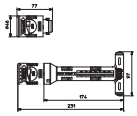
- Highly voltage-resistant, insulated conductor
- For maintenance of the separation distance according to IEC 62305 (VDE 0185-305-3)
- Tested according to IEC/EN 62561-1 (VDE 0185-561-1) with H1/150 kA
- Equivalent separation distance se ≤ 0.45 m (air) and se ≤ 0.90 m (solid material)
- Tested according to IEC TS 62561-8 (VDE V 0185-561-8)
- Halogen-free
- Fire load 3.3 kWh/m

Tool

Stripping tool for isCon® conductor

PA/PE



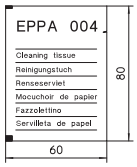


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
isCon stripper 2	20-23	1	170.000	**5408013**

Stripping tool to remove the insulation of the OBO isCon® conductor.

Cleaning cloth





Type	Width mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
isCon EPPA 004	140	200	50	0.420	**5408060**

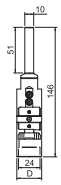
- Cellulose polypropylene paper with abrasive sections, folded multiple times
- Doused with 2.8 ml impregnation solution
- For cleaning the external jacket of the OBO isCon® conductor

isCon® connection elements

isCon® connection element set ASE, testable

VA





Type	Dim. D Ø mm	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
isCon ASE 23	28	23	1	52.400	**5408080**

- For the isCon® Pro+ and Premium conductor
- Set consisting of 2 testable connection elements
- For function and state determination with integrated ASE technology (Adaptive Switching Element)
- For comprehensive repeat testing according to VDE 0185-305-3 (IEC/EN 62305-3)
- Screw-on termination
- Testable with the simplest insulation measuring devices (≥ 1 kV DC)
- Can be used in all lightning protection classes
- For highest system availability - no switch-off, dismantling or testing with dangerous pulse voltages
- QR code to open the test report
- Incl. heat-shrinkable hose and Allen key

isCon® connection elements set ASE, testable for isFang IN

VA





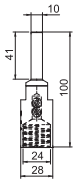
Type	Dim. D Ø mm	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
isCon ASE 23 IN	28	23	1	56.200	**5408082**

- For the isCon® Pro+ and Premium conductor
- Set consisting of 2 testable connection elements
- Connection and routing of the cable in the insulated air-termination mast
- For function and state determination with integrated ASE technology (Adaptive Switching Element)
- For comprehensive repeat testing according to VDE 0185-305-3 (IEC/EN 62305-3)
- Screw-on termination
- Testable with the simplest insulation measuring devices (≥ 1 kV DC)
- Can be used in all lightning protection classes
- For highest system availability - no switch-off, dismantling or testing with dangerous pulse voltages
- QR code to open the test report
- Incl. heat-shrinkable hose and Allen key

VA

isCon® connection element

Type	Dim. D Ø mm	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
isCon con 2	20	10	H1/150	2	21.500	**5408021**
isCon connect	23	10	H1/150	2	21.500	**5408022**
isCon con PRE	23	10	H2/200	2	21.500	**5408023**





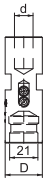
- Screw-on termination of the connection for the isCon® conductor
- Incl. heat-shrinkable sleeve, hexagonal
- Tested up to 200 kA (lightning protection class I)

isCon® Professional+ connection elements

VA

Connection element for installation in the insulated air-termination rod isFang IN

Type	Dim. D Ø mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
isCon IN connect	23	H1/150	1	26.900	**5408024**





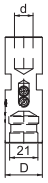
- Screw-on termination of the connection for the isCon® conductor
- Connection and installation of the cable in the insulated air-termination rod
- Tested up to 200 kA (lightning protection Class I)

isCon® Basic, Premium and Professional connection elements

VA

Connection element for installation in the insulated air-termination rod isFang IN

Type	Dim. D Ø mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
isCon IN con 2	20	H1/150	1	27.800	**5408019**
isCon IN con PRE	23	H2/200	1	27.800	**5408020**





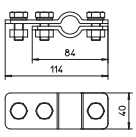
- Screw-on termination of the connection for the isCon® conductor
- Connection and installation of the cable in the insulated air-termination rod
- Tested up to 200 kA (lightning protection Class I)

Potential connections

VA

Potential connection

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
isCon PAE	ø 17-25	2	36.500	**5408036**





Potential connection
- To avoid floating discharges on the isCon® conductor
- With sprung discs to protect screws against loosening

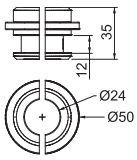
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Potential connections

Potential connection for isCon® Basic and Professional in the isFang IN insulated air-termination rod

Alu





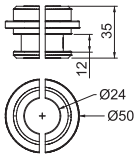
Type	Dim. D Ø mm	Dimension d Ø mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
isCon IN PAE 2	20	49.9	35	1	5.900	**5408032**

- To avoid surface discharges
- For the isCon® Basic and Professional conductor
- Installation takes place in the insulated air-termination rod, type isFang IN

Potential connection for isCon® Professional+ and Premium in the isFang IN insulated air-termination rod

Alu





Type	Dim. D Ø mm	Dimension d Ø mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
isCon IN PAE	23	49.9	35	1	5.900	**5408031**

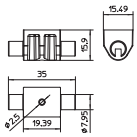
- To avoid surface discharges on the isCon® conductor
- For the isCon® Professional+ and Premium conductor system
- Installation takes place after the first 1.5 metres in the insulated air-termination rod, type isFang IN

Cable brackets

Universal flat conductor adapter for roof conductor holder, type 165/MBG

PP





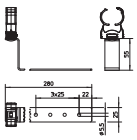
Type	Colour	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
165 MBG UH	Black	Rd 8	25	0.254	**5218882**

- Universal adapter with drill hole Ø 2.5 mm
- E.g. for OBO Golden Sprint screw, type 4758 4 x L (L = depending on application)
- For fastening to 165/MBG

PA roof conductor holder, sloping roof

PA





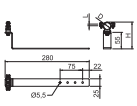
Type	Colour	Dimension	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
isCon H280 PA	Black	280mm	55	25	13.950	**5408049**
isCon H280 26 PA	Light grey	280mm	55	25	14.060	**5408072**

To route the isCon® conductor on pitched roofs.

VA roof conductor holder, sloping roof

VA





Type	Dimension	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
isCon H280 VA	280mm	55	25	16.100	**5408047**
isCon H280 26 VA	280mm	55	25	16.900	**5408074**

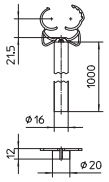
- For routing of the isCon® conductor on pitched roofs
- Cable bracket with sprung discs to protect the screws against loosening

GFK

Spacer

Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
isCon DH	23-26	2	41.400	**5408043**

For stand-off installation of the isCon® conductor in the area of the connection, incl. reducing sleeve for mounting on FangFix concrete block 10 Kg.



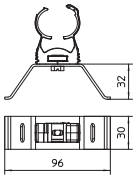


PA

PA cable bracket with tightening strap

Type	Colour	Dimension	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
isCon HS 26 PA	Light grey	ø 26mm	26	10	23.200	**5408066**

For isCon® conductor for pipe mounting including 2 m tightening strap.



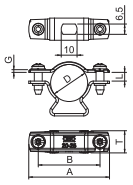


VA

VA cable bracket for isCon® conductor for mounting on roof/wall structures

Type	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
isCon H VA	21-23	50	2.850	**5408056**
isCon H 26 VA	26	20	3.400	**5408064**

- For isCon® conductor for mounting on roof/wall structures
- With sprung discs to protect the screws against loosening



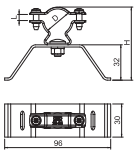


VA

VA cable bracket with tightening strap

Type	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
isCon HS VA	23	10	25.200	**5408052**
isCon HS 26 VA	26	10	25.900	**5408068**

- For isCon® conductor for pipe mounting
- Including 2 m tightening strap
- Cable bracket with sprung discs to protect the screws against loosening



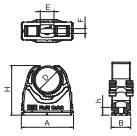


PA

Multi-Quick clip, metric

Type	Clamping range D mm	Pull-out value N	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
M-Quick M32 LGR	25-32	60	Light grey	600	50	1.390	**2153734**

Flush-mounted clip to accept metric pipes and Quick Pipe electrical installation pipes. Flexible clamping range of several millimetres. Universal fastening options on walls and ceilings, both indoors and outdoors. Toolless pipe mounting. Can also be arranged with OBO Quick or starQuick clip.





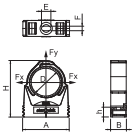
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Cable brackets

starQuick clip, black

PP PA





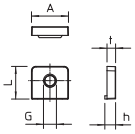
Type	Colour	Dim. A mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
SQ-20 SW	Jet black	29	17	43.5	50	0.848	**2146164**
SQ-25 LGR	Light grey	40	17	49.5	50	0.970	**2146207**

Cable brackets for isCon® conductors for mounting on the building structure. Can also be used in the first 1.5 m. Can be arranged next to each other. Made from a UV and weather-resistant polyamide.

starQuick nut

PC





Type	Colour	Nominal size	Dim. A mm	Dim. L mm	Dim. h mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SQ M6	Light grey	M6	17	15	5	4	100	0.070	**2146509**

Nut for insertion in starQuick clip, to mount the clip on an M6 thread.

Information signs

isCon® information panel

PS





Type	Pack Piece	Weight kg/100 pc.	Item no.
isCon HWS	1	2.000	**5408058**

Label: "NOTE! Insulated lightning protection with the OBO isCon® system. Only a lightning protection specialist may carry out changes"
- To label the lightning protection system
- Self-adhesive and with 4 fastening holes ø 6.5 mm

isCon® information panel EN

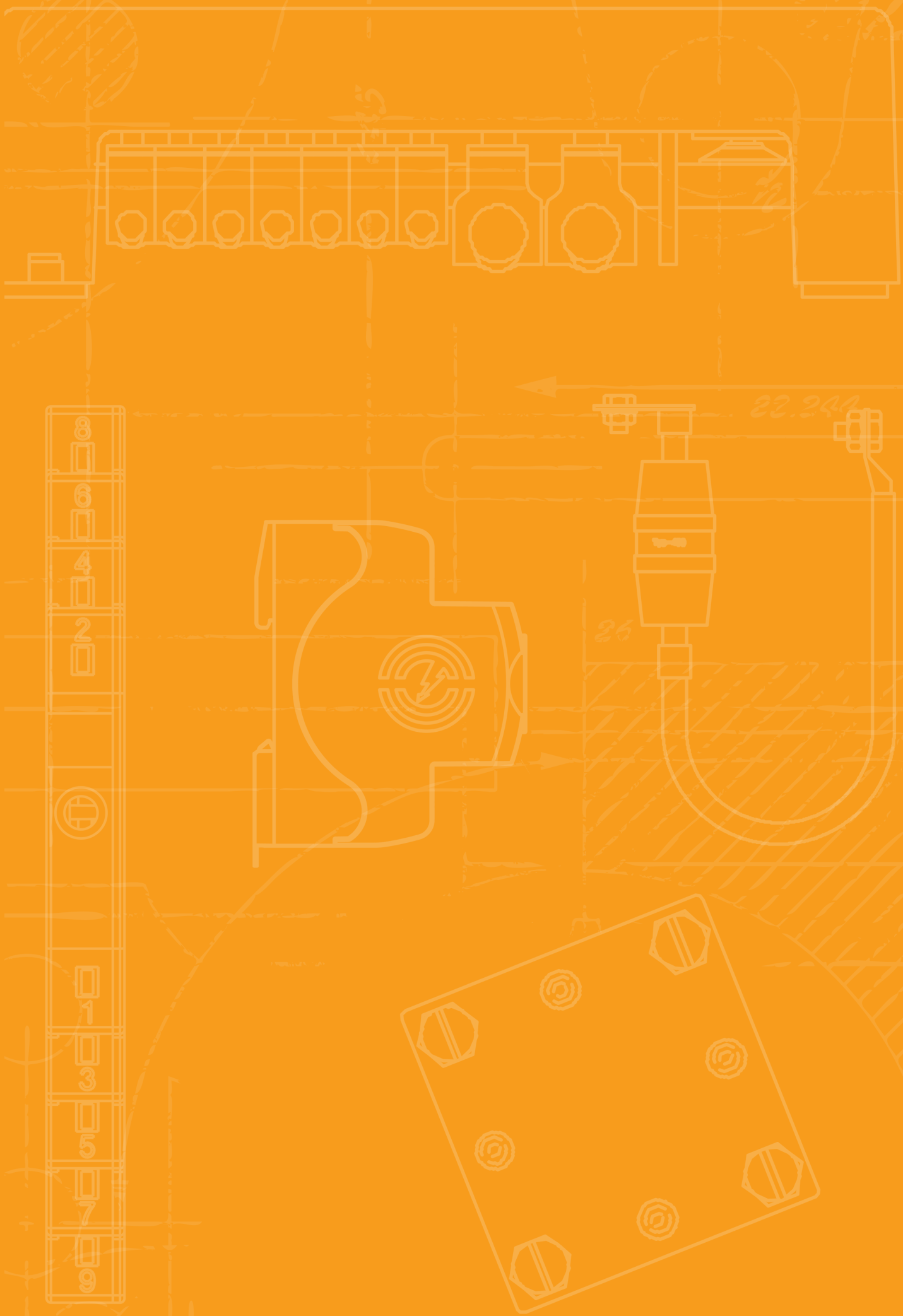
PS





Type	Pack Piece	Weight kg/100 pc.	Item no.
isCon HWS EN	1	2.000	**5408059**

Label: "NOTE! Insulated lightning protection with the OBO isCon® system. Only a lightning protection specialist may carry out changes"
- To label the lightning protection system
- Self-adhesive and with 4 fastening holes ø 6.5 mm



Conductor material


Cable material 44


Cable bracket 50


Connection clamps and connection terminals 62


Connection and separating terminals 90


Connection material 96


Protection and spark gaps 112

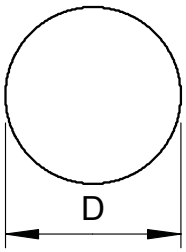

Accessories 114

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Round conductor, galvanised steel

St FT





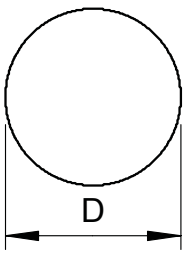
Type	Nominal size Ø mm	Cross-section mm²	Normal ring ca. m	Normal ring ca. kg	Pack m	Weight kg/100 m	Item no.
RD 8-FT	8	50	125	50	125	40.000	**5021081**
RD 8-FT 50	8	50	50	20	50	40.000	**5021050**
RD 10	10	78	80	50	80	63.000	**5021103**

- According to DIN EN 62561-2 (VDE 0185-561-2)
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)
- RD 10 can also be used in the earth
- Zinc coating: ≥ 350 g/m² (approx. 50 µm in mean value)

Round conductor, stainless steel A2

VA VA





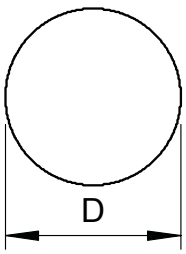
Type	Nominal size Ø mm	Cross-section mm²	Normal ring ca. m	Normal ring ca. kg	Pack m	Weight kg/100 m	Item no.
RD 8-V2A	8	50	125	50	125	40.000	**5021235**
RD 10-V2A	10	78	50	32	50	63.000	**5021227**
RD 10-V2A	10	78	80	50	80	63.000	**5021239**
RD 8-V4A	8	50	125	50	125	40.000	**5021644**
RD 10-V4A 20	10	78	20	12	20	63.000	**5021640**
RD 10-V4A	10	78	50	32	50	63.000	**5021642**
RD 10-V4A	10	78	80	50	80	63.000	**5021647**

- According to DIN EN 62561-2 (VDE 0185-561-2)
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)
- RD 10-V4A for applications in the earth
- According to the foundation earth electrode standard DIN 18014, V4A is required in the earth

Round conductor, copper

Cu





Type	Nominal size Ø mm	Cross-section mm²	Normal ring ca. m	Normal ring ca. kg	Pack m	Weight kg/100 m	Item no.
RD 8-CU	8	50	100	45	100	45.000	**5021480**
RD 10-CU	10	78	50	35	50	70.000	**5021502**
RD 8-CU 25	8	50	55	25	55	45.000	**5021484**

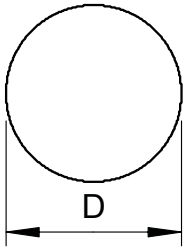
- According to DIN EN 62561-2 (VDE 0185-561-2)
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)

Alu

Round conductor, aluminium

Type	Nominal size Ø mm	Cross-section mm²	Normal ring ca. m	Normal ring ca. kg	Pack m	Weight kg/100 m	Item no.
RD 8-ALU	8	50	150	20	150	13.500	5021286
RD 8-ALU-T	8	50	150	20	150	13.500	5021294
RD 8-ALU-T 75	8	50	75	10	75	13.500	5021296
RD 10-ALU	10	78	95	20	95	21.000	5021308

- According to DIN EN 62561-2 (VDE 0185-561-2)
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)
- RD 8 ALU: Semi-hard (E-AlMgSi0.5 corresponds to DIN 48801)
- RD 8 ALU-T: Can be subjected to torsion (E-AlMgSi0.5 corresponds to DIN 48801)
- RD 10 ALU: Pure aluminium (E-Al corresponds to DIN 48801)
- AL and ALMgSi may not be routed directly on, in or under plaster, mortar or concrete, nor routed in the earth



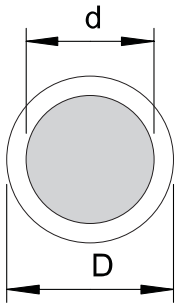


Alu

Round conductor, aluminium, with PVC jacketing

Type	Colour	Dim. d mm	Dim. D mm	Cross-section mm²	Normal ring ca. m	Normal ring ca. kg	Pack m	Weight kg/100 m	Item no.
RD 8-PVC	Cream	8	11	50	100	20	100	20.000	5021332

- Meets the requirements of VDE 0185-305 (IEC 62305)
- With PVC jacketing (halogen-free)
- Suitable for routing on, in or under plasterwork, mortar or concrete



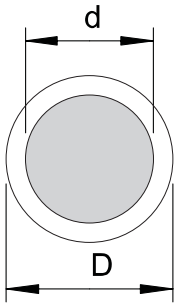


St FT

Round conductor, galvanised steel with PVC jacketing

Type	Colour	Dim. d mm	Dim. D mm	Cross-section mm²	Normal ring ca. m	Normal ring ca. kg	Pack m	Weight kg/100 m	Item no.
RD 10-PVC	Black	10	13	78	75	50	75	67.000	5021162

- Corresponds to the requirements according to VDE 0185-305 (IEC 62305)
- Zinc coating: ≥ 350 g/m² (approx. 50 µm in mean value)
- With PVC jacketing



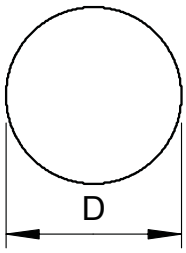


St Cu

Round conductor, copper sheathed

Type	Nominal size Ø mm	Cross-section mm²	Pack m	Weight kg/100 m	Item no.
RD 8-ST CU	8	50	100	40.000	5021380

- According to IEC/ EN 62561-2 (VDE 0185-561-2)
- Meets the requirements of VDE 0185-305 (IEC 62305)
- Copper layer thickness: Min. 250 µm



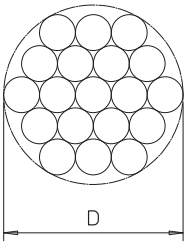


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Copper cable

Cu



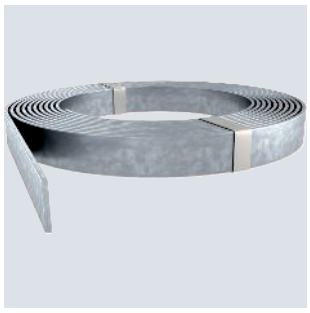


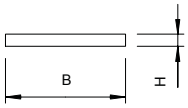
Type	Dim. D mm	Single wires	Cross-section mm²	Normal ring ca. m	Normal ring ca. kg	Pack m	Weight kg/100 m	Item no.
S 11-CU	10.5	19x Ø 2,1	70	50	30	50	58.600	**5021654**
S 9-CU	9	19x Ø 1,8	50	100	45	100	45.000	**5021652**
S-11-CU SN	10.5	19x Ø 2,1	70	50	30	50	58.600	**5021656**

- According to DIN EN 62561-2 (VDE 0185-561-2)
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)

Galvanised steel flat conductor for earth

St FT





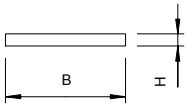
Type	Dim. B mm	Dim. H mm	Cross-section mm²	Normal ring ca. kg	Pack m	Weight kg/100 m	Item no.
5052 DIN 30X3.5	30	3.5	105	25	30	84.000	**5019345**
5052 DIN 30X3.5	30	3.5	105	50	60	84.000	**5019347**
5052 DIN 40X4	40	4	160	51	40	128.000	**5019355**
5052 DIN 40X5	40	5	200	50	30	162.000	**5019360**

- According to DIN EN 62561-2 (VDE 0185-561-2)
- Meets the requirements of VDE 0185-305 (IEC 62305)
- Zinc coating: ≥ 500 g/m² (approx. 70 µm in mean value)
- For lightning protection, earthing systems and ring equipotential bonding

Flat conductor, copper sheathed

St Cu





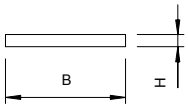
Type	Dimension W x H mm	Cross-section mm²	Weight kg/100 m	Item no.
5052 STCU 30X3	30x3	90	80.000	**5020980**

- According to IEC/ EN 62561-2 (VDE 0185-561-2)
- Copper layer thickness: Min. 70 µm

Stainless steel flat conductor

VA VA





Type	Dim. B mm	Dim. H mm	Cross-section mm²	Normal ring ca. kg	Pack m	Weight kg/100 m	Item no.
5052 V2A 30X3.5	30	3.5	105	42	50	82.500	**5018501**
5052 V4A 30X3.5	30	3.5	105	42	50	82.425	**5018706**
5052 V4A 30X3.5	30	3.5	105	21	25	82.425	**5018730**

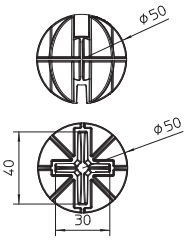
- According to DIN EN 62561-2 (VDE 0185-561-2)
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)
- According to the foundation earth electrode standard DIN 18014, V4A is required in the earth
- For use in areas at risk of corrosion
- For lightning protection, earthing systems and ring equipotential bonding

PE

Protective cap for connection lugs, reflective

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
ProtectionBall	RD 8-10/ FL 25/ 30/ 40	25	2.050	**5018014**

- For snapping onto round conductors or flat conductors
- Noticeable, reflective label
- For accident protection during the construction phase



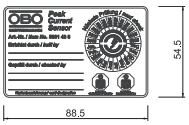


Magnetic card PCS

Type	Pack PU	Weight kg/100 PUs	Item no.
PCS	1	5.000	**5091438**

Peak Current Sensor (PCS) card for recording pulsed/lightning currents. A continuous check of whether lightning has struck the lightning protection system and how high the most recent lightning current was in kA can thus be carried out in the simplest manner by the system operator, specialist lightning protection company or by a surveyor. Here, the printed maintenance circuit and the labelling panels support the maintenance work of the entire lightning protection system which must be performed at defined intervals according to VDE 0185-305-3 (IEC/EN 62305-3).

· Contents = 10 units
· Digital evaluation via the PCS card reading device
· Can be used in addition to the OBO lightning current meter LSC I+II
· With separate labelling panels: "Erected by", "Tested by", "Card code"
· Integrated maintenance circuit (year/month)



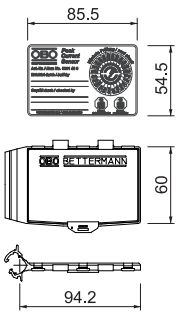


Magnetic card and holder MK-B

Type	Pack PU	Weight kg/100 PUs	Item no.
MK-B	1	31.000	**5091322**

PCS magnetic card to record pulsed/lightning currents including holder

- Holder can be leaded
- For mounting on round conductor Rd 8-10
- Simple holder mounting through clamping
- 1 PU = 10 units



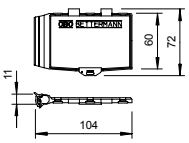


Magnetic card holder PCS-H

Type	Pack PU	Weight kg/100 PUs	Item no.
PCS-H	1	31.000	**5091527**

Magnetic card holder for mounting PCS cards.

- Sealable holder
- For installing on round conductor Rd 8-10
- Simple holder installation by means of clamp
- 1 PU = 10 pieces

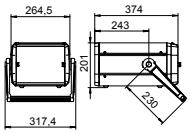




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Card reader PCS-CS..





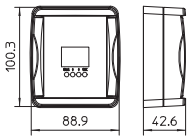
Type	Country version	Nom. V	Measuring range	Measuring tolerances	Pack Piece	Weight kg/100 pc.	Item no.
PCS-CS-D	EN	230	3--120 kA	<2 kA (<2%)	1	750.000	**5091683**

Magnetic card reader for reading and analysing PCS cards.

- Inc. rechargeable battery for 4 h continuous, no-mains operation
- Large, clear display

Lightning strike and surge counter





Type	Measuring range	Pack Piece	Weight kg/100 pc.	Item no.
LSC I+II	1 kA - 100 kA	1	32.500	**5091722**

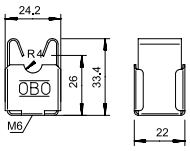
The LSC I+II lightning current meter measures and permanently saves pulse currents, together with the date and time. This ensures constant monitoring in order to notice if any lightning has struck the lightning protection system. Should this be the case, then the lightning protection system must be maintained according to VDE 0185-305 (IEC 62305).

- Saving and display of time and date
- Usable both inside and outside due to its protection class of IP65
- Cable clip for round conductor or flat conductor
- Direct mounting on the conductor or the PE conductor of the surge protective device
- Long lifespan of the internal lithium batteries
- LCD display
- Internal battery
- Tested according to VDE 0185-561-6 (IEC 62561-6)

Cable bracket for Rd 8 mm, through-way Ø 7 mm

VA





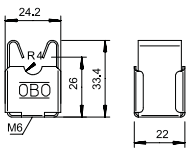
Type	Fit mm	Installation height mm		Pack Piece	Weight kg/100 pc.	Item no.
177 20 VA M8	Rd 8	20		20	1.838	**5207347**

- With female thread M8 or through hole Ø 5 mm
- From stainless steel (V2A)

Cable bracket for Rd 8 mm, through-way Ø 5 mm

VA





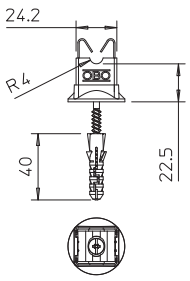
Type	Fit mm	Installation height mm		Pack Piece	Weight kg/100 pc.	Item no.
177 20 VA M6	Rd 8	20		20	2.500	**5207339**

- With female thread M6 or through hole Ø 5 mm
- From stainless steel (V2A)

Cable bracket for Rd 8 mm, fastening with screw and anchor

VA





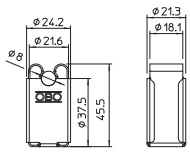
Type	Fit mm	Installation height mm		Pack Piece	Weight kg/100 pc.	Item no.
177 20 VA B-HD	Rd 8	20		50	2.900	**5207901**

- With female thread M8 or through hole Ø 5 mm
- From stainless steel (V2A)
- With pre-mounted wood screws (5 x 60) and plastic dowels (8 x 40)

Cable bracket, raised construction type, for Rd 8 mm, through-way Ø 5 mm

VA





Type	Fit mm	Installation height mm		Pack Piece	Weight kg/100 pc.	Item no.
177 35 VA M6	Rd 8	35		20	2.680	**5207342**

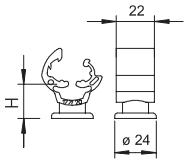
- With female thread M6 or through hole Ø 5 mm
- From stainless steel (V2A)

PA

Cable bracket Rd 8–10 mm, copper-plated

Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
177 30 CU	Rd 8-10	30	10	0.784	**5207754**

- With female thread M8 for screwing and through hole for wood screws
- Colour: copper
- Weather and temperature-resistant from -35 °C to +90 °C



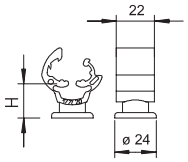


PA

Cable bracket Rd 8–10 mm with pre-mounted wood screw

Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
177 B-HD20	Rd 8-10	20	50	1.930	**5207851**
177 B-HD30	Rd 8-10	30	50	1.503	**5207878**

- With female thread M8 for screwing and through hole for wood screws
- For round conductor Rd 8-10
- Weather and temperature-resistant from -35 °C to +90 °C
- With pre-mounted wood screws (5 x 60) and plastic dowels (8 x 40)



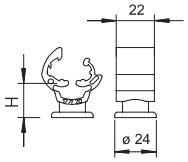


PA

Cable bracket Rd 8–10 mm

Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
177 20 M8	Rd 8-10	20	20	0.723	**5207444**
177 30 M8	Rd 8-10	30	20	0.790	**5207460**
177 55 M8	Rd 8-10	55	20	1.007	**5207487**

- With female thread M8 or through hole Ø 7 mm
- Weather and temperature-resistant from -35 °C to +90 °C



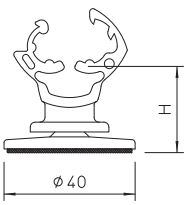


PA

Cable bracket, Rd 8–10 mm with bonding base

Type	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
177 20 KL	25	50	1.239	**5207451**

- For bonding to concrete, steel or smooth substrates
- Not suitable for rough surfaces such as plaster, wood, bitumen strips
- Processing at > +15 °C and on cleaned substrate
- When installing flat conductors and round conductors, expansion elements are to be used for thermal compensation
- Use on film roofs after consultation with the responsible roof construction company





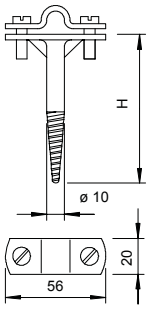
Schutzinstallationen - Äußerer Blitzschutz / en / 2023/03/06 13:40:52 13:40:52 (LLExport_03296) / 2023/03/06 13:41:15 13:41:15

Cable bracket with crossbar

Cable bracket Rd 8–10 mm, with wood screw thread

TG F





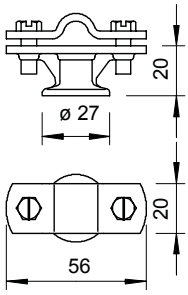
Type	Fit mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
176 A 65	Rd 8-10	65	50	9.536	**5227070**
176 A 80	Rd 8-10	80	50	10.025	**5227089**
176 A 100	Rd 8-10	100	50	11.500	**5227100**
176 A 150	Rd 8-10	150	20	13.100	**5227151**

- Also for flat conductor to FL 30
- With wood screw thread
- Bottom section, hot-dip galvanised cast iron
- Over-piece and screws, hot dipped galvanised steel

Cable bracket Rd 8–10 mm with wood screw, plastic anchor

Zn Cu





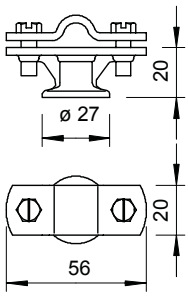
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 B-MS-HD 8-10	Rd 8-10	100	7.280	**5230365**

- With female thread M8 or through hole Ø 7 mm
- Over-piece installed with 2 hexagonal bolts
- Version HD with wood screws (5 x 60) and plastic dowels (8 x 40)

Cable bracket Rd 8–10 mm with wood screw, plastic anchor

Zn



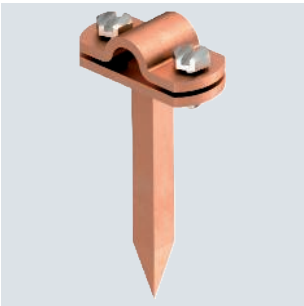


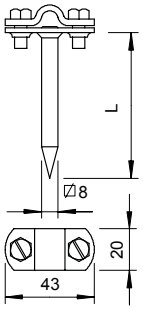
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 B-Z-HD	Rd 8-10	100	6.580	**5230322**

- With female thread M8 or through hole Ø 7 mm
- Over-piece installed with 2 hexagonal bolts
- Version HD with wood screws (5 x 60) and plastic dowels (8 x 40)

Cable bracket Rd 8–10 mm, with square pin, copper-plated

Cu





Type	Fit mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
163 100 CU	Rd 8-10	100	10	10.840	**5223601**

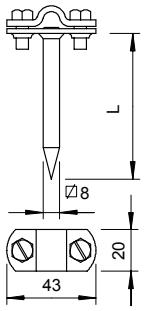
- Complete with crossbar and hexagonal bolts
- With square pin for rapid mounting
- With hexagonal bolts made of VA

St FT

Cable bracket Rd 8–10 mm, with square pin

Type	Fit mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
163 70 FT	Rd 8-10	70	50	8.476	**5223075**
163 100 FT	Rd 8-10	100	50	10.056	**5223105**

- Complete with crossbar and hexagonal bolts
- With square pin for rapid mounting
- With hexagonal bolts made of VA



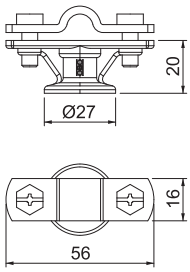


Zn Cu

Cable bracket Rd 8–10 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 8-10	Rd 8-10	20	6.247	**5230217**

- With female thread M8 or through hole Ø 7 mm
- Over-piece installed with 2 hexagonal bolts



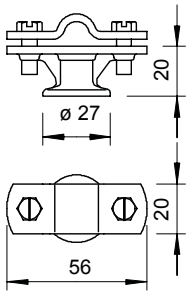


Zn G

Cable bracket with crossbar Rd 8–10 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 Z8-10	Rd 8-10	20	5.956	**5229960**

- With female thread M8 or through hole Ø 7 mm
- Over-piece installed with 2 hexagonal bolts
- Version HD with wood screws (5 x 60) and plastic dowels (8 x 40)



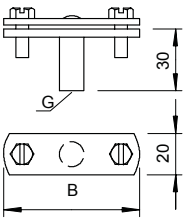


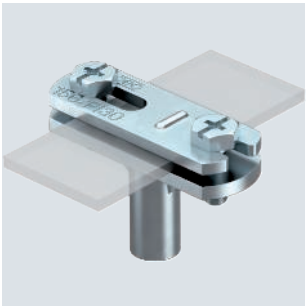
Zn G

Cable bracket for flat conductors

Type	Dim. B mm	Fit mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
168 FL30-M6	56	FL 30	M6	20	7.640	**5229464**
168 DIN 30	56	FL 30	M8	20	6.570	**5229480**

- For flat strip
- With female thread (G)
- Installed height 30 mm



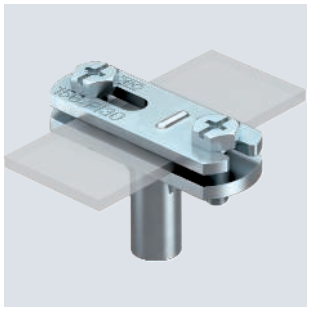


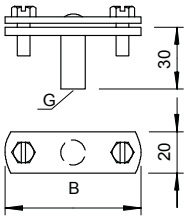
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Cable bracket with crossbar

Cable bracket for flat conductors

TG FT





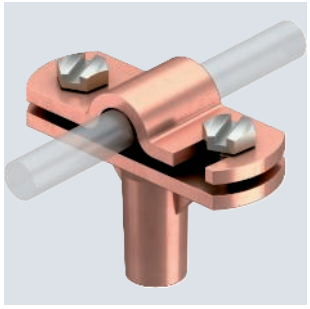
Type	Dim. B mm	Fit mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
168 FL40-M8	66	FL 40	M8	20	8.200	**5229553**

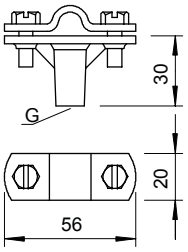
- For flat strip
- With female thread (G)
- Installed height 30 mm

Cable bracket with hinged crossbar

Cable bracket with hinged crossbar

Zn Cu



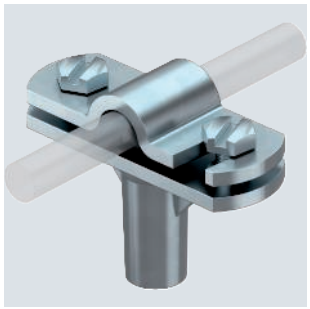


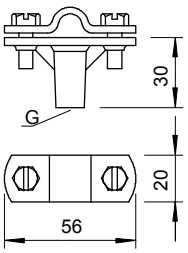
Type	Fit mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
168 DIN-K-M8	Rd 8-10	M8	20	8.440	**5229383**

- With female thread (G)
- With over-piece and 2 hexagonal bolts
- Installed height 30 mm

Cable bracket Rd 8–10 mm, 30 mm mounting height

Zn G





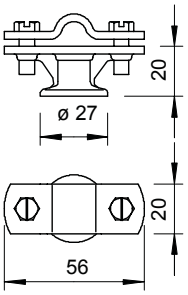
Type	Fit mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
168 8-10 M6	Rd 8-10	M6	20	7.800	**5229162**
168 DIN-K-M8	Rd 8-10	M8	20	7.780	**5229839**

- With female thread (G)
- With over-piece and 2 hexagonal bolts
- Installed height 30 mm

Cable bracket with hinged crossbar Rd 8–10 mm

Zn G





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 Z-K 8-10	Rd 8-10	20	6.202	**5229961**

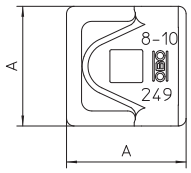
- With female thread M8 or through hole Ø 7 mm
- Hinge crossbar for quick swivel mounting
- Crossbar mounted with 2 hexagonal bolts

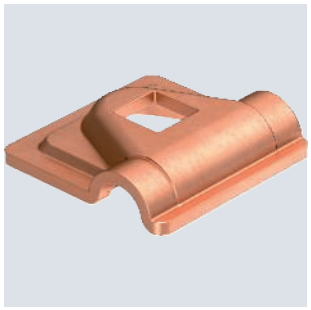
Cu

Quick connector, upper part Rd 8–10 mm

Type	Fit mm	Dim. A mm	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 CU-OT	Rd 8-10	40	100	3.580	**5311530**

- For round conductor fastening Rd 8-10
- Suitable for M10 bolts



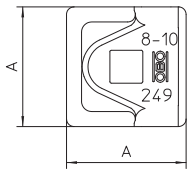


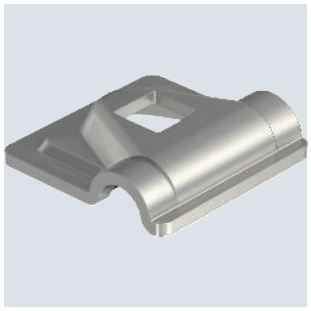
VA

Quick connector, upper part Rd 8–10 mm

Type	Fit mm	Dim. A mm	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 VA-OT	Rd 8-10	40	100	3.130	**5311554**

- For round conductor Rd 8-10
- Suitable for M10 bolts



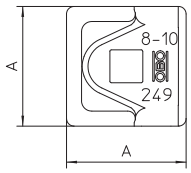


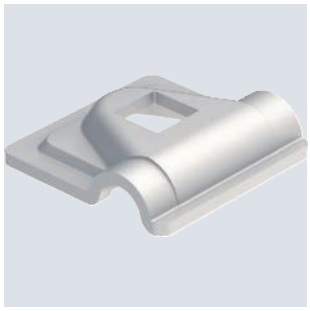
Alu

Quick connector, upper part Rd 8–10 mm

Type	Fit mm	Dim. A mm	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 ALU-OT	Rd 8-10	44	100	2.100	**5311585**

- For round conductor fastening Rd 8-10
- Suitable for M10 bolts



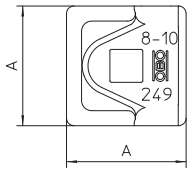


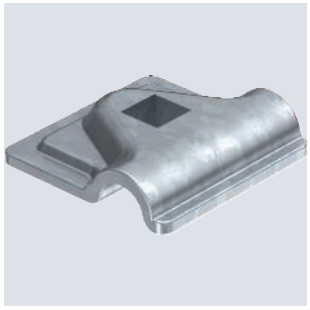
St FT

Quick connector, upper part Rd 8–10 mm

Type	Fit mm	Dim. A mm	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 ST-OT	Rd 8-10	40	100	3.240	**5311503**

- For round conductor fastening RD 8-10
- Suitable for M10 bolts





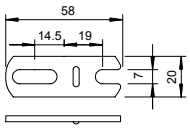
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Hinge crossbar

Cable bracket, upper part for FL 30 mm

St FT





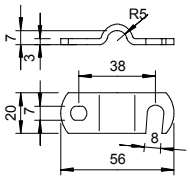
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
156 FL	FL30	50	2.460	5228328

- With slot for quick installation

Cable bracket, upper part for Rd 8–10 mm

St FT





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
156 8-10	Rd 8-10	100	2.680	5228026

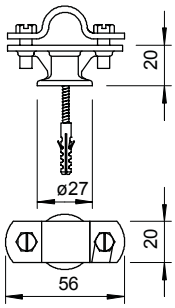
- With open slot for quick installation

Holder for interception and ground insertion rods

Rod holder, 16 mm, with screw and anchor

Zn Cu





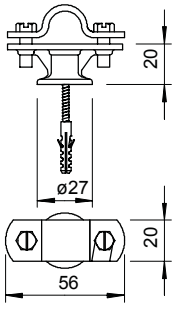
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 B-HD-16	Rd 16	100	10.100	5412811

- For lightning and ground insertion rods Rd 16
- Installed with over-piece and hexagonal bolts M6 x 16 (VA)
- Female thread M8 for screwing and through hole for wood screws
- Pre-mounted with wood screw 5 x 60 and plastic dowels 8 x 40

Rod holder, 16 mm, with screw and anchor

Zn





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 B-Z-HD	Rd 16	100	6.000	5412803

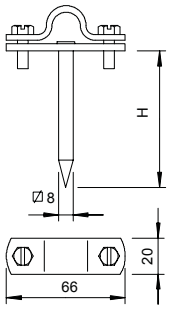
- For lightning and ground insertion rods Rd 16
- Installed with over-piece and hexagonal bolts M6 x 16 (VA)
- Female thread M8 for screwing and through hole for wood screws
- Pre-mounted with wood screw 5 x 60 and plastic dowels 8 x 40

St F

Rod holder, 16 mm, with square pin

Type	Fit mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
112 DIN-100	Rd 16	100	10	12.412	**5410096**

- For lightning and ground insertion rods
- Over-piece with 2 hexagonal bolts M6 x 16 (VA)
- With square pin



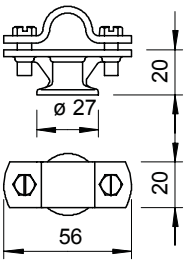


Zn Cu

Rod holder, 16 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 ZN-16	Rd 16	10	10.100	**5412633**

- For lightning and ground insertion rods Rd 16
- Installed with over-piece and hex-head screws M6 x 16
- With female thread M8 or through hole Ø 7 mm



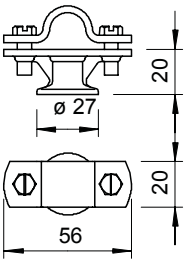


Zn

Rod holder, 16 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 Z-16	Rd 16	10	6.000	**5412609**

- For lightning and ground insertion rods Rd 16
- Installed with over-piece and hex-head screws M6 x 16
- With female thread M8 or through hole Ø 7 mm



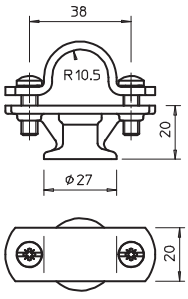


Zn

Rod holder, 20 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 Z-20	Rd 20	20	8.200	**5230527**

- Installed with over-piece and hex-head screws M6 x 16
- With female thread M8 or through hole Ø 7 mm



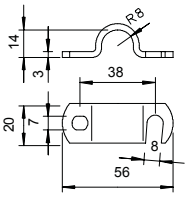


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Cable bracket, round conductors and air-termination rods 16 mm

St FT



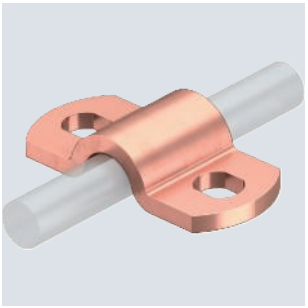


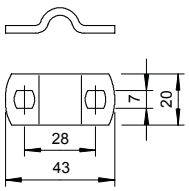
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
156 16	Rd 16	50	3.230	**5228220**

• With open slot for quick installation

Cable bracket, upper part for Rd 8–10 mm, copper

Cu



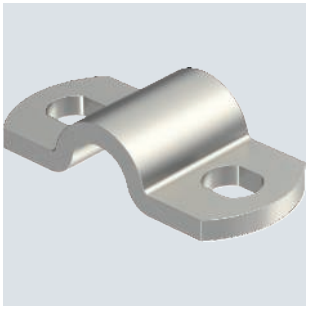


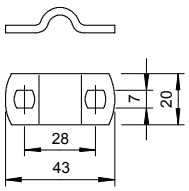
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
156 K8-10 CU	Rd 8-10	100	2.260	**5228131**

• For Rd 8–10 mm

Cable bracket, upper part for Rd 8–10 mm, stainless steel

VA





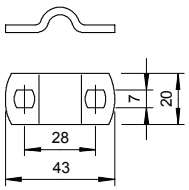
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
156 K8-10 VA	Rd 8-10	100	2.100	**5228134**

• For Rd 8–10 mm

Cable bracket, upper part for Rd 8–10 mm, steel

St FT





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
156 K8-10 ST	Rd 8-10	100	2.000	**5228123**

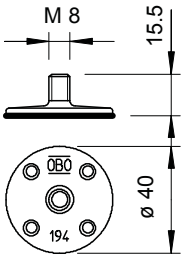
• For Rd 8–10 mm

PA

Bonding base including industrial bonding pad

Type	Colour	Thread		Pack Piece	Weight kg/100 pc.	Item no.
194 K	Grey	M8		20	0.600	**5207266**

- With threaded stem M8
- For mounting cable supports with M8 female thread
- For bonding to concrete, steel or smooth substrates
- Not suitable for rough surfaces such as plaster, wood, bitumen strips
- Processing at > +15 °C and on cleaned substrate
- When installing flat conductors and round conductors, expansion elements are to be used for thermal compensation
- Use on film roofs after consultation with the responsible roof construction company



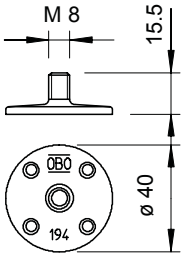


PA

Bonding base

Type	Colour	Thread		Pack Piece	Weight kg/100 pc.	Item no.
194	Grey	M8		100	0.389	**5207258**

- With threaded stem M8
- For mounting cable supports with M8 female thread
- For bonding to concrete, steel or brickwork
- When installing flat conductors and round conductors, expansion elements are to be used for thermal compensation



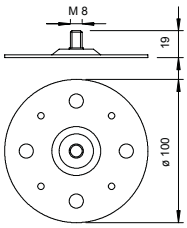


St FS

Base plate

Type	Thread		Pack Piece	Weight kg/100 pc.	Item no.
199 DIN	M8		10	14.200	**5208017**

- With threaded pin M8
- Suitable for direct bonding
- Threaded pin brass and base plate hot-dip galvanised steel



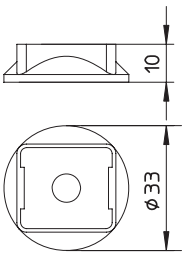


PP

Washer for cable bracket, type 177

Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
177 U	Light grey		20	0.286	**5207371**

- For simple wall installation
- UV-resistant

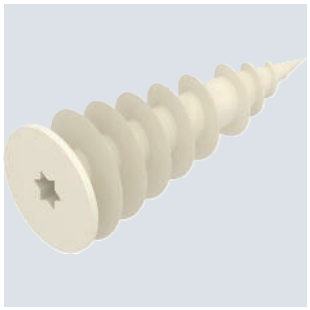




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Hard foam plate anchor

PA

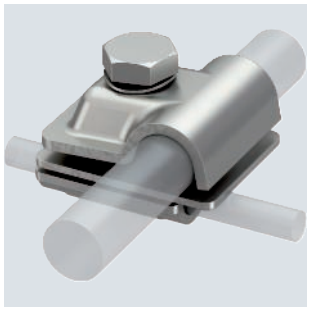


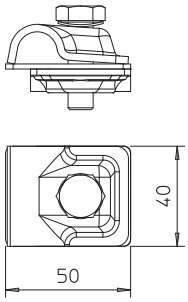
Type	Length mm	Dowel Ø mm	Wood screws Ø mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
177 WDVS 64x25 B	63.5	9	4 - 5	0.05	50	0.658	**5207375**

Anchor for universal light-duty fastening in plastered composite heat insulation systems (WDVS). The self-tapping point makes pre-drilling superfluous.

Vario quick connector Rd 8-10x16

VA



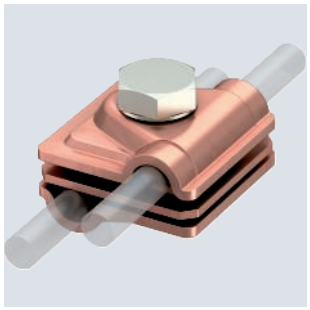


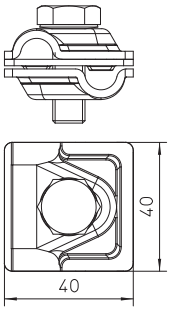
Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
249 8-10X16 VA	8-10x16	40	H/100		10	14.958	**5311590**

- For T, intersection and parallel connections with adapter plates
- Quick mounting using an M10 x 30 bolt, made from rustproof stainless steel
- With sprung washer to DIN 137
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)

Variable earthing connector Rd 6-8 / 8-10 mm

Cu



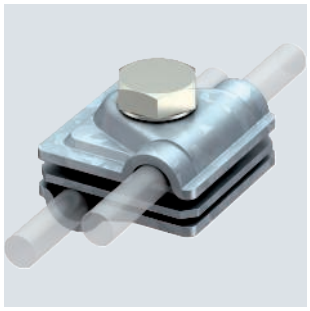


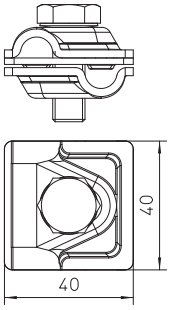
Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
249 6-10 CU	RD 6-8 / 8-10	40	H/100		10	14.540	**5311417**

- For T, cross-over and parallel connections with adapter plates
- Quick mounting using an M10 x 30 bolt, made from rustproof stainless steel A2
- With sprung washer to DIN 137
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)

Variable earthing connector Rd 6-8 / 8-10 mm

St FT



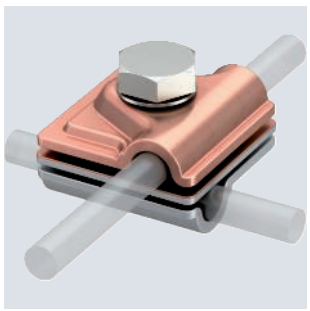


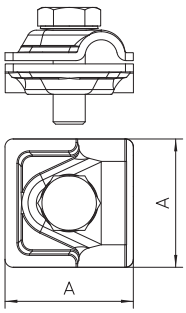
Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
249 6-10 ST	RD 6-8 / 8-10	40	H/100		20	13.100	**5311410**

- For T, intersection and parallel connections with adapter plates
- Quick mounting using an M10 x 30 bolt, made from rustproof stainless steel
- With sprung washer to DIN 137
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)

Variable bi-metal quick connector

Cu





Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA	Material		Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 ZV	Rd 8-10	44	H/100	Cu		10	14.220	**5311535**

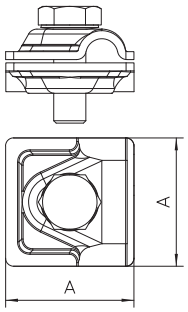
- Intermediate plate, copper/aluminium, top section copper and aluminium
- For T, cross and parallel connectors
- Quick installation using hexagonal bolt M10 x 30, high-grade stainless steel
- With spring washer according to DIN 137
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

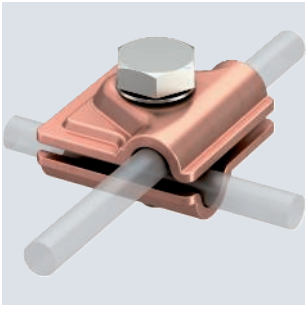
Cu

Vario quick connector

Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 CU	Rd 8-10	40	H/100		10	11.900	**5311527**

- For T, cross and parallel connectors
- Quick installation using hexagonal bolt M10 x 30, high-grade stainless steel
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)



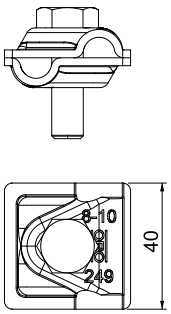


VA

Vario quick connector

Type	Fit mm	Lightning current carrying capacity kA	Short-circuit current (50 HZ) (1 s;≤300 °C) kA		Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 V4A	Rd 8-10	H/100	1.4		10	9.500	**5311404**

- For T, cross-over and parallel connections
- Complete component made of A4
- Quick mounting using an M10 x 30 bolt, made from rustproof stainless steel
- Meets the requirements of VDE 0185-305 (IEC 62305)



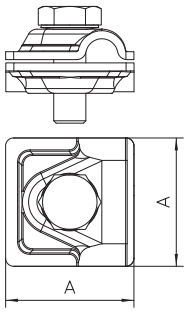


VA

Vario quick connector

Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 VA	Rd 8-10	40	H/100		10	9.276	**5311551**

- For T, cross and parallel connectors
- Quick installation using hexagonal bolt M10 x 30, high-grade stainless steel
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)



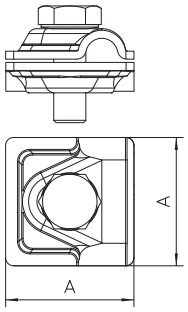


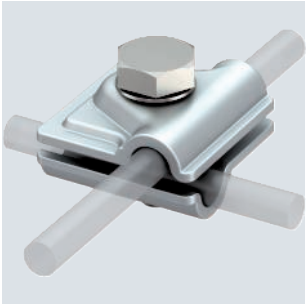
Alu

Vario quick connector

Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 ALU	Rd 8-10	44	H/100		30	6.600	**5311519**
249 B ALU	Rd 8-10	44	H/100		100	7.250	**5311713**

- For T, cross and parallel connectors
- Quick installation using hexagonal bolt M10 x 30, high-grade stainless steel
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

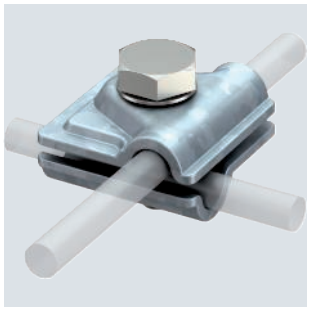


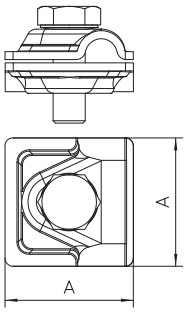


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Vario quick connector

St FT





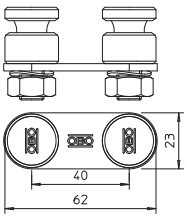
Type	Fit mm	Dim. A mm	Short-circuit current (50 HZ) (1 s;≤300 °C) kA	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 ST	Rd 8-10	40	5.6	H/100	20	9.306	**5311500**
249 B ST	Rd 8-10	40	5.6	H/100	100	10.800	**5311705**

- For T, cross and parallel connectors
- Quick installation using hexagonal bolt M10 x 30, high-grade stainless steel
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

Connector, Rd 8–10 mm, double, with pressure trough

VA





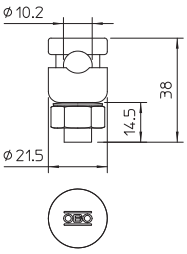
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
5002 N-VA	Rd 8-10	N/50	10	16.200	**5304270**

- With 2 Fix contact clamping screws, nuts and serrated washers
- With pre-mounted pressure trough made of VA
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)

Connector, Rd 8–10 mm with pressure trough

Cu





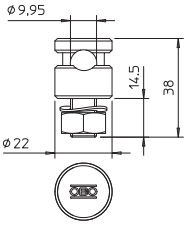
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
5001 N-CU	Rd 8-10	H/100	10	6.750	**5304172**

- With 1 fix contact clamping screw, nut and serrated washer
- Including pre-mounted pressure sump, steel
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

Connector, Rd 8–10 mm with pressure trough

VA





Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
5001 N-VA	Rd 8-10	N/50	10	6.800	**5304176**

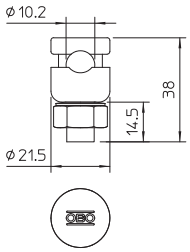
- With 1 fix contact clamping screw, nut and serrated washer
- Including pre-mounted pressure sump, steel
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

St FT

Connector, Rd 8–10 mm with pressure trough

Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
5001 N-FT	Rd 8-10	N/50	20	5.900	**5304164**

- With 1 fix contact clamping screw, nut and serrated washer
- Including pre-mounted pressure sump, steel
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)



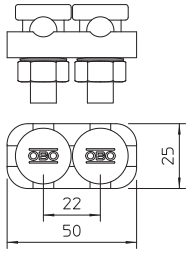


St FT

Connector Rd 8–10 mm, double

Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
5002 DIN-FT	Rd 8-10	H/100	20	14.240	**5304202**

- With 2 fix contact clamping screws, nut and serrated washer
- Including pre-mounted connecting pressure piece, die-cast zinc or copper-plated die-cast zinc
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)



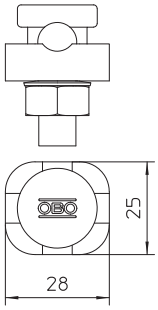


Zn Cu

Connector Rd 8–10 mm, single, copper

Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
5001 ZN-CU	Rd 8-10	H/100	10	8.760	**5304113**

- With fix contact clamping screw, nut and serrated washer
- With bore hole 10.2 mm
- With pre-mounted pressure piece, die-cast zinc
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)



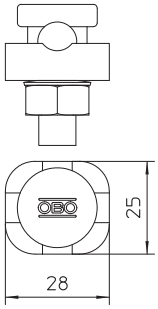


St FT

Connector Rd 8–10 mm, single

Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
5001 DIN-FT	Rd 8-10	H/100	20	7.450	**5304105**
5001 DIN-FT+VA	Rd 8-10	N/50	20	7.450	**5304107**

- With fix contact clamping screw, nut and serrated washer
- With bore hole 10.2 mm
- With pre-mounted pressure piece, die-cast zinc
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)





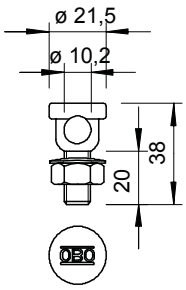
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Connector

Connector, Rd 8–10 mm with M10 thread

St F



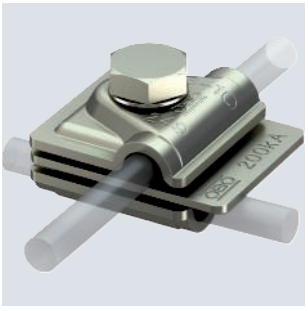


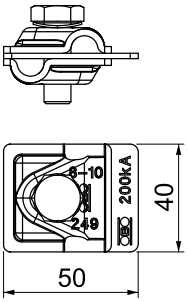
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
5000	Rd 8-10	20	4.630	5304008

- With bore hole 10.2 mm
- With thread M10
- Including pre-mounted nut M10 and serrated washer
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

Vario quick connector 200 kA

VA





Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 V2A 200	Rd 8-10	H2/200	10	12.374	5311595

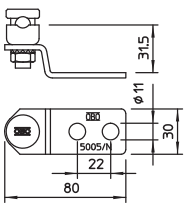
- For T, intersection and parallel connections
- Quick mounting using an M10 x 30 bolt, made from rustproof stainless steel
- Meets the requirements of VDE 0185-305 (IEC 62305)
- Tested according to VDE 0185-561-1 (IEC/EN 62561-1) with 200 kA
- For use in lightning protection class I with the isCon® Premium conductor

Connection and end pieces

Connection and end piece with connector and pressure trough

St FT





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
5005 N-FT	Rd 8-10	10	11.600	5304660

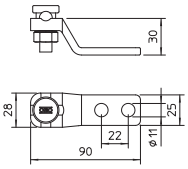
- With 2 attaching holes Ø 11 mm
- Including pre-mounted connector 5001 N
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

St F

Connection and end piece, DIN version

Type	Fit mm	Material	Pack Piece	Weight kg/100 pc.	Item no.
5005 DIN-FT	Rd 8-10	St	10	15.518	**5304601**

- With 2 attaching holes and 1 fix contact clamping screw 5000…
- With 2 attaching holes Ø 11 mm
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)



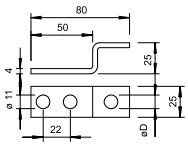


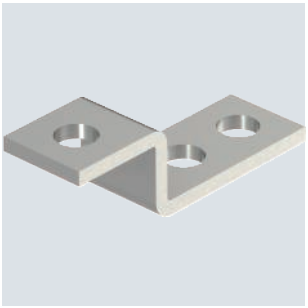
VA

Connection and end piece

Type	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
5011 VA M10	11	10	7.064	**5334934**
5011 VA M12	13	10	7.048	**5334942**

- For attaching to steel structures or bolting to fixed earthing terminals
- For attachments: Round conductor Rd 8-10 and flat conductor FL 30 x 3.5
- 2 attaching holes Ø 11 mm
- 1 attaching hole Ø D mm



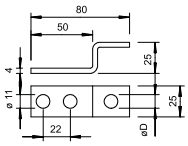


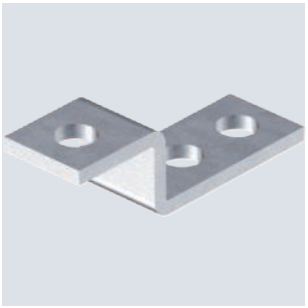
St FT

Connection and end piece

Type	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
5011	11	10	7.064	**5304997**

- For attaching to steel structures or bolting to fixed earthing terminals
- For attachments: Round conductor Rd 8-10 and flat conductor FL 30 x 3.5
- 2 attaching holes Ø 11 mm
- 1 attaching hole Ø D mm



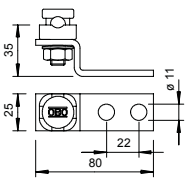


St F

Connection and end piece with connector

Type	Material	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
5009	St	Rd 8-10	H/100	10	14.500	**5304970**

- With 2 attaching holes Ø 11 mm
- Installed with connector (single-piece) type 5001 DIN-FT
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

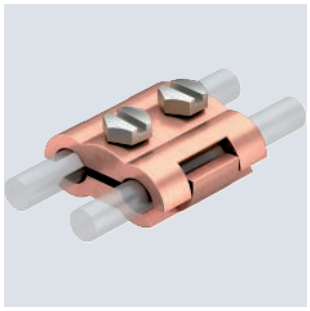


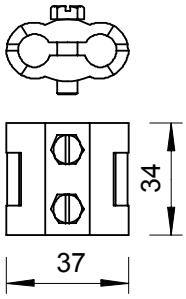


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Parallel connector

Parallel connector Rd 6–10 mm, M6 x 20

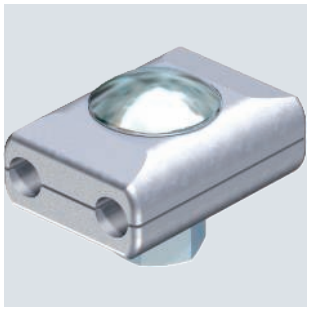


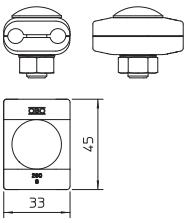


Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
260 8-10 MS	Rd 6-10	N/50	50	15.820	**5315654**

- With 2 hexagonal bolts M6 x 20 made of stainless steel (V2A)

Parallel connector Rd 8 mm, M10 x 30



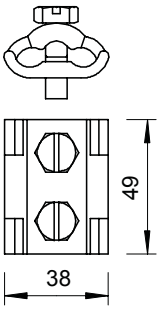


Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
260 8	Rd 8	H/100	50	13.930	**5315700**

- With flat, round bolt M10 x 30 and hexagonal nut, hot-dip galvanised steel

Parallel connector Rd 8–10 mm, M8 x 25

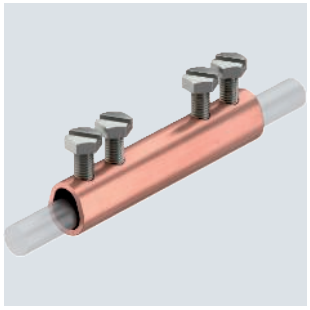


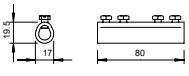


Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
259 8-10	Rd 8-10	N/50	25	13.230	**5315506**

- With 2 hex-head bolts M8 x 25, hot-dip galvanised steel

Straight connector Rd 6–10 mm





Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
237 N CU	Rd 6-10	H/100	10	8.760	**5328284**

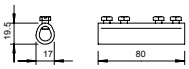
- With 4 hexagonal bolts M6 x 12
- Complies with the requirements of VDE 0185-305-3 (IEC/EN 62305-3)

St F

Straight connector Rd 8–10 mm

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
237 N FT	Rd 8-10	H/100		20	8.560	**5328209**

- With 4 hexagonal bolts M6 x 10
- Complies with the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)



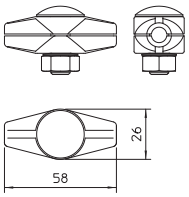


Zn G

Straight connector Rd 8 mm

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
239	Rd 8	N/50		20	12.510	**5329078**

- With truss-head bolt M10 x 30 and hexagonal nut M10
- Complies with the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)



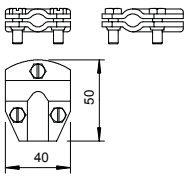


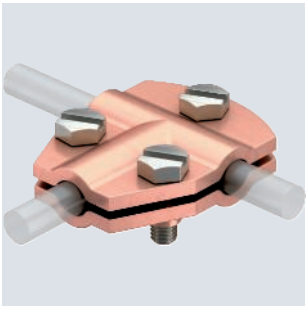
Cu

T connector Rd 8-10 mm, triple-screwed

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
247 8-10 CU	Rd 8-10	N/50		10	10.750	**5311268**

- With 3 hexagonal bolts M6 x 16 (VA)
- Complies with the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)



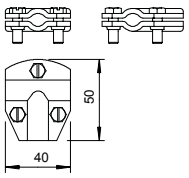


St FT

T connector Rd 8-10 mm, triple-screwed

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
247 8-10 FT	Rd 8-10	N/50		10	10.934	**5311209**

- With 3 hexagonal bolts M6 x 16 (VA)



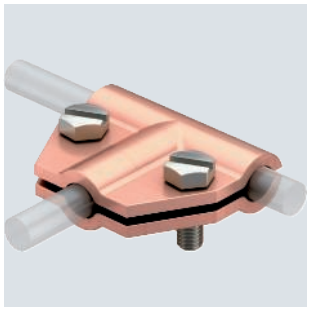


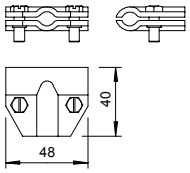
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T connector

T connector Rd 8–10 mm

Cu





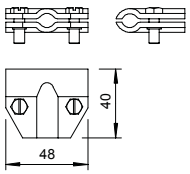
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
245 8-10 CU	Rd 8-10	N/50	10	11.560	**5311152**

- With 2 hexagonal bolts M6 x 16 (VA)
- Complies with the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)

T connector Rd 8–10 mm

St FT



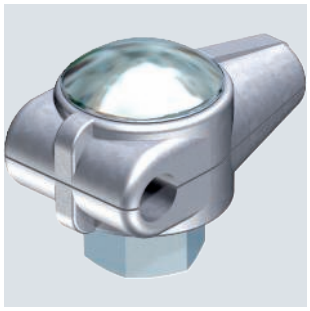


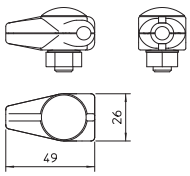
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
245 8-10 FT	Rd 8-10	N/50	10	9.401	**5311101**

- With 2 hexagonal bolts M6 x 16 (VA)
- Complies with the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)

T connector Rd 8 mm

Zn G





Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
244	Rd 8	N/50	10	11.580	**5311039**

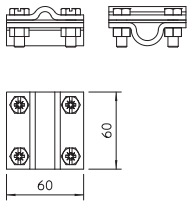
- With truss-head bolt M10 x 30 and hexagonal nut M10
- Complies with the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)

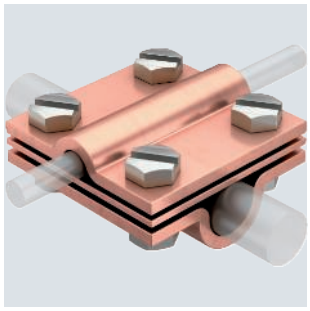
Cu

Cross-connector with intermediate plate for Rd 8–10 x Rd 16

Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
252 8-10X16 CU	Rd 8-10 x 16	H/100	10	43.985	**5312442**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8–10 x Rd 16 / FL 30
- With adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8 made of rust-proof stainless steel (A2)



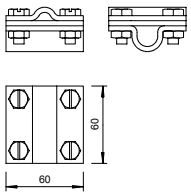


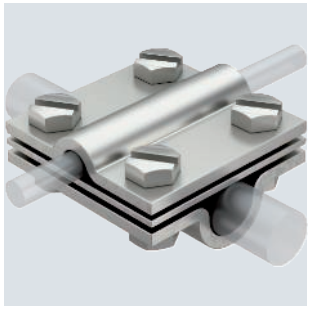
VA

Cross-connector with intermediate plate for Rd 8–10 x Rd 16

Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
252 8-10x16 V4A	Rd 8-10 x 16	H/100	10	39.000	**5312346**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 16 / FL 30
- With adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8



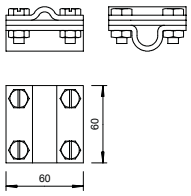


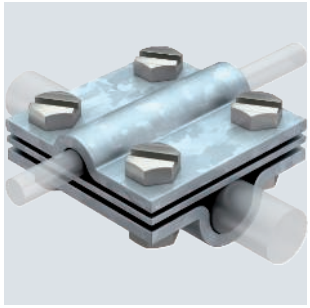
St FT

Cross-connector with intermediate plate for Rd 8–10 x Rd 16

Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
252 8-10X16 FT	Rd 8-10 x 16	H/100	25	38.800	**5312345**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 16 / FL 30
- With adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8



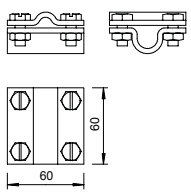


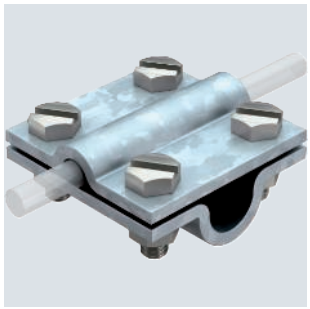
St FT

Cross-connector for Rd 8–10 x Rd 16

Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
253 10X16	Rd 8-10 x 16	H/100	25	29.800	**5312809**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 16 / FL 30
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8 (F)



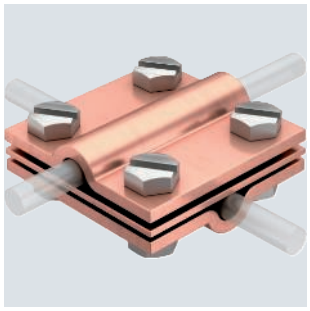


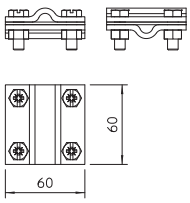
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Cross-connectors

Cross-connector with intermediate plate for Rd 8–10 mm

Cu



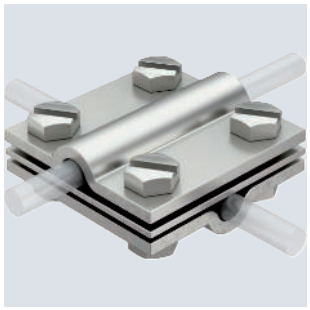


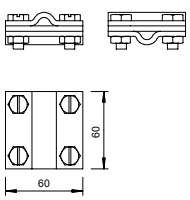
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
252 8-10 CU	Rd 8-10	H/100	10	38.940	**5312418**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8–10 x Rd 8–10 / FL 30
- With adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8 made of rust-proof stainless steel (A2)

Cross-connector with intermediate plate for Rd 8–10 mm

VA



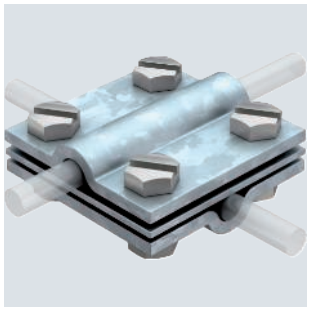


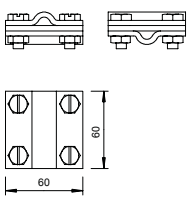
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
252 8-10 V4A	Rd 8-10	H/100	10	33.530	**5312318**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 8-10 / FL 30
- With adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8

Cross-connector with intermediate plate for Rd 8–10 mm

St FT



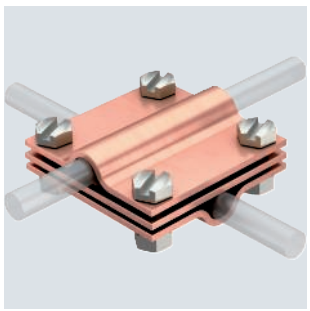


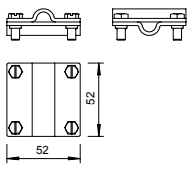
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
252 8-10 FT	Rd 8-10	H/100	25	33.530	**5312310**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 8-10 / FL 30
- With adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8 (F)

Cross-connector with intermediate plate for Rd 8–10 mm

Cu





Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
254 DIN 8-10 CU	Rd 8-10	H/100	10	17.410	**5314135**

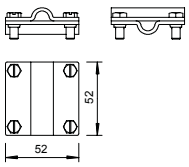
- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 8-10
- With adapter plate
- Mounted with 4 hexagonal bolts M6 x 20 and 4 hexagonal nuts M6 (F) made of rustproof steel (VA)

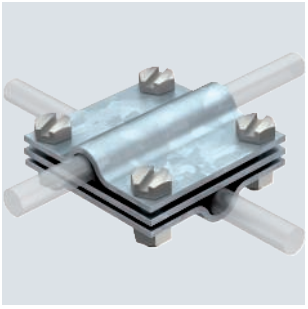
St FT

Cross-connector with intermediate plate for Rd 8–10 mm

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
254 DIN 8-10 FT	Rd 8-10	H/100		25	16.660	**5314038**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- For round conductors, fit: Rd 8-10 x Rd 8-10
- With adapter plate
- Mounted with 4 hexagonal bolts M6 x 20 and 4 hexagonal nuts M6



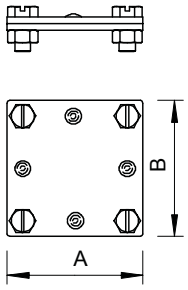


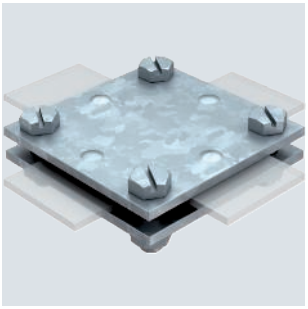
St FT

Cross-connector flat/flat without adapter plate FT

Type	Fit mm	Dim. A mm	Dim. B mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
256 S6 FT	max. FL30	60	60	H/100		3600	24.100	**5314572**

- Meets the requirements of VDE 0185-305-3 (IEC/EN 62305-3)
- Fit: Max. FL 30 x FL 30 or max. FL 40 x FL 40
- Without adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8 (F)



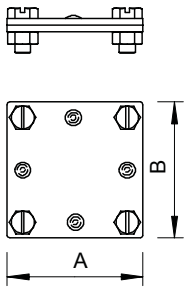


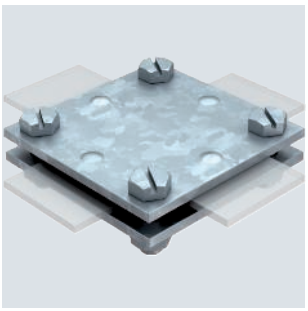
St FT

Cross-connector flat/flat without adapter plate FT

Type	Fit mm	Dim. A mm	Dim. B mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
256 S6 FT	max. FL30	60	60	H/100		3600	24.100	**5314572**

- Meets the requirements of VDE 0185-305-3 (IEC/EN 62305-3)
- Fit: Max. FL 30 x FL 30 or max. FL 40 x FL 40
- Without adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8 (F)



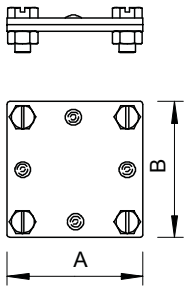


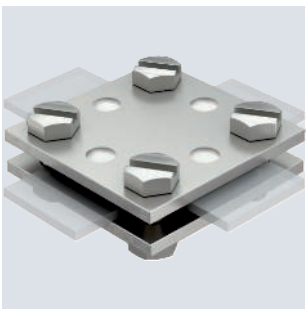
VA

Cross-connector flat/flat without adapter plate A4

Type	Fit mm	Dim. A mm	Dim. B mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
256 S6 V4A	max. FL30	60	60	H/100		3600	24.100	**5314574**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Max. FL 30 x FL 30
- Without adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8

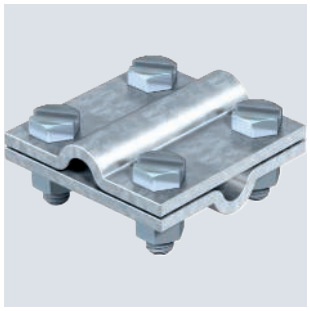


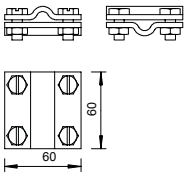


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Cross-connector Rd 8–10 mm

St FT



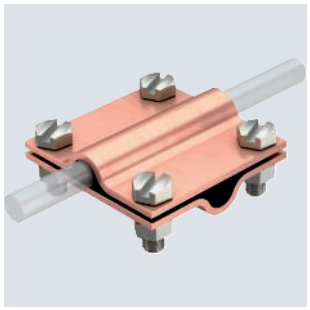


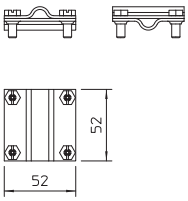
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
253 8X8	Rd 8-10	H/100	25	22.900	**5312604**

- Meets the requirements of VDE 0185-305-3 (IEC/EN 62305-3)
- Fit: Rd 8–10 x Rd 8–10/FL 30
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8 (F)

Cross-connector Rd 8–10 mm

Cu



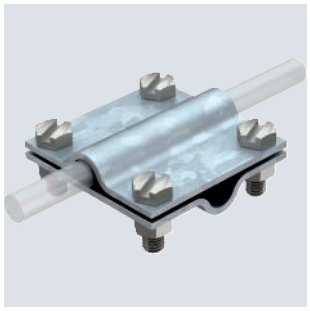


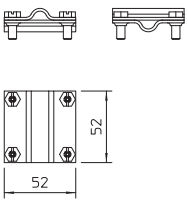
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
251 CU	Rd 8-10	H/100	10	12.400	**5312132**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 8-10
- With 4 hexagonal bolts M6 x 16, made of rust-proof steel (VA)

Cross-connector Rd 8–10 mm

St FT



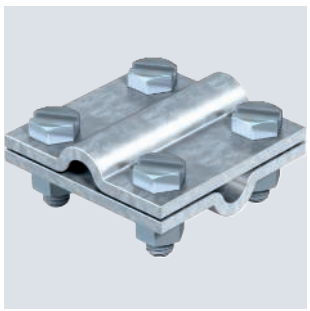


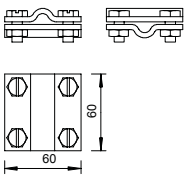
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
251 8-10	Rd 8-10	H/100	25	11.690	**5312035**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- For round conductors, fit: Rd 8-10 x Rd 8-10
- With 4 hexagonal bolts M6 x 16 (VA)

Cross-connector Rd 8–10 mm

St FT





Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
253 S3 FT	Rd 8-10	H/100	3400	23.300	**5312592**

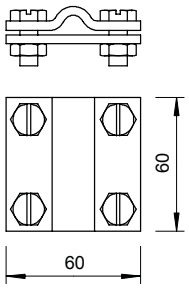
- Meets the requirements of VDE 0185-305-3 (IEC/EN 62305-3)
- Fit: Rd 8–10 x Rd 8–10/FL 30
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8 (F)

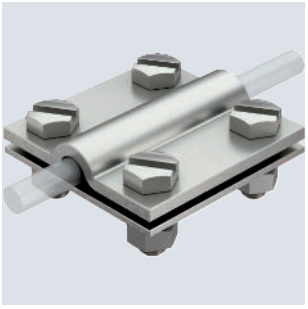
VA

Cross-connector for round conductors and flat conductors

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
252 8-10xFL30V4A	8-10 x FL30	H/100		10	28.500	**5312656**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x FL 30
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8



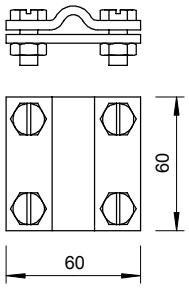


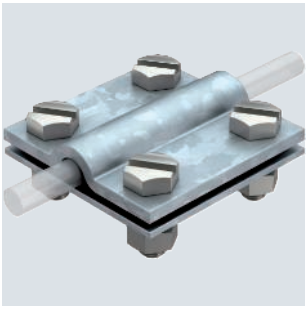
St FT

Cross-connector for round and flat conductors

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
252 8-10XFL30 FT	8-10 x FL30	H/100		25	28.500	**5312655**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x FL 30
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8



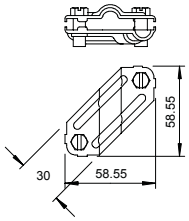


VA VA

Cross-connector for flat conductors and round conductors

Type	Fit mm	Lightning current carrying capacity kA	Short-circuit current (50 HZ) (1 s;≤300 °C) kA		Pack Piece	Weight kg/100 pc.	Item no.
250 VA	Rd 8-10/ FL30	H/100	1.4		25	10.260	**5312922**
250 V4A	Rd 8-10/ FL30	H/100	1.4		10	10.260	**5312925**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 8-10
- Fit: Rd 8-10 x FL 30
- Fit: FL 30 x FL 30
- Mounted with 2 hexagonal bolts M8 x 20



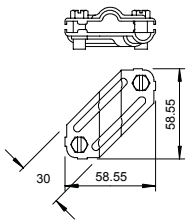


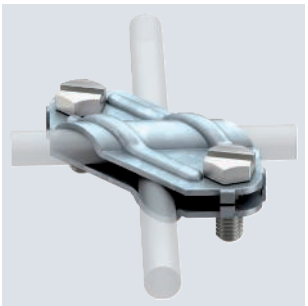
St FT

Cross-connector for flat conductors and round conductors

Type	Fit mm	Lightning current carrying capacity kA	Short-circuit current (50 HZ) (1 s;≤300 °C) kA		Pack Piece	Weight kg/100 pc.	Item no.
250	Rd 8-10/ FL30	N/50	5.6		25	10.260	**5312906**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 8-10
- Fit: Rd 8-10 x FL 30
- Fit: FL 30 x FL 30
- Mounted with 2 hexagonal bolts M8 x 20 (F)

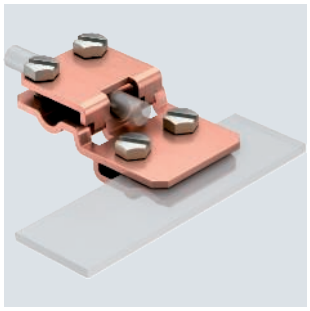


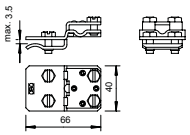


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Folding clamp and connection terminal up to 10 mm plate thickness

Cu



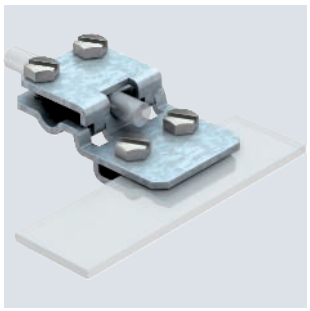


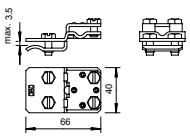
Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
274 CU	Rd 8-10	- 10	N/50	10	11.340	**5317479**

- Plate thickness to 10 mm
- For conductor routing transverse and longitudinal to plate
- 4 hexagonal bolts M6 x 16
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

Folding clamp and connection terminal up to 10 mm plate thickness

St FT





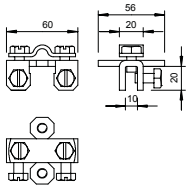
Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
274 8-10	Rd 8-10	- 10	N/50	20	10.400	**5317428**

- Plate thickness to 10 mm
- For conductor routing transverse and longitudinal to plate
- 4 hexagonal bolts M6 x 16
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

Folding clamp up to 10 mm plate thickness

St FT





Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
273 8-10	Rd 8-10	- 10	N/50	50	17.200	**5317223**

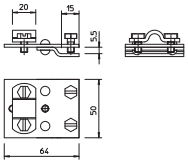
- Plate thickness to 10 mm
- Conductor routing transverse and longitudinal to plate with 2 hexagonal bolts M8 x 10 and 2 hexagonal bolts M8 x 16 (F)

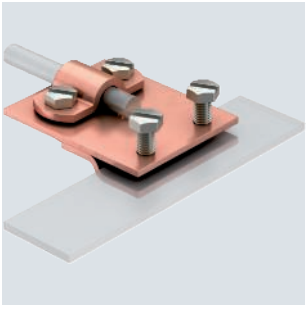
Cu

Folding clamp up to 5 mm plate thickness

Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
271 CU	Rd 8-10	-5	N/50		10	15.230	**5317452**

- Plate thickness to 5 mm
- For conductor routing transverse and longitudinal to plate
- With 4 hexagonal bolts M6 x 12
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)
- 271 Cu: with hexagonal bolts stainless steel (VA)



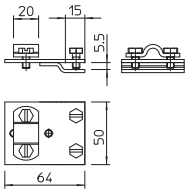


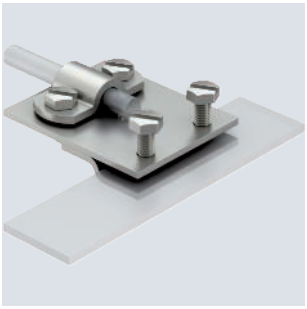
VA

Folding clamp up to 5 mm plate thickness

Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
271 8-10 VA	Rd 8-10	-5	N/50		10	15.000	**5317481**

- Plate thickness to 5 mm
- For conductor routing transverse and longitudinal to plate
- With 4 hexagonal bolts M6 x 12
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)
- 271 Cu: with hexagonal bolts stainless steel (VA)



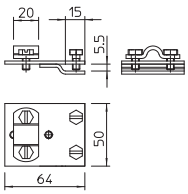


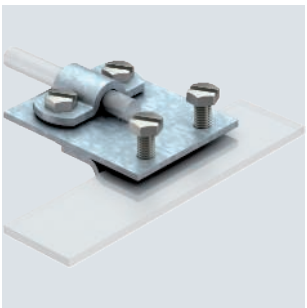
St FT

Folding clamp up to 5 mm plate thickness

Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
271 8-10	Rd 8-10	-5	N/50		20	14.060	**5317401**

- Plate thickness to 5 mm
- For conductor routing transverse and longitudinal to plate
- With 4 hexagonal bolts M6 x 12
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)
- 271 Cu: with hexagonal bolts stainless steel (VA)



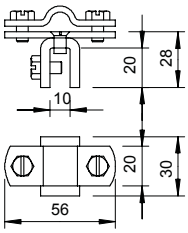


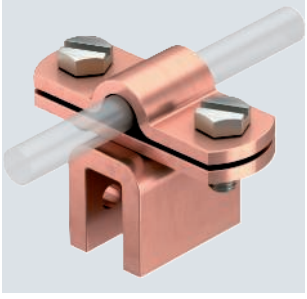
Cu

Folding clamp Rd 8-10 up to 10 mm plate thickness

Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
270 8-10 CU	Rd 8-10	-10	H/100		10	14.740	**5317258**

- Metal thickness to 10 mm
- For conductor routing transverse and in parallel to the plate
- Corresponds to the requirements to DIN V VDE V 0185-3 section 4.5



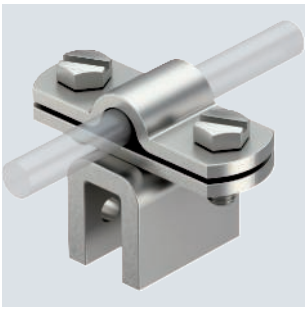


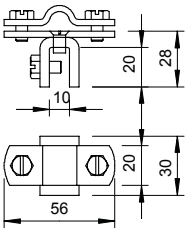
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Saddle terminals

Folding clamp Rd 8-10 up to 10 mm plate thickness

VA





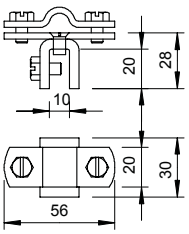
Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
270 8-10 VA	Rd 8-10	- 10	N/50	10	13.800	**5317208**

- Metal thickness to 10 mm
- For conductor routing transverse and in parallel to the plate
- Corresponds to the requirements to DIN V VDE V 0185-3 section 4.5

Folding clamp Rd 8-10 up to 10 mm plate thickness

St FT



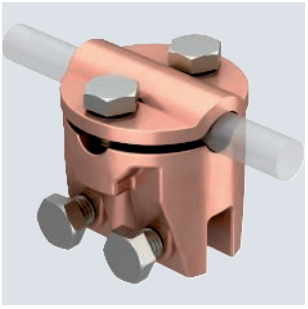


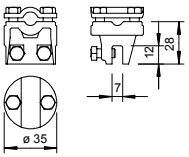
Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
270 8-10 FT	Rd 8-10	- 10	N/50	20	13.810	**5317207**

- Metal thickness to 10 mm
- For conductor routing transverse and in parallel to the plate
- Corresponds to the requirements to DIN V VDE V 0185-3 section 4.5

Folding clamp up to 7 mm plate thickness

Zn Cu





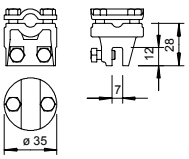
Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
269 MS	Rd 8-10	- 7	H/100	10	14.480	**5317053**

- Plate thickness to 7 mm
- For conductor arrangement transverse and parallel to plate with 4 hexagonal bolts M6 x 16
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

Folding clamp up to 7 mm plate thickness

Zn G





Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
269 8-10	Rd 8-10	- 7	N/50	20	14.460	**5317010**

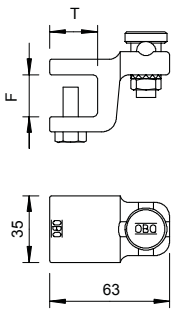
- Plate thickness to 7 mm
- For conductor arrangement transverse and parallel to plate with 4 hexagonal bolts M6 x 16
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

TG FT

Folding and construction clamp, 10–20 mm

Type	Fit mm	Clamping range mm	Dim. T mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
5004 DIN-FT 12	Rd 8-10	- 12	20	N/50	10	18.730	**5304407**
5004 DIN-FT 20	Rd 8-10	10 - 20	25	N/50	10	30.600	**5304504**

- Flange thickness to 12 or 10–20 mm
- With pre-mounted Fix contakt clamping screw 5000
- 2 hexagonal bolts M8 x 20, bolts made of hot galvanised steel
- Terminal block made of malleable iron, hot galvanised
- Mounting of the round conductors either vertical or transverse to structure
- Corresponds to the requirements of DIN VDE 0185-305-3



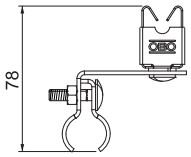


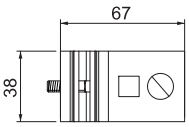
VA

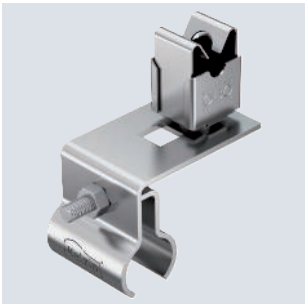
Folding and construction clamp

Type	Fit mm	Clamping range mm	Pack Piece	Weight kg/100 pc.	Item no.
RSF 177 20 VA M8	8	8	50	13.400	**5317512**

- For round standing seam systems, loose cable routing
- Manufacturer release by Kalzip
- Tested according to VDE 0185-561-4 (IEC/EN 62561-4)





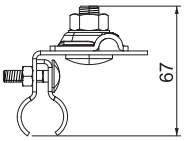


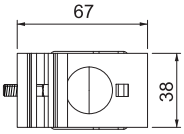
VA

Folding and construction clamp

Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
RSF 249 8-10 VA	Rd 8-10	- 10	N/50	50	14.200	**5317502**

- For round standing seam systems, fixed cable routing
- Manufacturer release by Kalzip
- Tested according to VDE 0185-561-1 (IEC/EN 62561-1)







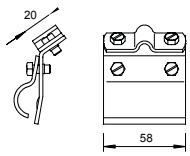
Roof gutter clamps

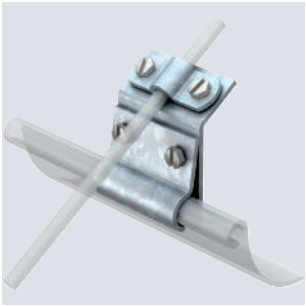
St FT

Gutter clamp for bead thickness 15–22 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
262 A-DIN FT	Rd 8-10	25	19.610	**5316219**

- Suitable for bulge thickness 15–22 mm
- With 4 hexagonal bolts M6 x 16 (VA)



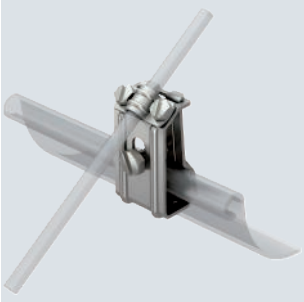


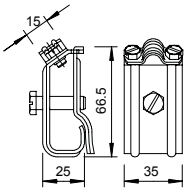
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Roof gutter clamps

Gutter clamp for all bead thicknesses

VA





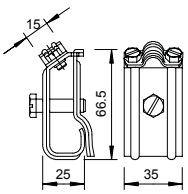
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
267 VA	Rd 8-10	10	11.360	**5316324**

- Fits all bead thicknesses
- With 1 hexagonal bolt M8 x 30
- 2 hexagonal bolts M6 x 12
- VA version also for use as bimetal conductor (holder)

Gutter clamp for all bead thicknesses

St FT



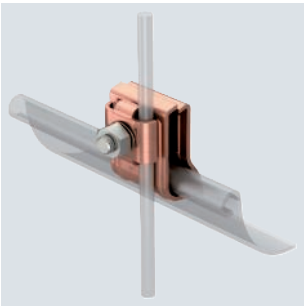


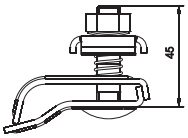
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
267	Rd 8-10	25	13.950	**5316308**

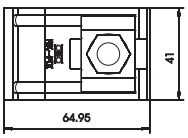
- Fits all bead thicknesses
- With 1 hexagonal bolt M8 x 30
- 2 hexagonal bolts M6 x 12

Gutter clamp RK-FIX

VA Cu





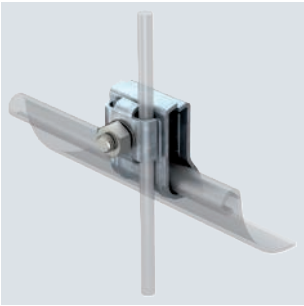


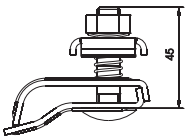
Type	Fit mm	Lightning current carrying capacity kA	Material	Pack Piece	Weight kg/100 pc.	Item no.
RK-FIX CU	2 x Rd 8/ 2 x Rd 6	H/100	A2	10	21.000	**5316468**

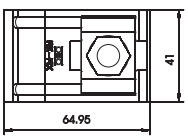
- For up to 2 conductors Rd 6 or Rd 8
- Suitable for all bead thicknesses (15–25 mm)
- With 1 truss-head bolt M10 x 45
- Nut and bolt made of VA stainless steel
- With spring for prefixing on rain gutter
- Tested to VDE 0185-561-1 (IEC/EN 62561-1)

Gutter clamp RK-FIX

St FT







Type	Fit mm	Lightning current carrying capacity kA	Material	Pack Piece	Weight kg/100 pc.	Item no.
RK-FIX	2 x Rd 8	H/100	St	25	19.100	**5316450**

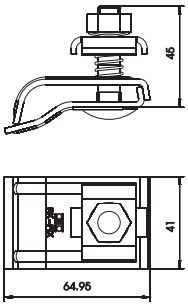
- For up to 2 round conductors Rd 8
- Suitable for all bead thicknesses (15–25 mm)
- With 1 truss-head bolt M10 x 45
- Nut and bolt made of VA stainless steel
- With spring for prefixing on rain gutter
- Tested to VDE 0185-561-1 (IEC/EN 62561-1)

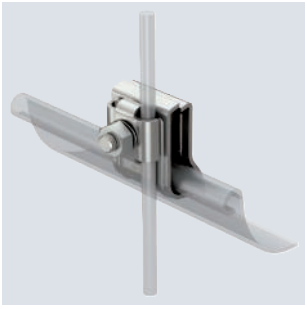
VA

Gutter clamp RK-FIX

Type	Fit mm	Lightning current carrying capacity kA	Material		Pack Piece	Weight kg/100 pc.	Item no.
RK-FIX VA	2 x Rd 8/ 2 x Rd 6	H/100	A2		10	19.100	**5316459**

- For up to 2 round conductors Rd 6 or Rd 8
- Suitable for all bead thicknesses (15–25 mm)
- With 1 truss-head bolt M10 x 45
- Nut and bolt made of VA stainless steel
- With spring for prefixing on rain gutter
- Tested to VDE 0185-561-1 (IEC/EN 62561-1)



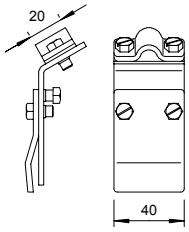


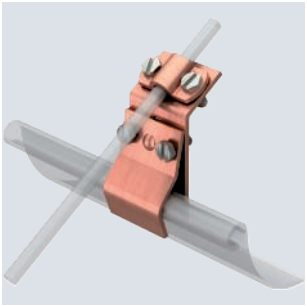
Cu

Roof gutter clamp for all bead thicknesses

Type	Fit mm		Pack Piece	Weight kg/100 pc.	Item no.
262 CU	Rd 8-10		10	20.940	**5316154**

- With 4 hexagonal bolts M6 x 16
- Fits all bead thicknesses



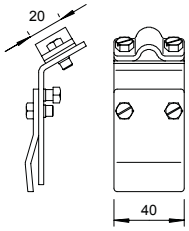


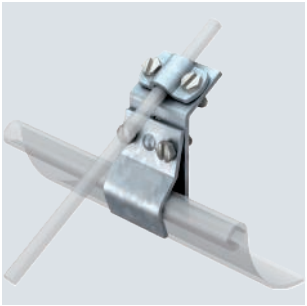
St FT

Roof gutter clamp for all bead thicknesses

Type	Fit mm		Pack Piece	Weight kg/100 pc.	Item no.
262	Rd 8-10		25	20.300	**5316014**

- With 4 hexagonal bolts M6 x 16
- Fits all bead thicknesses



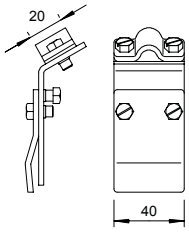


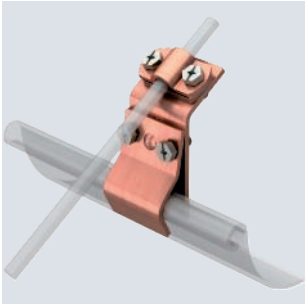
St FT

Bi-metal roof gutter clamp for all bead thicknesses

Type	Fit mm		Pack Piece	Weight kg/100 pc.	Item no.
262 ZM	Rd 8-10		10	23.100	**5316170**

- Fits all bead thicknesses
- Bi-metal for attaching round conductors aluminium or steel to roof gutters without corrosion to different metals



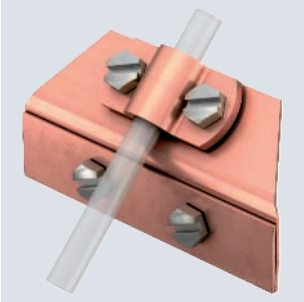


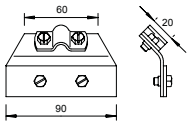
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Snow catching grate clamps

Snow catching grate clamp

Cu



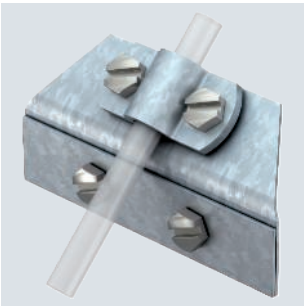


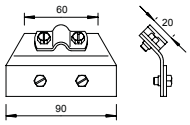
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
264 CU	Rd 8-10	10	21.140	**5316553**

- Plate thickness to 8 mm
- With 4 hexagonal bolts M6 x 16

Snow catching grate clamp

St F





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
264	Rd 8-10	25	18.640	**5316510**

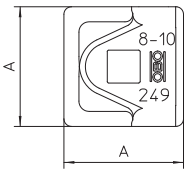
- Plate thickness to 8 mm
- With 4 hexagonal bolts M6 x 16

Connection terminals

Quick connector, upper part Rd 8–10 mm

Cu



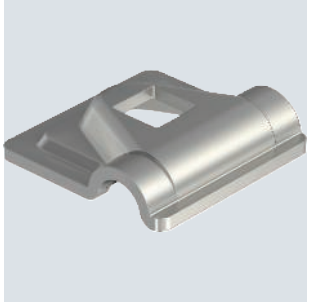


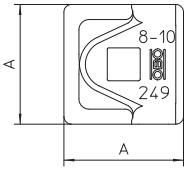
Type	Fit mm	Dim. A mm	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 CU-OT	Rd 8-10	40	100	3.580	**5311530**

- For round conductor fastening Rd 8-10
- Suitable for M10 bolts

Quick connector, upper part Rd 8–10 mm

VA





Type	Fit mm	Dim. A mm	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 VA-OT	Rd 8-10	40	100	3.130	**5311554**

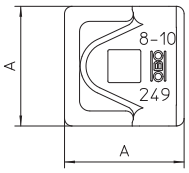
- For round conductor Rd 8-10
- Suitable for M10 bolts

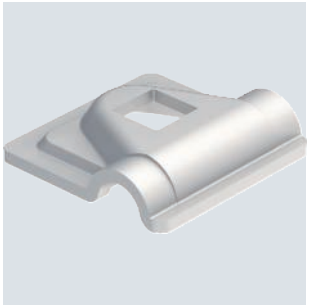
Alu

Quick connector, upper part Rd 8–10 mm

Type	Fit mm	Dim. A mm	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 ALU-OT	Rd 8-10	44	100	2.100	**5311585**

- For round conductor fastening Rd 8-10
- Suitable for M10 bolts



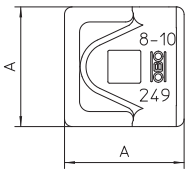


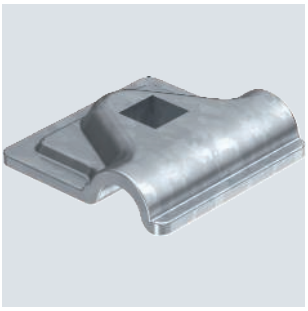
St FT

Quick connector, upper part Rd 8–10 mm

Type	Fit mm	Dim. A mm	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 ST-OT	Rd 8-10	40	100	3.240	**5311503**

- For round conductor fastening RD 8-10
- Suitable for M10 bolts



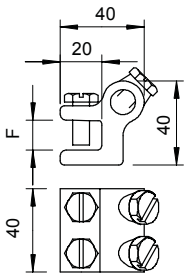


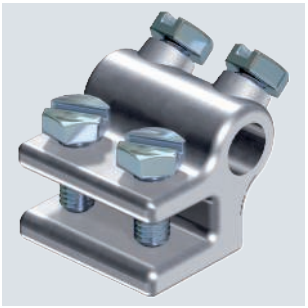
TG FT

Connection terminal to 14 mm

Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
272 8	Rd 8-10	-8	N/50	20	22.800	**5318084**
272 14	Rd 8-10	-14	N/50	20	25.230	**5318149**

- Flange thickness to 8 and/or 14 mm
- With 4 hexagonal bolts M8
- Conforms to the requirements according to DIN V VDE V 0185-3, Section 4.5



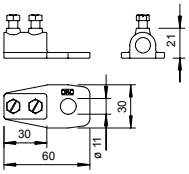


Zn G

End piece

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
280 8-10	Rd 8-10	20	6.300	**5320011**

- With Ø 11 mm attaching hole
- 2 hexagonal bolts M6 x 12, bolts hot-dip galvanised steel or VA
- Clamping element from die-cast zinc or copper-plated die-cast zinc





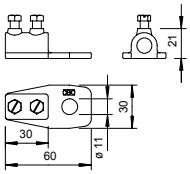
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End pieces

End piece

Zn





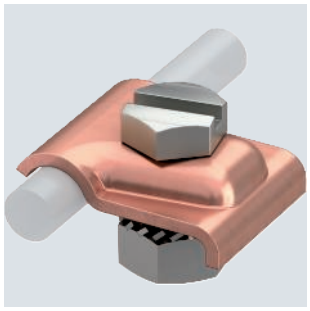
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
280 VK	Rd 8-10	20	9.000	**5320054**

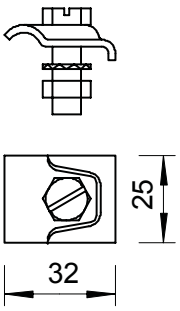
- With Ø 11 mm attaching hole
- 2 hexagonal bolts M6 x 12, bolts hot-dip galvanised steel or VA
- Clamping element from die-cast zinc or copper-plated die-cast zinc

Universal terminal blocks

Universal clamping block Rd 8–10 mm

Cu



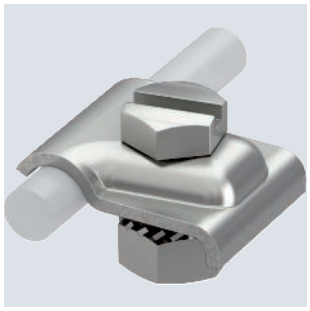


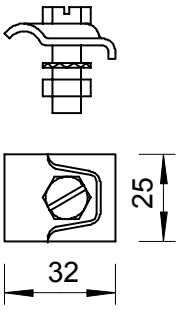
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
324 S-CU	Rd 8-10	10	3.660	**5326338**

- Including hexagonal bolt M8 x 25, washer and nuts

Universal clamping block Rd 8–10 mm

VA



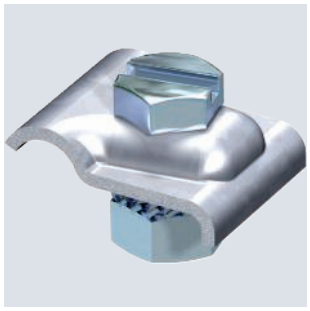


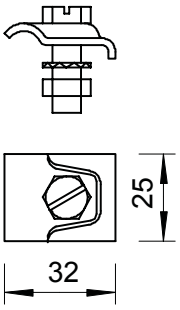
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
324 S-VA	Rd 8-10	10	3.400	**5326311**

- Including hexagonal bolt M8 x 25, washer and nuts

Universal clamping block Rd 8–10 mm

St FT





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
324 S-FT	Rd 8-10	20	3.400	**5326303**

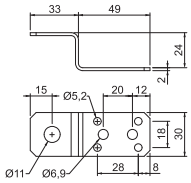
- Including hexagonal bolt M8 x 25, washer and nuts

Alu

Connection component

Type		Pack Piece	Weight kg/100 pc.	Item no.
287		20	1.600	5320704

- With 1 attaching hole Ø 11 mm
- 4 mounting holes Ø 5.2 mm
- 2 mounting holes Ø 6.9 mm



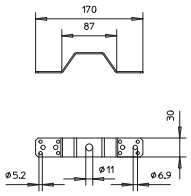


Alu

Connection and bridging component

Type		Pack Piece	Weight kg/100 pc.	Item no.
288 DIN		20	2.900	5320712

- With 1 attaching hole Ø 11 mm
- With 2 x 4 mounting holes Ø 5.2 mm
- With 2 x 2 mounting holes Ø 6.9 mm



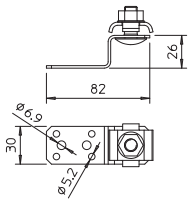


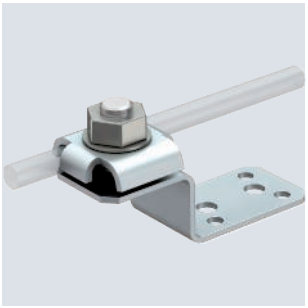
Alu

Connection component with double crossbar

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
287 DCT	8	N/50		10	6.450	5320707

- Quick mounting thanks to an M10 x 30 bolt made of rustproof stainless steel
- With spring washer
- 4 fastening holes Ø 5.2 mm
- 2 fastening holes Ø 6.9 mm
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)



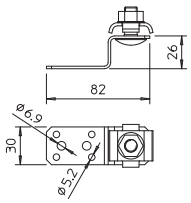


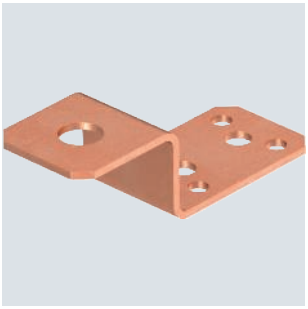
Cu

Connection component

Type		Pack Piece	Weight kg/100 pc.	Item no.
287 CU		10	5.600	5320690

- With 1 attaching hole Ø 11 mm
- 4 mounting holes Ø 5.2 mm
- 2 mounting holes Ø 6.9 mm





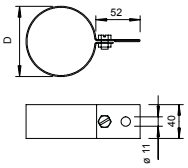
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Downspout clips

Downpipe clip

Cu



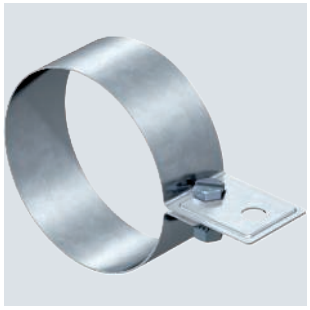


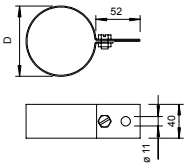
Type	For pipe mm	Pack Piece	Weight kg/100 pc.	Item no.
301 CU-80	80	10	22.500	**5350689**
301 CU-100	100	10	26.230	**5350700**

- With 1x hexagonal bolt M8 x 20
- With 1x hexagonal nut M8 and 1 serrated disc made of rustproof steel
- With connection hole Ø 11 mm

Downpipe clip

St FS





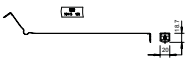
Type	For pipe mm	Pack Piece	Weight kg/100 pc.	Item no.
301 DIN-80	80	10	19.580	**5350085**
301 DIN-90	90	10	21.880	**5350093**
301 DIN-100	100	10	19.880	**5350107**
301 DIN-110	110	10	24.920	**5350115**
301 DIN-120	120	10	26.240	**5350123**

- To connect conductors and downpipes
- Similar to DIN 48818 C
- Strip galvanised (rd. 275 g/m² = 40 µm average value)
- With 1x hexagonal bolt M8 x 20
- With 1x hexagonal nut M8 and 1 stainless steel serrated washer
- With connection hole Ø 11 mm

Downpipe clip for routing Rd 8–10 mm behind pipe

St FS





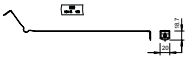
Type	For pipe mm	Pack Piece	Weight kg/100 pc.	Item no.
301 S-100	100	10	5.200	**5351057**
301 S-120	120	10	5.950	**5351073**

- With beading
- For round conductor Rd 8-10
- Including hexagonal bolt M6 x 20 and nuts M6

Downpipe clip for routing Rd 8–10 mm behind pipe

Alu





Type	For pipe mm	Pack Piece	Weight kg/100 pc.	Item no.
301 S-AL-100	100	10	4.100	**5351359**
301 S-AL-120	120	10	4.600	**5351375**

- With beading
- For round conductor Rd 8-10
- Including hexagonal bolt M6 x 20 and nuts M6

VA

Downpipe clip for routing Rd 8–10 mm behind pipe

Type	For pipe mm	Pack Piece	Weight kg/100 pc.	Item no.
301 S-VA-100	100	10	5.200	**5351251**
301 S-VA-120	120	10	5.950	**5351286**

- With beading
- For round conductor Rd 8-10
- Including hexagonal bolt M6 x 20 and nuts M6





Cu

Downpipe clip for routing Rd 8–10 mm behind pipe

Type	For pipe mm	Pack Piece	Weight kg/100 pc.	Item no.
301 S-CU-100	100	10	5.850	**5351456**
301 S-CU-120	120	10	6.700	**5351472**

- With beading
- For round conductor Rd 8-10
- Including hexagonal bolt M6 x 20 and nuts M6



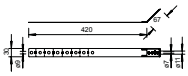


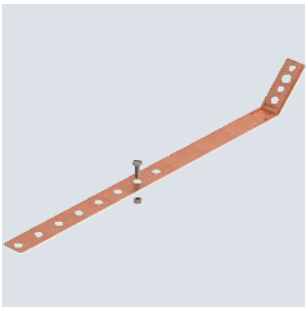
Cu

Universal downpipe clip 60–130 mm

Type	Pack Piece	Weight kg/100 pc.	Item no.
301 V-CU	5	13.500	**5350883**

- Adjustable for pipes from 60-130 mm
- With 2x attaching holes Ø 7 mm
- With 1x attaching hole Ø 9 mm
- With 1x attaching hole Ø 11 mm
- Including hexagonal bolt M6 x 20 and nuts M6



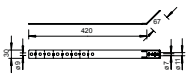


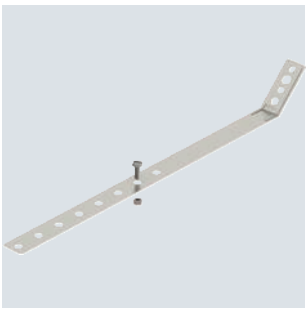
VA

Universal downpipe clip 60–130 mm

Type	Pack Piece	Weight kg/100 pc.	Item no.
301 V-VA	5	11.800	**5350905**

- Adjustable for pipes from 60-130 mm
- With 2x attaching holes Ø 7 mm
- With 1x attaching hole Ø 9 mm
- With 1x attaching hole Ø 11 mm
- Including hexagonal bolt M6 x 20 and nuts M6





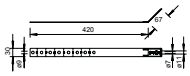
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Downspout clips

Universal downpipe clip 60–130 mm

St FS





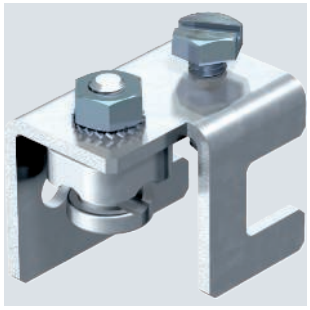
Type	Pack Piece	Weight kg/100 pc.	Item no.
301 V	5	11.900	5350867

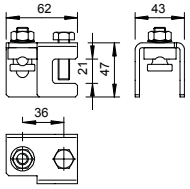
- Adjustable for pipes from 60-130 mm
- With 2x attaching holes Ø 7 mm
- With 1x attaching hole Ø 9 mm
- With 1x attaching hole Ø 11 mm
- Including hexagonal bolt M6 x 20 and nuts M6

Connection clamps and connection terminal accessories

Construction clamp to 20 mm

St FT



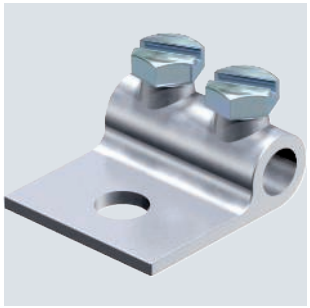


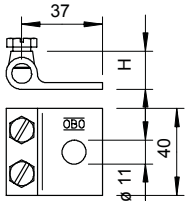
Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
5010 20 FT	Rd 8-10	4 - 20	N/50	10	30.600	5304520

- Mounting of the round conductor possible vertically or transverse to construction
- For fastening to constructions up to a flange thickness of 20 mm
- Fastening to constructions using a hexagonal bolt M10
- Meets the requirements of VDE 0185-305 (IEC 62305)

Clamping shoe

TG F





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
319 8	Rd 8	25	7.800	5325307
319 10	Rd 10	25	9.650	5325315

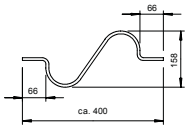
- With Ø 11 mm attaching hole
- 2 hexagonal bolts M8 x 16
- Bolts hot-dip galvanised steel and clamping element hot dipped galvanised cast steel

Alu

Expansion piece

Type		Pack Piece	Weight kg/100 pc.	Item no.
172 AR		10	7.500	**5218926**

- For equalising temperature-related length changes
- Necessary on conductor lengths over 20 m
- From round conductor Rd 8-Al



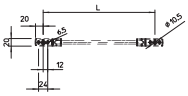


Cu

Bridging cable

Type	Dim. L mm		Pack Piece	Weight kg/100 pc.	Item no.
853 200	200		10	4.840	**5331008**
853 300	300		10	7.260	**5331013**
853 400	400		10	9.680	**5331017**

- With aluminium cable lugs
- From flexible copper cable 16 mm²
- Coating: Black, chlorinated EM5 natural rubber mixture
- With 1 fastening hole Ø 10.5 mm per attachment side
- With 2 fastening holes Ø 6.5 mm per attachment side
- Suitable for applications outside or inside
- Temperature range –25 °C to +80 °C (moved) and –40 °C to +80 °C (not moved)
- UV-stable



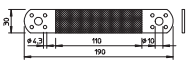


Cu

Connection and expansion strip

Type		Pack Piece	Weight kg/100 pc.	Item no.
856		10	8.125	**5331501**

- Copper strip 35 mm², tin-plated
- Highly flexible with rigid ends
- Each end with 1 fastening hole Ø 10 mm and 4 fastening holes Ø 4.3 mm



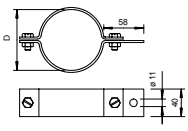


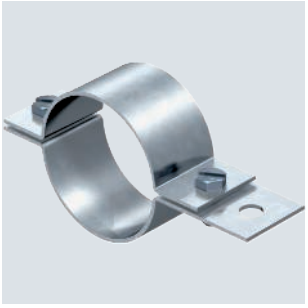
St FT

Pipe clamp

Type	For pipe mm	For pipe inch		Pack Piece	Weight kg/100 pc.	Item no.
303 DIN-3/8	17.2	3/8		5	22.600	**5102057**
303 DIN-1/2	21.3	1/2		5	23.280	**5102073**
303 DIN-3/4	26.9	3/4		5	25.640	**5102081**
303 DIN-1	33.7	1		5	28.300	**5102111**
303 DIN-1 1/4	42.4	11/4		5	31.300	**5102138**
303 DIN-1 1/2	48.3	11/2		5	33.220	**5102154**
303 DIN-2	60.3	2		5	36.840	**5102197**
303 DIN-2 1/2	76.1	21/2		10	39.400	**5102219**
303 DIN-3	88.9	3		10	43.300	**5102235**
303 DIN-3 1/2	100	31/2		10	64.900	**5102251**
303 DIN-4	114.3	4		10	66.800	**5102278**

- DIN 48818, Form D
- With Ø 11 mm mounting hole
- 2 hexagonal bolts M8 x 20 (4 inch = M10)
- 2 hex-head nuts M8 (4 inch = M10)



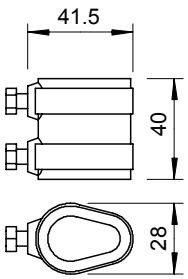


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Separating piece, open

Zn G



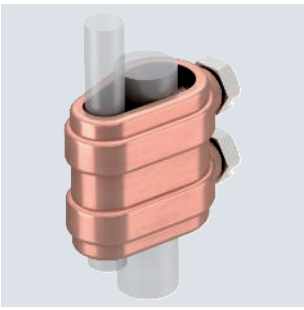


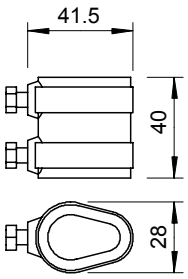
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
223 O DIN ZN	Rd 8-10/16	20	12.500	**5335140**

- With 2 hexagonal bolts, stainless steel (VA)
- Clamping element, die-cast zinc

Separating piece, open

Zn Cu



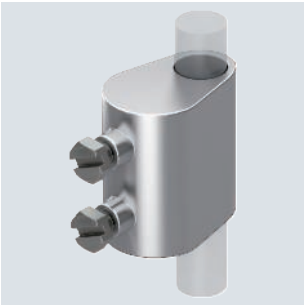


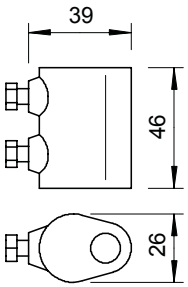
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
223 O DIN MS	Rd 8-10/16	20	14.900	**5335167**

- With 2 hexagonal bolts, stainless steel (VA)
- Clamping element, copper-plated die-cast zinc

Separating piece, closed

Zn G



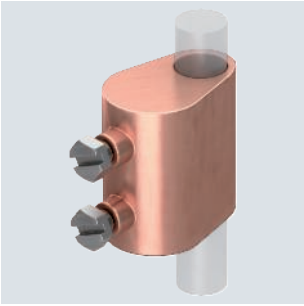


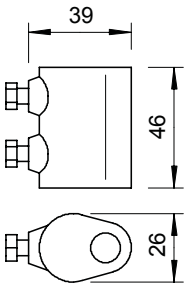
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
223 DIN ZN	Rd 8-10/16	20	12.406	**5335205**

- For fitting round conductors Rd 8-10 to ground insertion rods Rd 16
- Including 2 hexagonal bolts, high-grade stainless steel (V2A)
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

Separating piece, closed

Zn Cu





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
223 DIN MS	Rd 8-10/16	10	11.700	**5335256**

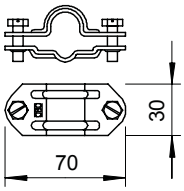
- For fitting round conductors Rd 8-10 to ground insertion rods Rd 16
- Including 2 hexagonal bolts, high-grade stainless steel (V2A)
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

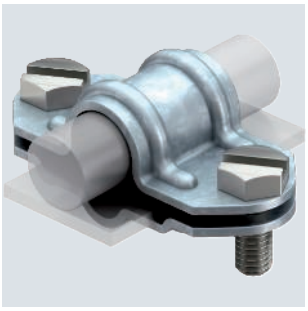
St FT

Universal separating piece

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
226 8-10	Rd 8-10/FL30 x 16	20	8.600	**5336007**

- For fitting round conductors Rd 8–10 to Rd 16 or flat conductors FL30
- Including 2 hexagonal bolts M8 x 20 high-grade stainless steel (V2A)
- Conforms to the requirements according to VDE 0185-305 (IEC 62305)



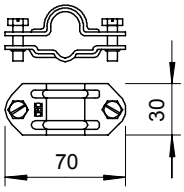


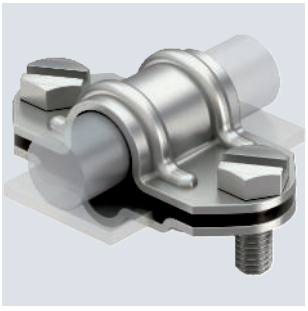
VA

Universal separating piece

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
226 VA	Rd 8-10/FL30 x 16	10	8.700	**5336058**

- For fitting round conductors Rd 8–10 to Rd 16 or flat conductors FL30
- Including 2 hexagonal bolts M8 x 20 high-grade stainless steel (V2A)
- Conforms to the requirements according to VDE 0185-305 (IEC 62305)



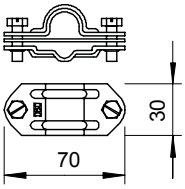


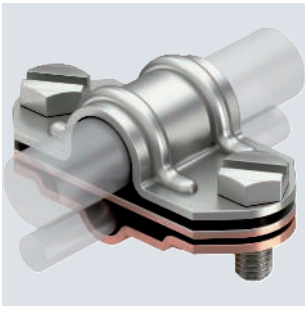
Cu

Universal bi-metal separating piece

Type	Fit mm	Material upper part	Material lower part	Pack Piece	Weight kg/100 pc.	Item no.
226 ZV VA	Rd 8-10/FL30 x 16	VA	Cu	10	11.000	**5336074**

- Fit: Rd 8-10 x 16, FL 30 x Rd 16
- With 2 hexagonal bolts M8 x 20, stainless steel (VA)
- Intermediate plate, aluminium/copper



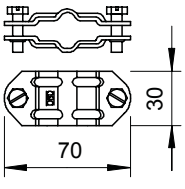


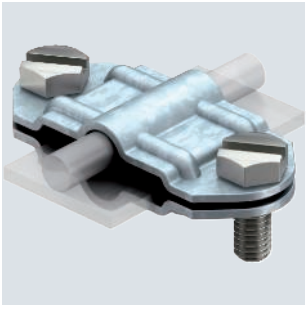
St FT

Separating piece for Rd 8–10 and FL 30 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
233 8	Rd 8-10/FL30 x Rd 8-10/FL30	20	8.200	**5336309**

- To fit round conductors Rd 8-10 or flat conductors FL 30
- With 2 hexagonal bolts M8 x 20 made of rustproof steel (VA)
- Short-circuit current Ik (50 Hz), time 0.6 s, temp. max. 300 °C: 8.5 kA

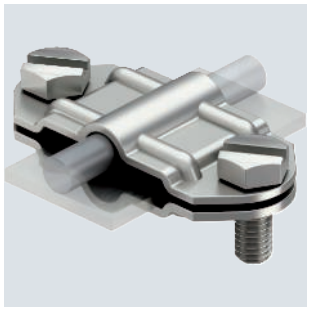


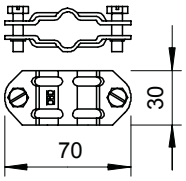


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Separating piece for Rd 8–10 and FL 30 mm

VA



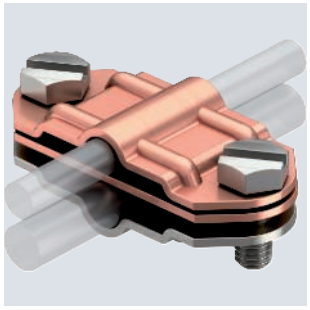


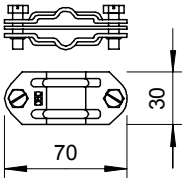
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
233 VA	Rd 8-10/FL30 x Rd 8-10/FL30	10	8.300	**5336341**

- For fitting round conductors Rd 8-10 or flat conductors FL 30
- With 2 hexagonal bolts M8 x 20, stainless steel (VA)

Bi-metal separating piece for Rd 8–10 and FL 30 mm

VA



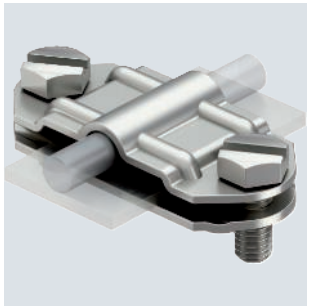


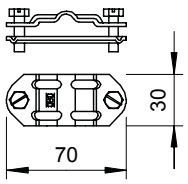
Type	Fit mm	Material upper part	Material lower part	Pack Piece	Weight kg/100 pc.	Item no.
233 ZV	Rd 8-10/FL30 x Rd 8-10/FL30	Cu	VA	10	10.100	**5336376**

- For fitting round conductors Rd 8-10 to flat conductors FL 30
- With 2 hexagonal bolts M8 x 20, stainless steel (VA)
- Intermediate plate aluminium/copper, top section copper, bottom section stainless steel

Separating piece for Rd 8–10 and FL 30–40 mm

VA



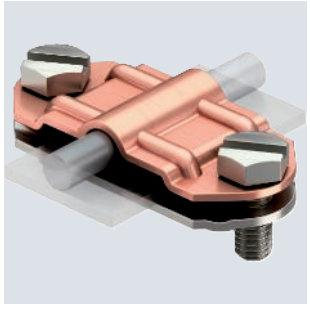


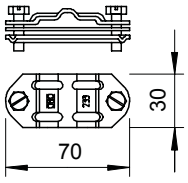
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
233 A VA	8-10xFL30-40	10	7.851	**5336457**

- Fit: Rd 8-10 x FL 30-40
- With 2 hexagonal bolts M8 x 20 (VA)

Bi-metal separating piece for Rd 8–10 and FL 30–40 mm

Cu





Type	Fit mm	Material upper part	Material lower part	Pack Piece	Weight kg/100 pc.	Item no.
233 A ZV	Rd 8-10 x FL30-40	Cu	VA	10	10.400	**5336503**

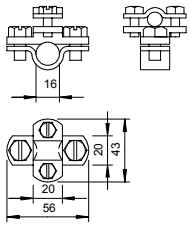
- Fit: Rd 8-10 x FL 30-40, FL 30 x FL 30-40
- With 2 hexagonal bolts M8 x 20, stainless steel (VA)
- Intermediate plate, aluminium/copper
- Top section copper, bottom section stainless steel

St FT

Rod clamp

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
108 B DIN	Rd 8-10/16	10	13.970	**5416566**

- Rod clamp for connecting round conductors Rd 8–10 to connector rods Rd 16
- Mounted with 2 hexagonal bolts M8 x 16 and M6 x 12
- Adapter from malleable iron
- Crossbar and bolts from hot dip galvanized steel



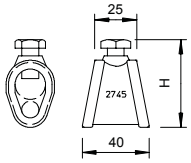


CuZn 37 Cu

Connection clamp for earth rod or cables

Type	For earth rods Ø mm	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
2745 20 MS	20	7-12,5/S95 mm²	5	16.000	**5001560**

- For earth rods Ø 20 or conductors of 95 mm²
- For round conductor attachments Rd 7–12.5 with hexagonal bolts M10 x 25



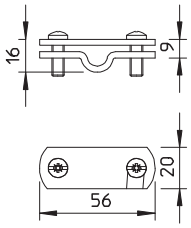


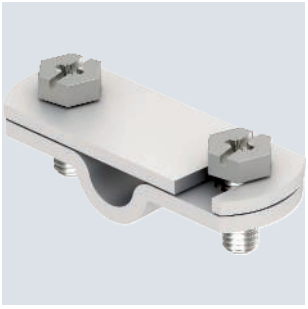
Alu

Number plates

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
311 N-ALU 8-10	RD 8-10/FL30	5	2.500	**3049256**
311 N-ALU 16	RD 16-FL30	5	2.800	**3049345**

- To identify the point of separation to DIN 48821
- Suitable for universal labelling (e.g. stamped numbers)



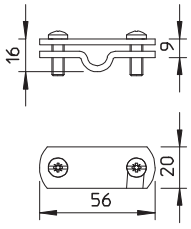


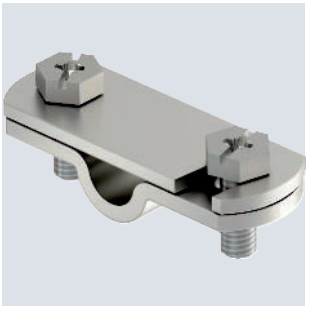
A2

Number plates

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
311 N-VA 8-10	RD 8-10/FL30	5	5.600	**3049221**
311 N-VA 16	RD 16-FL30	5	6.400	**3049329**

- To identify the point of separation to DIN 48821
- Suitable for universal labelling (e.g. stamped numbers)

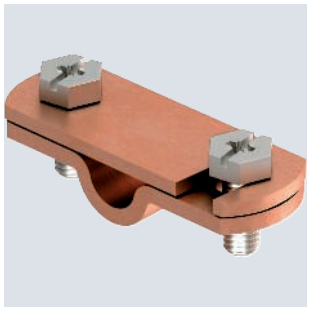


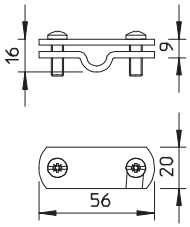


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Number plates

Cu



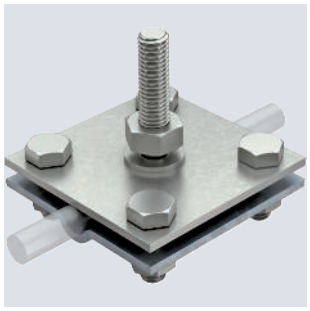


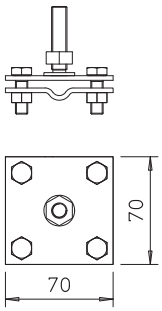
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
311 N-CU 8-10	RD 8-10 / FL30	5	6.400	**3049205**

- To identify the point of separation to DIN 48821
- Suitable for universal labelling (e.g. stamped numbers)

Cross-connector for flat conductors and round conductors with threaded bolt M10x45

VA





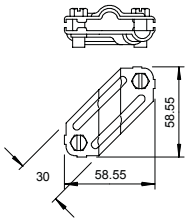
Type	Fit mm	Lightning current carrying capacity kA	Short-circuit current (50 HZ) (1 s;≤300 °C) kA	Pack Piece	Weight kg/100 pc.	Item no.
252 GB 10x45	8-10 x FL30	H/100	4.2	10	34.800	**5312657**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x FL 30
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8

Cross-connector for flat conductors and round conductors

VA VA



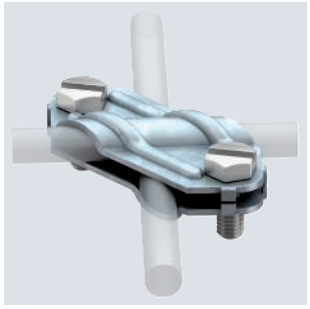


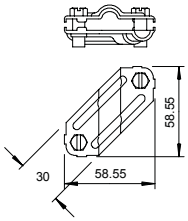
Type	Fit mm	Lightning current carrying capacity kA	Short-circuit current (50 HZ) (1 s;≤300 °C) kA	Pack Piece	Weight kg/100 pc.	Item no.
250 VA	Rd 8-10/ FL30	H/100	1.4	25	10.260	**5312922**
250 V4A	Rd 8-10/ FL30	H/100	1.4	10	10.260	**5312925**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 8-10
- Fit: Rd 8-10 x FL 30
- Fit: FL 30 x FL 30
- Mounted with 2 hexagonal bolts M8 x 20

Cross-connector for flat conductors and round conductors

St FT





Type	Fit mm	Lightning current carrying capacity kA	Short-circuit current (50 HZ) (1 s;≤300 °C) kA	Pack Piece	Weight kg/100 pc.	Item no.
250	Rd 8-10/ FL30	N/50	5.6	25	10.260	**5312906**

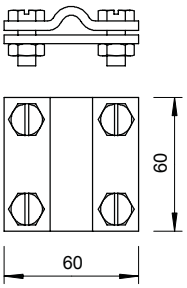
- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 8-10
- Fit: Rd 8-10 x FL 30
- Fit: FL 30 x FL 30
- Mounted with 2 hexagonal bolts M8 x 20 (F)

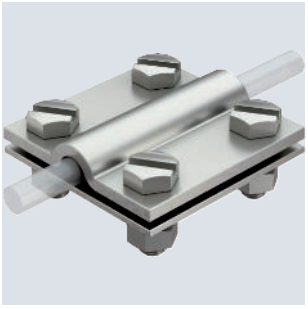
VA

Cross-connector for round conductors and flat conductors

Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
252 8-10xFL30V4A	8-10 x FL30	H/100	10	28.500	**5312656**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x FL 30
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8



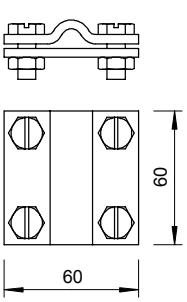


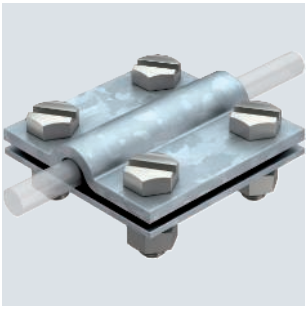
St FT

Cross-connector for round and flat conductors

Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
252 8-10XFL30 FT	8-10 x FL30	H/100	25	28.500	**5312655**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x FL 30
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8



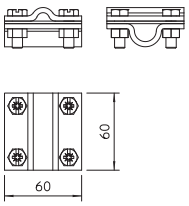


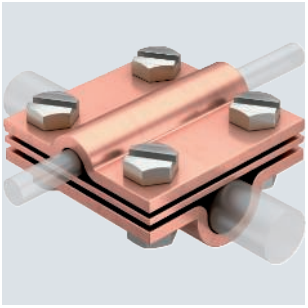
Cu

Cross-connector with intermediate plate for Rd 8–10 x Rd 16

Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
252 8-10X16 CU	Rd 8-10 x 16	H/100	10	43.985	**5312442**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8–10 x Rd 16 / FL 30
- With adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8 made of rust-proof stainless steel (A2)



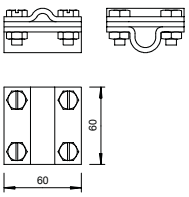


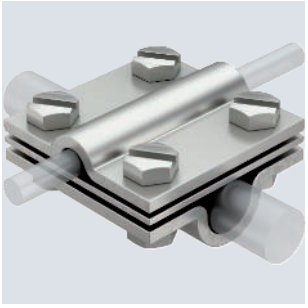
VA

Cross-connector with intermediate plate for Rd 8–10 x Rd 16

Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
252 8-10x16 V4A	Rd 8-10 x 16	H/100	10	39.000	**5312346**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 16 / FL 30
- With adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8

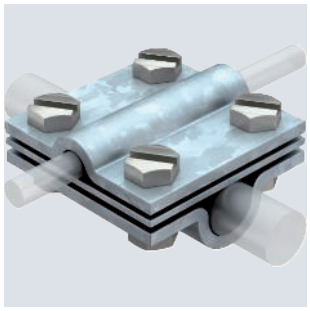


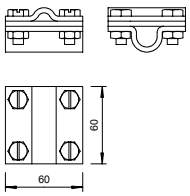


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Cross-connector with intermediate plate for Rd 8–10 x Rd 16

St FT



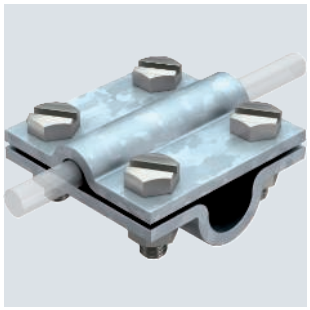


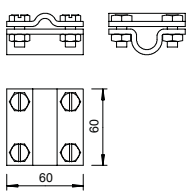
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
252 8-10X16 FT	Rd 8-10 x 16	H/100	25	38.800	**5312345**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 16 / FL 30
- With adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8

Cross-connector for Rd 8–10 x Rd 16

St FT



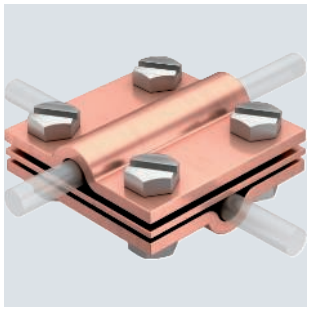


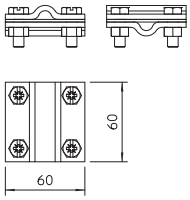
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
253 10X16	Rd 8-10 x 16	H/100	25	29.800	**5312809**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 16 / FL 30
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8 (F)

Cross-connector with intermediate plate for Rd 8–10 mm

Cu



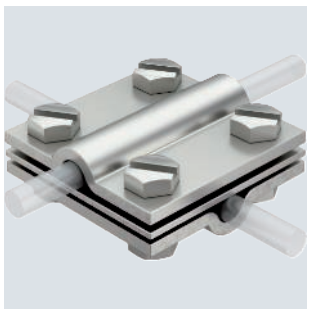


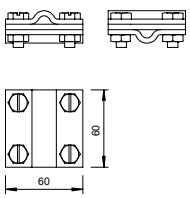
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
252 8-10 CU	Rd 8-10	H/100	10	38.940	**5312418**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8–10 x Rd 8–10 / FL 30
- With adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8 made of rust-proof stainless steel (A2)

Cross-connector with intermediate plate for Rd 8–10 mm

VA





Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
252 8-10 V4A	Rd 8-10	H/100	10	33.530	**5312318**

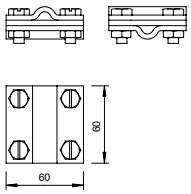
- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 8-10 / FL 30
- With adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8

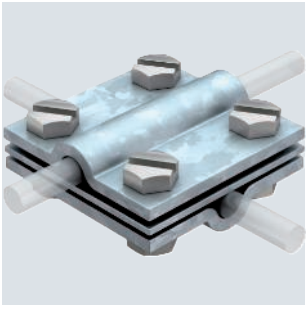
St FT

Cross-connector with intermediate plate for Rd 8–10 mm

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
252 8-10 FT	Rd 8-10	H/100		25	33.530	**5312310**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 8-10 / FL 30
- With adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8 (F)



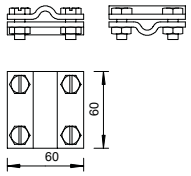


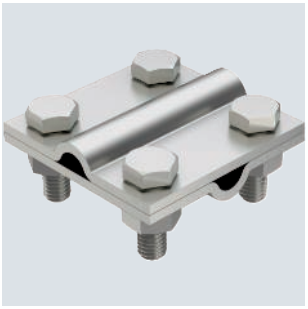
VA

Cross-connector round/round without intermediate plate

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
253 8-10 V4A	Rd 8-10	H/100		25	23.650	**5312582**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Fit: Rd 8-10 x Rd 8-10 / FL 30
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8 (F)



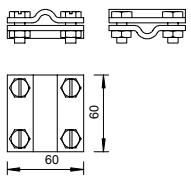


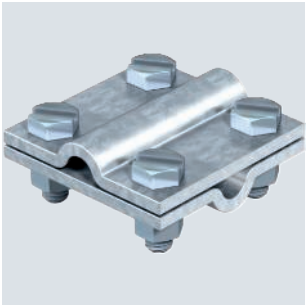
St FT

Cross-connector Rd 8–10 mm

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
253 8X8	Rd 8-10	H/100		25	22.900	**5312604**

- Meets the requirements of VDE 0185-305-3 (IEC/EN 62305-3)
- Fit: Rd 8–10 x Rd 8–10/FL 30
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8 (F)



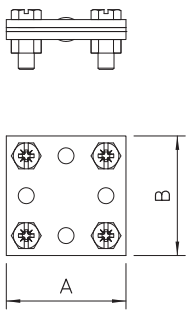


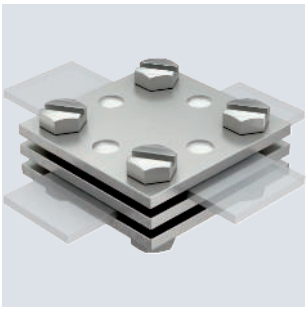
VA

DIN cross-connector for flat conductor, with intermediate plate

Type	Fit mm	Dim. A mm	Dim. B mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
256 DIN 30 V4A	max. FL30	60	60	H/100		10	29.100	**5314616**

- Meets the requirements of VDE 0185-305-3 (IEC/EN 62305-3)
- Fit: Max. FL 30 x FL 30
- With adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8

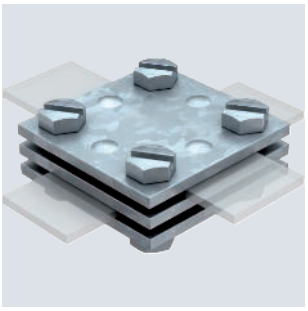


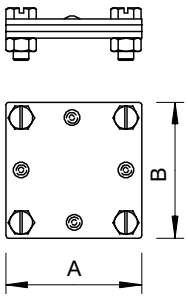


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DIN cross-connector for flat conductor, with intermediate plate

St FT



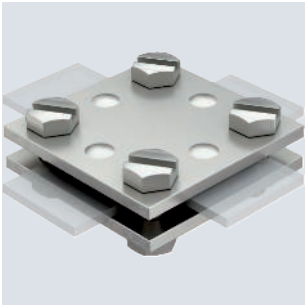


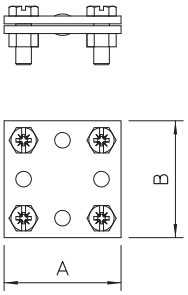
Type	Fit mm	Dim. A mm	Dim. B mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
256 DIN 30 FT	max. FL30	60	60	H/100	10	35.860	**5314615**
256 DIN 40 FT	max. FL40	80	80	H/100	10	54.650	**5314623**

- Meets the requirements of VDE 0185-305-3 (IEC/EN 62305-3)
- Fit: Max. FL 30 x FL 30 or max. FL 40 x FL 40
- With adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8

DIN cross-connector for flat conductor

VA VA



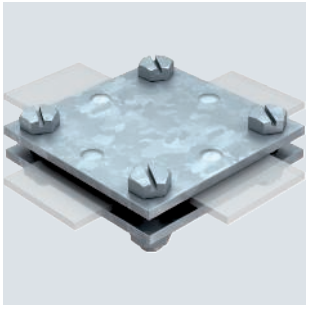


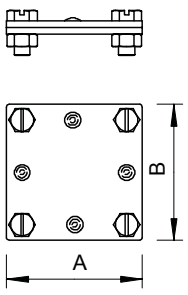
Type	Fit mm	Dim. A mm	Dim. B mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
256 A-DIN 30 VA	max. FL30	60	60	H/100	10	27.800	**5314720**
256 A-DIN 30 V4A	max. FL30	60	60	H/100	10	26.400	**5314659**

- Meets the requirements of VDE 0185-305-3 (IEC/EN 62305-3)
- Fit: Max. FL 30 x FL 30
- Without adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8

DIN cross-connector for flat conductor

St FT





Type	Fit mm	Dim. A mm	Dim. B mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
256 A-DIN 30 FT	max. FL30	60	60	H/100	10	22.550	**5314658**
256 A-DIN 40 FT	max. FL40	80	80	H/100	10	35.436	**5314666**

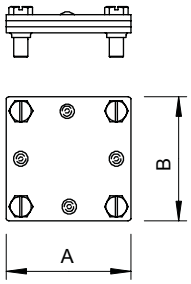
- Meets the requirements of VDE 0185-305-3 (IEC/EN 62305-3)
- Fit: Max. FL 30 x FL 30 or max. FL 40 x FL 40
- Without adapter plate
- Mounted with 4 hexagonal bolts M8 x 25 and 4 hexagonal nuts M8 (F)

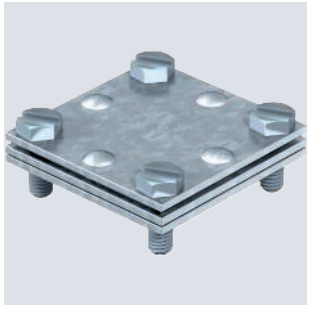
St FT

Cross-connector for flat conductor, with intermediate plate

Type	Fit mm	Dim. A mm	Dim. B mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
255 30	max. FL30	52	52	H/100	20	16.650	**5314518**

- Meets the requirements of VDE 0185-305-3 (IEC/EN 62305-3)
- Fit: Max FL 30 x FL 30
- With adapter plate
- Mounted with 4 hexagonal bolts M6 x 20 (F)



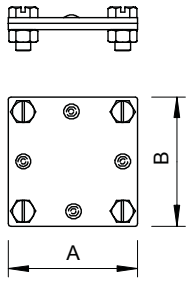


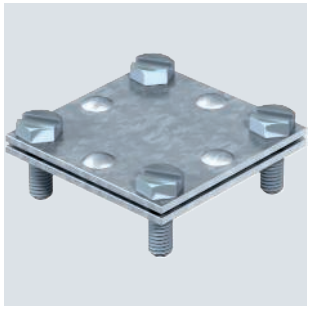
St FT

Cross-connector for flat conductor

Type	Fit mm	Dim. A mm	Dim. B mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
255 A-FL30 FT	max. FL30	52	52	H/100	20	11.500	**5314534**

- Meets the requirements of VDE 0185-305-3 (IEC/EN 62305-3)
- Fit: Max FL 30 x FL 30
- Without adapter plate
- Mounted with 4 hexagonal bolts M6 x 20 (F)



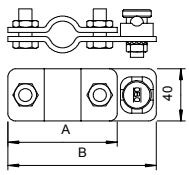


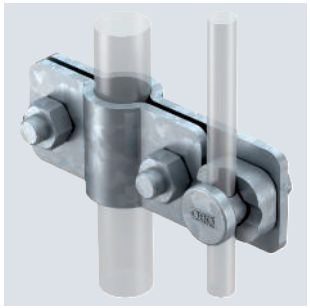
St FT

Connection clamp for earth rod to round conductors Rd 8–10

Type	For earth rods Ø mm	Dim. A mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
2710 20 FT	20	84	114	5	39.900	**5001218**
2710 25 FT	25	89	119	5	42.300	**5001226**

- ST, BP, OMEX and LightEarth system
- On round conductor Rd 8-10
- Incl. connector, type 5001 DIN



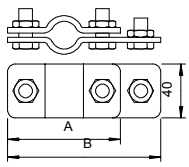


St FT

Connection clamp for earth rod on flat conductor

Type	For earth rods Ø mm	Short-circuit current (50 HZ) (1 s;≤300 °C) kA	Dim. A mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
2730 25 FT	25	8.5	89	119	5	38.800	**5001412**
2730 20 FT	20	7.9	84	114	5	35.900	**5001404**

- ST, BP, OMEX and LightEarth systems
- On flat conductors
- Including hex-head screw for attaching flat conductors





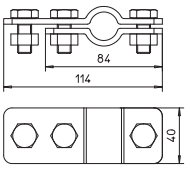
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Connection clips

Connection clamp for earth rod on flat conductor

VA



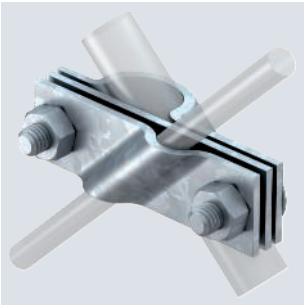


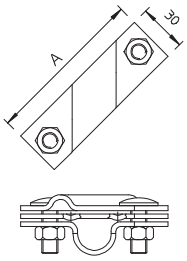
Type	For earth rods Ø mm	Dim. A mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
2730 20 VA	20	84	114	5	33.764	**5001366**

- ST, BP, OMEX and LightEarth systems
- On flat conductors
- Including hex-head screw for attaching flat conductors

Connection clamp for earth rod, universal

St FT



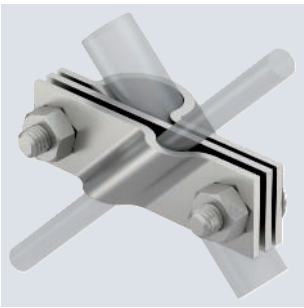


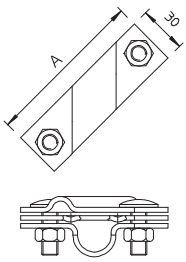
Type	Dim. A mm	For earth rods Ø mm	Fit mm	Short-circuit current (50 HZ) (1 s;≤300 °C) kA	Pack Piece	Weight kg/100 pc.	Item no.
2760 20 FT	101	20	Rd 8-10/FL40	7.9	5	28.335	**5001641**
2760 B-20 FT	101	20	Rd 8-10/FL40	7.9	20	32.400	**5001749**
2760 25 FT	110	25	Rd 8-10/FL40	8.5	5	38.400	**5001668**

- Suitable for attaching round conductors Rd 8-10 or flat conductors to FL 40
- With separator plate
- Installed with 2 hexagonal bolts M10 x 30 and 2 hexagonal nuts M10

Connection clamp for earth rod, universal

VA VA





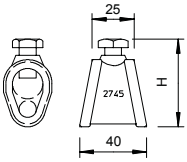
Type	Dim. A mm	For earth rods Ø mm	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
2760 20 VA	101	20	Rd 8-10/FL40	5	28.286	**5001617**
2760 B-20 VA	101	20	Rd 8-10/FL40	20	32.400	**5001625**
2760 20 V4A	101	20	Rd 8-10/FL40	5	32.400	**5001633**
2760 25 V4A	110	25	Rd 8-10/FL40	5	32.400	**5001672**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- Suitable for connecting round conductors Rd 8-10 or flat conductors to FL 40
- With adapter plate
- Mounted with 2 hexagonal bolts M10 x 30 and 2 hexagonal bolts M10

Connection clamp for earth rod or cables

CuZn 37 Cu





Type	For earth rods Ø mm	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
2745 20 MS	20	7-12,5/S95 mm²	5	16.000	**5001560**

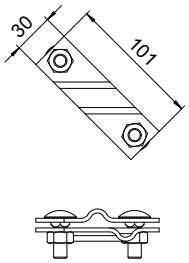
- For earth rods Ø 20 or conductors of 95 mm²
- For round conductor attachments Rd 7–12.5 with hexagonal bolts M10 x 25

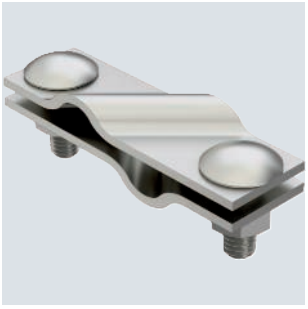
VA

Diagonal connector for round conductor

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
2760 8-10 V4A	Rd 8-10	H/100		25	21.364	**5313013**

- Meets the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)
- To connect round conductors 8–10 mm
- Mounted with 2 truss-head bolts M10 x 30 and 2 hexagonal bolts M10



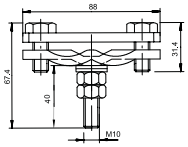


St F

Diagonal clamp with bolt

Type	Dim. L mm	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
250 A-BO	25	Rd 6-22/max. FL50	H/100		25	30.994	**5313066**

- For reinforced steels Ø 6-22 mm and flat conductor 50 x 4
- Installed with bolts M10 x 25
- Simple installation with open slot
- With flange-welded bolts M10 x 40, inc. 2 washers and 2 nuts



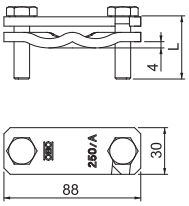


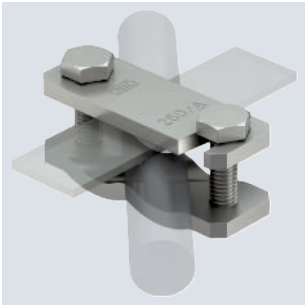
VA

Diagonal clamp for flat conductors and round conductors

Type	Dim. L mm	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
250 A-VA	40	Rd 6-22/max. FL50	H/100		10	28.800	**5313023**

- For reinforced steels Ø 6-22 mm and flat conductor 50 x 4
- Installed with bolts M10 x 40
- AS version with bolts M10 x 20
- Simple installation with open slot



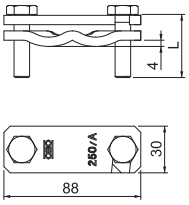


St FT

Diagonal clamp for flat conductors and round conductors

Type	Dim. L mm	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
250 A-FT	40	Rd 6-22/ max. FL50	H/100		25	28.800	**5313015**
250 AS-FT	20	Rd 6-22/ max. FL50	H/100		25	26.000	**5313031**
250 A	40	Rd 6-22/ max. FL50	H/100		25	28.800	**5313058**

- For reinforced steels Ø 6-22 mm and flat conductor 50 x 4
- Installed with bolts M10 x 40
- AS version with bolts M10 x 20
- Simple installation with open slot



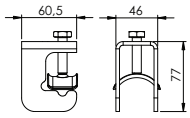


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Connection terminals

VARIO earthing terminal for large reinforced steels

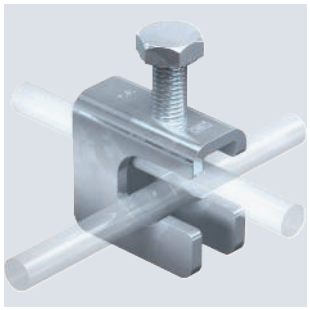


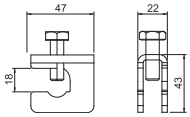


Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
1814 ST D37	FL30x3-4mm / Rd 10 x Rd 16-37	H/100	25	30.000	**5014477**
1814 FT D37	FL30x3-4mm / Rd 10 x Rd 16-37	H/100	25	30.000	**5014469**

- For armoured steel with 16-37 mm diameter and round conductors and flat conductors
- Rapid installation using open slot and only one M10 bolt
- Rotatable metal pressure trough for simple, safe mounting

VARIO earthing terminal for reinforced steels

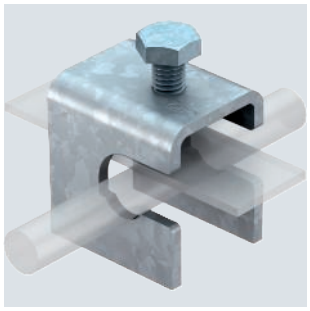


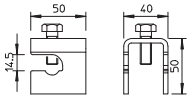


Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
1814 FT D14	FL30x3-4mm / Rd 8-10 x Rd 6-14	N/50	25	15.340	**5014471**

- For reinforced steel with 6–14 mm diameter and round and flat conductors
- Rapid installation using elongated open slot and only one M10 bolt

VARIO earthing terminal for reinforced steels

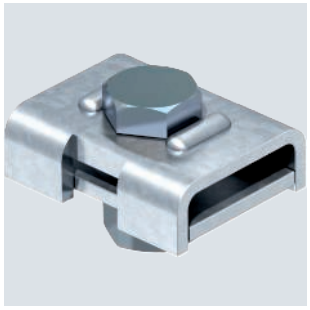


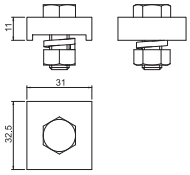


Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
1814 ST	FL30x5 x Rd8-14	N/50	25	20.000	**5014476**
1814 FT	FL30x5 x Rd8-14	N/50	25	20.000	**5014468**

- For reinforced steels with diameters 8-14 mm and FL 30 x 5
- Simple mounting through open slot
- Side suspension possible

Connection terminal for round conductors





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
1818	Rd 8-10	10	17.600	**5012015**

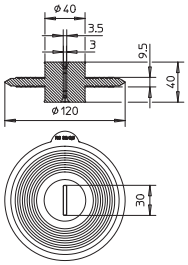
- For connecting round conductor Rd 8-10
- With 1 hexagonal bolt M12 x 40, 1 hexagonal nut M12 and 1 lock washer, stainless steel

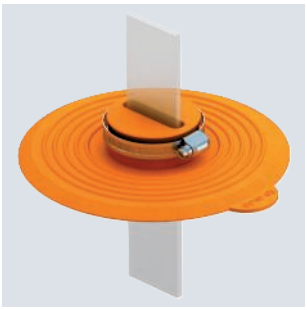
TPE

Sealing sleeve for flat conductors

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
DW FL30x3,5	FL 30x3,5	1	18.000	**2360043**

- Sealing sleeve for penetrations of waterproof foundation plates/walls (e.g. white trough)
- For mounting on connection lugs with stainless steel tightening straps
- With pressurised water testing to 5 bar
- According to DIN EN 62561-5 (VDE 0185-561-5)



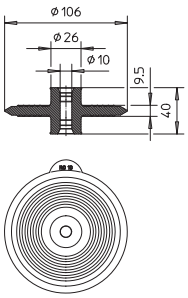


TPE

Sealing sleeve for round conductors

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
DW RD10	RD 10	1	13.000	**2360041**

- Sealing sleeve for penetrations of waterproof foundation plates/walls (e.g. white trough)
- For mounting on connection lugs with stainless steel tightening straps
- With pressurised water testing to 5 bar
- According to DIN EN 62561-5 (VDE 0185-561-5)



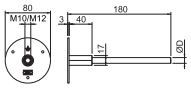


St VA FT

Fixed earthing terminal with axis and double thread

Type	Thread	Short-circuit current (50 HZ) (1 s;≤300 °C) kA	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
205 DG L180 V4A	M10/M12	3.3	H/100	10	23.900	**5420022**
205 DG L180 FT	M10/M12	4.9	H/100	10	23.900	**5420024**

- For connection to earthing systems, conductors and reinforcements
- Contact plate: Ø 80 mm made of stainless steel, rustproof (V4A)
- Clamping screw Ø 10 mm
- Incl. plastic cover for simple installation



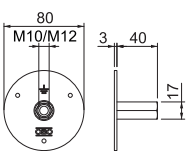


VA

Fixed earthing terminal with double thread

Type	Thread	Short-circuit current (50 HZ) (1 s;≤300 °C) kA	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
205 DG V4A	M10/M12	6.2	H/100	10	14.800	**5420020**

- For connection to earthing systems, conductors and reinforcements
- Contact plate: Ø 80 mm made of stainless steel, rustproof (V4A)
- Double thread M10/M12
- Incl. plastic cover for simple installation

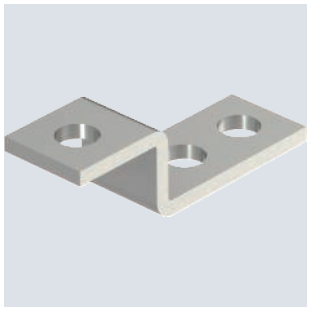


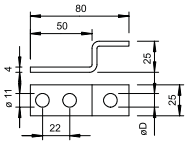


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Connection and end piece

VA



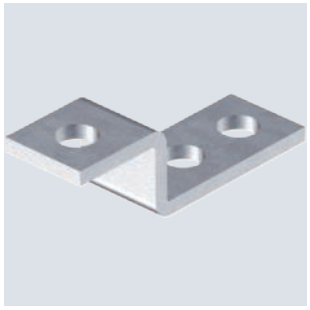


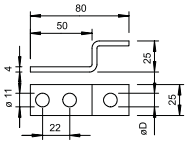
Type	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
5011 VA M10	11	10	7.064	**5334934**
5011 VA M12	13	10	7.048	**5334942**

- For attaching to steel structures or bolting to fixed earthing terminals
- For attachments: Round conductor Rd 8-10 and flat conductor FL 30 x 3.5
- 2 attaching holes Ø 11 mm
- 1 attaching hole Ø D mm

Connection and end piece

St FT



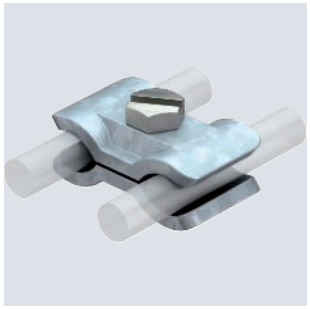


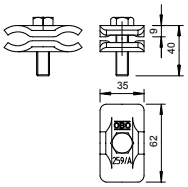
Type	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
5011	11	10	7.064	**5304997**

- For attaching to steel structures or bolting to fixed earthing terminals
- For attachments: Round conductor Rd 8-10 and flat conductor FL 30 x 3.5
- 2 attaching holes Ø 11 mm
- 1 attaching hole Ø D mm

Parallel clamp for the connecting of reinforcing steels

St VA FT



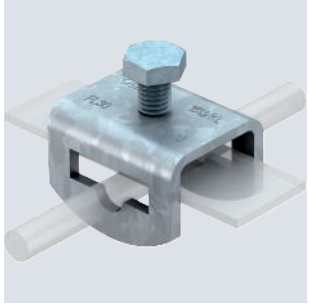


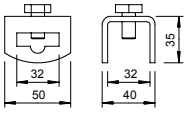
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
259 A ST	Ø 10-20	H/100	25	18.800	**5315557**
259 A FT	Ø 10-20	H/100	25	18.800	**5315514**
259 A VA	Ø 10-20	H/100	10	15.880	**5315522**

- For connecting reinforced steels Ø 10–20 mm
- Mounted with M10 x 40 bolts

Variable earthing terminal

St FT





Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
1813 KL	FL30 x Rd 8-10	H/100	50	18.000	**5014425**

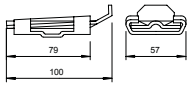
- Suitable for connection for Rd 10 x FL 30, FL 30 x FL 30
- Quick mounting using a hexagonal bolt M10 x 20 (F)

St FT

Wedge connector

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
1813 DIN	10/FL30 x FL30	H/100		5	21.144	**5014212**

- DIN 48834, Form A
- Suitable for connecting Rd 10 x FL 30, FL 30 x FL 30
- Quick installation with high contact force



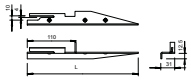


St FT

Spacer

Type	Fit mm	Length mm		Pack Piece	Weight kg/100 pc.	Item no.
1811	10/FL30 x 3,5	250		25	19.000	**5014018**
1811 L	10/FL30 x 3,5	400		25	31.500	**5014026**

- For professional laying of round conductors and flat conductors according to DIN VDE 0185-305 (IEC 62305)
- DIN 48833
- Suitable for mounting round conductors Rd 10 or flat conductors FL 30 x 3.5



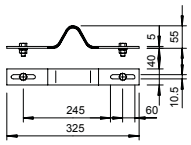


Alu

Expansion piece

Type			Pack Piece	Weight kg/100 pc.	Item no.
1807			1	27.000	**5016142**

- For expansion joints, for a connection of the foundation earth electrode outside the concrete
- To VDE 0185-561-2 (IEC 62561-2)
- 2 hexagonal nuts M10 x 30, 2 steel washers, hot galvanised and 2 serrated washers made of rustproof steel



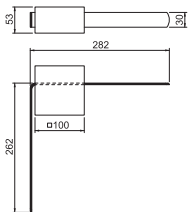


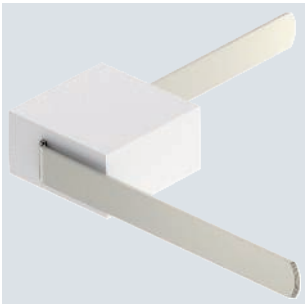
VA

Expansion strip for foundation earth electrode systems

Type	Dimension W x H mm		Pack Piece	Weight kg/100 pc.	Item no.
1807 DB	30x3,5		1	40.000	**5016160**

- Expansion strip according to VDE 0185-561-2 (IEC 62561-2)
- To pass the foundation earth electrode through movement joints



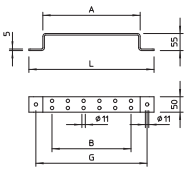


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Earthing connection bar

VA





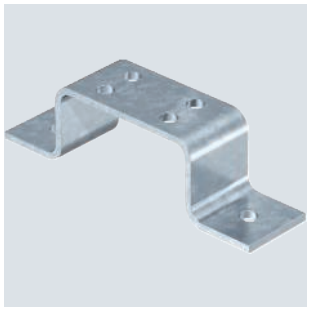
Type	Dim. L mm	Dim. A mm	Dim. B mm	Dim. G mm	Pack Piece	Weight kg/100 pc.	Item no.
1805 2 VA	200	110	51	155	1	54.800	**5016096**
1805 4 VA	302	212	153	257	1	77.000	**5016118**
1805 6 VA	404	314	255	359	1	97.100	**5016126**

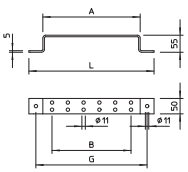
1805/...: For connecting different earthing systems

- With 2 mounting holes Ø 11 mm
- 1805/2: With 4 attaching holes
- 1805/4: With 8 attaching holes
- 1805/6: With 12 attaching holes

Earthing connection bar

St FT





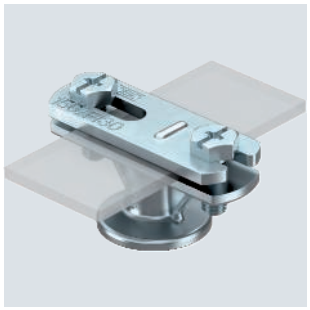
Type	Dim. L mm	Dim. A mm	Dim. B mm	Dim. G mm	Pack Piece	Weight kg/100 pc.	Item no.
1805 2 FT	200	110	51	155	1	54.800	**5016029**
1805 4 FT	302	212	153	257	1	77.000	**5016037**
1805 6 FT	404	314	255	359	1	97.100	**5016045**

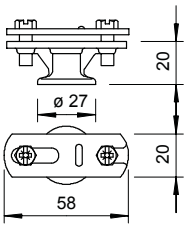
1805/...: For connecting different earthing systems

- With 2 mounting holes Ø 11 mm
- 1805/2: With 4 attaching holes
- 1805/4: With 8 attaching holes
- 1805/6: With 12 attaching holes

Cable bracket for flat conductor

Zn G





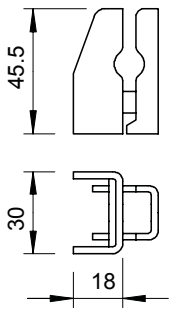
Type	Pack Piece	Weight kg/100 pc.	Item no.
113 BZ-FL	100	6.280	**5230446**
113 B-Z-HD-FL	100	7.000	**5230462**

- With female thread M8 or through hole for wood screws
- For flat conductor FL 30
- Sliding over-piece for quick installation

Cable bracket for Rd 8–10 and FL 30

St FT





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
835	Rd 8/10/ FL 30x3,5	1	8.907	**5033209**

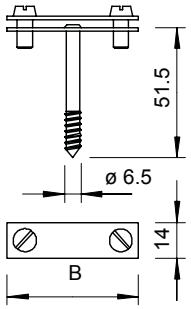
- For round conductor Rd 8-10 and flat conductor FL 30 x 3.5
- Supplied with hexagonal wood bolt 6 x 70 and straddling dowel 910/N

St G

Spacer clip for flat conductor, with wood screw

Type	Fit mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
708 30 HG	max. FL30	52	50	2.536	**5030234**
708 40 HG	max. FL40	62	50	2.827	**5030242**

- Fit: FL 30 and FL 40
- With 2 cylinder bolts M5 x 12 (G) and over-piece
- With wood screw



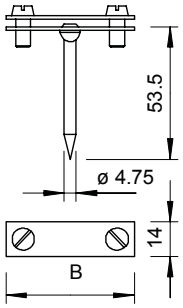


St G

Spacer clip for flat conductor, with square pin

Type	Fit mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
708 30 SP	max. FL30	52	50	3.148	**5030021**

- Fit: FL 30 and FL 40
- With 2 cylinder bolts M5 x 12 (G) and over-piece
- With square pin



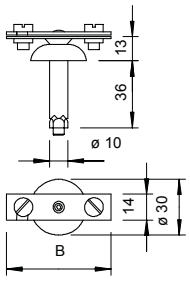


St G

Spacer clip for flat conductor, with steel spreading anchor Ø 10

Type	Fit mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
710 30	max. FL30	52	25	5.044	**5028035**
710 40	max. FL40	62	25	5.360	**5028043**

- Fit: FL 30 and FL 40
- With steel straddling dowel Ø 10 mm, spacer and 2 cylinder bolts M5 x 14 (G)



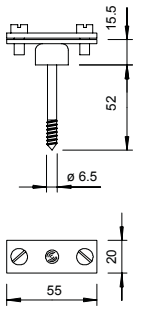


St FT

Spacer clip for flat conductor, with wood screw and spacer

Type	Fit mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
370 H	max. FL30	55	100	10.200	**5025206**

- Fit: FL 30
- With spacer and cylinder bolts M6 x 16 (G)
- With wood bolts

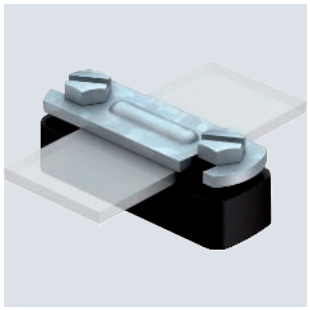


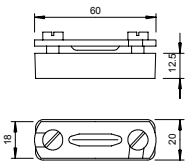


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Spacer clip for flat conductor, with polyamide base

St FT



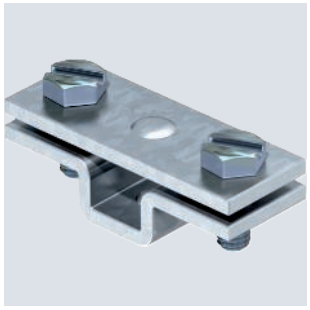


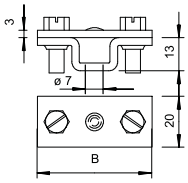
Type	Fit mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
833 35	max. FL30	60	25	4.228	**5033039**

- Fit: FL 30
- With mounting hole 6.2 x 22 mm
- With 2 cylinder bolts M6 x 16 and over-piece from hot-dip galvanised steel
- Bottom section from polyamide, black

Spacer clip for flat conductor, with fastening hole Ø 7

St FT



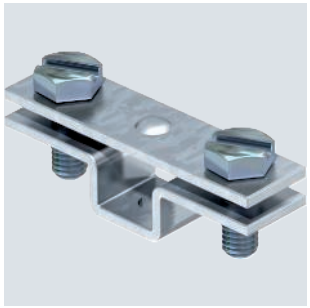


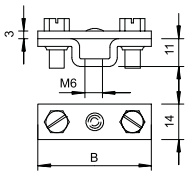
Type	Fit mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
832 30	max. FL30	55	25	7.416	**5032539**
832 40	max. FL40	65	25	7.612	**5032547**

- Fit: FL 30 and FL 40
- With mounting hole Ø 7 mm and 2 hexagonal bolts M6 x 16

Spacer clip for flat conductor, with threaded connection M6

St FT



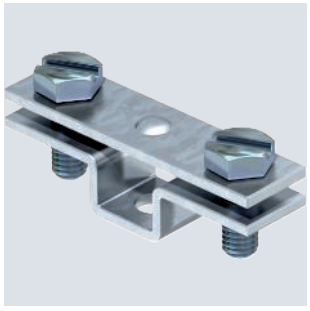


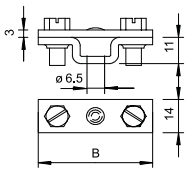
Type	Fit mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
831 30 M6	max. FL30	54	25	3.712	**5032237**
831 40 M6	max. FL40	65	25	3.880	**5032245**

- Fit: FL 30 and FL 40
- With attaching thread M6 and 2 hexagonal bolts M6 x 16 (F)

Spacer clip for flat conductor with fastening hole Ø 6.5

St FT





Type	Fit mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
831 30	max. FL30	54	25	3.580	**5032032**
831 40	max. FL40	65	25	3.894	**5032040**

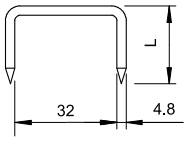
- Fit: FL 30 and FL 40
- With mounting hole Ø 6.5 mm and 2 hexagonal bolts M6 x 16 (F)

St FT

Strip steel crimp

Type	Length mm	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
366 35	35	max. FL30	100	1.737	**5059356**
366 50	50	max. FL30	100	2.300	**5059496**

- For the mounting and fixing of flat conductors
- Fit: FL 30

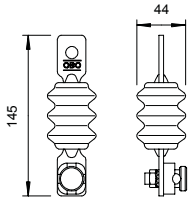




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Protective spark gap



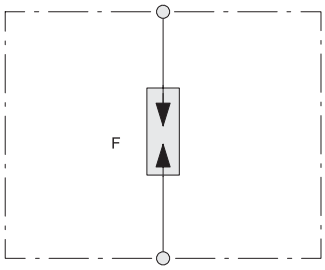


Type	Protection level kV	Nominal discharge current (8/20) kA	Power frequency spark-over voltage kV		Pack Piece	Weight kg/100 pc.	Item no.
482	< 10	25	10		1	56.000	**5240050**

Closed spark gap for bridging a proximity point between roof standard of low-voltage system and components of outer lightning protection system.

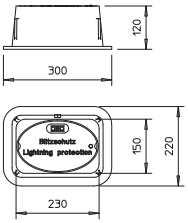
- Protection rating IP 54
- With pre-mounted type 5001 connector for attaching round conductors Rd 8 - 10

Connection options



Underfloor test box



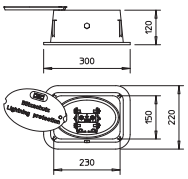


Type		Pack Piece	Weight kg/100 pc.	Item no.
5700		1	720.000	5106002

- Without base
- Cast iron, painted black
- Without cut-off unit
- To VDE 0185-561-5 (IEC 62561-5) suitable for heavy loads (up to 40 kN/ 4.0 t)

Inspection pit with integrated separation piece





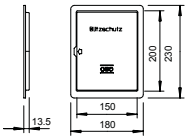
Type		Pack Piece	Weight kg/100 pc.	Item no.
5700 SP		1	770.000	5106003

- Without base
- Cast iron, painted black
- With built-in cut-off unit for round conductors Rd 8-10 and flat conductors to FL 40
- To VDE 0185-561-5 (IEC 62561-5) suitable for heavy loads (up to 40 kN/ 4.0 t)

Inspection door

St FS





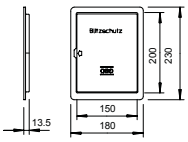
Type		Pack Piece	Weight kg/100 pc.	Item no.
5800 VZ		1	46.000	5106133

- Lightweight design for flush-mounted separation points
- With fastening straps to be bent

Inspection door

VA





Type		Pack Piece	Weight kg/100 pc.	Item no.
5800 VA		1	46.000	5106141

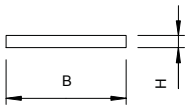
- Lightweight design for flush-mounted separation points
- With fastening straps to be bent

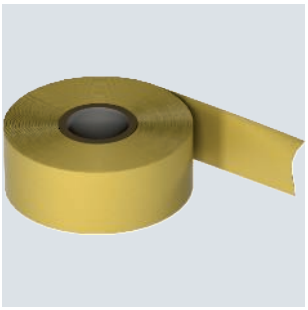
PETR

Corrosion protection strip

Type	Width mm	Length m	Pack Piece	Weight kg/100 pc.	Item no.
356 50	50	10	1	59.000	**2360055**
356 100	100	10	1	122.200	**2360101**

- Approx. 1.1 mm thick
- Width: 50 mm or 100 mm, made of petrolatum-coated chemical fibre fabric
- Can be processed cold



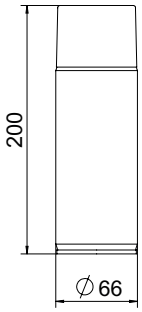


CE UK CA

Zinc repairs

Type	Dimension	Pack Piece	Weight kg/100 pc.	Item no.
ZSF	400ml	1	45.000	**2362970**

Zinc spray for treatment of unprotected surfaces and cutting edges. Can contents: 400 ml.

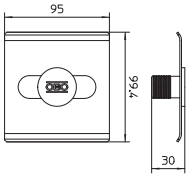


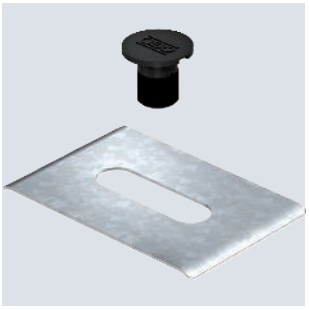


TrayFix mounting adapter for mesh cable trays on FangFix system

Type	Dimension	Pack Piece	Weight kg/100 pc.	Item no.
TrayFix	ø20mm	25	9.850	**5403100**

- Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone, e.g. cable routing on a flat roof
- Adapted to OBO cable tray systems MKSM, SKSM and IKSM
- Adapted to OBO mesh cable tray systems with a minimum width of 100 mm





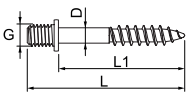
St G

CE

Screw-in anchor with M6 thread

Type	Dim. L mm	Dim. L1 mm	Dim. D mm	Dim. G mm	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
985 M6 25	35	25	4.3	M6	3000	100	0.412	**3133028**
985 M6 35	45	35	4.3	M6	2000	100	0.533	**3133036**

With wood screw shank and M6 thread.



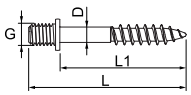


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Screw-in anchor with M8 thread

St G





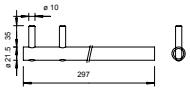
Type	Dim. L mm	Dim. L1 mm	Dim. D mm	Dim. G mm	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
985 M8 35	47	35	5.2	M8	1200	100	0.950	**3133230**

With wood screw shank and M8 thread.

Directional irons

St FT





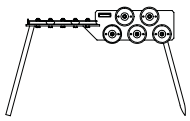
Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
364	297	1	35.000	**3051013**

- Directional iron for bending and aligning conductors

Wire straightening machine

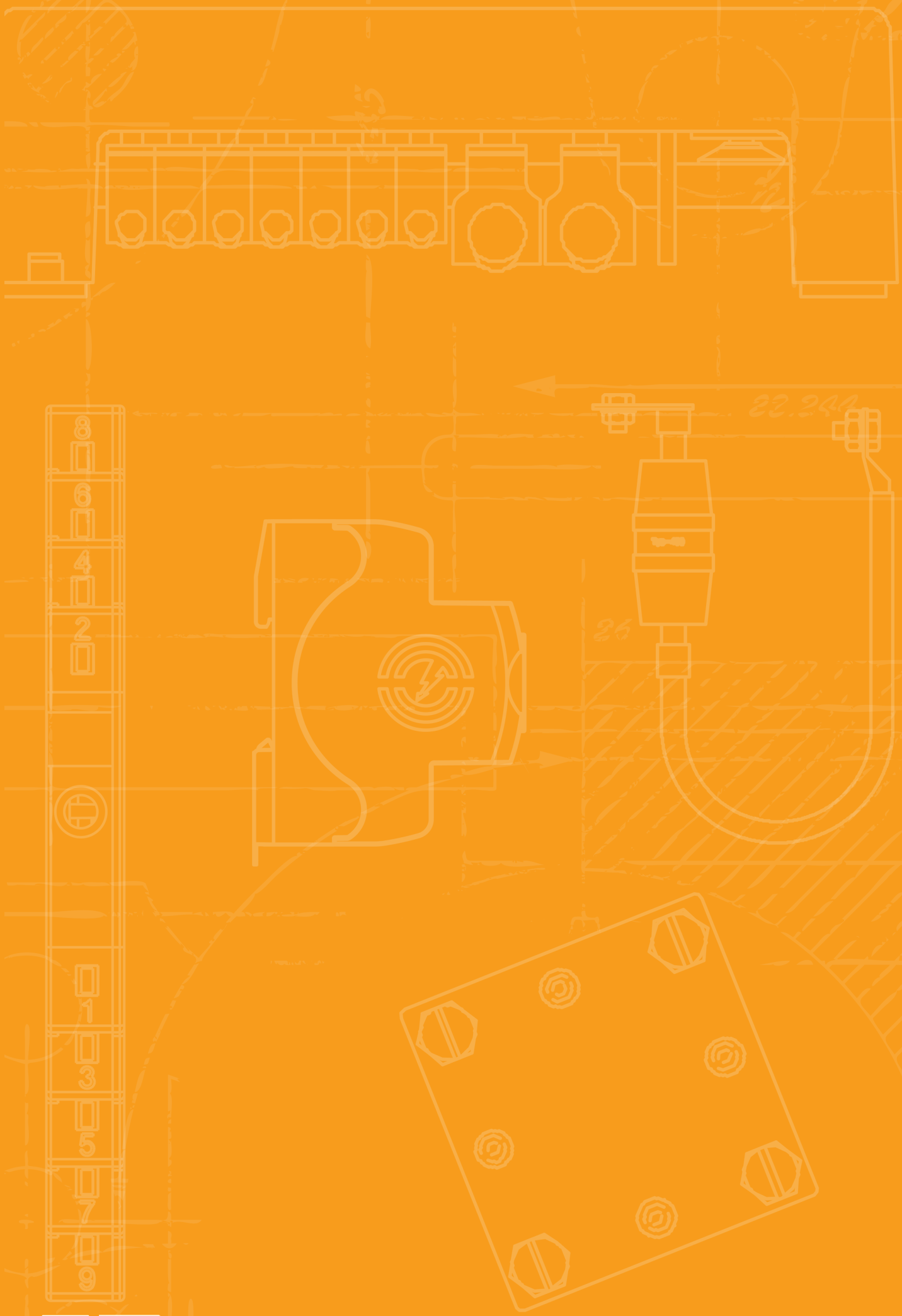
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Type	Pack Piece	Weight kg/100 pc.	Item no.
5900	1	3,300.000	**3059006**

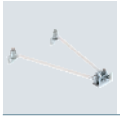
- Factory-set for round conductor Rd 8
- Structure, steel, painted
- Straightening rolls, galvanised cast iron



Air-termination systems and air-termination rods


Air-termination rods 118

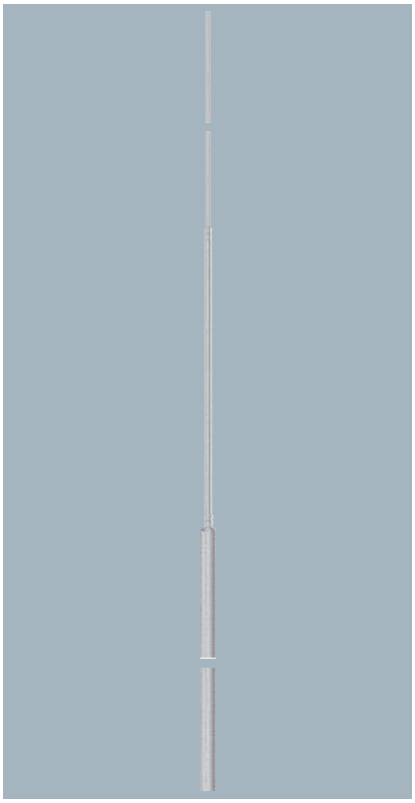

Air-termination systems 130


Insulated air-termination systems 142

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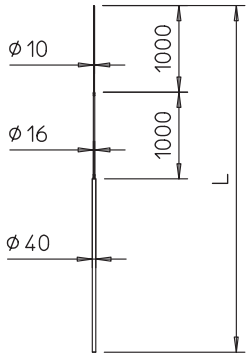
isFang air-termination rod

Alu



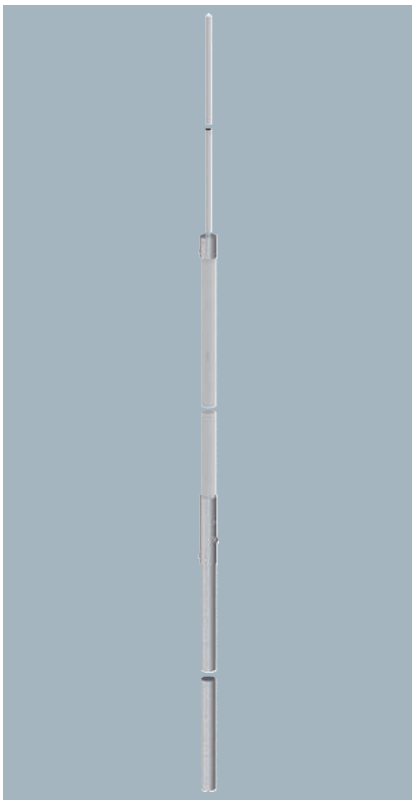
Type	Dim. B mm	Dim. D mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
101 3B-4000	2000	1000	4000	1	400.000	**5402864**
101 3B-4500	2500	1000	4500	1	480.000	**5402866**
101 3B-5000	3000	1000	5000	1	550.000	**5402868**
101 3B-5500	3000	1500	5500	1	630.000	**5402870**
101 3B-6000	4000	1000	6000	1	700.000	**5402872**
101 3B-6500	4500	1000	6500	1	780.000	**5402874**
101 3B-7000	5000	1000	7000	1	850.000	**5402876**
101 3B-7500	5500	1000	7500	1	930.000	**5402878**
101 3B-8000	5500	1000	8000	1	1,000.000	**5402880**

- Suitable for wind loads according to Eurocode 1: DIN EN 1991-1-4
- Tapered air-termination rod
- Suitable for 40 mm isFang tripod stand and isFang support systems



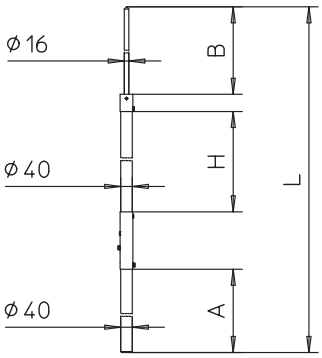
Insulated air-termination rod

GFK



Type	Dim. A mm	Dim. H mm	Dim. B mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang 4000 AL	1240	1500	1000	4000	1	580.000	**5408943**
isFang 6000 AL	3340	1500	1000	6000	1	600.000	**5408947**
isFang 4000	1240	1500	1000	4000	1	680.000	**5408942**
isFang 6000	3340	1500	1000	6000	1	680.000	**5408946**

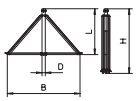
- For isolated creation of air-termination systems
- Suitable for isFang air-termination rod stands, type isFang 3B-100/150
- Suitable for wind loads according to Eurocode 1: DIN EN 1991-1-4
- For installation on the building structure with isFang support
- Fastening of the OBO isCon® conductor possible using accessories
- Suitable for externally routed isCon® conductors



VA Alu

isFang tripod

Type	Dim. B mm	Dim. D Ø mm	Dim. L mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang 3B-100 AL	1000	40	600	885	1	380.000	**5408966**
isFang 3B-150 AL	1500	40	900	1275	1	560.000	**5408967**
isFang 3B-100	1000	40	600	885	1	620.000	**5408968**
isFang 3B-150	1500	40	900	1275	1	950.000	**5408969**



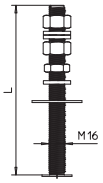


- Installation of free-standing air-termination rods as well as insulated air-termination rods with 40 mm diameter
- Roof slope to max. 5 degrees
- Incl. Rd 8–10 crossbar for quick round conductor fastening
- Concrete base as well as threaded rods should be ordered separately

VA

isFang-3B threaded rod

Type	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang 3B-G1	270	3	48.000	**5408971**
isFang 3B-G2	340	3	60.400	**5408972**
isFang 3B-G3	430	3	69.500	**5408973**
isFang 3B-G4	500	3	75.000	**5408905**



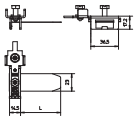


- For fastening on one, two, three or four FangFix concrete bases with tripod stand

VA

Potential connection clamp for mounting on isFang

Type	For pipe Ø inch	Dim. L mm	For pipe Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
927 2 6-K	3/8-4	595	17.2 - 114	10	5.500	**5057599**

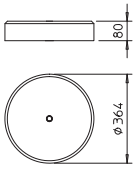




Potential connection for isCon® conductor for mounting on insulated air-termination rods of type isFang.

Concrete base for FangFix system, min. 16 kg

Type	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
F-FIX-S16	365	1	1,773.000	**5403227**



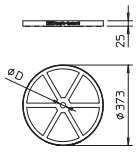


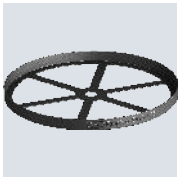
- Min. 16 kg block of Ø 365 mm, high level of stability
- Frost-resistant concrete
- Stackable

PP

Base for FangFix system 16 kg for mounting the isFang tripod

Type	Nominal size Ø mm	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
F-FIX-B16 3B	373	25	10	15.800	**5403238**





- Edge protection with through hole
- For mounting isFang-3B threaded rod and FangFix concrete block F-FIX-S16

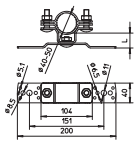
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isFang air-termination rod

isFang support for wall mounting, 30 mm spacing

VA





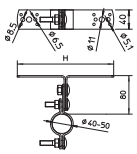
Type	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang TW30	30	2	62.000	**5408952**

Fastening clip to fasten the insulated support pipes on the structure to be protected or on the wall.

isFang support for wall mounting, 80 mm spacing

VA





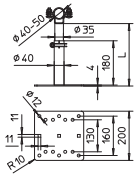
Type	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang TW80	80	2	63.000	**5408950**

Fastening clip to fasten the insulated support pipes on the structure to be protected or on the wall.

isFang support for wall mounting, 200 mm spacing

VA





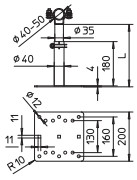
Type	Dim. D Ø mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang TW200 12	50	200	2	240.000	**5408910**

Fastening clip to fasten the insulated support pipes on the structure to be protected or on the wall.

isFang support for wall mounting, 200–300 mm spacing

VA





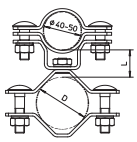
Type	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang TW200	300	2	230.000	**5408954**

Fastening clip to fasten the insulated support pipes on the structure to be protected or on the wall.

isFang support for pipe mounting, ø 50–60 mm

VA





Type	Dim. D Ø mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang TS50-60	60	30	2	76.000	**5408960**

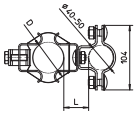
Tightening strap clip to fasten the insulated support pipes on the structure to be protected or for construction-side pipes of ø 50–60 mm.

VA

isFang support for pipe mounting, ø 50–300 mm

Type	Dim. D Ø mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang TR100	300	40	2	77.000	**5408956**

Tightening strap clip to fasten the insulated support pipes on the structure to be protected or for construction-side pipes of ø 50–300mm.



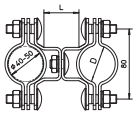


VA

isFang support for pipe mounting, ø 40–50 mm

Type	Dim. D Ø mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang TS40-50	50	40	2	90.000	**5408958**

Tightening strap clip to fasten the insulated support pipes on the structure to be protected or for construction-side pipes of ø 40–50 mm.



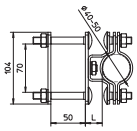


VA

isFang support for corner pipe mounting, 50 x 50 mm

Type	Dim. D Ø mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang TS50x50	50	30	2	82.000	**5408964**

Fastening clip to fasten the insulated support pipes on the structure to be protected or for construction-side corner pipes of 50x50 mm.



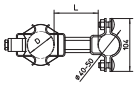


VA

isFang support for spaced pipe mounting, ø 50–300 mm

Type	Dim. D Ø mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang TR100 100	300	100	2	95.500	**5408955**
isFang TR100 200	300	200	2	121.000	**5408957**
isFang TR100 300	300	300	2	146.000	**5408959**

Tightening strap clip to fasten the insulated support pipes on the structure to be protected or for construction-side pipes of ø 50–300 mm.



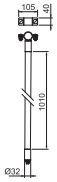


VA

isFang support for installation on insulated air-termination rod

Type	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang TS-S 1000	1010	2	140.000	**5408949**

- For mounting on insulated air-termination rods
- For installation with aluminium cables



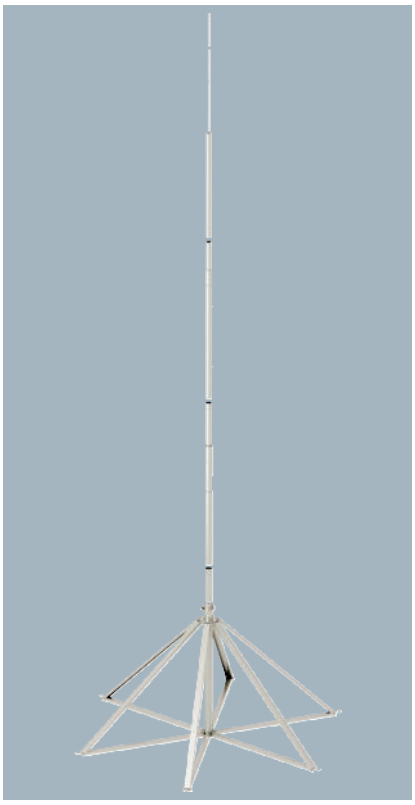


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Tele air-termination rod irod

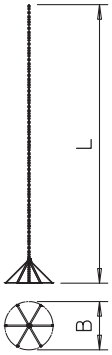
10 m air-termination rod with 6-legged air-termination rod stand

VA



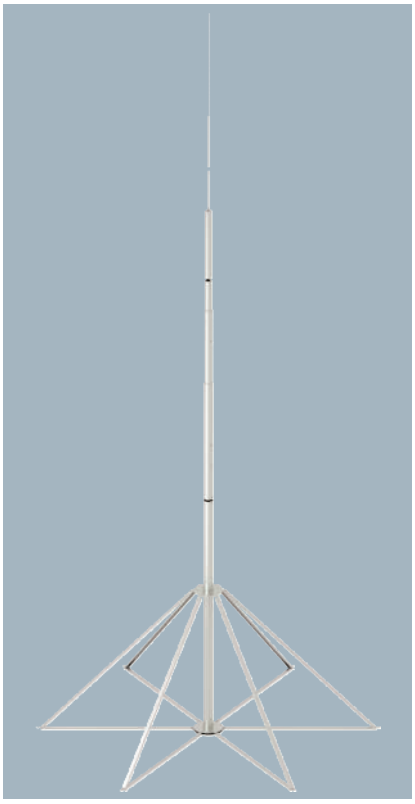
Type	Dim. D Ø mm	Dim. B mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
irod 10	48.3	1800	10000	1	6,500.000	**5400810**

- Tele lightning protection system against direct lightning strikes into plants, such as biogas plants
- Consisting of air-termination rod and air-termination rod stand
- Please order concrete foot, edge protection and threaded rods separately



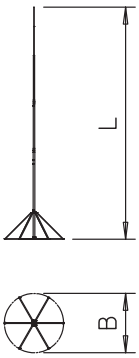
12 m air-termination rod with 6-legged air-termination rod stand

VA



Type	Dim. D Ø mm	Dim. B mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
irod 12	85	3000	12000	1	10,900.000	**5400812**

- Tele lightning protection system against direct lightning strikes into plants, such as biogas plants
- Consisting of air-termination rod and air-termination rod stand
- Please order concrete foot, edge protection and threaded rods separately

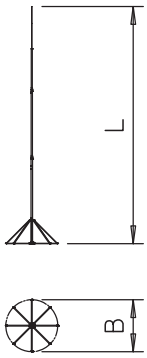


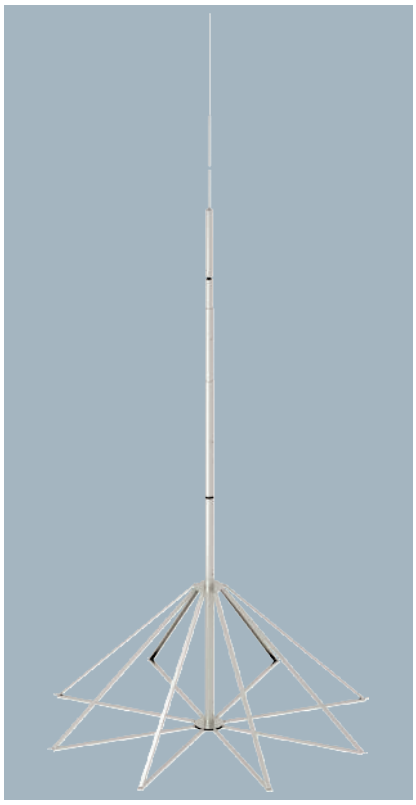
VA

14 m air-termination rod with 8-legged air-termination rod stand

Type	Dim. D Ø mm	Dim. B mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
irod 14	85	3200	14000	1	15,400.000	**5400814**

- Tele lightning protection system against direct lightning strikes into plants, such as biogas plants, gas pressure regulation plants, control and greenfield photovoltaic systems
- Consisting of air-termination rod and air-termination rod stand
- Please order concrete foot, edge protection and threaded rods separately





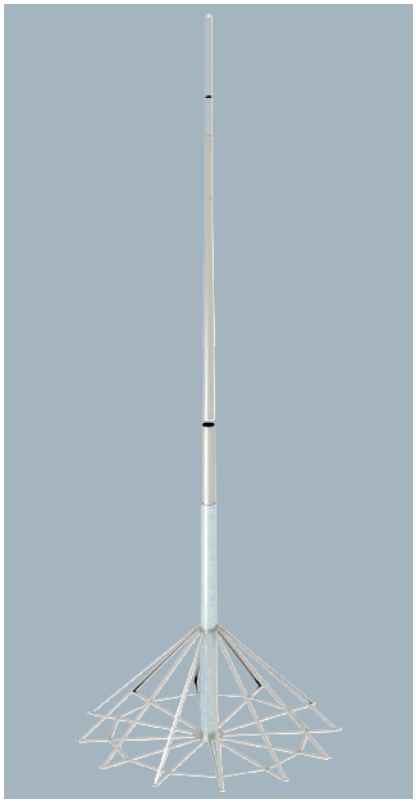
VA

19 m air-termination rod with 12-legged air-termination rod stand

Type	Dim. D Ø mm	Dim. B mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
irod 19	198	3400	19500	1	41,500.000	**5400817**

- Tele lightning protection system against direct lightning strikes into plants, such as biogas plants, gas-pressure regulation plants, control and greenfield photovoltaic systems
- Consisting of air-termination rod and air-termination rod stand
- Please order concrete foot and edge protection separately
- Including 800-mm threaded rods





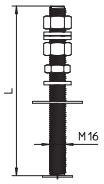
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Tele air-termination rod irod

isFang-3B threaded rod

VA



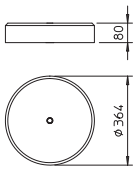


Type	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang 3B-G1	270	3	48.000	**5408971**
isFang 3B-G2	340	3	60.400	**5408972**
isFang 3B-G3	430	3	69.500	**5408973**
isFang 3B-G4	500	3	75.000	**5408905**

- For fastening on one, two, three or four FangFix concrete bases with tripod stand

Concrete base for FangFix system, min. 16 kg



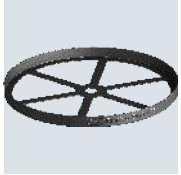


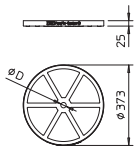
Type	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
F-FIX-S16	365	1	1,773.000	**5403227**

- Min. 16 kg block of Ø 365 mm, high level of stability
- Frost-resistant concrete
- Stackable

Base for FangFix system 16 kg for mounting the isFang tri-pod

PP





Type	Nominal size Ø mm	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
F-FIX-B16 3B	373	25	10	15.800	**5403238**

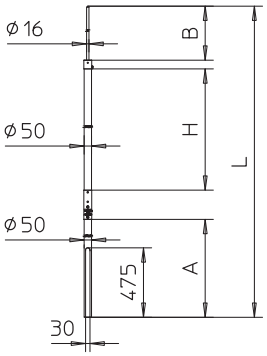
- Edge protection with through hole
- For mounting isFang-3B threaded rod and FangFix concrete block F-FIX-S16

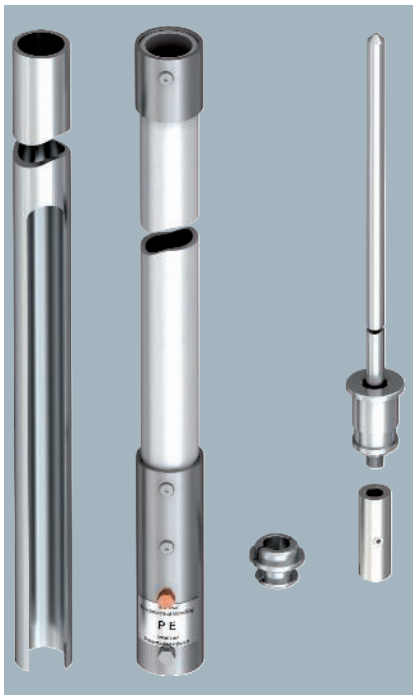
GFK

Insulated air-termination rod for inner-routed isCon conductor with side exit

Type	Dim. D Ø mm	Dim. A mm	Dim. H mm	Dim. B mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang IN-A 4000	50	1325	1500	1000	4000	1	535.000	**5408938**
isFang IN-A 6000	50	3325	1500	1000	6000	1	835.000	**5408940**
isFang IN-A 8000	50	5335	1500	1000	8000	1	1,385.000	**5408888**
isFang IN-A10000	50	6000	1733	2000	10000	1	1,540.000	**5408890**

- For installation of the OBO isCon® Pro+ conductor in the pipe
- With side conductor outlet matching isFang air-termination rod stand with side outlet, type isFang 3B-A
- Suitable for wind loads according to Eurocode 1: DIN EN 1991-1-4
- Inclusive connection element (type isCon IN connect)
- Inclusive potential connection (type isCon In PAE)



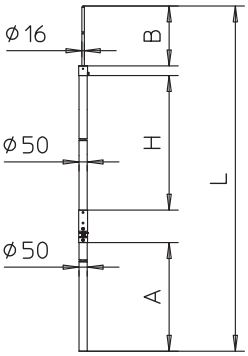


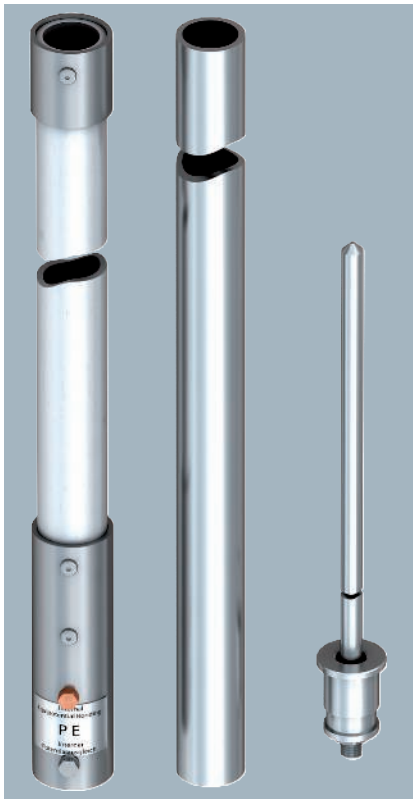
GFK

Insulated air-termination rod for inner-routed isCon® conductor

Type	Dim. D Ø mm	Dim. A mm	Dim. H mm	Dim. B mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang IN L4	50	1325	1500	1000	4000	1	535.741	**5408854**
isFang IN L6	50	3325	1500	1000	6000	1	835.741	**5408856**
isFang IN L8	50	5335	1500	1000	8000	1	1,315.741	**5408858**
isFang IN L10	50	6000	1733	2000	10000	1	1,540.741	**5408860**

- For routing OBO isCon® conductors in pipes
- For installation on the building structure with isFang support
- Suitable for wind loads according to Eurocode 1: DIN EN 1991-1-4
- Tested according to VDE V 0185-561-8 (IEC TS 62561-8)



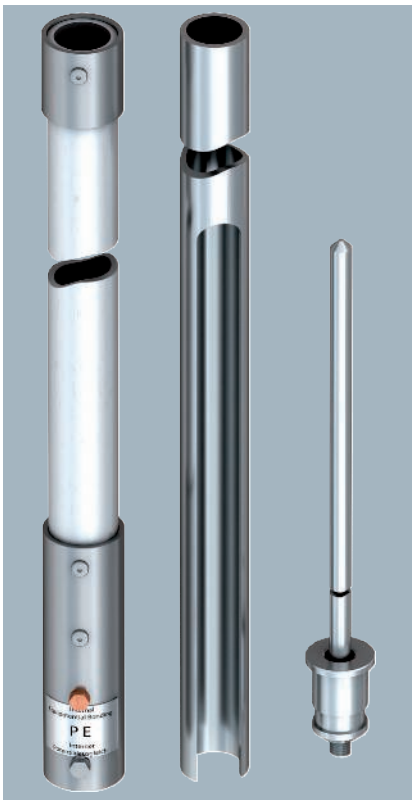


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Insulated air-termination rods

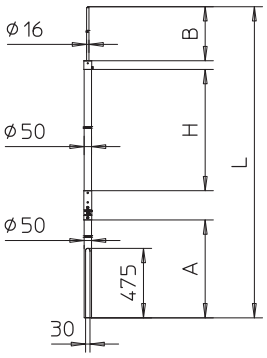
Insulated air-termination rod for inner-routed isCon® conductor with side exit

GFK



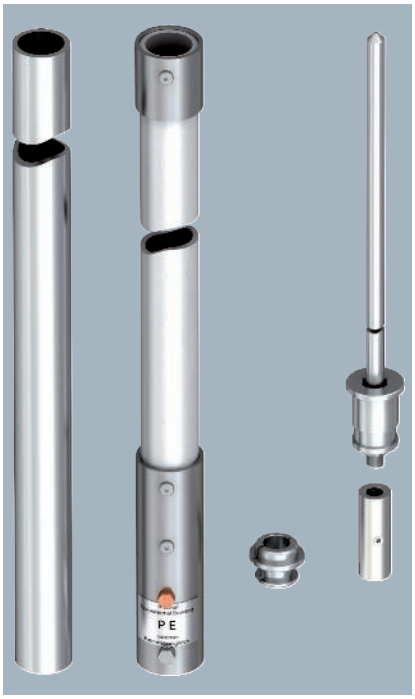
Type	Dim. D Ø mm	Dim. A mm	Dim. H mm	Dim. B mm	Length mm		Pack Piece	Weight kg/100 pc.	Item no.
isFang IN-A L4	50	1325	1500	1000	4000		1	535.000	**5408874**
isFang IN-A L6	50	3325	1500	1000	6000		1	835.741	**5408876**
isFang IN-A L8	50	5335	1500	1000	8000		1	1,385.741	**5408878**
isFang IN-A L10	50	6000	1733	2000	10000		1	1,540.741	**5408880**

- For routing OBO isCon® conductors in pipes
- For mounting on the building structure with isFang support
- Suitable for wind loads according to Eurocode 1: DIN EN 1991-1-4
- Tested according to VDE V 0185-561-8 (IEC TS 62561-8)



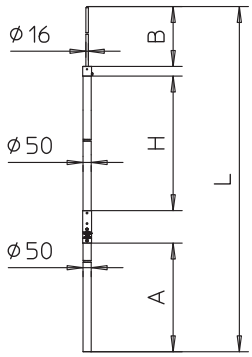
isFang, insulated air-termination rod for inner-routed isCon® conductor Professional Plus

GFK



Type	Dim. D Ø mm	Dim. A mm	Dim. H mm	Dim. B mm	Length mm		Pack Piece	Weight kg/100 pc.	Item no.
isFang IN 4000	50	1325	1500	1000	4000		1	535.000	**5408934**
isFang IN 6000	50	3325	1500	1000	6000		1	835.000	**5408936**
isFang IN 8000	50	5335	1500	1000	8000		1	1,315.000	**5408868**
isFang IN 10000	50	6000	1733	2000	10000		1	1,540.000	**5408870**

- For installation of the OBO isCon® Pro+ conductor in the pipe
- For mounting on the building structure with isFang support
- Suitable for wind loads according to Eurocode 1: DIN EN 1991-1-4
- Inclusive connection element (type isCon IN connect)
- Inclusive potential connection (type isCon In PAE)

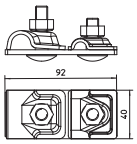


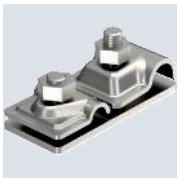
VA

Connection plate for one isCon® conductor

Type	Dimension	Pack Piece	Weight kg/100 pc.	Item no.
isCon AP1-16 VA	16x8-10mm	1	27.400	**5408026**

Connection plate to connect an isCon® conductor with air-termination rod Ø 16 mm, tested up to 150 kA (lightning protection class II)



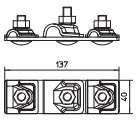


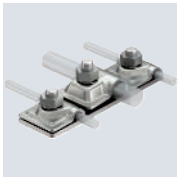
VA

Connection plate for two isCon® conductors

Type	Dimension	Pack Piece	Weight kg/100 pc.	Item no.
isCon AP2-16 VA	16x8-10mm	1	39.500	**5408028**

Connection plate to connect two isCon® conductors with air-termination rod Ø 16 mm, tested up to 150 kA (lightning protection class II)





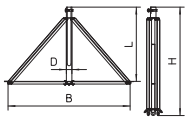
Tripod

VA

isFang tripod with side outlet

Type	Dim. B mm	Dim. D Ø mm	Dim. L mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
isFang 3B-100-A	1026	50	600	885	1	610.000	**5408930**
isFang 3B-150-A	1500	50	900	1275	1	950.000	**5408932**
isFang 3B-250-A	2900	50	1450	2055	1	2,500.000	**5408902**

- Screwless installation of freestanding air-termination rods as well as insulated air-termination rods with 50 mm diameter
- E.g. for internal OBO isCon® conductor
- Roof slope to max. 5 degrees
- Incl. Rd 8–10 crossbar for quick round conductor fastening
- Concrete plinths as well as threaded rods should be ordered separately



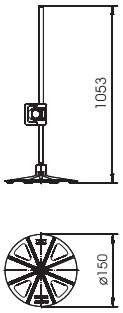


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Stand for FangFix Junior system

Alu



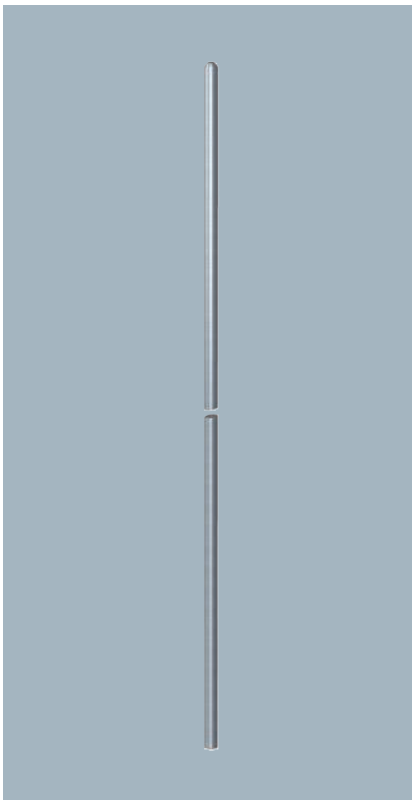


Type	Length mm	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
F-FIX-JUNIOR	1000	10	10	32.000	5403308

- Incl. aluminium air-termination rod 1,000 mm long (Ø 10 mm)
- Quick mounting of the air-termination rod in the base using plug technology
- With Vario quick connector 249

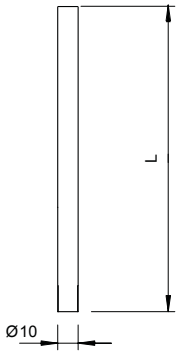
Air-termination rod for FangFix-Junior

Alu



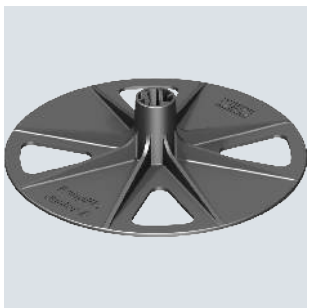
Type	Length mm	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 J1000	1000	10	10	21.800	5401970

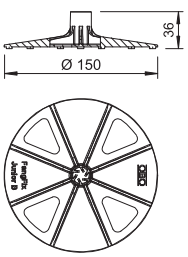
- Suitable for wind loads according to Eurocode 1: DIN EN 1991-1-4
- Ø 10 mm, aluminium
- Without thread
- Suitable for use in FangFix-Junior



Base for FangFix Junior

PP





Type	Pack Piece	Weight kg/100 pc.	Item no.
F-FIX-BASIS	10	3.790	5403324

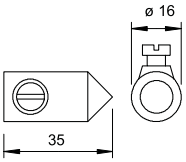
- For mounting Ø 10 mm air-termination rods up to an overall length of 1,000 mm
- Quick installation of air-termination rod in base using plug-in system
- Quick and easy installation

Zn G

Air-termination tip

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
120 A	Rd 8-10	10	2.500	**5405068**

- To be used for Rd 8–10 (corrosion protection)
- With cylinder bolt M6 x 10
- Made of die-cast zinc, bolts made of hot-galvanised steel



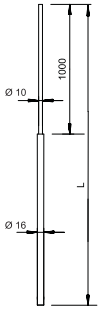


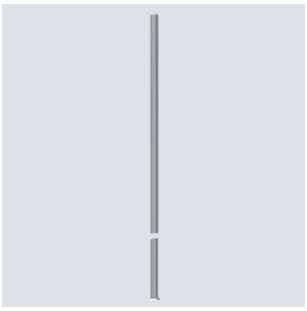
Alu

Tapered pipe air-termination rod

Type	Length mm	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 VL1500	1500	10/16	1	38.000	**5401980**
101 VL2000	2000	10/16	1	55.000	**5401983**
101 VL2500	2500	10/16	1	72.000	**5401986**
101 VL3000	3000	10/16	1	88.000	**5401989**
101 VL3500	3500	10/16	1	105.000	**5401993**
101 VL4000	4000	10/16	1	120.000	**5401995**

- Suitable for wind loads according to Eurocode 1: DIN EN 1991-1-4
- From a free length of > 2.5 m, an additional fastening, e.g. insulated spacer is recommended
- Last metre is tapered from Ø 16 mm to Ø 10 mm, material: AlMgSi
- Matches stand system FangFix





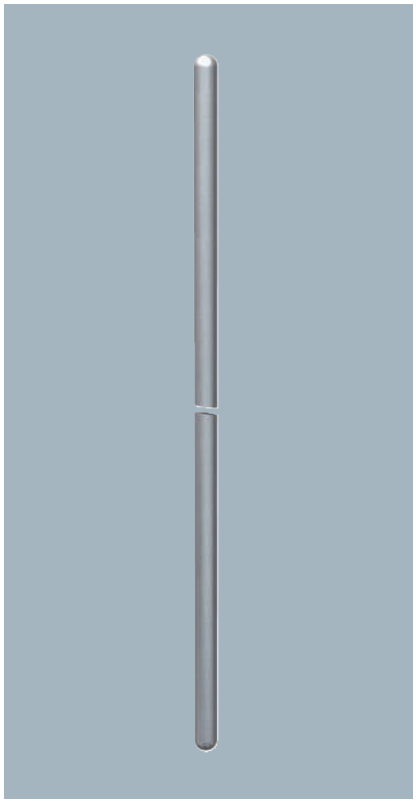
St FT

Air-termination/earth entry rod, rounded-off on both ends

Type	Length mm	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 A-1500	1500	16	1	240.000	**5400155**

- Full material Ø 16 mm
- Rounded on both ends
- Suitable for FangFix stand system

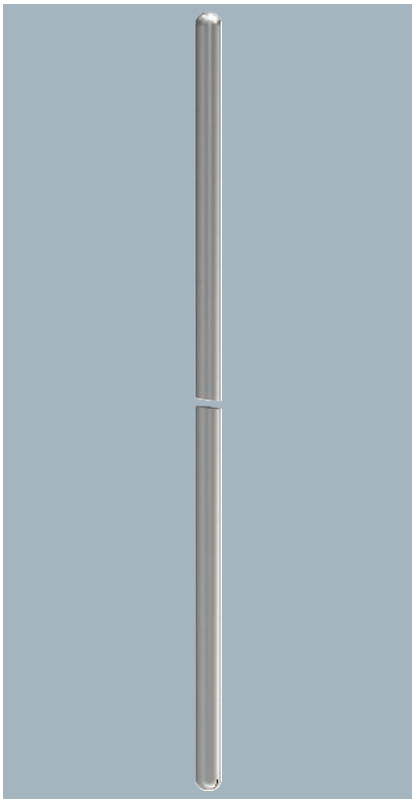




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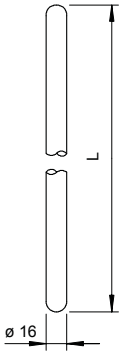
Air-termination/earth entry rod, rounded-off on both ends

VA



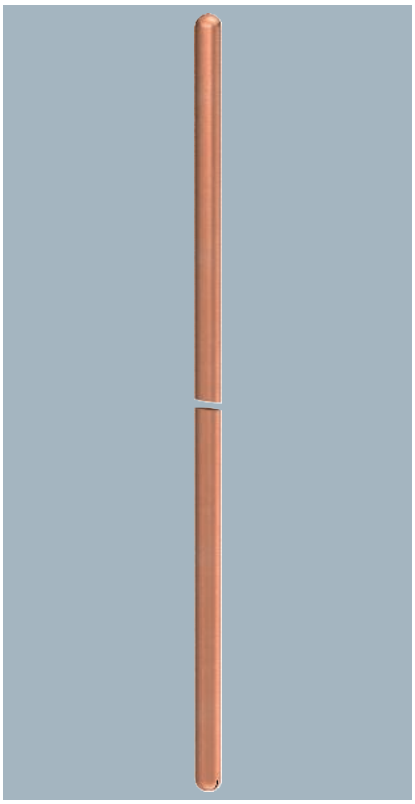
Type	Length mm	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
200 V4A-1500	1500	16	1	242.000	**5420504**
200 V4A-2000	2000	16	1	320.000	**5420539**

- Full material Ø 16 mm
- Both ends rounded



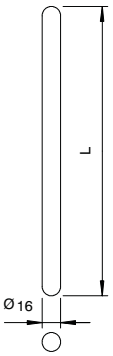
Air-termination/earth entry rod, rounded-off on both ends

Cu



Type	Length mm	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 A-CU	1500	16	1	272.100	**5400627**

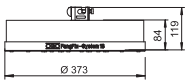
- Full material Ø 16 mm
- Both ends rounded



Stand for FangFix system, min. 16 kg

Type	Fit mm	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
F-FIX-16	Rd 8	373	1	1,715.000	**5403200**
F-FIX-16B	Rd 8	373	54	1,732.500	**5403205**

- System consisting of FangFix block with edge protection and clamp
- FangFix clamp made of VA; complies with the requirements of VDE 0185-305 (IEC 62305)
- Min. 16 kg block of Ø 365 mm, high level of stability
- Quick and easy installation of air-termination rod using anchors
- Frost-resistant concrete
- The FangFix block can be stacked
- Suitable for Ø 16 mm pipe air-termination rods

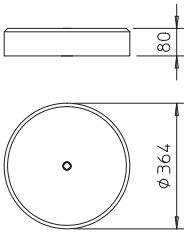




Concrete base for FangFix system, min. 16 kg

Type	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
F-FIX-S16	365	1	1,773.000	**5403227**

- Min. 16 kg block of Ø 365 mm, high level of stability
- Frost-resistant concrete
- Stackable



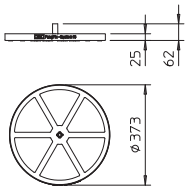


PP

Base for FangFix system 16 kg

Type	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
F-FIX-B16	373	10	16.400	**5403235**

Edge protection with integrated dowel (basic) suitable for FangFix system.

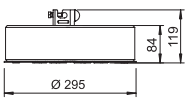




Stand for FangFix system, min. 10 kg

Type	Fit mm	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
F-FIX-10	Rd 8	295	1	1,058.000	**5403103**
F-FIX-10B	Rd 8	295	77	1,058.000	**5403110**

- System consists of FangFix block with base and clamp
- FangFix clamp made of VA; complies with the requirements of VDE 0185-305 (IEC 62305)
- Min. 10 kg block of Ø 289 mm, high level of stability
- Quick and easy installation of air-termination rod using anchors
- Frost-resistant concrete
- The FangFix stone can be stacked
- Suitable for Ø 16 mm pipe air-termination rods

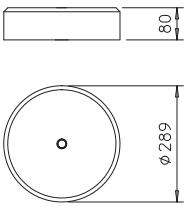




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Concrete base for FangFix system, min. 10 kg



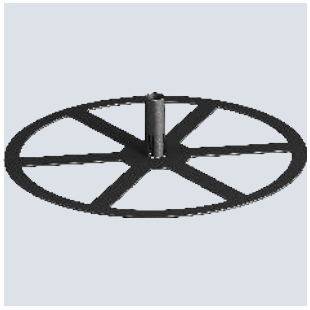


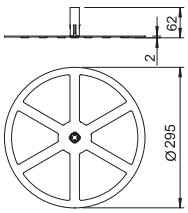
Type	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
F-FIX-S10	289	1	1,000.000	**5403117**

- Min. 10 kg block of Ø 289 mm, high level of stability
- Frost-resistant concrete
- Stackable

Base for FangFix system 10 kg

PP



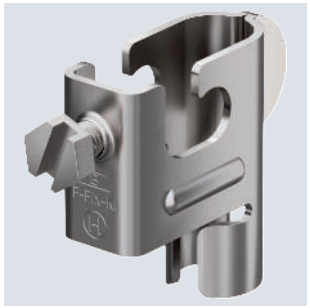


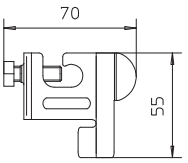
Type	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
F-FIX-B10	295	10	7.600	**5403124**

Edge protection with integrated dowel (basic) suitable for FangFix 10 kg system.

Terminal for FangFix system

VA





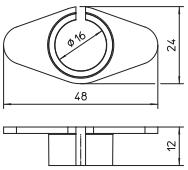
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
F-FIX-KL	Rd 8	5	8.700	**5403219**

- FangFix terminal, VA for RD 8 mm
- Tested with H (100 kA) to DIN EN 50164-1
- Round conductor installed on the air-termination rod with only one screw

FangFix reducing sleeve

PA





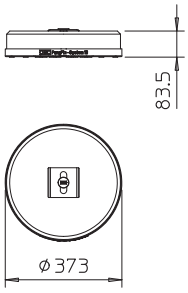
Type	Colour	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
101 RH-16	Black	16	25	0.187	**5408101**

Reduces the drill hole of the FangFix block from Ø 20 mm to Ø 16 mm. Suitable for the installation of GFK insulating rods of Ø 16 mm.

Stand - TrayFix set 16 L

Type	From tray width mm		Pack Piece	Weight kg/100 pc.	Item no.
TrayFix-16-L	100		1	1,700.000	**5403098**

- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof
- Matched to OBO cable tray systems MKSM and SKSM
- Matched to OBO mesh cable systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 16 kg.

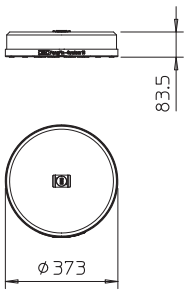




Stand - TrayFix set 16 S

Type	From tray width mm		Pack Piece	Weight kg/100 pc.	Item no.
TrayFix-16-S	100		1	1,700.000	**5403099**

- Mounting system for the fastening of mesh cable trays with the FangFix base, e.g. for cable routing on a flat roof
- Matches OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block incl. base for FangFix system 16 kg

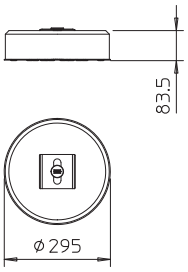




Stand - TrayFix set 10 L

Type	From tray width mm		Pack Piece	Weight kg/100 pc.	Item no.
TrayFix-10-L	100		1	1,100.000	**5403101**

- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof
- Matched to OBO cable tray systems MKSM and SKSM
- Matched to OBO mesh cable systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 10 kg

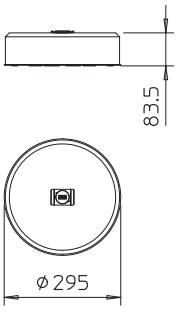




Stand - TrayFix set 10 S

Type	From tray width mm		Pack Piece	Weight kg/100 pc.	Item no.
TrayFix-10-S	100		1	1,000.000	**5403102**

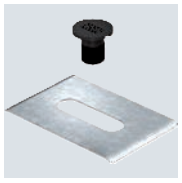
- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof
- Matches to OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 10 kg

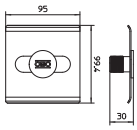




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TrayFix mounting adapter for mesh cable trays on FangFix system





Type	Dimension		Pack Piece	Weight kg/100 pc.	Item no.
TrayFix	ø20mm		25	9.850	**5403100**

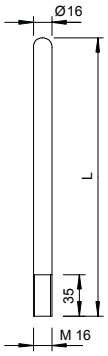
- Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone, e.g. cable routing on a flat roof
- Adapted to OBO cable tray systems MKSM, SKSM and IKSM
- Adapted to OBO mesh cable tray systems with a minimum width of 100 mm

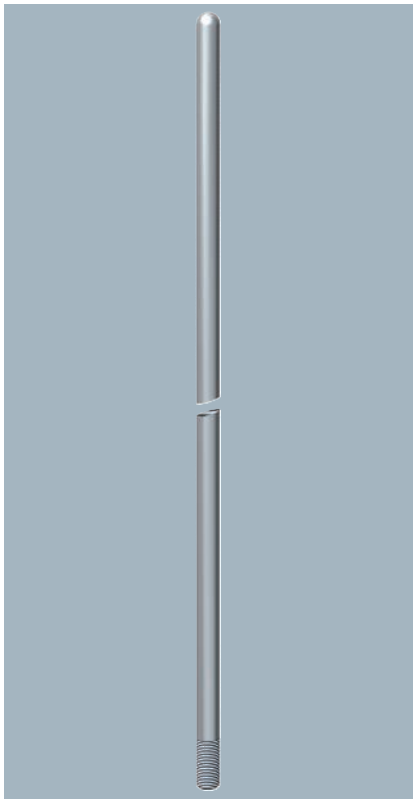
Alu

Air-termination rod, one end rounded, M16 thread

Type	Length mm	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 ALU-1000	1000	16	1	55.000	**5401771**
101 ALU-1500	1500	16	1	81.000	**5401801**
101 ALU-2000	2000	16	1	109.000	**5401836**
101 ALU-2500	2500	16	1	136.000	**5401852**
101 ALU-3000	3000	16	1	162.000	**5401879**

- Suitable for wind loads according to Eurocode 1: DIN EN 1991-1-4
- From a free length of > 2.5 m, an additional fastening, e.g. insulated spacer is recommended
- Ø 16 mm, aluminium
- For stand system with M16 internal thread



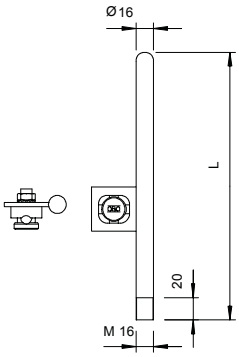


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Air-termination rod, one end rounded, M16 thread

Type	Length mm	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 A-L100	1000	16	1	160.000	**5402808**
101 A-L150	1500	16	1	240.000	**5402859**

- With thread M16 x 20
- With connecting strap
- Including pre-mounted connector type 5001 DIN for round conductor Rd 8-10
- For stands with female thread M16

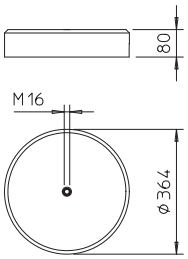




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Concrete base min. 16 kg with female thread

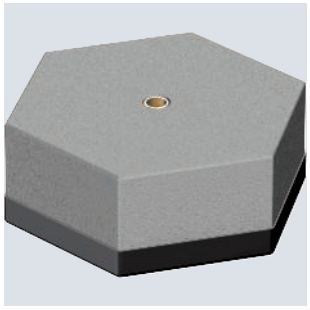


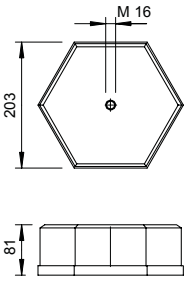


Type	Nominal size Ø mm	Thread		Pack Piece	Weight kg/100 pc.	Item no.
101 B2-16 M16	364	M16		1	1,600.000	**5402958**

- Weight min. 16 kg
- Frost-resistant concrete
- Female thread M16
- Recommended air-termination rod length max. 3.0 m, depending on wind load zone

Stand 6.9 kg with female thread



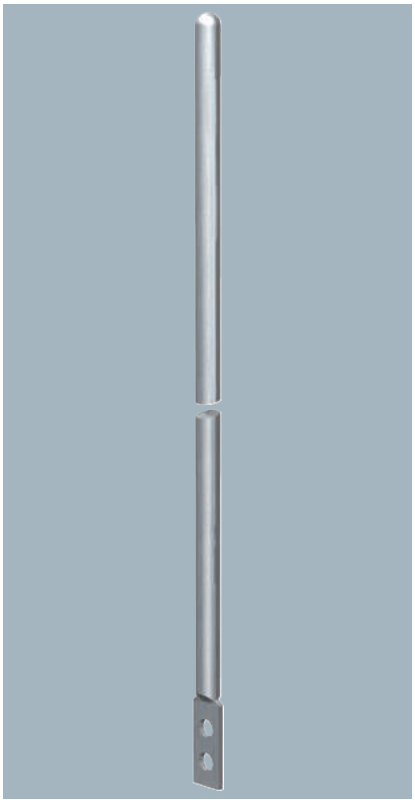


Type	Thread		Pack Piece	Weight kg/100 pc.	Item no.
101 ST	M16		4	690.000	**5402891**

- Weight 6.9 kg
- Frost-resistant concrete
- Female thread M16
- Recommended air-termination rod length max. 1.0 m

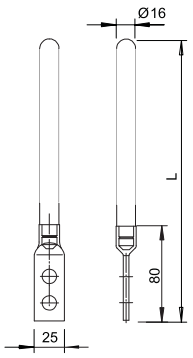
Air-termination/earth entry rod with connection tabs

St FT



Type	Length mm	Nominal size Ø mm		Pack Piece	Weight kg/100 pc.	Item no.
101 F1000	1000	16		1	160.000	**5424100**
101 F1500	1500	16		1	240.000	**5424151**
101 F2000	2000	16		1	320.000	**5424208**

- With 2 attaching holes Ø 12 mm
- One end rounded

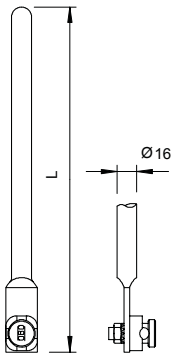


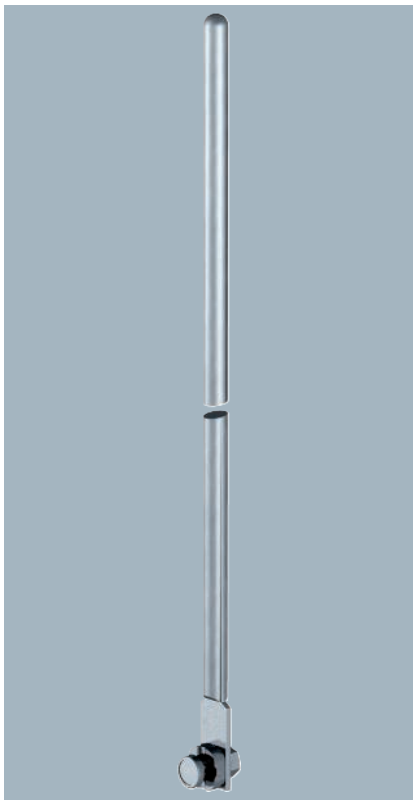
St FT

Air-termination/earth entry rod with connection tabs and connector

Type	Length mm	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 G1000	1000	16	1	164.300	**5402107**
101 G1500	1500	16	1	240.000	**5402158**

- 1 attaching hole Ø 12 mm
- With pre-mounted conductor for Rd 8-10
- One end rounded





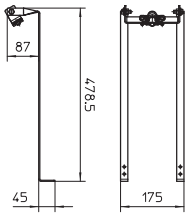
VA

Air-termination rod holder for sloping roof

Type	Pack Piece	Weight kg/100 pc.	Item no.
SD-Fix	1	81.000	**5403335**

Stand system: rod holder for sloping roofs, for simple, quick and secure fastening of Ø 16 mm air-termination rods.

- System consists of a bracket made of V2A stainless steel
- Quick and easy mounting
- Adjustable angle
- In the case of high air-termination rods (> 1 m), additional fastening with insulated spaces is necessary





VA

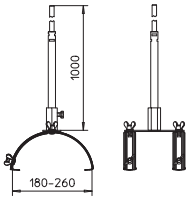
Air-termination rod holder for ridge tiles

Type	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
F-FIX-132	110	1	62.000	**5403330**
F-Fix-132-300	300	1	78.000	**5403333**

Rod holder for ridge tiles, for simple, quick and safe fastening of Ø 16 mm air-termination rods

- System consisting of holder made of V2A stainless steel and aluminium air-termination rods
- Quick and easy mounting thanks to pre-mounted air-termination rod
- Air-termination rod length: 1,000 mm
- Width adjustable between 180–260 mm
- Spacing of the ridge holders: 110 mm (5403330)
- Spacing of the ridge holders: 300 mm (5403333)

Application: To protect roof structures such as photovoltaic and TV/SAT systems.



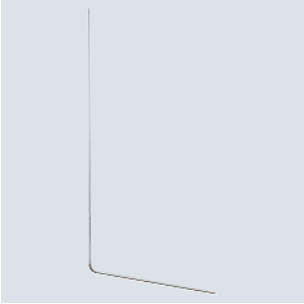


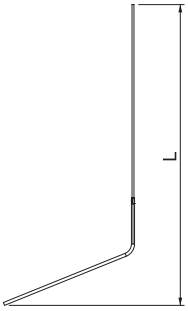
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Air-termination rods

Angled air-termination rod for PV frames

Alu



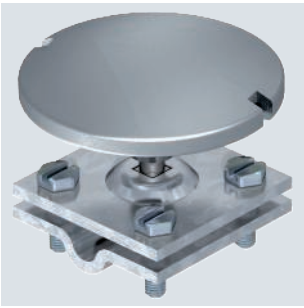


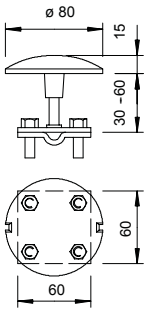
Type	Length mm	Nominal size Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 VL2000 112	2000	10/16	10	110.000	**5401950**

- Suitable for wind loads according to Eurocode 1: DIN EN 1991-1-4
- Last metre is tapered from Ø 16 mm to Ø 10 mm, material: AlMgSi
- Angled to 112°

Mushroom-shaped air-termination with connectors

St FT



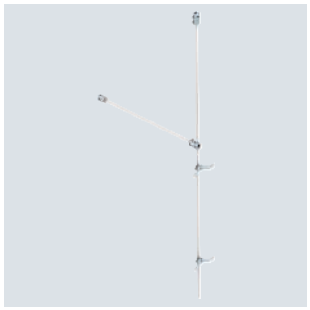


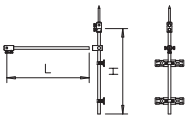
Type	Fit mm	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
128 F	Rd 8-10/ FL30	80	5	40.000	**5405769**

- Mushroom-shaped air-termination from aluminium
- With pre-mounted cross-piece and hexagonal bolt M8 x 25, hot-dip galvanised steel
- For round conductor Rd 8-10 and flat conductor FL 30

Insulated lightning protection sets

Insulated lightning protection set, 3-corner fastening



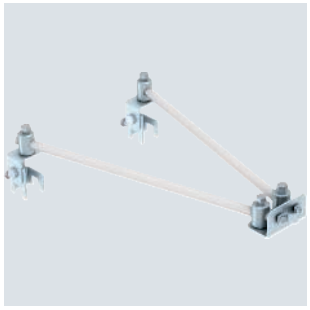


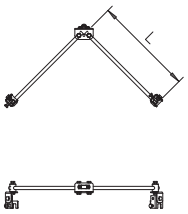
Type	Dim. D Ø mm	Dim. L mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
101 3-ES-16	16	750	1500	1	207.100	**5408976**

3-corner fastening for an insulated air-termination unit at the separating distance s.

- Mounting on walls and roof structures with two fastening plates
- For maintenance of the separation distance to electrically conductive parts according to VDE 0185-305-3 (IEC 62305-3)
- Acceptance of air-termination rods and round conductors with 8, 16 and 20 mm diameter
- UV-stabilised and weatherproof
- Continuous temperature range -50 °C to +100 °C
- Material factor km = 0.7

Insulated lightning protection set, IR fastening



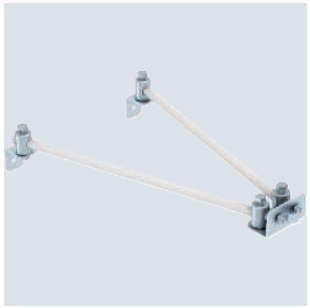


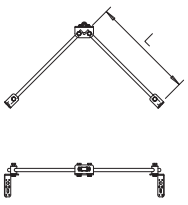
Type	Dim. D Ø mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
101 FS-16	16	750	1	235.500	**5408980**

Fold fastening for an insulated air-termination unit at the separating distance s.

- Mounting on folds with a thickness of up to 20 mm
- For maintenance of the separation distance to electrically conductive parts according to VDE 0185-305-3 (IEC 62305-3)
- Acceptance of air-termination rods and round conductors with 8, 16 and 20 mm diameter
- UV-stabilised and weatherproof
- Continuous temperature range -50 °C to +100 °C
- Material factor km = 0.7

Insulated lightning protection set, V fastening



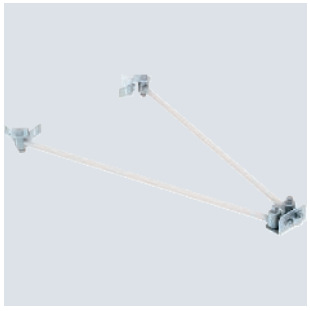


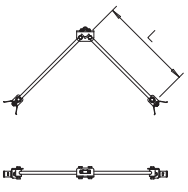
Type	Dim. D Ø mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
101 VS-16	16	750	1	201.800	**5408978**

V fastening for an insulated air-termination unit at the separating distance s.

- Mounting on walls and roof structures with two wall connection brackets
- For maintenance of the separation distance to electrically conductive parts according to VDE 0185-305-3 (IEC 62305-3)
- Acceptance of air-termination rods and round conductors with 8, 16 and 20 mm diameter
- UV-stabilised and weatherproof
- Continuous temperature range -50 °C to +100 °C
- Material factor km = 0.7

Insulated lightning protection set, VRS fastening





Type	Dim. D Ø mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
101 VRS-16	16	750	1	209.400	**5408982**

Pipe V fastening for an insulated air-termination unit at the separating distance s.

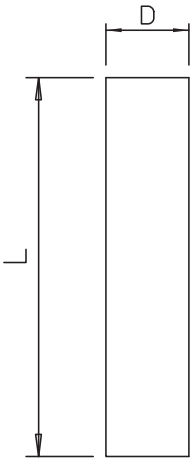
- Mounting on pipes with two pipe clips
- Including 2 m tightening strip and tension jack
- For maintenance of the separation distance to electrically conductive parts according to VDE 0185-305-3 (IEC 62305-3)
- Acceptance of air-termination rods and round conductors with 8, 16 and 20 mm diameter
- UV-stabilised and weatherproof
- Continuous temperature range -50 °C to +100 °C
- Material factor km = 0.7

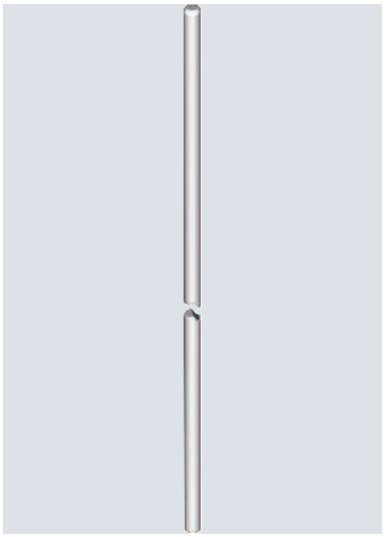
GFK

Insulating rod

Type	Nominal size Ø mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
101 20-3000	20	3000	5	190.000	**5408105**
101 20-6000	20	6000	5	380.000	**5408148**
101 16-750	16	750	5	30.000	**5408107**
101 16-1500	16	1500	5	60.000	**5408108**
101 16-3000	16	3000	5	120.000	**5408109**

- For the erection of insulated air-termination systems to VDE 0185-305 (IEC 62305)
- UV-stabilised and weatherproof
- Continuous temperature range -50 °C to +100 °C
- Material factor km = 0.7



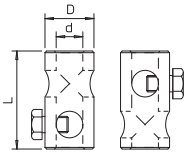


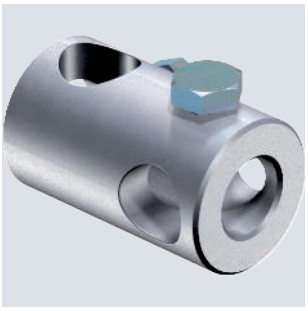
Alu

T connector

Type	Dimension d Ø mm	Length mm	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 IT	20	65	40	10	16.120	**5408156**
101 IT-16	16	60	30	10	11.475	**5408158**

- T connector for installation of insulating rods
- With M10 bolts



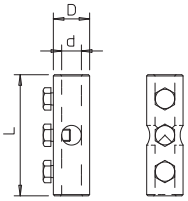


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K connector

Type	Dimension d Ø mm	Length mm	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 IK	20	100	40	10	20.000	**5408296**
101 IK-16	16	100	30	10	17.500	**5408298**

- K connector for installation of insulating rods
- With M10 bolts



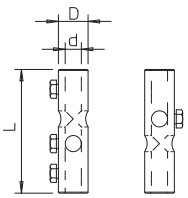


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DK connector

Type	Dimension d Ø mm	Length mm	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 IDK	20	125	40	10	35.300	**5408245**

- DK connector link for installing insulating rods
- With M10 bolts



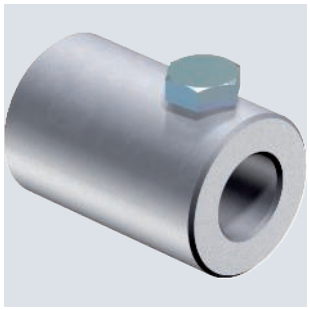


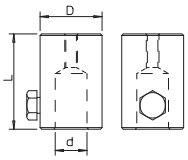
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Insulated lightning protection sets

Wall connection

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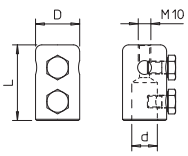
Type	Dimension d Ø mm	Length mm	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 IW-M10	20	60	40	10	20.000	**5408687**
101 W-16	16	60	30	10	14.200	**5408689**

- For mounting insulating rods to structures or walls
- With M8 internal thread, e.g. for mounting the cable bracket type 177 (5207347) for loose conductor routing of round conductors
- Incl. M10 bolts

End piece

Alu





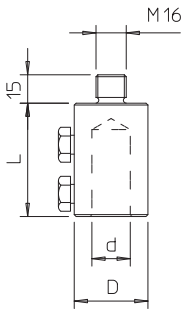
Type	Dimension d Ø mm	Length mm	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 IES	20	60	35	10	20.000	**5408393**
101 IES-16	16	60	30	10	10.000	**5408395**

- End piece for attaching round conductors Rd 8-10 and air-termination tips, type 101 ISP
- With M10 internal thread, e.g. for mounting a Vario quick connector for fixed conductor routing at intersections
- With M10 bolts

Connection piece

Alu





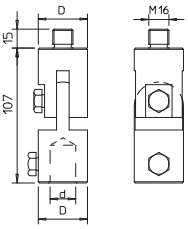
Type	Dimension d Ø mm	Length mm	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 A-M16	20	60	40	10	20.000	**5408350**
101 A-16	16	60	30	10	13.000	**5408352**

- Fitting with M16 thread
- For mounting on stands with M16 female thread such as type 101 (5402891,5402958)
- With M10 bolts

Connection joint

Alu





Type	Dimension d Ø mm	Length mm	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 IAG	20	107	40	10	40.000	**5408504**

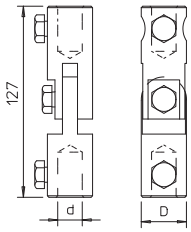
- Attaching link for installation on concrete stones
- With thread M16 on slanting roof surfaces
- With M10 bolts

Alu

Articulated connector

Type	Dimension d Ø mm	Length mm	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 IGL-16	16	127	30	10	32.000	**5408630**

Link for installation of insulation pipes, including M10 screws.



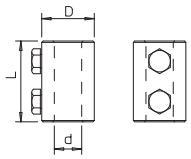


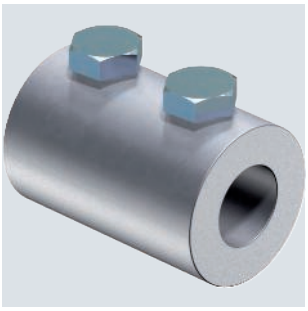
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Extension

Type	Dimension d Ø mm	Length mm	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
101 IV-16	16	60	30	10	16.000	**5408557**

- Extension of insulating rods
- With M10 bolts

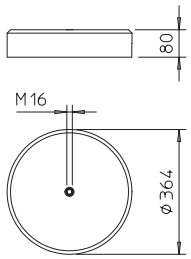




Concrete base min. 16 kg with female thread

Type	Nominal size Ø mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
101 B2-16 M16	364	M16	1	1,600.000	**5402958**

- Weight min. 16 kg
- Frost-resistant concrete
- Female thread M16
- Recommended air-termination rod length max. 3.0 m, depending on wind load zone

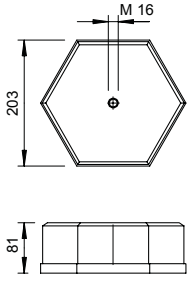


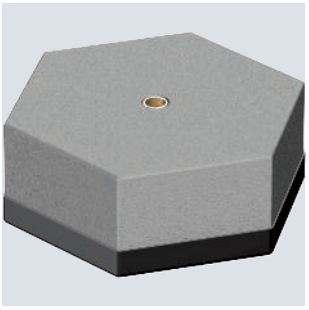


Stand 6.9 kg with female thread

Type	Thread	Pack Piece	Weight kg/100 pc.	Item no.
101 ST	M16	4	690.000	**5402891**

- Weight 6.9 kg
- Frost-resistant concrete
- Female thread M16
- Recommended air-termination rod length max. 1.0 m



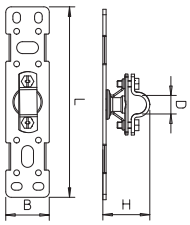


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Insulated lightning protection sets

Fastening plate





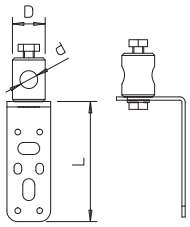
Type	Dim. L mm	Dim. B mm	Dim. D Ø mm	Dim. H mm		Pack Piece	Weight kg/100 pc.	Item no.
101 BP-16	175	40	16	42		1	21.200	**5408984**

- To mount insulating rods on constructions or walls
- Plate made of VA stainless steel
- Holder and crosspiece for 16 and 20 mm rods and Rd 8–10 mm

Wall connection, angled

VA





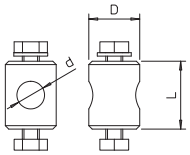
Type	Dimension d Ø mm	Dim. L mm	Dim. D Ø mm		Pack Piece	Weight kg/100 pc.	Item no.
101 WG-16	16	110	30		1	27.960	**5408986**

- Wall connection for GFK rods
- Dimension D Ø: 16 mm

Fastening bolts

Alu





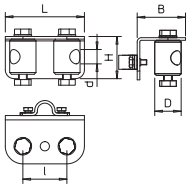
Type	Dimension d Ø mm	Dim. L mm	Dim. D Ø mm		Pack Piece	Weight kg/100 pc.	Item no.
101 BB-16	16	40	30		1	13.920	**5408988**

- For GFK rods
- Dimension D Ø: 16 mm

Holder, V support

VA





Type	Dimension d Ø mm	Dim. L mm	Dim. H mm	Dim. B mm		Pack Piece	Weight kg/100 pc.	Item no.
101 HV-16	16	90	55	48		1	50.700	**5408990**

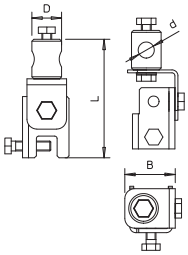
- Rod holder to accept two GRP rods
- Bracket and crossbar for 16 and 20 mm rods and Rd 8-10 mm

VA

Fold fastening

Type	Dimension d Ø mm	Dim. L mm	Dim. D Ø mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
101 F-16	16	121	30	51	1	45.120	**5408992**

- To fasten a GFK rod on constructions of 4 to 20 mm
- Dimension D Ø: 16 mm



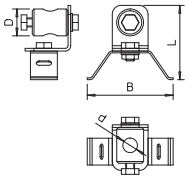


VA

Pipe fastening

Type	Dimension d Ø mm	Dim. L mm	Dim. D Ø mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
101 R-16	16	81	30	96	1	26.830	**5408994**

- For pipe fastening of a GRP rod using a tightening strap
- Slot width (l x w) 17 x 6 mm



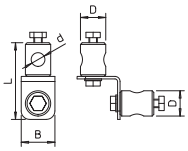


VA

Multi adapter

Type	Dimension d Ø mm	Dim. L mm	Dim. D Ø mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
101 MA-16	16	91	30	40	1	36.280	**5408996**

- Connector for two GFK rods
- Dimension D Ø: 16 mm



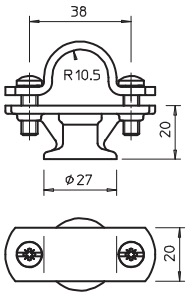


Zn

Rod holder, 20 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 Z-20	Rd 20	20	8.200	**5230527**

- Installed with over-piece and hex-head screws M6 x 16
- With female thread M8 or through hole Ø 7 mm





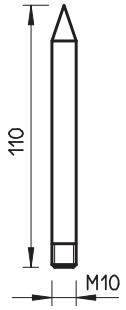
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Insulated lightning protection sets

Air-termination tip

Alu



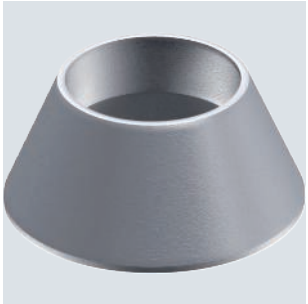


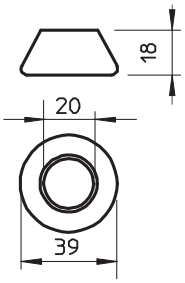
Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
101 ISP M10	110	10	10.000	**5408458**

Air-termination tip for attaching to end piece, type 101 IES, with M10 thread

Water repellent

Alu





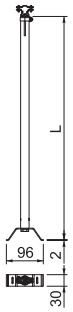
Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
101 IAB	18	10	2.000	**5408733**

Water repellent for mounting on insulation rods with d = 20 mm

Adjustable insulating beam – pipe

GFK





Type	Pack Piece	Weight kg/100 pc.	Item no.
ISAV1000R	1	130.000	**5408849**

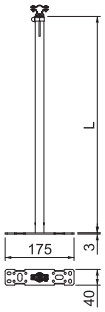
Variable spacer for conductors and air-termination rods to maintain the separation distance.

- Infinitely adjustable distance range (L = 550–1,000 mm)
- Made of fibre-glass-reinforced plastic (km = 0.7)
- For pipe mounting (including 2 m tightening strap and tension jack)

Adjustable insulating beam – wall

GFK





Type	Pack Piece	Weight kg/100 pc.	Item no.
ISAV1000W	1	130.000	**5408852**

Variable spacer for conductors and air-termination rods to maintain the separation distance.

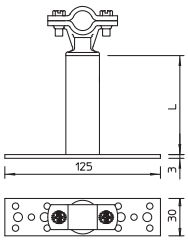
- Infinitely adjustable distance range (L = 550–1,000 mm)
- Made of fibre-glass-reinforced plastic (km = 0.7)
- For wall mounting with 10 fastening holes (4.2 mm) and 4 fastening holes (6.9 mm)

Alu PA

Insulated spacer

Type	Length mm	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
ISO-A-150 8	150	Rd 8	15	13.800	**5408800**
ISO-A-500	500	Rd 16	1	36.000	**5408806**
ISO-A-800	800	Rd 16	1	55.000	**5408814**
ISO-A-1030	1030	Rd 16	1	68.000	**5408820**

- Mounting foot with 10 connection holes Ø 6.5 mm and 4 connection holes Ø 8.5 mm
- Type ...150 8 with holder suitable for round conductor RD 8
- Application for shelters, e.g. golf, barbecue or mountain huts

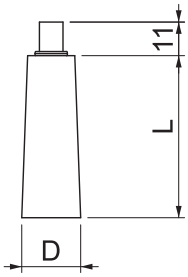




Spacer

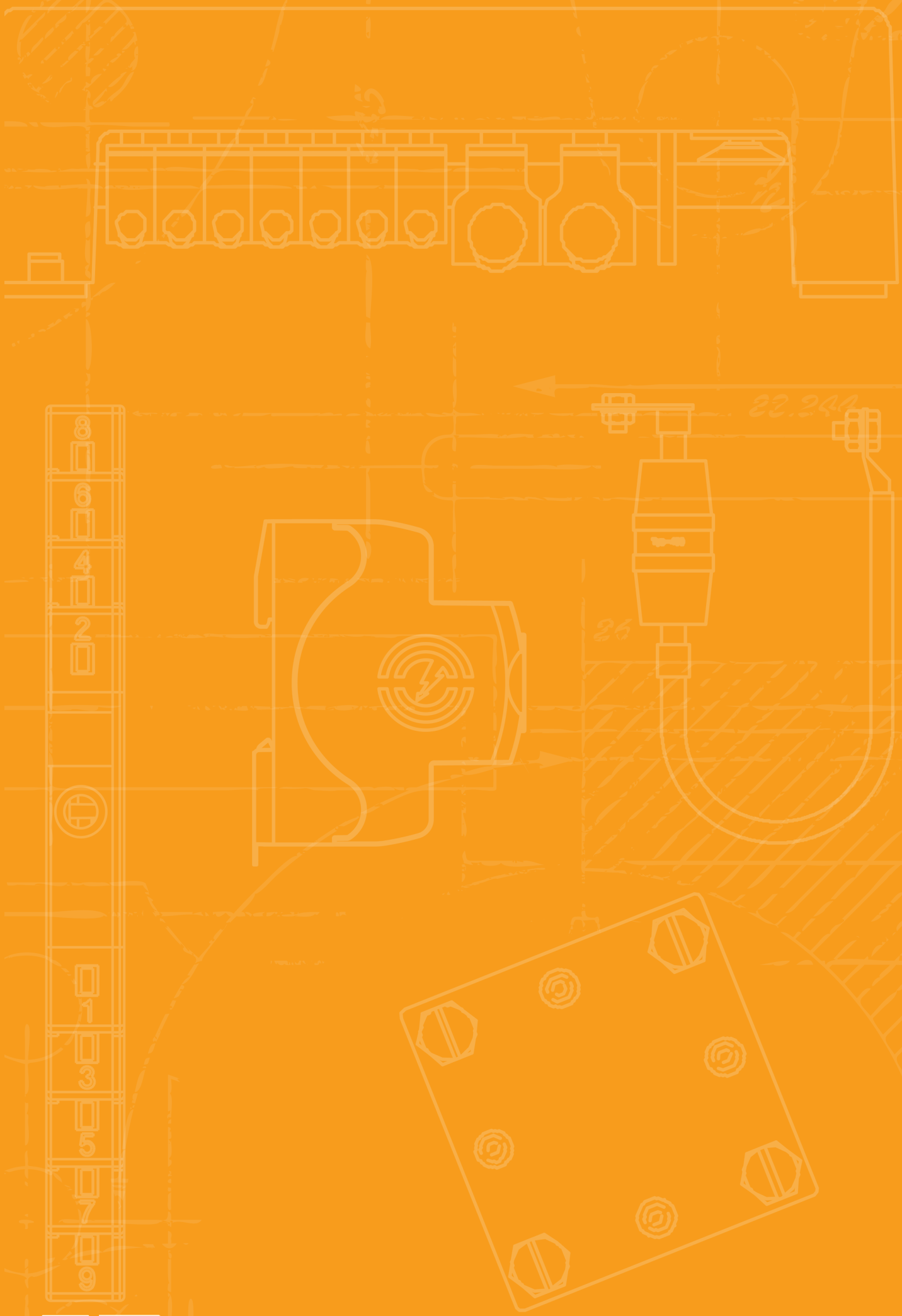
Type	Dimension	Pack Piece	Weight kg/100 pc.	Item no.
196 55	55mm	20	1.840	**5207541**

Grey plastic extension for M8 thread, e.g. to mount cable brackets





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Roof cable holders and cable brackets



Roof cable holders 152



Cable brackets 168

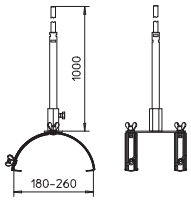
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Roof conductor holders, ridge

Air-termination rod holder for ridge tiles

VA





Type	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
F-FIX-132	110	1	62.000	**5403330**
F-Fix-132-300	300	1	78.000	**5403333**

Rod holder for ridge tiles, for simple, quick and safe fastening of Ø 16 mm air-termination rods

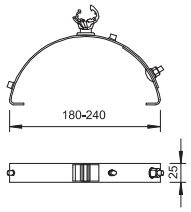
- System consisting of holder made of V2A stainless steel and aluminium air-termination rods
- Quick and easy mounting thanks to pre-mounted air-termination rod
- Air-termination rod length: 1,000 mm
- Width adjustable between 180–260 mm
- Spacing of the ridge holders: 110 mm (5403330)
- Spacing of the ridge holders: 300 mm (5403333)

Application: To protect roof structures such as photovoltaic and TV/SAT systems.

Roof cable holder for ridge tiles, 180–240 mm, Rd 8–10

St FT





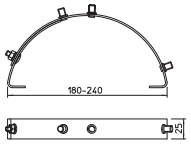
Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
132 N-DK	Rd 8-10	20	20	19.700	**5202566**

- Adjustable from 180–240 mm
- With conductor 177/20, polyamide, grey
- With 3 M8 threaded nipples for positioning the holder

Roof conductor holder for ridge tiles with M8 threaded bolts

St FT





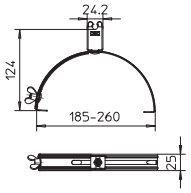
Type	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
132 GB-M8	20	20	18.700	**5202568**

- Adjustable from 180–240 mm
- With conductor 177/20, polyamide, grey
- With 3 M8 threaded nipples for positioning the holder

Roof conductor holder for ridge tiles, 185–260 mm, Rd 8

VA





Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
132 VA 35	Rd 8	35	20	13.700	**5202836**

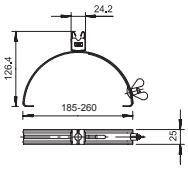
- Adjustable width from 185-260 mm
- Fast installation using wing screw

VA

Roof conductor holder for ridge tiles, 185–260 mm, Rd 8

Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
132 VA	Rd 8	20	20	12.900	**5202833**

- Adjustable width from 185-260 mm
- Fast installation using wing screw



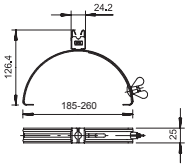


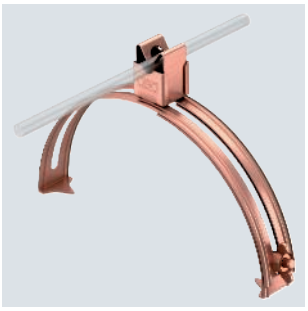
Cu

Roof conductor holder for ridge tiles, 185–260 mm, Rd 8

Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
132 CU	Rd 8	20	10	13.400	**5202868**

- Adjustable width from 185-260 mm
- Fast installation using wing screw



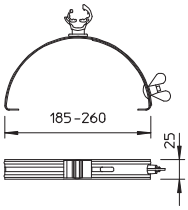


VA

Roof conductor holder for ridge tiles, 185–260 mm, Rd 8–10

Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
132 K-VA	Rd 8-10	20	20	10.900	**5202515**

- Adjustable width from 185-260 mm
- Bottom part made of non-rusting stainless steel (V2A)
- Infinitely adjustable conductor holder
- Conductor holder of polyamide
- Fast installation using wing screw



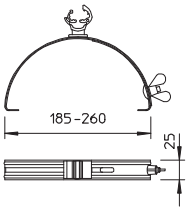


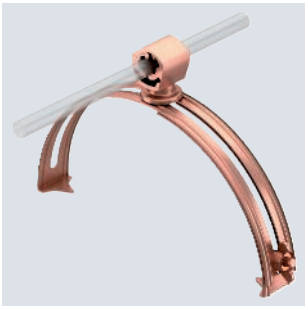
Cu

Roof conductor holder for ridge tiles, 185–260 mm, Rd 8–10

Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
132 K-CU	Rd 8-10	20	10	11.600	**5202590**

- Adjustable width from 185-260 mm
- Bottom part made of copper
- Infinitely adjustable conductor holder
- Conductor holder of polyamide
- Fast installation using wing screw



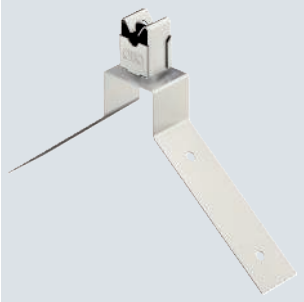


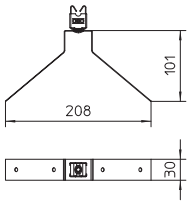
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Roof conductor holders, ridge

Roof conductor holder for ridge tiles, metal roofs, Rd 8

VA





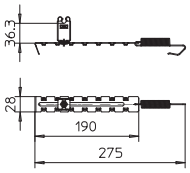
Type	Fit mm	Installation height mm		Pack Piece	Weight kg/100 pc.	Item no.
132 P VA	Rd 8	20		20	8.420	**5202510**

- For round conductors Rd 8
- Suitable for metal roofs

Ridge conductor holder with tensioning spring

VA





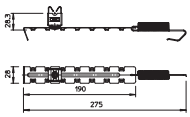
Type	Fit mm	Installation height mm		Pack Piece	Weight kg/100 pc.	Item no.
132 U 35	RD 8	35		20	6.800	**5203018**

- For round conductor Rd 8
- Clamping range 280-380 mm

Ridge conductor holder with tensioning spring

VA



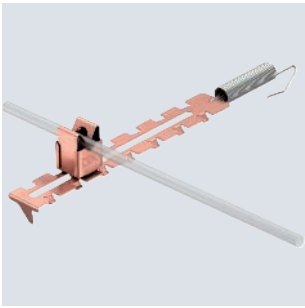


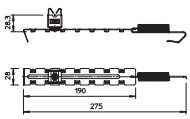
Type	Fit mm	Installation height mm		Pack Piece	Weight kg/100 pc.	Item no.
132 U	RD 8	20		20	6.000	**5203015**

- For round conductor Rd 8
- Clamping range 280-380 mm

Ridge conductor holder with tensioning spring

VA Cu





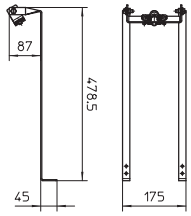
Type	Fit mm	Installation height mm		Pack Piece	Weight kg/100 pc.	Item no.
132 U-CU	RD 8	20		10	0.600	**5203023**

- For round conductor Rd 8
- Clamping range 280-380 mm

VA

Air-termination rod holder for sloping roof

Type	Pack Piece	Weight kg/100 pc.	Item no.
SD-Fix	1	81.000	**5403335**





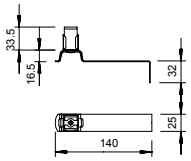
Stand system: rod holder for sloping roofs, for simple, quick and secure fastening of Ø 16 mm air-termination rods.

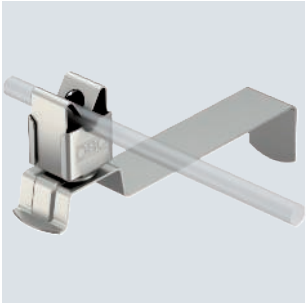
- System consists of a bracket made of V2A stainless steel
- Quick and easy mounting
- Adjustable angle
- In the case of high air-termination rods (> 1 m), additional fastening with insulated spaces is necessary

Alu

Roof conductor holder for tiled roofs, angled, Rd 8

Type	Fit mm	Installation height mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
157 FX-AL	Rd 8	26.5	140	20	3.900	**5215875**



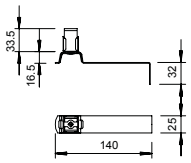


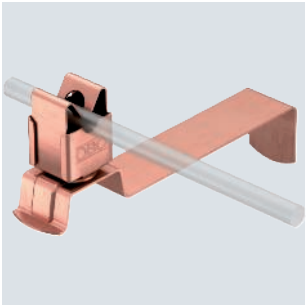
- With flexible bottom section from aluminium for matching to roof tiles (easy to flex)
- Holder from stainless steel (V2A)
- Curved bottom section for quick installation

Cu

Roof conductor holder for tiled roofs, angled, Rd 8

Type	Fit mm	Installation height mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
157 FX-CU	Rd 8	26.5	140	10	7.500	**5215879**



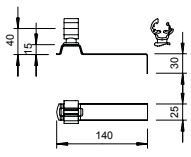


- With flexible bottom section from copper for matching to roof tiles (easy to flex)
- Holder from copper plated stainless steel (V2A)
- Curved bottom section for quick installation

VA

Roof conductor holder for tiled roofs, angled, Rd 8–10

Type	Fit mm	Installation height mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
157 IK-VA	Rd 8-10	40	140	20	7.150	**5215668**





- Conductor holder of polyamide
- Curved bottom strip for quick installation

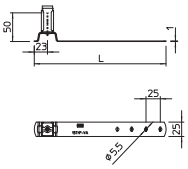
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Roof conductor holders, tiled roofs

Roof conductor holder for tiled roofs, Rd 8

VA



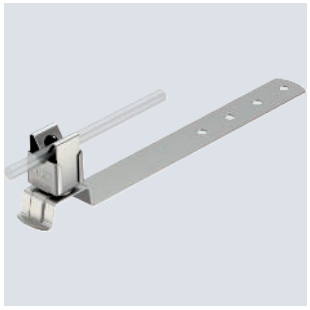


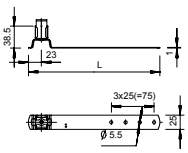
Type	Fit mm	Installation height mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
157 F-VA 230 35	Rd 8	50	230	20	8.300	**5215555**
157 F-VA 280 35	Rd 8	50	280	20	9.700	**5215582**

- Conductor holder from stainless steel (V2A)
- Including drill hole in bottom section for quick installation

Roof conductor holder for tiled roofs, Rd 8

VA



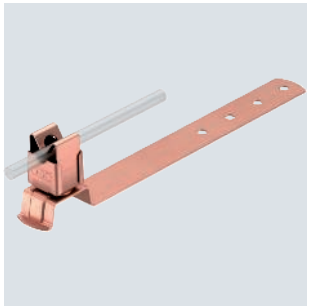


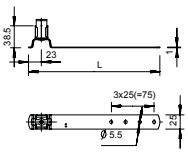
Type	Fit mm	Installation height mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
157 F-VA 230	Rd 8	38.5	230	20	8.350	**5215552**
157 F-VA 280	Rd 8	38.5	280	20	10.170	**5215579**
157 F-VA 410	Rd 8	38.5	410	20	14.880	**5215595**

- Conductor holder from stainless steel (V2A)
- Including drill hole in bottom section for quick installation

Roof conductor holder for tiled roofs, Rd 8

Cu





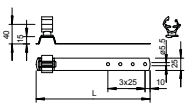
Type	Fit mm	Installation height mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
157 F-CU 230	Rd 8	38.5	230	10	10.300	**5216192**
157 F-CU 280	Rd 8	38.5	280	10	11.100	**5216206**
157 F-CU 410	Rd 8	38.5	410	10	14.500	**5216257**

- Conductor holder from copper plated stainless steel (V2A)
- Including drill hole in bottom section for quick installation

Roof conductor holder for tiled roofs, Rd 8–10

VA





Type	Fit mm	Installation height mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
157 FK-VA 230	Rd 8-10	40	230	20	7.800	**5215544**
157 FK-VA 280	Rd 8-10	40	280	20	10.170	**5215587**
157 FK-VA 410	Rd 8-10	40	410	20	10.250	**5215609**

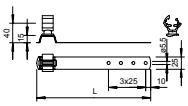
- Conductor holder of polyamide
- Including drill hole in bottom section for quick installation

Cu

Roof conductor holder for tiled roofs, Rd 8–10

Type	Fit mm	Installation height mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
157 FK-CU 230	Rd 8-10	40	230	10	8.800	**5216184**
157 FK-CU 280	Rd 8-10	40	280	10	9.600	**5216214**

- Conductor holder of polyamide
- Including drill hole in bottom section for quick installation



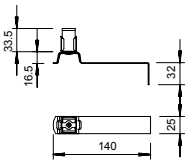


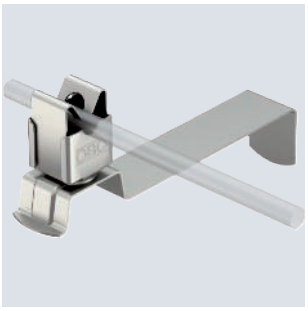
VA

Roof conductor holder for tiled roofs, angled, Rd 8

Type	Fit mm	Installation height mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
157 I-VA	Rd 8	26.5	140	20	7.150	**5215625**

- Conductor holder high-grade stainless steel (V2A)
- Curved bottom strip for quick installation



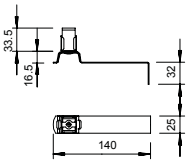


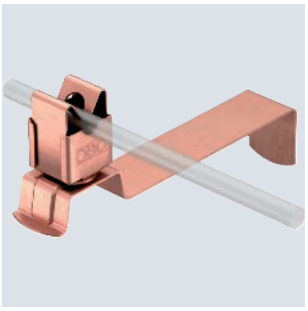
Cu

Roof conductor holder for tiled roofs, angled, Rd 8

Type	Fit mm	Installation height mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
157 I-CU	Rd 8	26.5	140	10	7.800	**5215749**

- Conductor holder copper plated high-grade stainless steel (V2A)
- Curved bottom strip for quick installation





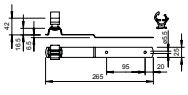
Roof conductor holders, slated roofs

VA

Roof conductor holder for slated roofs, crimped, Rd 8–10

Type	Fit mm	Installation height mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
157 EK-VA	Rd 8-10	42	265	20	7.800	**5215838**

- Conductor holder of polyamide
- With Ø 5.5 mm drill hole



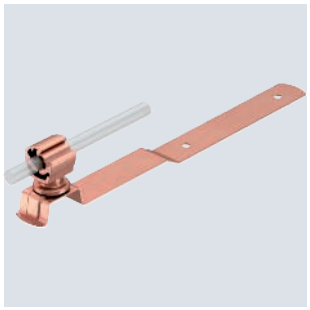


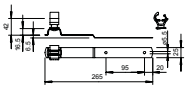
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Roof conductor holders, slated roofs

Roof conductor holder for slated roofs, crimped, Rd 8–10

Cu



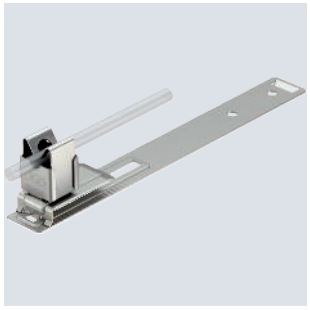


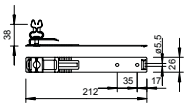
Type	Fit mm	Installation height mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
157 EK-CU	Rd 8-10	42	265	10	8.800	**5215854**

- Conductor holder of polyamide
- With Ø 5.5 mm drill hole

Roof conductor holder for slated roofs, Rd 8

VA



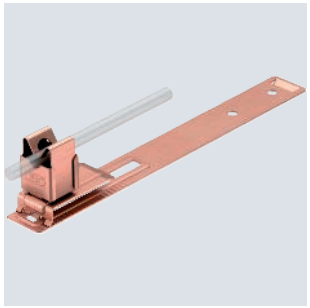


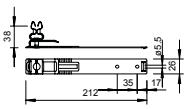
Type	Fit mm	Installation height mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
157 L-VA	Rd 8	32	212	20	8.000	**5215439**

- With Ø 5.5 mm drill hole and beading

Roof conductor holder for slated roofs, Rd 8

Cu





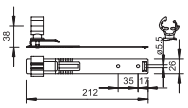
Type	Fit mm	Installation height mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
157 L-CU	Rd 8	32	212	10	9.900	**5215471**

- With Ø 5.5 mm drill hole and beading

Roof conductor holder for slated roofs, Rd 8–10

VA





Type	Fit mm	Installation height mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
157 LK-VA	Rd 8-10	38	212	20	8.000	**5215374**

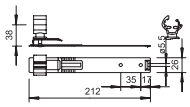
- With Ø 5.5 mm drill hole and beading
- Conductor holder of polyamide

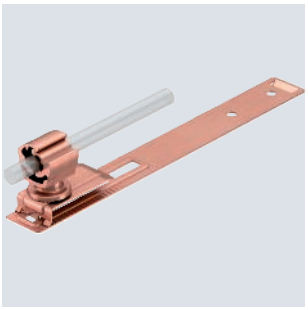
Cu

Roof conductor holder for slated roofs, Rd 8–10

Type	Fit mm	Installation height mm	Length mm		Pack Piece	Weight kg/100 pc.	Item no.
157 LK-CU	Rd 8-10	38	212		10	8.400	**5215382**

- With Ø 5.5 mm drill hole and beading
- Conductor holder of polyamide



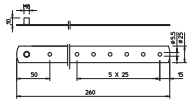


VA

Roof conductor holder for slated roofs

Type	Fit mm	Installation height mm	Length mm		Pack Piece	Weight kg/100 pc.	Item no.
157 GB-M8	Rd 8-10	27	260		20	5.000	**5202569**

- With Ø 5.5 mm drill hole
- With 3 M8 threaded nipples for positioning the holder





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Type 165 MBG 8-10
Roof conductor holder

For both Ø 8 and 10 mm round wire



Now with larger base for green (living) flat roofs

Mounting of any round conductor of Ø 8 mm or Ø 10 mm

UV-stabilised and weather-resistant closed shape with base

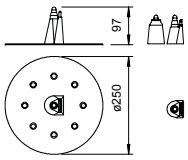
Can be used on almost all roofing felt systems

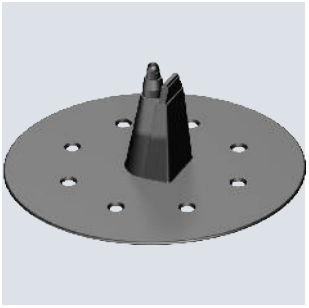
PA

Roof penetration

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
330 K	Rd 8-16/ FL20 u. FL30	5	14.400	**5201101**

- For round conductors 8-10, air-termination rods 16 mm
- Flat conductors 20 mm/30 mm
- Colour: Black, UV-resistant
- For penetration and sealing of roofs



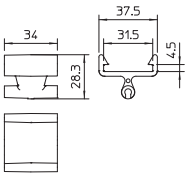


PP

Flat conductor adapter for roof conductor holder, type 165/MBG

Type	Colour	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
165 MBG HFL	Black	FL 30x3,5	12	0.658	**5218885**

- Flat conductor holder FL 30 x 3.5 mm
- For fastening to 165/MBG in fit Rd 8



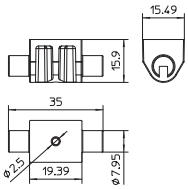


PP

Universal flat conductor adapter for roof conductor holder, type 165/MBG

Type	Colour	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
165 MBG UH	Black	Rd 8	25	0.254	**5218882**

- Universal adapter with drill hole Ø 2.5 mm
- E.g. for OBO Golden Sprint screw, type 4758 4 x L (L = depending on application)
- For fastening to 165/MBG



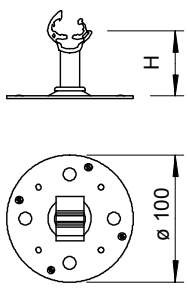


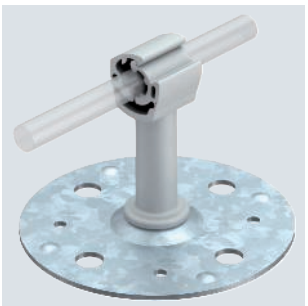
PA

Roof conductor holder 55 mm

Type	Fit mm	Dim. H mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
165 NBK 55	Rd 8-10	55	100	75	13.540	**5218314**

- Suitable for bonding straight to flat roofs
- Conductor holder of polyamide
- Bottom section, hot-dip galvanised steel
- Bottom section Ø 100 mm

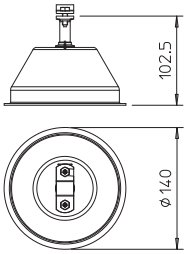




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Roof conductor holder for flat roofs, with raised cable bracket





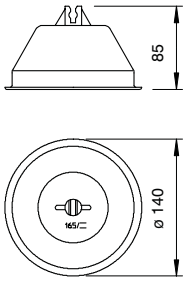
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
165 KRB SO	Rd 8-10	9	120.000	**5218977**

- Filling weight 1 kg (frost-resistant concrete)
- With conductor holder, type 168 DIN-K
- Die-cast zinc conductor holder, electrogalvanised
- Polyethylene sleeve, black

Roof conductor holder for flat roofs, only plastic sleeve

PE



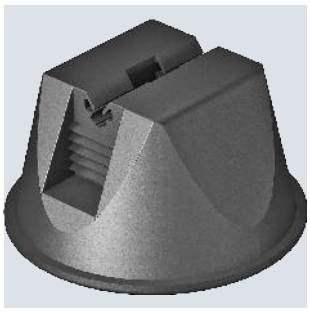


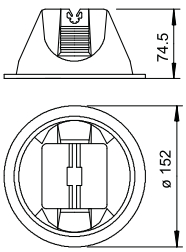
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
165 KR	Rd 8	50	5.449	**5218861**

- For self-filling with concrete
- Potential filling weight: approx. 1.3 kg
- Sleeve from polyethylene, black

Roof conductor holder for flat roofs, without base

PE





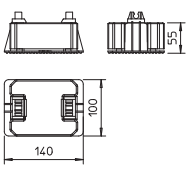
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
165 OBG-8	Rd 8	12	100.000	**5218683**

- Without bottom
- With double conductor holder
- Filling weight 1 kg (frost-resistant concrete)
- Sleeve from polyethylene, black

Roof conductor holder for flat roofs

PE





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
165 R-8-10	Rd 8-10	10	106.000	**5218997**

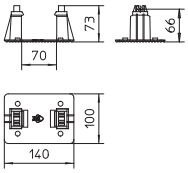
- For round conductors Rd 8–10
- With polyethylene plastic holder, black
- Block made of frost-resistant concrete
- Weight 1 kg
- Block can be split into plastic and concrete (recyclable)

PE

Roof conductor holder, for plastic film roofs

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
165 R-8-10 OBG	Rd 8-10	100	6.760	**5218999**

- For flat roofs
- For round conductors Rd 8 to 10
- Polyethylene plastic holder, light grey
- For clamping in roof strips
- When installing round conductors, expansion elements are to be used for thermal compensation



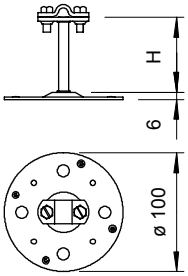


St FT

Roof conductor holder, suitable for direct bonding

Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
165 B 60	Rd 8-10	60	50	26.100	**5218810**

- With conductor holder and bottom section, hot-dip galvanised steel
- Bottom section Ø 100 mm



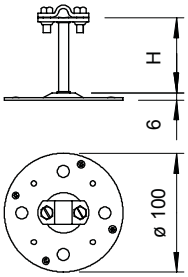


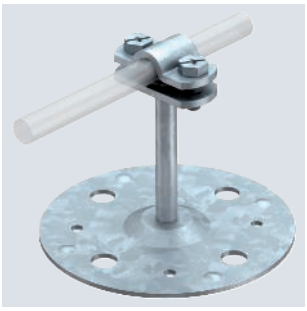
St FT

Roof conductor holder, suitable for direct bonding

Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
165 B 100	Rd 8-10	100	50	27.700	**5218829**

- With conductor holder and bottom section, hot-dip galvanised steel
- Bottom section Ø 100 mm



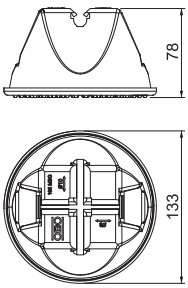


PA/ PE

Roof conductor holder for flat roofs, black

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
165 MBG-6SO	Rd 6	12	106.000	**5218780**
165 MBG-8-10	Rd 8-10	12	97.220	**5218700**
165 MBG-8-10 FO	Rd 8-10	12	100.000	**5218704**

- Closed form with base
- With double conductor holder
- Filling weight 1 kg (frost-resistant concrete)
- Sleeve made of polyethylene, black, bottom polypropylene, black
- Base made of polyamide PA 6, black, UV-stabilised and weather-resistant
- Base can be used on almost all roofing felt systems (bitumen, PVC)
- Types 165 MBG...FO: Packed in foil bag





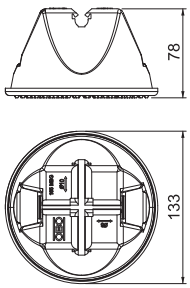
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Roof conductor holders, flat roofs

Roof conductor holder for flat roofs, grey

PA/PE





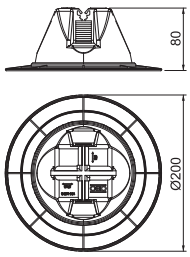
Type	Fit mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
165 MBG-8-10 GR	Rd 8-10	Grey	12	100.000	**5218708**

- Closed form with base
- With double conductor holder
- Filling weight 1 kg (frost resistant concrete)
- Case made from polyethylene, light grey, UV-stabilised and weatherproof
- Base made from polyamide PA 6, light grey, UV-stabilised and weatherproof
- Base suitable for nearly all roofing membrane systems (bitumen, PVC)

Roof conductor holder for flat roofs, with increased base section

PA/PE

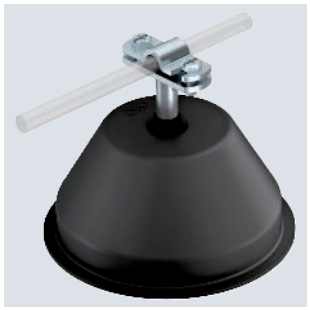


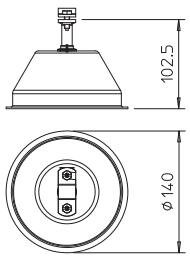


Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
165 MBG-8-10 200	Rd 8-10	12	100.000	**5218716**

- DIN 48829 Form B 1
- Closed form with bottom
- With double conductor holder
- Filling weight 1 kg (frost-resistant concrete)
- Sleeve from polyethylene, black, bottom polypropylene, black
- With larger bottom section (Ø 200 mm) for improved stability

Roof conductor holder for flat roofs, with raised cable bracket





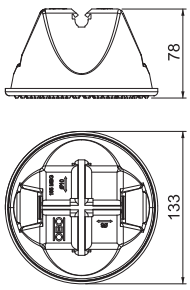
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
165 KRB-I	FL 30	9	144.000	**5218888**

- Filling weight 1.3 kg (frost-resistant concrete)
- With cable holder, type 168 DIN 30
- Die-cast zinc cable holder, electrogalvanised
- Polyethylene sleeve, black

Roof conductor holder for flat roofs, black

PE





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
165 MBL-8-10	Rd 8-10	100	7.679	**5218616**

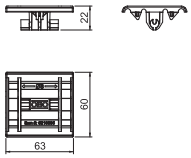
- Closed form with base
- With double conductor holder
- Filling weight 1 kg (frost-resistant concrete)
- Sleeve made of polyethylene, black, bottom polypropylene, black
- Base made of polyamide PA 6, black, UV-stabilised and weather-resistant
- Base can be used on almost all roofing felt systems (bitumen, PVC)
- Types 165 MBG...FO: Packed in foil bag

PP

Mesh cable tray adapter for roof conductor holder, type 165 MBG 8-10

Type	Colour	Fit mm		Pack Piece	Weight kg/100 pc.	Item no.
165 MBG HGRM	Black	Rd 8		50	1.340	**5218886**

- Adapter for GR-Magic® mesh cable trays with a mesh width of 50 mm or 20 mm
- For fastening to type 165 MBG 8-10
- Mounting without tools





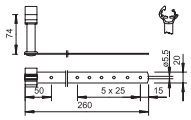
Roof conductor holders for tiled, slated, corrugated roofs

VA

Roof conductor holder for tiled and slated roofs

Type	Fit mm	Installation height mm	Length mm		Pack Piece	Weight kg/100 pc.	Item no.
157 ND-VA	Rd 8-10	74	260		20	6.000	**5215307**

- High roof conductor holder: 74 mm
- With perforation Ø 5.5 mm
- Polyamide cable bracket



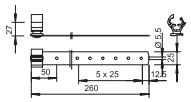


VA

Roof conductor holder for tiled and slated roofs

Type	Fit mm	Installation height mm	Length mm		Pack Piece	Weight kg/100 pc.	Item no.
157 NB-VA	Rd 8-10	27	260		20	6.000	**5215277**

- With Ø 5.5 mm drill hole
- Conductor holder of polyamide



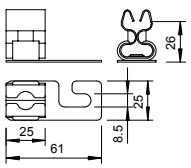


VA

Roof conductor holder for tiled, slated and corrugated roofs, Rd 8

Type	Fit mm	Installation height mm		Pack Piece	Weight kg/100 pc.	Item no.
159 VA-V	Rd 8	21		20	3.900	**5217075**

- Bottom section and conductor holder stainless steel (V2A)
- Bottom section with Ø 8.5 mm slot



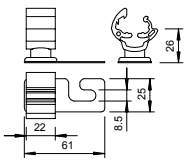


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Roof conductor holder for tiled, slated and corrugated roofs, Rd 8–10

VA





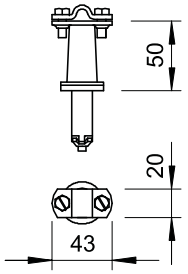
Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
159 K-VA	Rd 8-10	21	20	2.540	**5216818**

- Bottom section stainless steel (V2A)
- Bottom section with Ø 8.5 mm slot
- Conductor holder of polyamide

Roof conductor holder for tiled, slated and corrugated roofs, with crossbar

PA





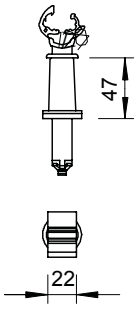
Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
133 A	Rd 8-10	50	20	8.217	**5202248**

- With weatherproof clamping collar from soft PVC
- Required drill hole Ø = 16 mm
- Spacer from polyamide, grey

Roof conductor holder for tiled, slated and corrugated roofs, with cable bracket

PA





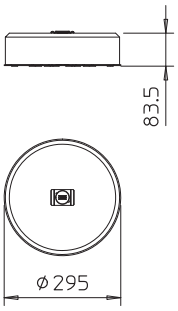
Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
133 NB	Rd 8-10	67	20	4.338	**5202213**

- With weather-proof clamping collar from soft-PVC
- Required drill hole Ø = 16 mm
- Spacer and conductor holder from polyamide, grey

Stand - TrayFix set 10 S

Type	From tray width mm		Pack Piece	Weight kg/100 pc.	Item no.
TrayFix-10-S	100		1	1,000.000	**5403102**

- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof
- Matches to OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 10 kg

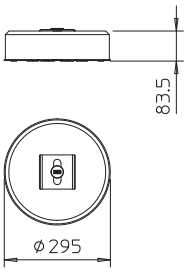




Stand - TrayFix set 10 L

Type	From tray width mm		Pack Piece	Weight kg/100 pc.	Item no.
TrayFix-10-L	100		1	1,100.000	**5403101**

- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof
- Matched to OBO cable tray systems MKSM and SKSM
- Matched to OBO mesh cable systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 10 kg

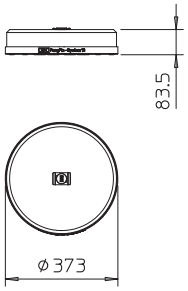




Stand - TrayFix set 16 S

Type	From tray width mm		Pack Piece	Weight kg/100 pc.	Item no.
TrayFix-16-S	100		1	1,700.000	**5403099**

- Mounting system for the fastening of mesh cable trays with the FangFix base, e.g. for cable routing on a flat roof
- Matches OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block incl. base for FangFix system 16 kg

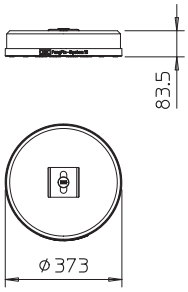


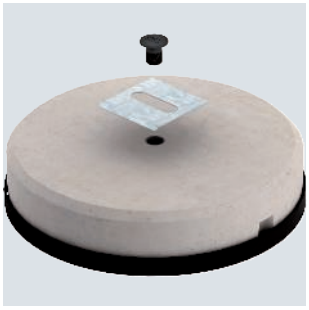


Stand - TrayFix set 16 L

Type	From tray width mm		Pack Piece	Weight kg/100 pc.	Item no.
TrayFix-16-L	100		1	1,700.000	**5403098**

- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof
- Matched to OBO cable tray systems MKSM and SKSM
- Matched to OBO mesh cable systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 16 kg.





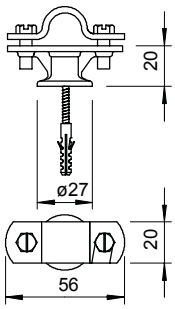
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Holder for air-termination and earth entry rods

Rod holder, 16 mm, with screw and anchor

Zn Cu





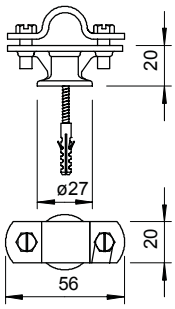
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 B-HD-16	Rd 16	100	10.100	**5412811**

- For lightning and ground insertion rods Rd 16
- Installed with over-piece and hexagonal bolts M6 x 16 (VA)
- Female thread M8 for screwing and through hole for wood screws
- Pre-mounted with wood screw 5 x 60 and plastic dowels 8 x 40

Rod holder, 16 mm, with screw and anchor

Zn





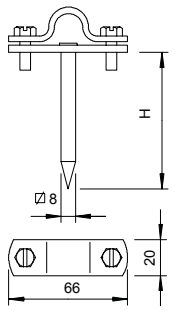
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 B-Z-HD	Rd 16	100	6.000	**5412803**

- For lightning and ground insertion rods Rd 16
- Installed with over-piece and hexagonal bolts M6 x 16 (VA)
- Female thread M8 for screwing and through hole for wood screws
- Pre-mounted with wood screw 5 x 60 and plastic dowels 8 x 40

Rod holder, 16 mm, with square pin

St F





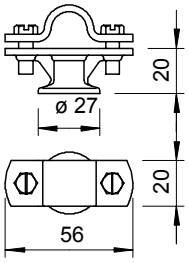
Type	Fit mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
112 DIN-100	Rd 16	100	10	12.412	**5410096**

- For lightning and ground insertion rods
- Over-piece with 2 hexagonal bolts M6 x 16 (VA)
- With square pin

Rod holder, 16 mm

Zn Cu





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 ZN-16	Rd 16	10	10.100	**5412633**

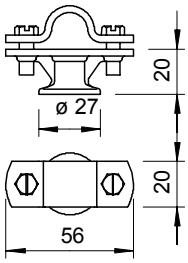
- For lightning and ground insertion rods Rd 16
- Installed with over-piece and hex-head screws M6 x 16
- With female thread M8 or through hole Ø 7 mm

Zn

Rod holder, 16 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 Z-16	Rd 16	10	6.000	**5412609**

- For lightning and ground insertion rods Rd 16
- Installed with over-piece and hex-head screws M6 x 16
- With female thread M8 or through hole Ø 7 mm



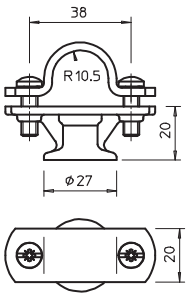


Zn

Rod holder, 20 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 Z-20	Rd 20	20	8.200	**5230527**

- Installed with over-piece and hex-head screws M6 x 16
- With female thread M8 or through hole Ø 7 mm





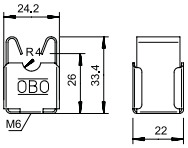
Screwless cable brackets

VA

Cable bracket for Rd 8 mm, through-way Ø 7 mm

Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
177 20 VA M8	Rd 8	20	20	1.838	**5207347**

- With female thread M8 or through hole Ø 5 mm
- From stainless steel (V2A)



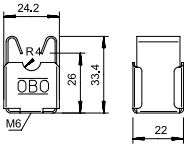


VA

Cable bracket for Rd 8 mm, through-way Ø 5 mm

Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
177 20 VA M6	Rd 8	20	20	2.500	**5207339**

- With female thread M6 or through hole Ø 5 mm
- From stainless steel (V2A)



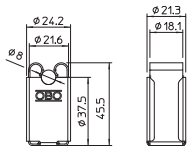


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Cable bracket, raised construction type, for Rd 8 mm, through-way Ø 5 mm

VA





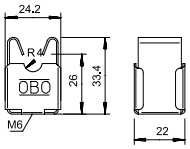
Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
177 35 VA M6	Rd 8	35	20	2.680	**5207342**

- With female thread M6 or through hole Ø 5 mm
- From stainless steel (V2A)

Cable bracket for Rd 8 mm, through-way Ø 5 mm, copper-plated

VA Cu





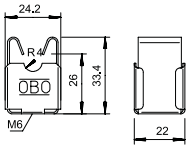
Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
177 20 VA-VK M6	Rd 8	20	20	2.500	**5207800**

- With female thread M6 or through hole Ø 5 mm
- From stainless steel (V2A)
- VA-VK: copper-plated

Cable bracket for Rd 8 mm, through-way Ø 7 mm, copper-plated

VA Cu





Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
177 20 VA-VK M8	Rd 8	20	20	1.900	**5207819**

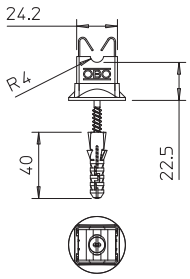
- With female thread M8 or through hole Ø 5 mm
- From stainless steel (V2A)
- VA-VK: copper-plated

VA

Cable bracket for Rd 8 mm, fastening with screw and anchor

Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
177 20 VA B-HD	Rd 8	20	50	2.900	**5207901**

- With female thread M8 or through hole Ø 5 mm
- From stainless steel (V2A)
- With pre-mounted wood screws (5 x 60) and plastic dowels (8 x 40)



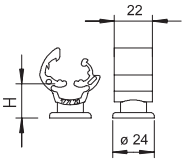


PA

Cable bracket Rd 8–10 mm with pre-mounted wood screw

Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
177 B-HD20	Rd 8-10	20	50	1.930	**5207851**
177 B-HD30	Rd 8-10	30	50	1.503	**5207878**

- With female thread M8 for screwing and through hole for wood screws
- For round conductor Rd 8-10
- Weather and temperature-resistant from -35 °C to +90 °C
- With pre-mounted wood screws (5 x 60) and plastic dowels (8 x 40)



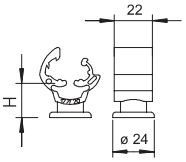


PA

Cable bracket Rd 8–10 mm

Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
177 20 M8	Rd 8-10	20	20	0.723	**5207444**
177 30 M8	Rd 8-10	30	20	0.790	**5207460**
177 55 M8	Rd 8-10	55	20	1.007	**5207487**

- With female thread M8 or through hole Ø 7 mm
- Weather and temperature-resistant from -35 °C to +90 °C



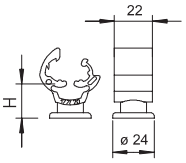


PA

Cable bracket Rd 8–10 mm, copper-plated

Type	Fit mm	Installation height mm	Pack Piece	Weight kg/100 pc.	Item no.
177 20 CU	Rd 8-10	20	10	0.718	**5207746**
177 30 CU	Rd 8-10	30	10	0.784	**5207754**
177 55 CU	Rd 8-10	55	10	1.450	**5207762**

- With female thread M8 for screwing and through hole for wood screws
- Colour: copper
- Weather and temperature-resistant from -35 °C to +90 °C





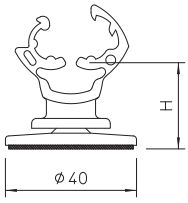
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Universal cable brackets

Cable bracket, Rd 8–10 mm with bonding base

PA





Type	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
177 20 KL	25	50	1.239	**5207451**

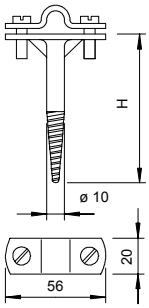
- For bonding to concrete, steel or smooth substrates
- Not suitable for rough surfaces such as plaster, wood, bitumen strips
- Processing at > +15 °C and on cleaned substrate
- When installing flat conductors and round conductors, expansion elements are to be used for thermal compensation
- Use on film roofs after consultation with the responsible roof construction company

Cable bracket with crossbar

Cable bracket Rd 8–10 mm, with wood screw thread

TG F





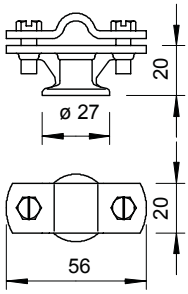
Type	Fit mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
176 A 65	Rd 8-10	65	50	9.536	**5227070**
176 A 80	Rd 8-10	80	50	10.025	**5227089**
176 A 100	Rd 8-10	100	50	11.500	**5227100**
176 A 150	Rd 8-10	150	20	13.100	**5227151**

- Also for flat conductor to FL 30
- With wood screw thread
- Bottom section, hot-dip galvanised cast iron
- Over-piece and screws, hot dipped galvanised steel

Cable bracket Rd 8–10 mm with wood screw, plastic anchor

Zn Cu





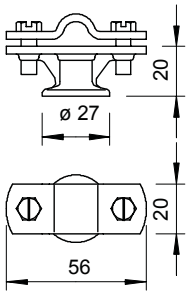
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 B-MS-HD 8-10	Rd 8-10	100	7.280	**5230365**

- With female thread M8 or through hole Ø 7 mm
- Over-piece installed with 2 hexagonal bolts
- Version HD with wood screws (5 x 60) and plastic dowels (8 x 40)

Cable bracket Rd 8–10 mm with wood screw, plastic anchor

Zn





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 B-Z-HD	Rd 8-10	100	6.580	**5230322**

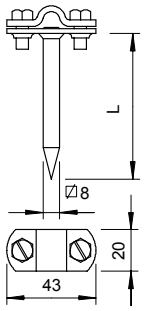
- With female thread M8 or through hole Ø 7 mm
- Over-piece installed with 2 hexagonal bolts
- Version HD with wood screws (5 x 60) and plastic dowels (8 x 40)

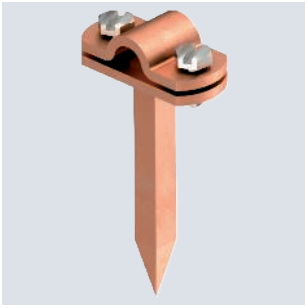
Cu

Cable bracket Rd 8–10 mm, with square pin, copper-plated

Type	Fit mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
163 100 CU	Rd 8-10	100	10	10.840	**5223601**

- Complete with crossbar and hexagonal bolts
- With square pin for rapid mounting
- With hexagonal bolts made of VA



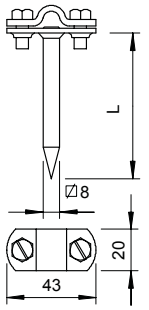


St FT

Cable bracket Rd 8–10 mm, with square pin

Type	Fit mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
163 70 FT	Rd 8-10	70	50	8.476	**5223075**
163 100 FT	Rd 8-10	100	50	10.056	**5223105**
163 200 FT	Rd 8-10	200	20	18.880	**5223202**

- Complete with crossbar and hexagonal bolts
- With square pin for rapid mounting
- With hexagonal bolts made of VA



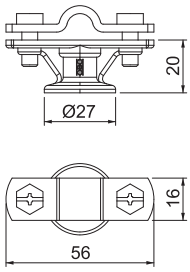


Zn Cu

Cable bracket Rd 8–10 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 8-10	Rd 8-10	20	6.247	**5230217**

- With female thread M8 or through hole Ø 7 mm
- Over-piece installed with 2 hexagonal bolts





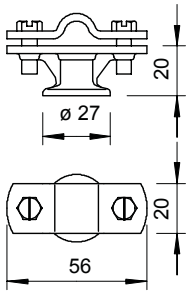
Zn

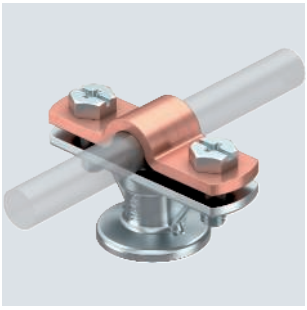
Cable bracket with Cu crossbar Rd 8–10 mm

Type	Material	Surface	Pack Piece	Weight kg/100 pc.	Item no.
113 B-Z16	Zn	VZ	100	6.000	**5412706**

113/BZ...: Cable bracket with crossbar

- With female thread M8 or through hole for wood screws
- For flat conductor FL30
- Sliding crossbar for quick mounting





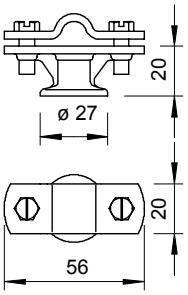
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Cable bracket with crossbar

Cable bracket with crossbar Rd 8–10 mm

Zn G



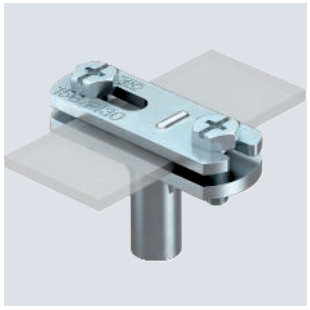


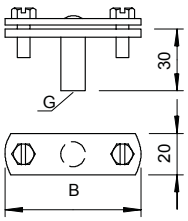
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 Z8-10	Rd 8-10	20	5.956	**5229960**

- With female thread M8 or through hole Ø 7 mm
- Over-piece installed with 2 hexagonal bolts
- Version HD with wood screws (5 x 60) and plastic dowels (8 x 40)

Cable bracket for flat conductors

Zn G



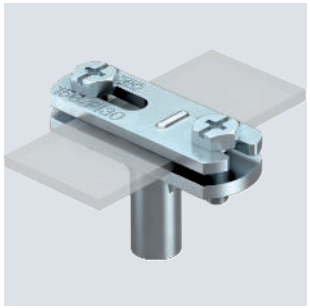


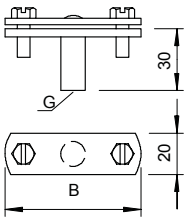
Type	Dim. B mm	Fit mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
168 FL30-M6	56	FL 30	M6	20	7.640	**5229464**
168 DIN 30	56	FL 30	M8	20	6.570	**5229480**

- For flat strip
- With female thread (G)
- Installed height 30 mm

Cable bracket for flat conductors

TG FT





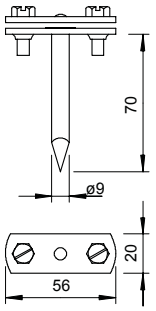
Type	Dim. B mm	Fit mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
168 FL40-M8	66	FL 40	M8	20	8.200	**5229553**

- For flat strip
- With female thread (G)
- Installed height 30 mm

Cable bracket for flat conductors, with round pin

St FT





Type	Fit mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
166 LS 70	FL30	70	50	9.140	**5226570**

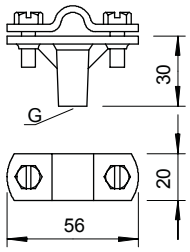
- With crossbar and 2 hexagonal bolts (VA)
- With loose round pin Ø 9 mm

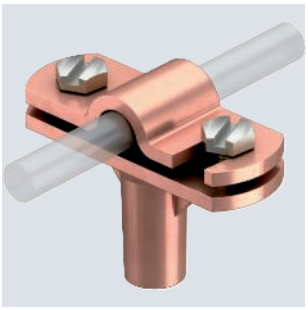
Zn Cu

Cable bracket with hinged crossbar

Type	Fit mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
168 ZN-M6	Rd 8-10	M6	20	8.660	**5229367**
168 DIN-K-M8	Rd 8-10	M8	20	8.440	**5229383**

- With female thread (G)
- With over-piece and 2 hexagonal bolts
- Installed height 30 mm



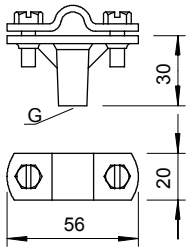


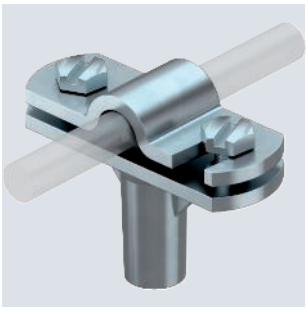
Zn G

Cable bracket Rd 8–10 mm, 30 mm mounting height

Type	Fit mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
168 8-10 M6	Rd 8-10	M6	20	7.800	**5229162**
168 DIN-K-M8	Rd 8-10	M8	20	7.780	**5229839**

- With female thread (G)
- With over-piece and 2 hexagonal bolts
- Installed height 30 mm



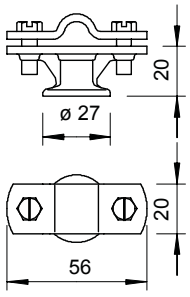


Zn G

Cable bracket with hinged crossbar Rd 8–10 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
113 Z-K 8-10	Rd 8-10	20	6.202	**5229961**

- With female thread M8 or through hole Ø 7 mm
- Hinge crossbar for quick swivel mounting
- Crossbar mounted with 2 hexagonal bolts





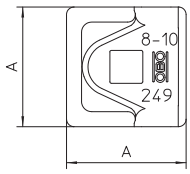
Quick connector, covers

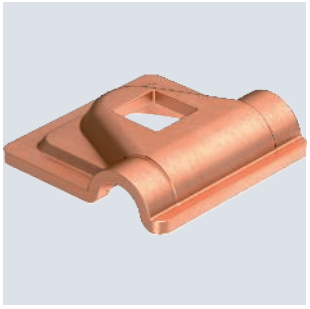
Cu

Quick connector, upper part Rd 8–10 mm

Type	Fit mm	Dim. A mm	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 CU-OT	Rd 8-10	40	100	3.580	**5311530**

- For round conductor fastening Rd 8-10
- Suitable for M10 bolts



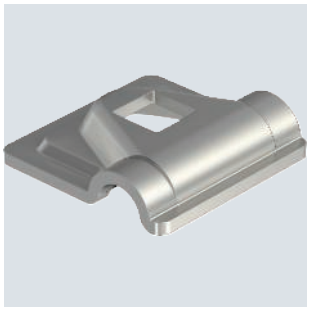


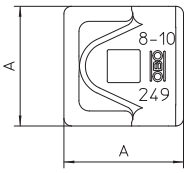
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Quick connector, covers

Quick connector, upper part Rd 8–10 mm

VA



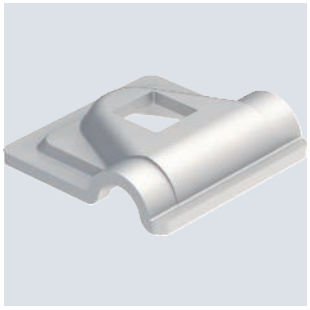


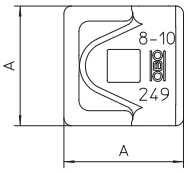
Type	Fit mm	Dim. A mm	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 VA-OT	Rd 8-10	40	100	3.130	**5311554**

- For round conductor Rd 8-10
- Suitable for M10 bolts

Quick connector, upper part Rd 8–10 mm

Alu



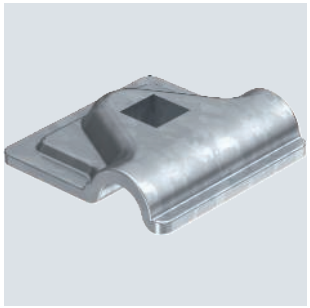


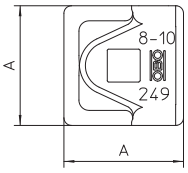
Type	Fit mm	Dim. A mm	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 ALU-OT	Rd 8-10	44	100	2.100	**5311585**

- For round conductor fastening Rd 8-10
- Suitable for M10 bolts

Quick connector, upper part Rd 8–10 mm

St FT





Type	Fit mm	Dim. A mm	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 ST-OT	Rd 8-10	40	100	3.240	**5311503**

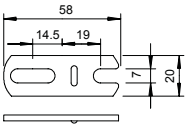
- For round conductor fastening RD 8-10
- Suitable for M10 bolts

Hinge crossbar

Cable bracket, upper part for FL 30 mm

St FT





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
156 FL	FL30	50	2.460	**5228328**

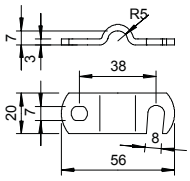
- With slot for quick installation

St FT

Cable bracket, upper part for Rd 8–10 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
156 8-10	Rd 8-10	100	2.680	**5228026**

• With open slot for quick installation



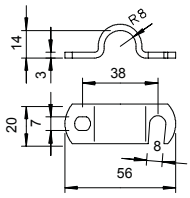


St FT

Cable bracket, round conductors and air-termination rods 16 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
156 16	Rd 16	50	3.230	**5228220**

• With open slot for quick installation



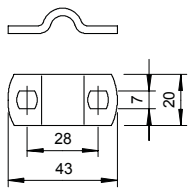


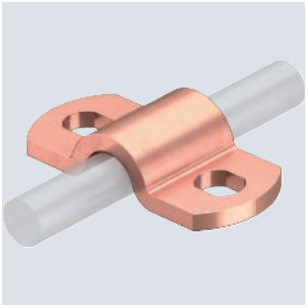
Cu

Cable bracket, upper part for Rd 8–10 mm, copper

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
156 K8-10 CU	Rd 8-10	100	2.260	**5228131**

• For Rd 8–10 mm



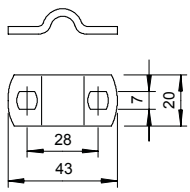


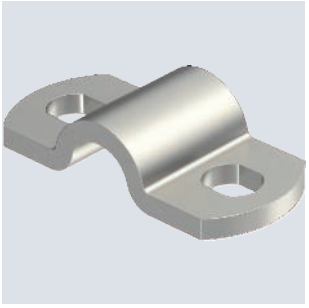
VA

Cable bracket, upper part for Rd 8–10 mm, stainless steel

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
156 K8-10 VA	Rd 8-10	100	2.100	**5228134**

• For Rd 8–10 mm





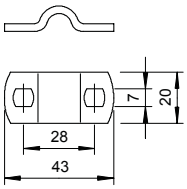
Schutzinstallationen - Äußerer Blitzschutz / en / 2023/03/06 13:40:52 (LLExport_03296) / 2023/03/06 13:41:15 13:41:15

Crossbar

Cable bracket, upper part for Rd 8–10 mm, steel

St FT





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
156 K8-10 ST	Rd 8-10	100	2.000	**5228123**

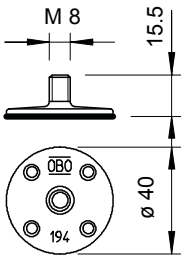
- For Rd 8–10 mm

Accessories

Bonding base including industrial bonding pad

PA





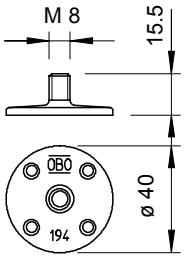
Type	Colour	Thread	Pack Piece	Weight kg/100 pc.	Item no.
194 K	Grey	M8	20	0.600	**5207266**

- With threaded stem M8
- For mounting cable supports with M8 female thread
- For bonding to concrete, steel or smooth substrates
- Not suitable for rough surfaces such as plaster, wood, bitumen strips
- Processing at > +15 °C and on cleaned substrate
- When installing flat conductors and round conductors, expansion elements are to be used for thermal compensation
- Use on film roofs after consultation with the responsible roof construction company

Bonding base

PA



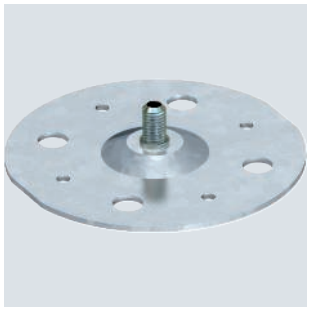


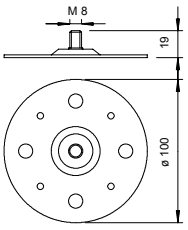
Type	Colour	Thread	Pack Piece	Weight kg/100 pc.	Item no.
194	Grey	M8	100	0.389	**5207258**

- With threaded stem M8
- For mounting cable supports with M8 female thread
- For bonding to concrete, steel or brickwork
- When installing flat conductors and round conductors, expansion elements are to be used for thermal compensation

Base plate

St FS





Type	Thread	Pack Piece	Weight kg/100 pc.	Item no.
199 DIN	M8	10	14.200	**5208017**

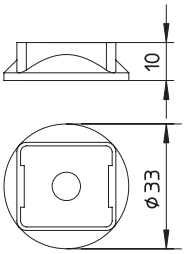
- With threaded pin M8
- Suitable for direct bonding
- Threaded pin brass and base plate hot-dip galvanised steel

PP

Washer for cable bracket, type 177

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
177 U	Light grey	20	0.286	5207371

- For simple wall installation
- UV-resistant





PA

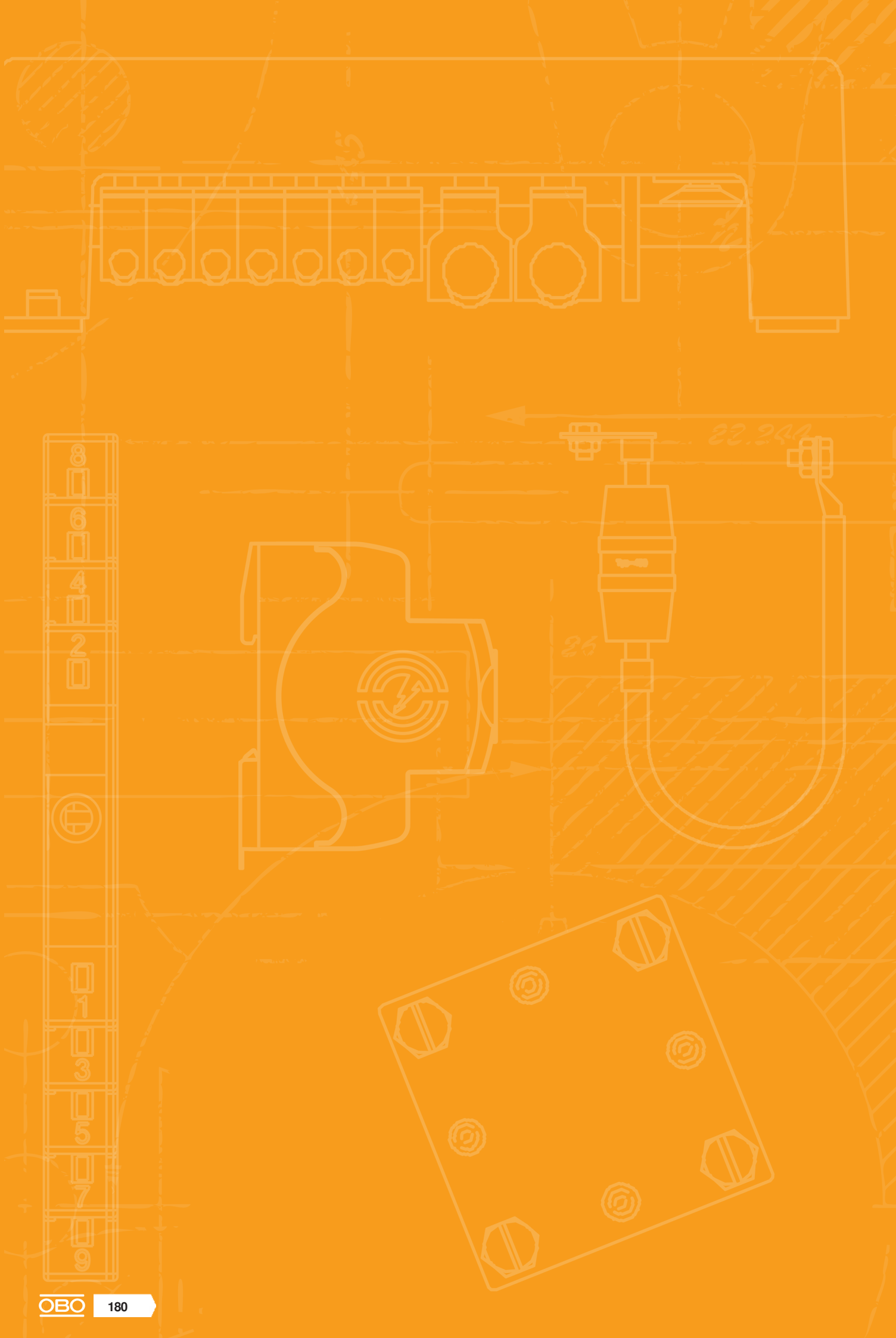
Hard foam plate anchor

Type	Length mm	Dowel Ø mm	Wood screws Ø mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
177 WDVS 64x25 B	63.5	9	4 - 5	0.05	50	0.658	5207375

Anchor for universal light-duty fastening in plastered composite heat insulation systems (WDVS). The self-tapping point makes pre-drilling superfluous.



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Connection and separating terminals



Connection and separating terminals 180

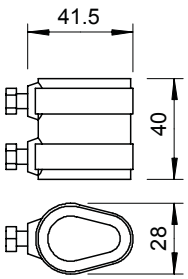
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Connection and separating terminals

Separating piece, open

Zn G



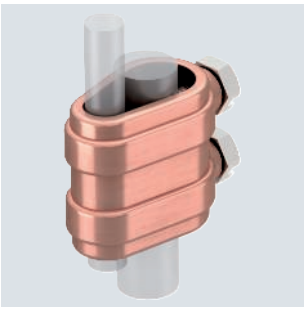


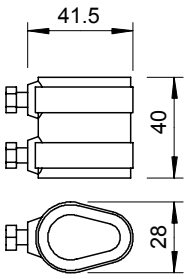
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
223 O DIN ZN	Rd 8-10/16	20	12.500	**5335140**

- With 2 hexagonal bolts, stainless steel (VA)
- Clamping element, die-cast zinc

Separating piece, open

Zn Cu



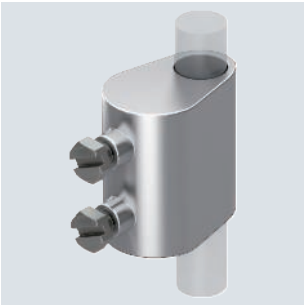


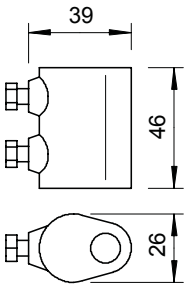
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
223 O DIN MS	Rd 8-10/16	20	14.900	**5335167**

- With 2 hexagonal bolts, stainless steel (VA)
- Clamping element, copper-plated die-cast zinc

Separating piece, closed

Zn G



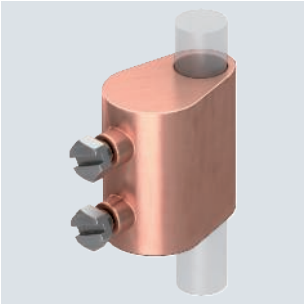


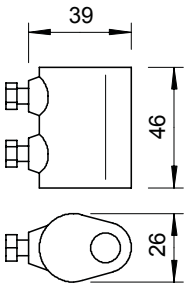
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
223 DIN ZN	Rd 8-10/16	20	12.406	**5335205**

- For fitting round conductors Rd 8-10 to ground insertion rods Rd 16
- Including 2 hexagonal bolts, high-grade stainless steel (V2A)
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

Separating piece, closed

Zn Cu





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
223 DIN MS	Rd 8-10/16	10	11.700	**5335256**

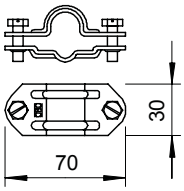
- For fitting round conductors Rd 8-10 to ground insertion rods Rd 16
- Including 2 hexagonal bolts, high-grade stainless steel (V2A)
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

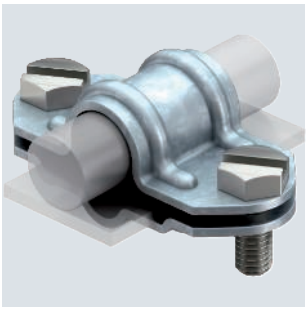
St FT

Universal separating piece

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
226 8-10	Rd 8-10/FL30 x 16	20	8.600	**5336007**

- For fitting round conductors Rd 8–10 to Rd 16 or flat conductors FL30
- Including 2 hexagonal bolts M8 x 20 high-grade stainless steel (V2A)
- Conforms to the requirements according to VDE 0185-305 (IEC 62305)



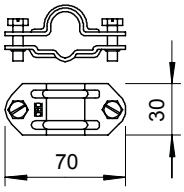


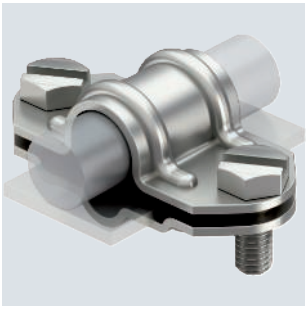
VA

Universal separating piece

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
226 VA	Rd 8-10/FL30 x 16	10	8.700	**5336058**

- For fitting round conductors Rd 8–10 to Rd 16 or flat conductors FL30
- Including 2 hexagonal bolts M8 x 20 high-grade stainless steel (V2A)
- Conforms to the requirements according to VDE 0185-305 (IEC 62305)



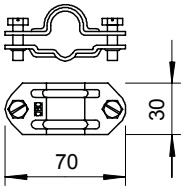


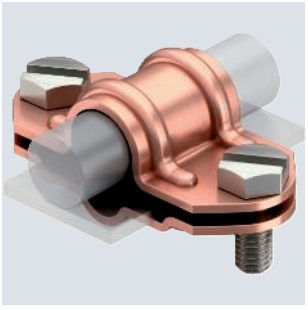
Cu

Universal separating piece

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
226 CU	Rd 8-10/FL30 x 16	10	9.700	**5336023**

- For fitting round conductors Rd 8–10 to Rd 16 or flat conductors FL30
- Including 2 hexagonal bolts M8 x 20 high-grade stainless steel (V2A)
- Conforms to the requirements according to VDE 0185-305 (IEC 62305)



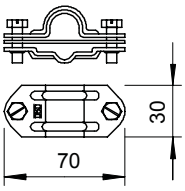


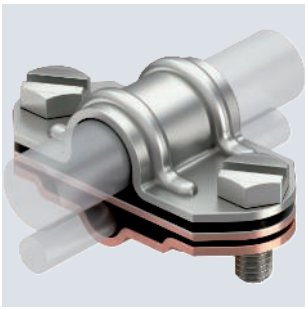
Cu

Universal bi-metal separating piece

Type	Fit mm	Material upper part	Material lower part	Pack Piece	Weight kg/100 pc.	Item no.
226 ZV VA	Rd 8-10/FL30 x 16	VA	Cu	10	11.000	**5336074**

- Fit: Rd 8-10 x 16, FL 30 x Rd 16
- With 2 hexagonal bolts M8 x 20, stainless steel (VA)
- Intermediate plate, aluminium/copper



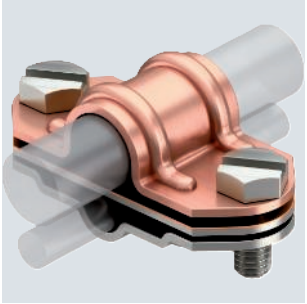


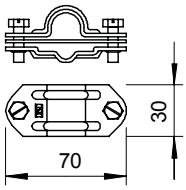
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Connection and separating terminals

Universal bi-metal separating piece

VA



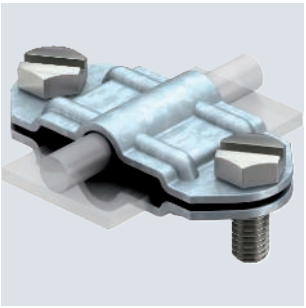


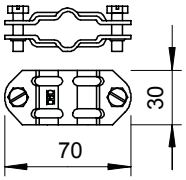
Type	Fit mm	Material upper part	Material lower part	Pack Piece	Weight kg/100 pc.	Item no.
226 ZV CU	Rd 8-10/FL30 x 16	Cu	VA	10	11.900	**5336090**

- Fit: Rd 8-10 x 16, FL 30 x Rd 16
- With 2 hexagonal bolts M8 x 20, stainless steel (VA)
- Intermediate plate, aluminium/copper

Separating piece for Rd 8–10 and FL 30 mm

St FT



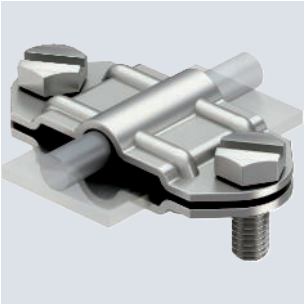


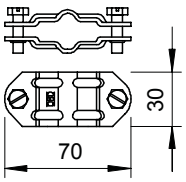
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
233 8	Rd 8-10/FL30 x Rd 8-10/FL30	20	8.200	**5336309**

- To fit round conductors Rd 8-10 or flat conductors FL 30
- With 2 hexagonal bolts M8 x 20 made of rustproof steel (VA)
- Short-circuit current Ik (50 Hz), time 0.6 s, temp. max. 300 °C: 8.5 kA

Separating piece for Rd 8–10 and FL 30 mm

VA



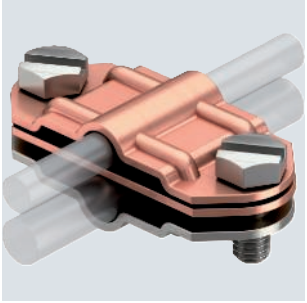


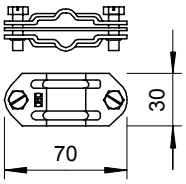
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
233 VA	Rd 8-10/FL30 x Rd 8-10/FL30	10	8.300	**5336341**

- For fitting round conductors Rd 8-10 or flat conductors FL 30
- With 2 hexagonal bolts M8 x 20, stainless steel (VA)

Bi-metal separating piece for Rd 8–10 and FL 30 mm

VA





Type	Fit mm	Material upper part	Material lower part	Pack Piece	Weight kg/100 pc.	Item no.
233 ZV	Rd 8-10/FL30 x Rd 8-10/FL30	Cu	VA	10	10.100	**5336376**

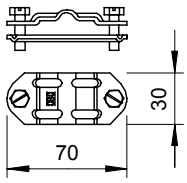
- For fitting round conductors Rd 8-10 to flat conductors FL 30
- With 2 hexagonal bolts M8 x 20, stainless steel (VA)
- Intermediate plate aluminium/copper, top section copper, bottom section stainless steel

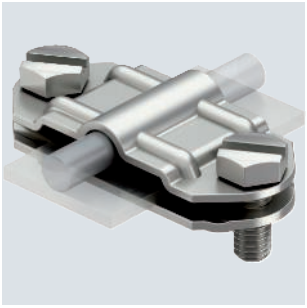
VA

Separating piece for Rd 8–10 and FL 30–40 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
233 A VA	8-10xFL30-40	10	7.851	**5336457**

- Fit: Rd 8-10 x FL 30-40
- With 2 hexagonal bolts M8 x 20 (VA)



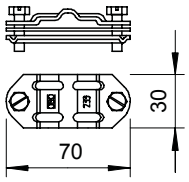


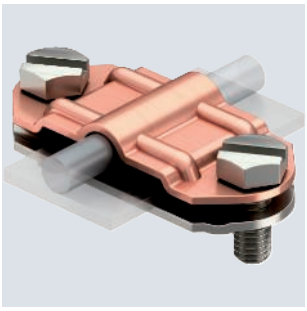
Cu

Bi-metal separating piece for Rd 8–10 and FL 30–40 mm

Type	Fit mm	Material upper part	Material lower part	Pack Piece	Weight kg/100 pc.	Item no.
233 A ZV	Rd 8-10 x FL30-40	Cu	VA	10	10.400	**5336503**

- Fit: Rd 8-10 x FL 30-40, FL 30 x FL 30-40
- With 2 hexagonal bolts M8 x 20, stainless steel (VA)
- Intermediate plate, aluminium/copper
- Top section copper, bottom section stainless steel



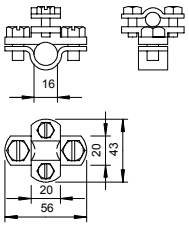


St FT

Rod clamp

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
108 B DIN	Rd 8-10/16	10	13.970	**5416566**

- Rod clamp for connecting round conductors Rd 8–10 to connector rods Rd 16
- Mounted with 2 hexagonal bolts M8 x 16 and M6 x 12
- Adapter from malleable iron
- Crossbar and bolts from hot dip galvanized steel



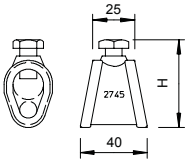


CuZn 37 Cu

Connection clamp for earth rod or cables

Type	For earth rods Ø mm	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
2745 20 MS	20	7-12,5/S95 mm²	5	16.000	**5001560**

- For earth rods Ø 20 or conductors of 95 mm²
- For round conductor attachments Rd 7–12.5 with hexagonal bolts M10 x 25



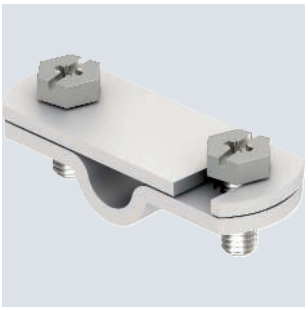


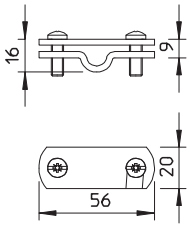
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Connection and separating terminals

Number plates

Alu



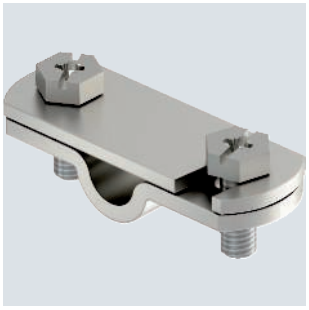


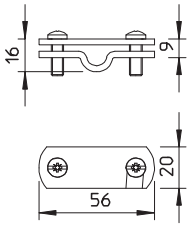
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
311 N-ALU 8-10	RD 8 - 10 / FL30	5	2.500	**3049256**
311 N-ALU 16	RD 16 - FL30	5	2.800	**3049345**

- To identify the point of separation to DIN 48821
- Suitable for universal labelling (e.g. stamped numbers)

Number plates

A2



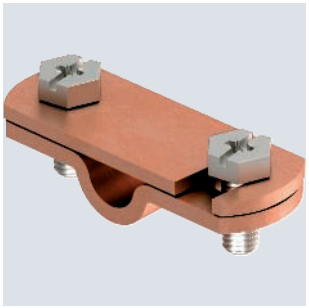


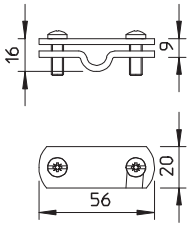
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
311 N-VA 8-10	RD 8 - 10 / FL30	5	5.600	**3049221**
311 N-VA 16	RD 16 - FL30	5	6.400	**3049329**

- To identify the point of separation to DIN 48821
- Suitable for universal labelling (e.g. stamped numbers)

Number plates

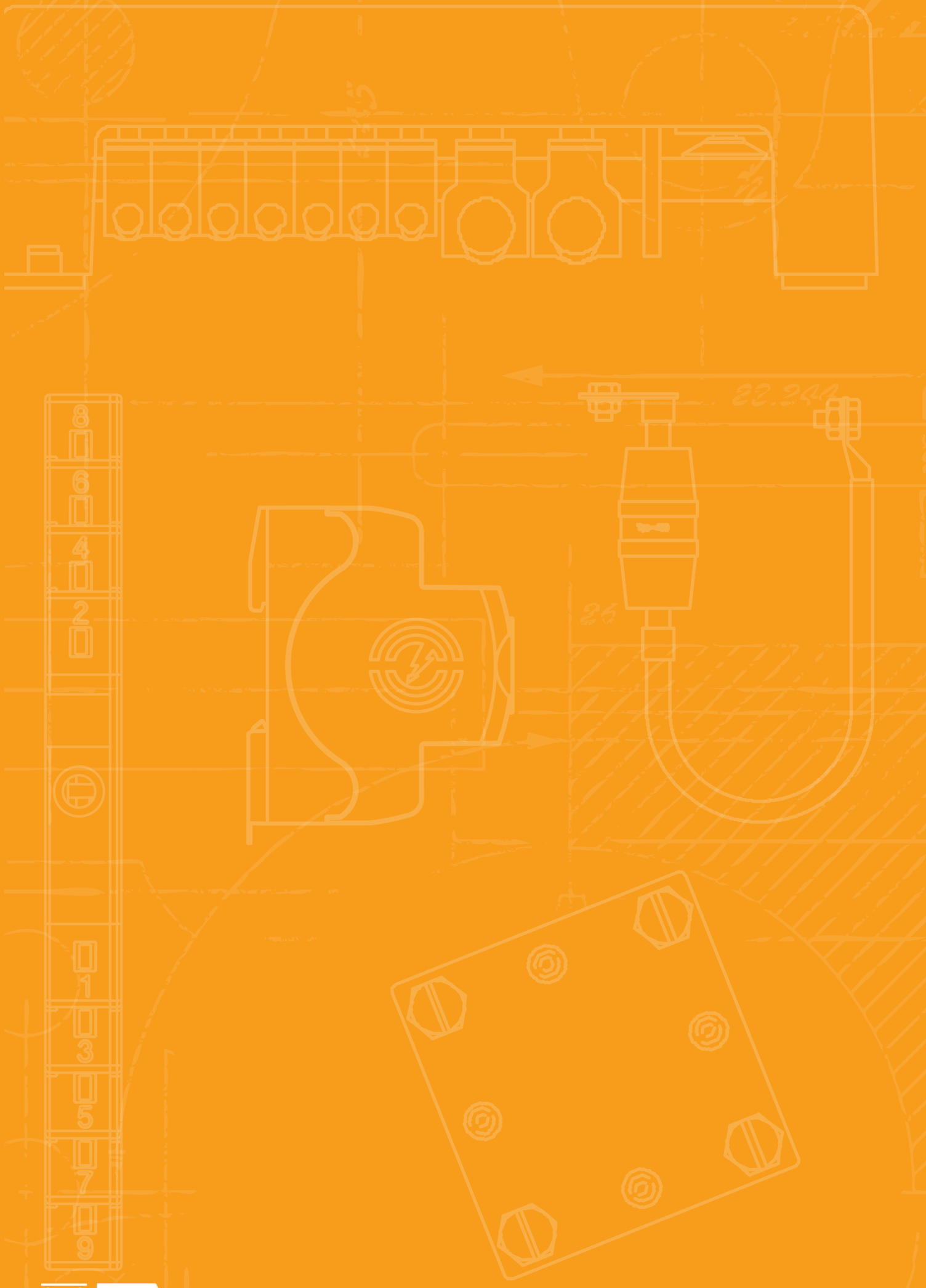
Cu





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
311 N-CU 8-10	RD 8 - 10 / FL30	5	6.400	**3049205**

- To identify the point of separation to DIN 48821
- Suitable for universal labelling (e.g. stamped numbers)



Connection clamps and connection terminals

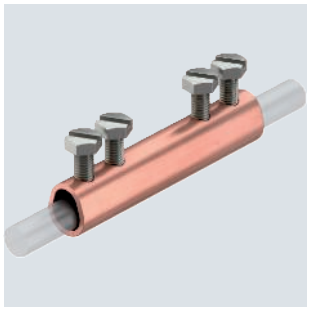


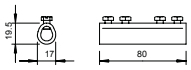
Connection clamps and connection terminals 190

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Straight connector Rd 6–10 mm

Cu





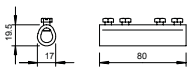
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
237 N CU	Rd 6-10	H/100	10	8.760	**5328284**

- With 4 hexagonal bolts M6 x 12
- Complies with the requirements of VDE 0185-305-3 (IEC/EN 62305-3)

Straight connector Rd 8–10 mm

St F





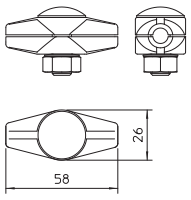
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
237 N FT	Rd 8-10	H/100	20	8.560	**5328209**

- With 4 hexagonal bolts M6 x 10
- Complies with the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)

Straight connector Rd 8 mm

Zn G





Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
239	Rd 8	N/50	20	12.510	**5329078**

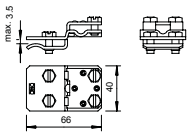
- With truss-head bolt M10 x 30 and hexagonal nut M10
- Complies with the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)

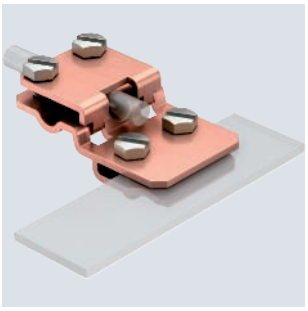
Cu

Folding clamp and connection terminal up to 10 mm plate thickness

Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
274 CU	Rd 8-10	- 10	N/50	10	11.340	**5317479**

- Plate thickness to 10 mm
- For conductor routing transverse and longitudinal to plate
- 4 hexagonal bolts M6 x 16
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)



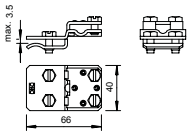


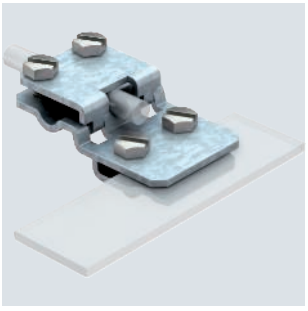
St FT

Folding clamp and connection terminal up to 10 mm plate thickness

Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
274 8-10	Rd 8-10	- 10	N/50	20	10.400	**5317428**

- Plate thickness to 10 mm
- For conductor routing transverse and longitudinal to plate
- 4 hexagonal bolts M6 x 16
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)



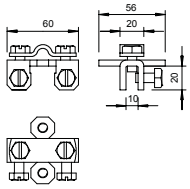


St FT

Folding clamp up to 10 mm plate thickness

Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
273 8-10	Rd 8-10	- 10	N/50	50	17.200	**5317223**

- Plate thickness to 10 mm
- Conductor routing transverse and longitudinal to plate with 2 hexagonal bolts M8 x 10 and 2 hexagonal bolts M8 x 16 (F)



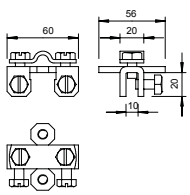


Cu

Folding clamp up to 10 mm plate thickness

Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
273 CU	Rd 8-10	- 10	N/50	10	18.500	**5317274**

- Plate thickness to 10 mm
- Conductor routing transverse and longitudinal to plate with 2 hexagonal bolts M8 x 10 and 2 hexagonal bolts M8 x 16 (F)
- 273 Cu: with hexagonal bolts, stainless steel (VA)

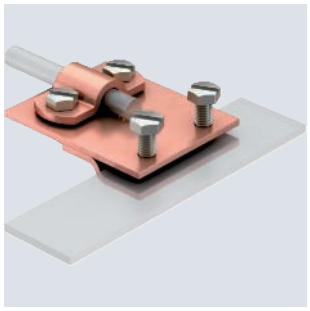


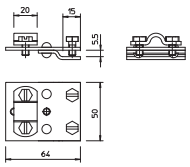


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Folding clamp up to 5 mm plate thickness

Cu



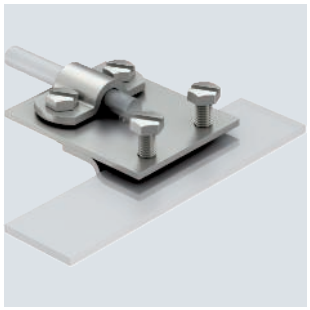


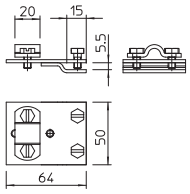
Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
271 CU	Rd 8-10	-5	N/50	10	15.230	**5317452**

- Plate thickness to 5 mm
- For conductor routing transverse and longitudinal to plate
- With 4 hexagonal bolts M6 x 12
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)
- 271 Cu: with hexagonal bolts stainless steel (VA)

Folding clamp up to 5 mm plate thickness

VA



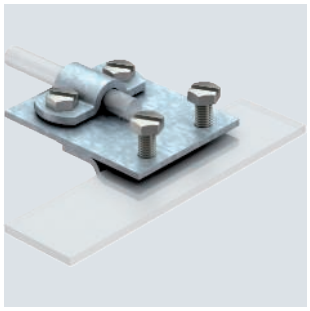


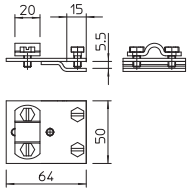
Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
271 8-10 VA	Rd 8-10	-5	N/50	10	15.000	**5317481**

- Plate thickness to 5 mm
- For conductor routing transverse and longitudinal to plate
- With 4 hexagonal bolts M6 x 12
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)
- 271 Cu: with hexagonal bolts stainless steel (VA)

Folding clamp up to 5 mm plate thickness

St FT



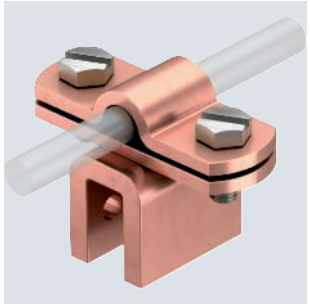


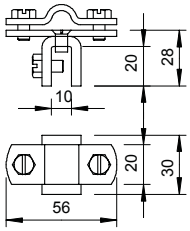
Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
271 8-10	Rd 8-10	-5	N/50	20	14.060	**5317401**

- Plate thickness to 5 mm
- For conductor routing transverse and longitudinal to plate
- With 4 hexagonal bolts M6 x 12
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)
- 271 Cu: with hexagonal bolts stainless steel (VA)

Folding clamp Rd 8-10 up to 10 mm plate thickness

Cu





Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
270 8-10 CU	Rd 8-10	-10	H/100	10	14.740	**5317258**

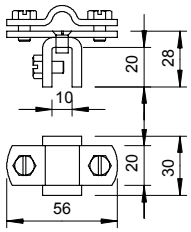
- Metal thickness to 10 mm
- For conductor routing transverse and in parallel to the plate
- Corresponds to the requirements to DIN V VDE V 0185-3 section 4.5

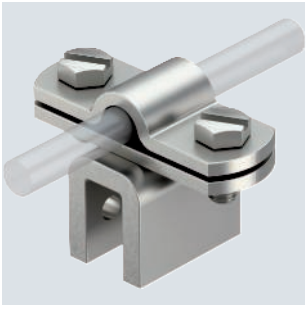
VA

Folding clamp Rd 8-10 up to 10 mm plate thickness

Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
270 8-10 VA	Rd 8-10	-10	N/50		10	13.800	**5317208**

- Metal thickness to 10 mm
- For conductor routing transverse and in parallel to the plate
- Corresponds to the requirements to DIN V VDE V 0185-3 section 4.5



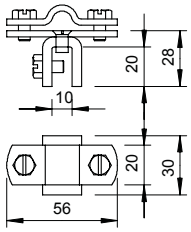


St FT

Folding clamp Rd 8-10 up to 10 mm plate thickness

Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
270 8-10 FT	Rd 8-10	-10	N/50		20	13.810	**5317207**

- Metal thickness to 10 mm
- For conductor routing transverse and in parallel to the plate
- Corresponds to the requirements to DIN V VDE V 0185-3 section 4.5



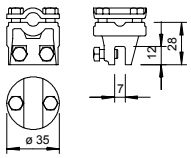


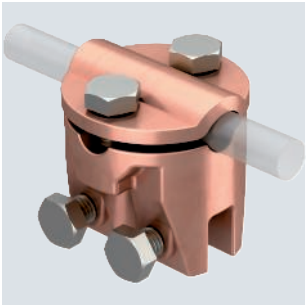
Zn Cu

Folding clamp up to 7 mm plate thickness

Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
269 MS	Rd 8-10	-7	H/100		10	14.480	**5317053**

- Plate thickness to 7 mm
- For conductor arrangement transverse and parallel to plate with 4 hexagonal bolts M6 x 16
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)



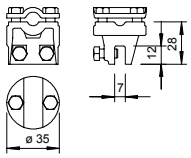


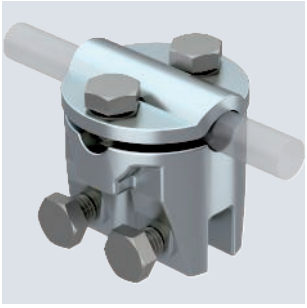
Zn G

Folding clamp up to 7 mm plate thickness

Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
269 8-10	Rd 8-10	-7	N/50		20	14.460	**5317010**

- Plate thickness to 7 mm
- For conductor arrangement transverse and parallel to plate with 4 hexagonal bolts M6 x 16
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

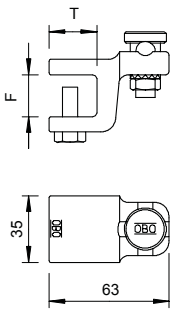




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Folding and construction clamp, 10–20 mm

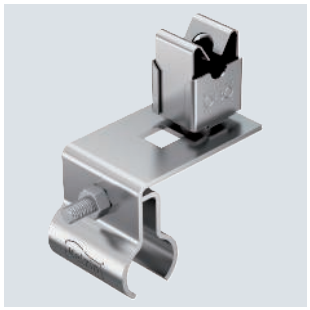


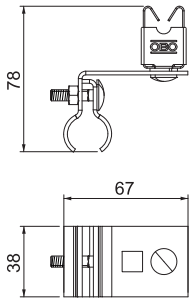


Type	Fit mm	Clamping range mm	Dim. T mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
5004 DIN-FT 12	Rd 8-10	-12	20	N/50	10	18.730	**5304407**
5004 DIN-FT 20	Rd 8-10	10-20	25	N/50	10	30.600	**5304504**

- Flange thickness to 12 or 10–20 mm
- With pre-mounted Fix contakt clamping screw 5000
- 2 hexagonal bolts M8 x 20, bolts made of hot galvanised steel
- Terminal block made of malleable iron, hot galvanised
- Mounting of the round conductors either vertical or transverse to structure
- Corresponds to the requirements of DIN VDE 0185-305-3

Folding and construction clamp



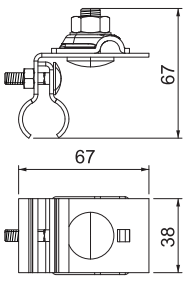


Type	Fit mm	Clamping range mm	Pack Piece	Weight kg/100 pc.	Item no.
RSF 177 20 VA M8	8	8	50	13.400	**5317512**

- For round standing seam systems, loose cable routing
- Manufacturer release by Kalzip
- Tested according to VDE 0185-561-4 (IEC/EN 62561-4)

Folding and construction clamp





Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
RSF 249 8-10 VA	Rd 8-10	-10	N/50	50	14.200	**5317502**

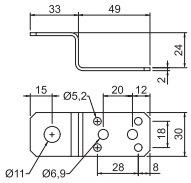
- For round standing seam systems, fixed cable routing
- Manufacturer release by Kalzip
- Tested according to VDE 0185-561-1 (IEC/EN 62561-1)

Alu

Connection component

Type		Pack Piece	Weight kg/100 pc.	Item no.
287		20	1.600	5320704

- With 1 attaching hole Ø 11 mm
- 4 mounting holes Ø 5.2 mm
- 2 mounting holes Ø 6.9 mm



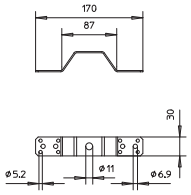


Alu

Connection and bridging component

Type		Pack Piece	Weight kg/100 pc.	Item no.
288 DIN		20	2.900	5320712

- With 1 attaching hole Ø 11 mm
- With 2 x 4 mounting holes Ø 5.2 mm
- With 2 x 2 mounting holes Ø 6.9 mm



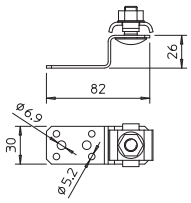


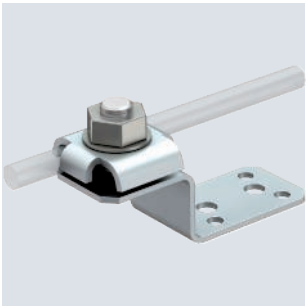
Alu

Connection component with double crossbar

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
287 DCT	8	N/50		10	6.450	5320707

- Quick mounting thanks to an M10 x 30 bolt made of rustproof stainless steel
- With spring washer
- 4 fastening holes Ø 5.2 mm
- 2 fastening holes Ø 6.9 mm
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)



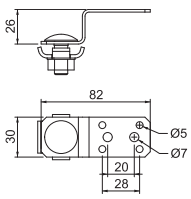


A2

Connection component with double crossbar

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
287 DCT A2	Rd 6-8	H/100		10	9.320	5320709

- Quick mounting thanks to an M10 x 30 bolt made of stainless steel
- With spring washer
- 4 fastening holes Ø 5.2 mm, incl. rivets
- 2 fastening holes Ø 6.9 mm
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)

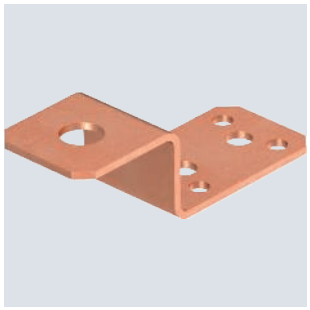


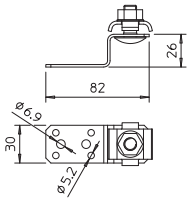


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Connection component

Cu





Type		Pack Piece	Weight kg/100 pc.	Item no.
287 CU		10	5.600	**5320690**

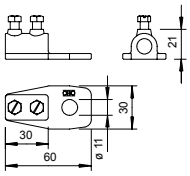
- With 1 attaching hole Ø 11 mm
- 4 mounting holes Ø 5.2 mm
- 2 mounting holes Ø 6.9 mm

End pieces

End piece

Zn G





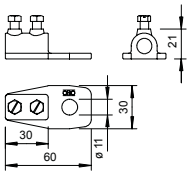
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
280 8-10	Rd 8-10	20	6.300	**5320011**

- With Ø 11 mm attaching hole
- 2 hexagonal bolts M6 x 12, bolts hot-dip galvanised steel or VA
- Clamping element from die-cast zinc or copper-plated die-cast zinc

End piece

Zn





Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
280 VK	Rd 8-10	20	9.000	**5320054**

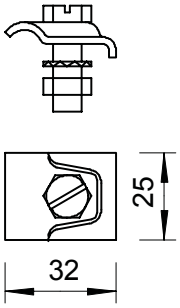
- With Ø 11 mm attaching hole
- 2 hexagonal bolts M6 x 12, bolts hot-dip galvanised steel or VA
- Clamping element from die-cast zinc or copper-plated die-cast zinc

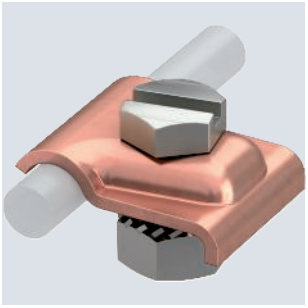
Cu

Universal clamping block Rd 8–10 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
324 S-CU	Rd 8-10	10	3.660	**5326338**

• Including hexagonal bolt M8 x 25, washer and nuts



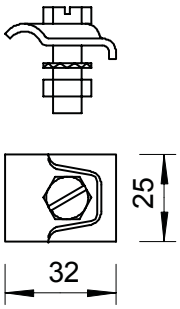


VA

Universal clamping block Rd 8–10 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
324 S-VA	Rd 8-10	10	3.400	**5326311**

• Including hexagonal bolt M8 x 25, washer and nuts



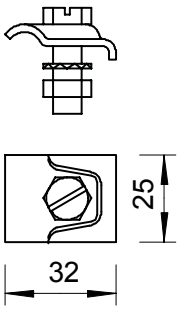


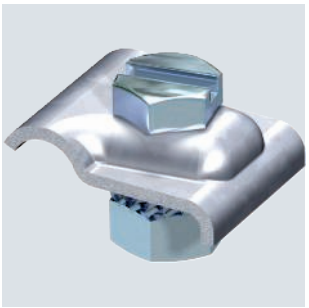
St FT

Universal clamping block Rd 8–10 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
324 S-FT	Rd 8-10	20	3.400	**5326303**

• Including hexagonal bolt M8 x 25, washer and nuts





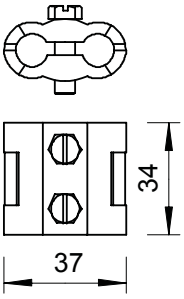
Parallel connector

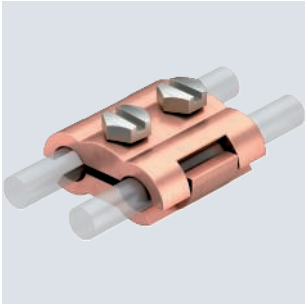
CuZn 37 Cu

Parallel connector Rd 6–10 mm, M6 x 20

Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
260 8-10 MS	Rd 6-10	N/50	50	15.820	**5315654**

• With 2 hexagonal bolts M6 x 20 made of stainless steel (V2A)





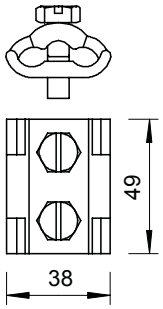
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Parallel connector

Parallel connector Rd 8–10 mm, M8 x 25

TG FT



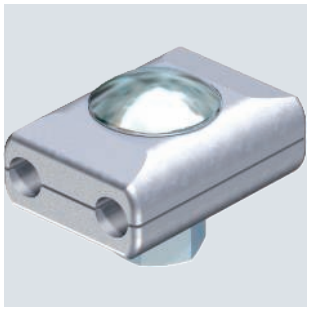


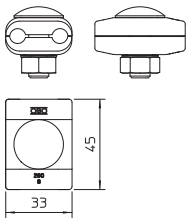
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
259 8-10	Rd 8-10	N/50	25	13.230	**5315506**

- With 2 hex-head bolts M8 x 25, hot-dip galvanised steel

Parallel connector Rd 8 mm, M10 x 30

Zn G





Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
260 8	Rd 8	H/100	50	13.930	**5315700**

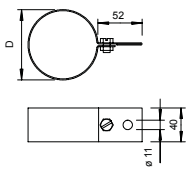
- With flat, round bolt M10 x 30 and hexagonal nut, hot-dip galvanised steel

Downpipe clips

Downpipe clip

Cu





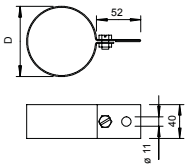
Type	For pipe mm	Pack Piece	Weight kg/100 pc.	Item no.
301 CU-80	80	10	22.500	**5350689**
301 CU-100	100	10	26.230	**5350700**

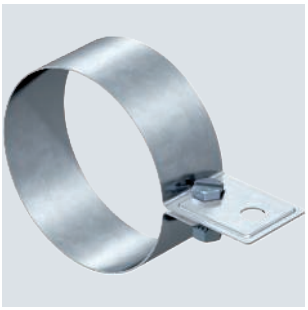
- With 1x hexagonal bolt M8 x 20
- With 1x hexagonal nut M8 and 1 serrated disc made of rustproof steel
- With connection hole Ø 11 mm

St FS

Downpipe clip

Type	For pipe mm	Pack Piece	Weight kg/100 pc.	Item no.
301 DIN-80	80	10	19.580	5350085
301 DIN-90	90	10	21.880	5350093
301 DIN-100	100	10	19.880	5350107
301 DIN-110	110	10	24.920	5350115
301 DIN-120	120	10	26.240	5350123





- To connect conductors and downpipes
- Similar to DIN 48818 C
- Strip galvanised (rd. 275 g/m² = 40 µm average value)
- With 1x hexagonal bolt M8 x 20
- With 1x hexagonal nut M8 and 1 stainless steel serrated washer
- With connection hole Ø 11 mm

St FS

Downpipe clip for routing Rd 8–10 mm behind pipe

Type	For pipe mm	Pack Piece	Weight kg/100 pc.	Item no.
301 S-100	100	10	5.200	5351057
301 S-120	120	10	5.950	5351073





- With beading
- For round conductor Rd 8-10
- Including hexagonal bolt M6 x 20 and nuts M6

Alu

Downpipe clip for routing Rd 8–10 mm behind pipe

Type	For pipe mm	Pack Piece	Weight kg/100 pc.	Item no.
301 S-AL-100	100	10	4.100	5351359
301 S-AL-120	120	10	4.600	5351375



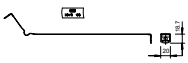


- With beading
- For round conductor Rd 8-10
- Including hexagonal bolt M6 x 20 and nuts M6

VA

Downpipe clip for routing Rd 8–10 mm behind pipe

Type	For pipe mm	Pack Piece	Weight kg/100 pc.	Item no.
301 S-VA-100	100	10	5.200	5351251
301 S-VA-120	120	10	5.950	5351286



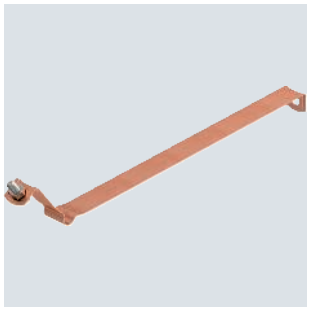


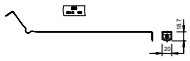
- With beading
- For round conductor Rd 8-10
- Including hexagonal bolt M6 x 20 and nuts M6

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Downpipe clip for routing Rd 8–10 mm behind pipe

Cu



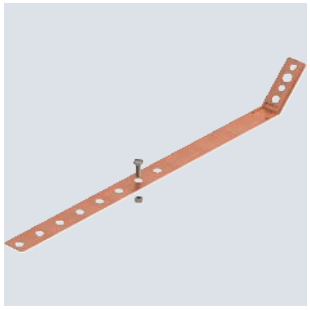


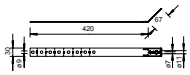
Type	For pipe mm	Pack Piece	Weight kg/100 pc.	Item no.
301 S-CU-100	100	10	5.850	**5351456**
301 S-CU-120	120	10	6.700	**5351472**

- With beading
- For round conductor Rd 8-10
- Including hexagonal bolt M6 x 20 and nuts M6

Universal downpipe clip 60–130 mm

Cu



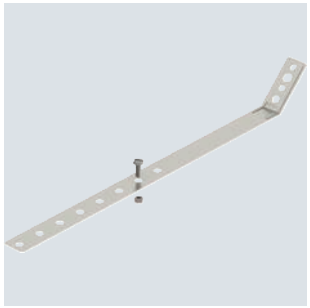


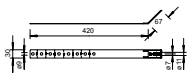
Type	Pack Piece	Weight kg/100 pc.	Item no.
301 V-CU	5	13.500	**5350883**

- Adjustable for pipes from 60-130 mm
- With 2x attaching holes Ø 7 mm
- With 1x attaching hole Ø 9 mm
- With 1x attaching hole Ø 11 mm
- Including hexagonal bolt M6 x 20 and nuts M6

Universal downpipe clip 60–130 mm

VA





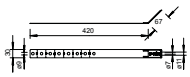
Type	Pack Piece	Weight kg/100 pc.	Item no.
301 V-VA	5	11.800	**5350905**

- Adjustable for pipes from 60-130 mm
- With 2x attaching holes Ø 7 mm
- With 1x attaching hole Ø 9 mm
- With 1x attaching hole Ø 11 mm
- Including hexagonal bolt M6 x 20 and nuts M6

Universal downpipe clip 60–130 mm

St FS





Type	Pack Piece	Weight kg/100 pc.	Item no.
301 V	5	11.900	**5350867**

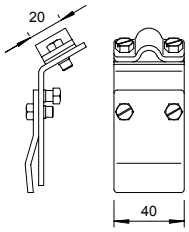
- Adjustable for pipes from 60-130 mm
- With 2x attaching holes Ø 7 mm
- With 1x attaching hole Ø 9 mm
- With 1x attaching hole Ø 11 mm
- Including hexagonal bolt M6 x 20 and nuts M6

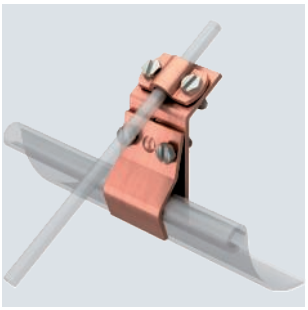
Cu

Roof gutter clamp for all bead thicknesses

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
262 CU	Rd 8-10	10	20.940	5316154

- With 4 hexagonal bolts M6 x 16
- Fits all bead thicknesses



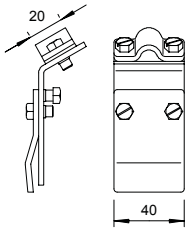


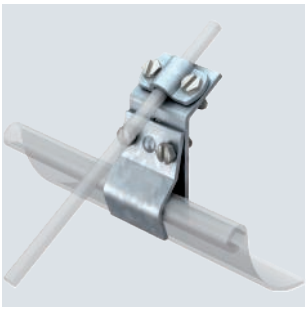
St FT

Roof gutter clamp for all bead thicknesses

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
262	Rd 8-10	25	20.300	5316014

- With 4 hexagonal bolts M6 x 16
- Fits all bead thicknesses



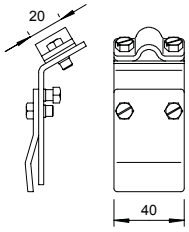


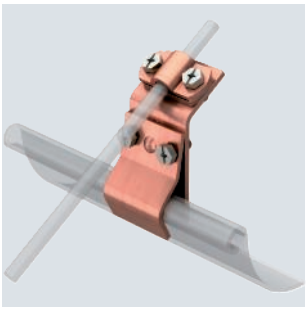
St FT

Bi-metal roof gutter clamp for all bead thicknesses

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
262 ZM	Rd 8-10	10	23.100	5316170

- Fits all bead thicknesses
- Bi-metal for attaching round conductors aluminium or steel to roof gutters without corrosion to different metals





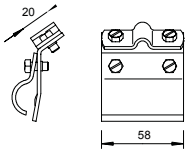
Roof gutter clamps

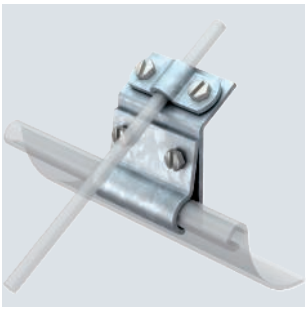
St FT

Gutter clamp for bead thickness 15–22 mm

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
262 A-DIN FT	Rd 8-10	25	19.610	5316219

- Suitable for bulge thickness 15–22 mm
- With 4 hexagonal bolts M6 x 16 (VA)

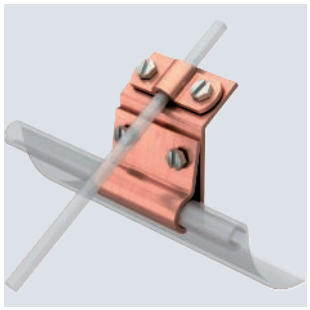


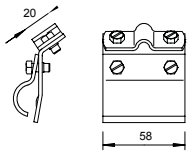


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Gutter clamp for bead thickness 15–22 mm

Cu



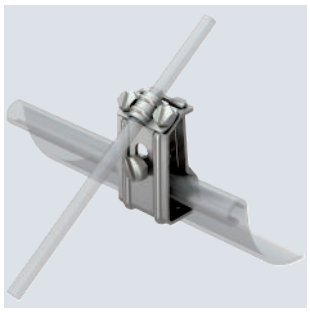


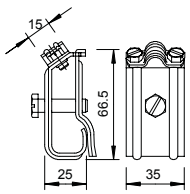
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
262 A-DIN CU	Rd 8-10	10	20.840	**5316251**

- Suitable for bulge thickness 15–22 mm
- With 4 hexagonal bolts M6 x 16 (VA)

Gutter clamp for all bead thicknesses

VA



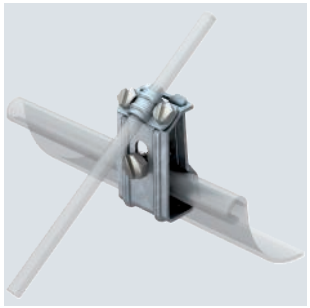


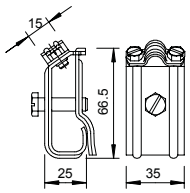
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
267 VA	Rd 8-10	10	11.360	**5316324**

- Fits all bead thicknesses
- With 1 hexagonal bolt M8 x 30
- 2 hexagonal bolts M6 x 12
- VA version also for use as bimetal conductor (holder)

Gutter clamp for all bead thicknesses

St FT



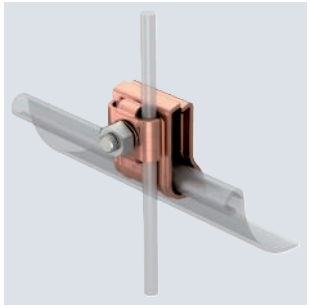


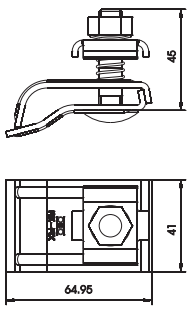
Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
267	Rd 8-10	25	13.950	**5316308**

- Fits all bead thicknesses
- With 1 hexagonal bolt M8 x 30
- 2 hexagonal bolts M6 x 12

Gutter clamp RK-FIX

VA Cu





Type	Fit mm	Lightning current carrying capacity kA	Material	Pack Piece	Weight kg/100 pc.	Item no.
RK-FIX CU	2 x Rd 8/ 2 x Rd 6	H/100	A2	10	21.000	**5316468**

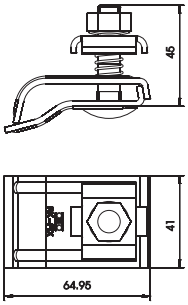
- For up to 2 conductors Rd 6 or Rd 8
- Suitable for all bead thicknesses (15–25 mm)
- With 1 truss-head bolt M10 x 45
- Nut and bolt made of VA stainless steel
- With spring for prefixing on rain gutter
- Tested to VDE 0185-561-1 (IEC/EN 62561-1)

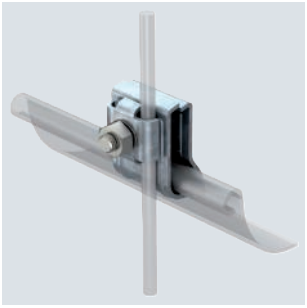
St FT

Gutter clamp RK-FIX

Type	Fit mm	Lightning current carrying capacity kA	Material	Pack Piece	Weight kg/100 pc.	Item no.
RK-FIX	2 x Rd 8	H/100	St	25	19.100	**5316450**

- For up to 2 round conductors Rd 8
- Suitable for all bead thicknesses (15–25 mm)
- With 1 truss-head bolt M10 x 45
- Nut and bolt made of VA stainless steel
- With spring for prefixing on rain gutter
- Tested to VDE 0185-561-1 (IEC/EN 62561-1)



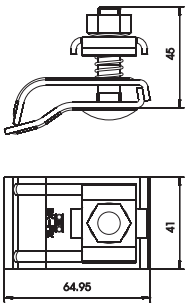


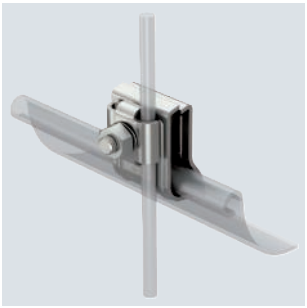
VA

Gutter clamp RK-FIX

Type	Fit mm	Lightning current carrying capacity kA	Material	Pack Piece	Weight kg/100 pc.	Item no.
RK-FIX VA	2 x Rd 8/ 2 x Rd 6	H/100	A2	10	19.100	**5316459**

- For up to 2 round conductors Rd 6 or Rd 8
- Suitable for all bead thicknesses (15–25 mm)
- With 1 truss-head bolt M10 x 45
- Nut and bolt made of VA stainless steel
- With spring for prefixing on rain gutter
- Tested to VDE 0185-561-1 (IEC/EN 62561-1)



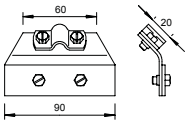


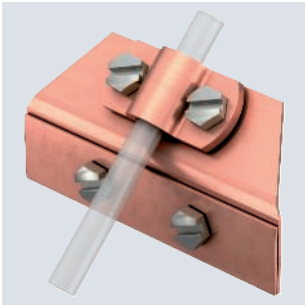
Cu

Snow catching grate clamp

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
264 CU	Rd 8-10	10	21.140	**5316553**

- Plate thickness to 8 mm
- With 4 hexagonal bolts M6 x 16



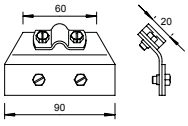


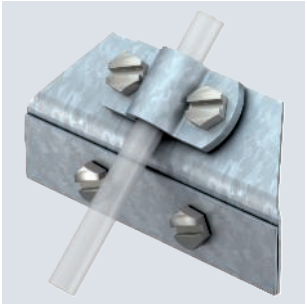
St F

Snow catching grate clamp

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
264	Rd 8-10	25	18.640	**5316510**

- Plate thickness to 8 mm
- With 4 hexagonal bolts M6 x 16

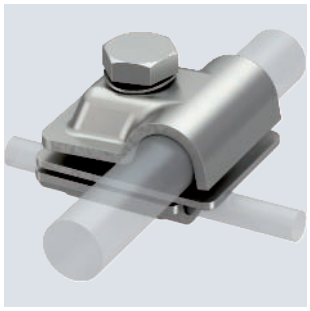


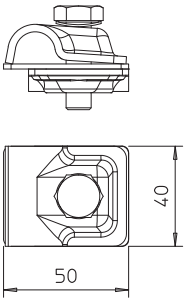


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Vario quick connector Rd 8-10x16

VA



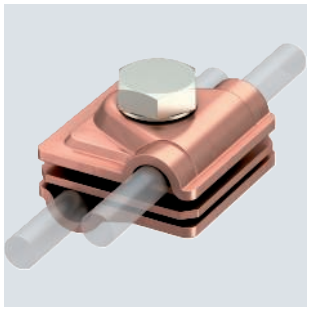


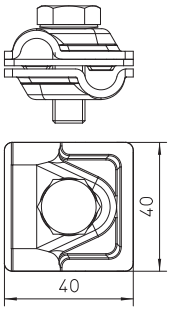
Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10X16 VA	8-10x16	40	H/100	10	14.958	**5311590**

- For T, intersection and parallel connections with adapter plates
- Quick mounting using an M10 x 30 bolt, made from rustproof stainless steel
- With sprung washer to DIN 137
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)

Variable earthing connector Rd 6-8 / 8-10 mm

Cu



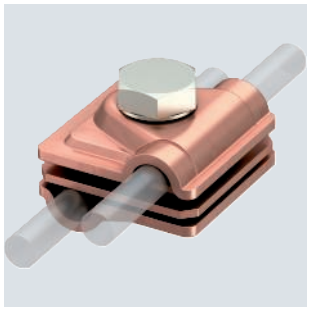


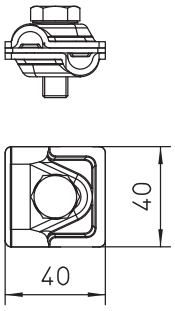
Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
249 6-10 CU	RD 6-8 / 8-10	40	H/100	10	14.540	**5311417**

- For T, cross-over and parallel connections with adapter plates
- Quick mounting using an M10 x 30 bolt, made from rustproof stainless steel A2
- With sprung washer to DIN 137
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)

Vario quick connector Rd 6-8 / Rd 6-8 mm

Cu



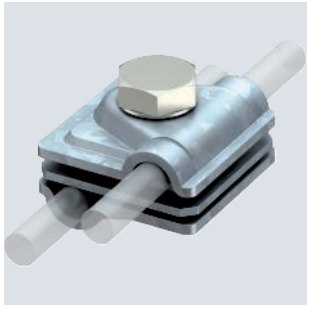


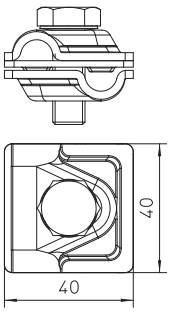
Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
249 6-8 CU	RD 6-8 / 6-8	40	H/100	10	12.710	**5311407**

- For T, cross-over and parallel connections with adapter plates
- Quick mounting using an M10 x 30 bolt, made from rustproof stainless steel (A2)
- With sprung washer to DIN 137
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)

Variable earthing connector Rd 6-8 / 8-10 mm

St FT





Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
249 6-10 ST	RD 6-8 / 8-10	40	H/100	20	13.100	**5311410**

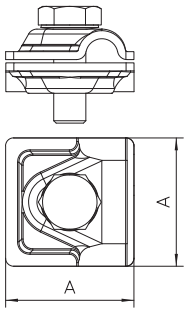
- For T, intersection and parallel connections with adapter plates
- Quick mounting using an M10 x 30 bolt, made from rustproof stainless steel
- With sprung washer to DIN 137
- Corresponds to the requirements of VDE 0185-305 (IEC 62305)

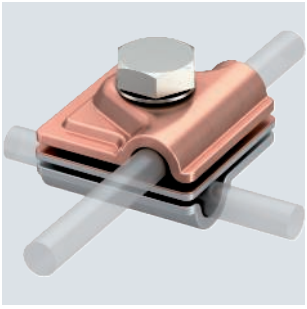
Cu

Variable bi-metal quick connector

Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA	Material	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 ZV	Rd 8-10	44	H/100	Cu	10	14.220	**5311535**

- Intermediate plate, copper/aluminium, top section copper and aluminium
- For T, cross and parallel connectors
- Quick installation using hexagonal bolt M10 x 30, high-grade stainless steel
- With spring washer according to DIN 137
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)



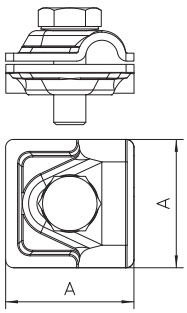


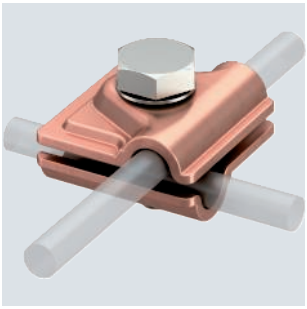
Cu

Vario quick connector

Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 CU	Rd 8-10	40	H/100	10	11.900	**5311527**

- For T, cross and parallel connectors
- Quick installation using hexagonal bolt M10 x 30, high-grade stainless steel
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)



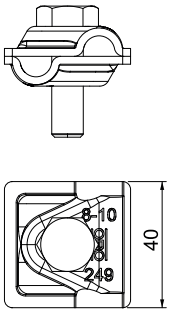


VA

Vario quick connector

Type	Fit mm	Lightning current carrying capacity kA	Short-circuit current (50 HZ) (1 s;≤300 °C) kA	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 V4A	Rd 8-10	H/100	1.4	10	9.500	**5311404**

- For T, cross-over and parallel connections
- Complete component made of A4
- Quick mounting using an M10 x 30 bolt, made from rustproof stainless steel
- Meets the requirements of VDE 0185-305 (IEC 62305)



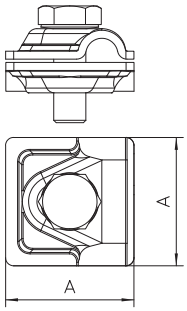


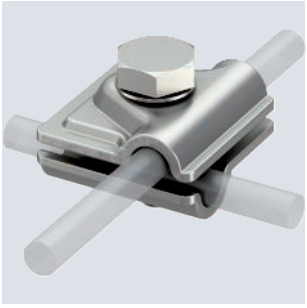
VA

Vario quick connector

Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 VA	Rd 8-10	40	H/100	10	9.276	**5311551**

- For T, cross and parallel connectors
- Quick installation using hexagonal bolt M10 x 30, high-grade stainless steel
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)



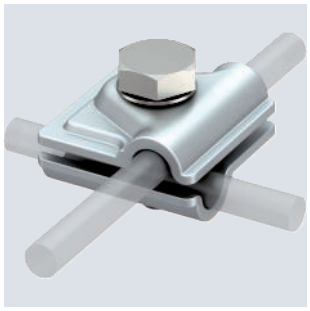


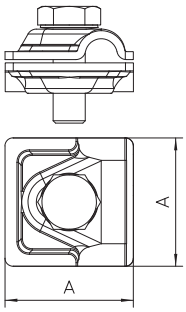
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Connectors

Vario quick connector

Alu



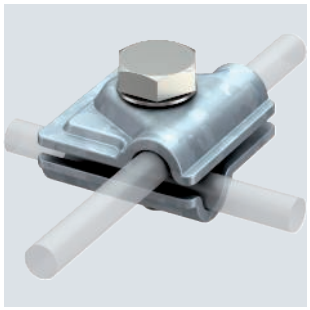


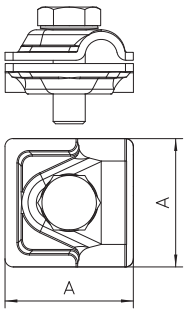
Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 ALU	Rd 8-10	44	H/100	30	6.600	**5311519**
249 B ALU	Rd 8-10	44	H/100	100	7.250	**5311713**

- For T, cross and parallel connectors
- Quick installation using hexagonal bolt M10 x 30, high-grade stainless steel
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

Vario quick connector

St FT





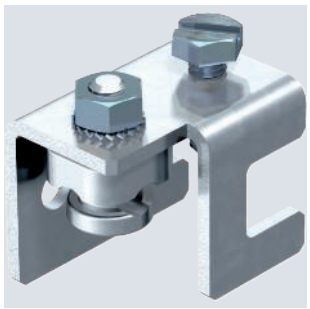
Type	Fit mm	Dim. A mm	Short-circuit current (50 HZ) (1 s;≤300 °C) kA	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
249 8-10 ST	Rd 8-10	40	5.6	H/100	20	9.306	**5311500**
249 B ST	Rd 8-10	40	5.6	H/100	100	10.800	**5311705**

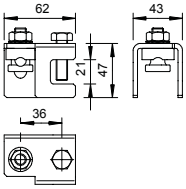
- For T, cross and parallel connectors
- Quick installation using hexagonal bolt M10 x 30, high-grade stainless steel
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

Accessories, connection clamps and connection terminals

Construction clamp to 20 mm

St FT





Type	Fit mm	Clamping range mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
5010 20 FT	Rd 8-10	4-20	N/50	10	30.600	**5304520**

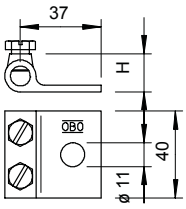
- Mounting of the round conductor possible vertically or transverse to construction
- For fastening to constructions up to a flange thickness of 20 mm
- Fastening to constructions using a hexagonal bolt M10
- Meets the requirements of VDE 0185-305 (IEC 62305)

TG F

Clamping shoe

Type	Fit mm	Pack Piece	Weight kg/100 pc.	Item no.
319 8	Rd 8	25	7.800	5325307
319 10	Rd 10	25	9.650	5325315

- With Ø 11 mm attaching hole
- 2 hexagonal bolts M8 x 16
- Bolts hot-dip galvanised steel and clamping element hot dipped galvanised cast steel



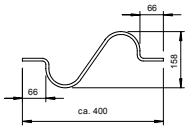


Alu

Expansion piece

Type	Pack Piece	Weight kg/100 pc.	Item no.
172 AR	10	7.500	5218926

- For equalising temperature-related length changes
- Necessary on conductor lengths over 20 m
- From round conductor Rd 8-Al



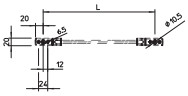


Cu

Bridging cable

Type	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
853 200	200	10	4.840	5331008
853 300	300	10	7.260	5331013
853 400	400	10	9.680	5331017

- With aluminium cable lugs
- From flexible copper cable 16 mm²
- Coating: Black, chlorinated EM5 natural rubber mixture
- With 1 fastening hole Ø 10.5 mm per attachment side
- With 2 fastening holes Ø 6.5 mm per attachment side
- Suitable for applications outside or inside
- Temperature range –25 °C to +80 °C (moved) and –40 °C to +80 °C (not moved)
- UV-stable



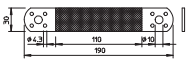


Cu

Connection and expansion strip

Type	Pack Piece	Weight kg/100 pc.	Item no.
856	10	8.125	5331501

- Copper strip 35 mm², tin-plated
- Highly flexible with rigid ends
- Each end with 1 fastening hole Ø 10 mm and 4 fastening holes Ø 4.3 mm

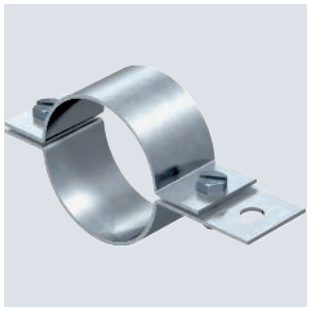


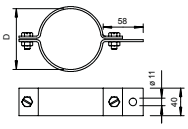


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Pipe clamp

St FT





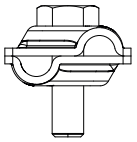
Type	For pipe mm	For pipe inch	Pack Piece	Weight kg/100 pc.	Item no.
303 DIN-3/8	17.2	3/8	5	22.600	**5102057**
303 DIN-1/2	21.3	1/2	5	23.280	**5102073**
303 DIN-3/4	26.9	3/4	5	25.640	**5102081**
303 DIN-1	33.7	1	5	28.300	**5102111**
303 DIN-1 1/4	42.4	11/4	5	31.300	**5102138**
303 DIN-1 1/2	48.3	11/2	5	33.220	**5102154**
303 DIN-2	60.3	2	5	36.840	**5102197**
303 DIN-2 1/2	76.1	21/2	10	39.400	**5102219**
303 DIN-3	88.9	3	10	43.300	**5102235**
303 DIN-3 1/2	100	31/2	10	64.900	**5102251**
303 DIN-4	114.3	4	10	66.800	**5102278**

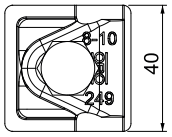
- DIN 48818, Form D
- With Ø 11 mm mounting hole
- 2 hexagonal bolts M8 x 20 (4 inch = M10)
- 2 hex-head nuts M8 (4 inch = M10)

Vario quick connector

VA





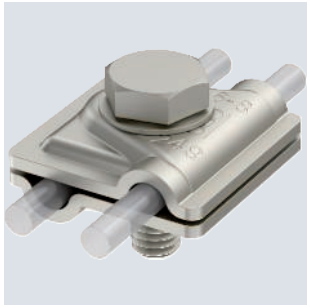


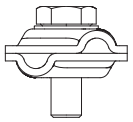
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
249 S7 V4A	Rd 8-10	H/100	5000	9.500	**5311405**

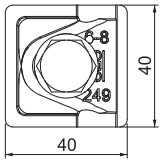
- For T, cross-over and parallel connections
- Complete component made of A4
- Quick mounting using an M10 x 30 bolt, made from rustproof stainless steel
- Meets the requirements of VDE 0185-305 (IEC 62305)

Vario quick connector Rd 6-8 / Rd 6-8 mm

A2







Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
249 6-8 VA CH	RD 6-8 / 6-8	40	H/100	10	9.140	**5311423**

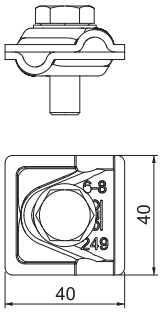
- For T, cross and parallel connectors
- Quick installation using hexagonal bolt M10 x 30, high-grade stainless steel
- Conforms to the requirements according to DIN VDE 0185-305 (IEC 62305)

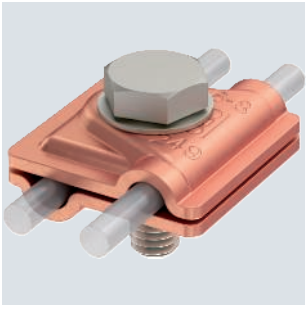
Cu

Vario quick connector Rd 6-8 / Rd 6-8 mm

Type	Fit mm	Dim. A mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
249 6-8 CU CH	RD 6-8 / 6-8	40	H/100		10	9.951	**5311421**

- For T, cross-over and parallel connections
- Quick mounting using an M10 x 30 bolt, made from rustproof stainless steel (A2)
- Meets the requirements of VDE 0185-305 (IEC 62305)



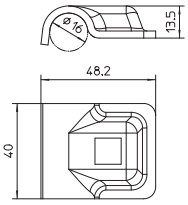


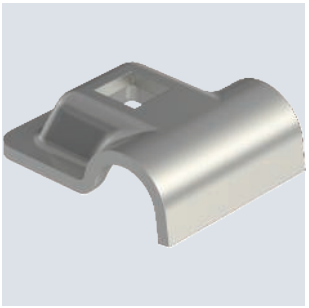
VA

Quick connector, upper part Rd 16 mm

Type	Fit mm			Pack Piece	Weight kg/100 pc.	Item no.
249 VA-OT	16			100	5.700	**5311573**

- For round conductor fastening RD 16
- Suitable for M10 bolts





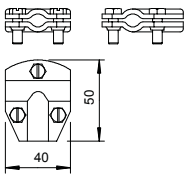
T connector

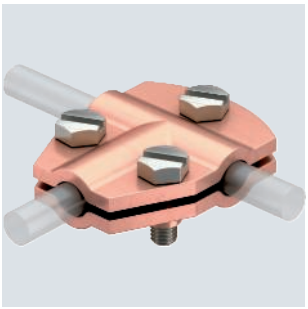
Cu

T connector Rd 8-10 mm, triple-screwed

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
247 8-10 CU	Rd 8-10	N/50		10	10.750	**5311268**

- With 3 hexagonal bolts M6 x 16 (VA)
- Complies with the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)



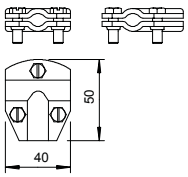


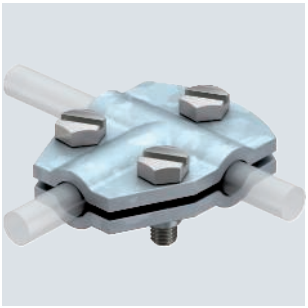
St FT

T connector Rd 8-10 mm, triple-screwed

Type	Fit mm	Lightning current carrying capacity kA		Pack Piece	Weight kg/100 pc.	Item no.
247 8-10 FT	Rd 8-10	N/50		10	10.934	**5311209**

- With 3 hexagonal bolts M6 x 16 (VA)

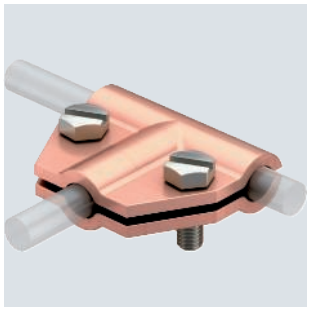


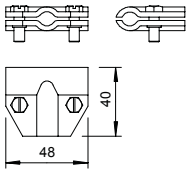


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T connector Rd 8–10 mm

Cu





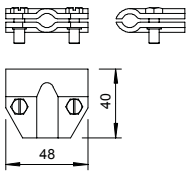
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
245 8-10 CU	Rd 8-10	N/50	10	11.560	**5311152**

- With 2 hexagonal bolts M6 x 16 (VA)
- Complies with the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)

T connector Rd 8–10 mm

St FT



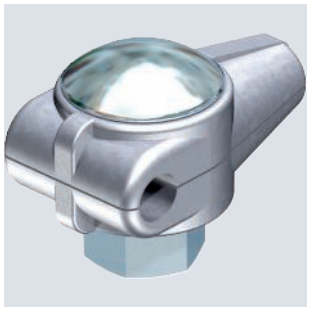


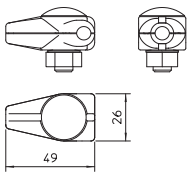
Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
245 8-10 FT	Rd 8-10	N/50	10	9.401	**5311101**

- With 2 hexagonal bolts M6 x 16 (VA)
- Complies with the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)

T connector Rd 8 mm

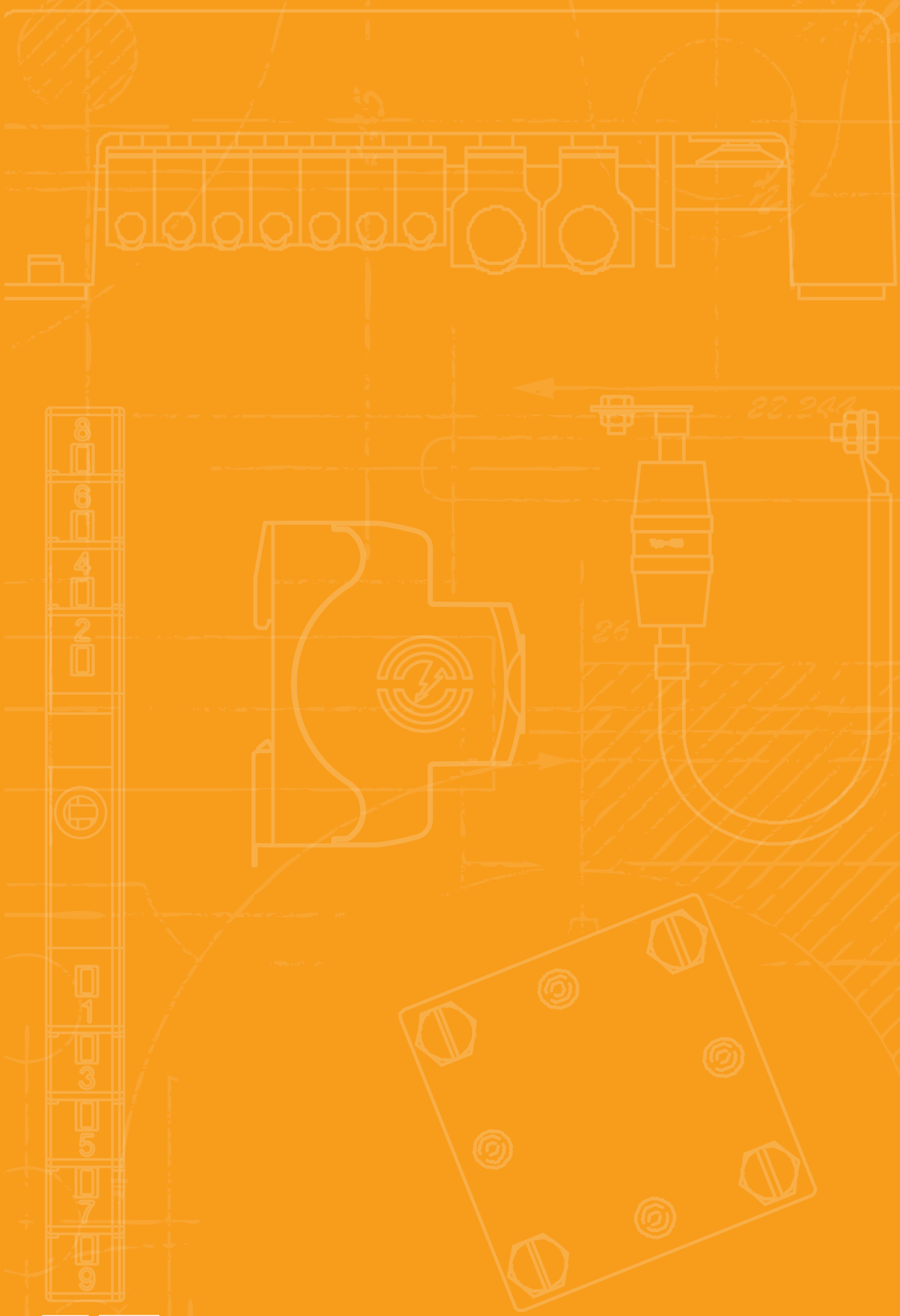
Zn G





Type	Fit mm	Lightning current carrying capacity kA	Pack Piece	Weight kg/100 pc.	Item no.
244	Rd 8	N/50	10	11.580	**5311039**

- With truss-head bolt M10 x 30 and hexagonal nut M10
- Complies with the requirements of VDE 0185-305-3 (IEC/ EN 62305-3)



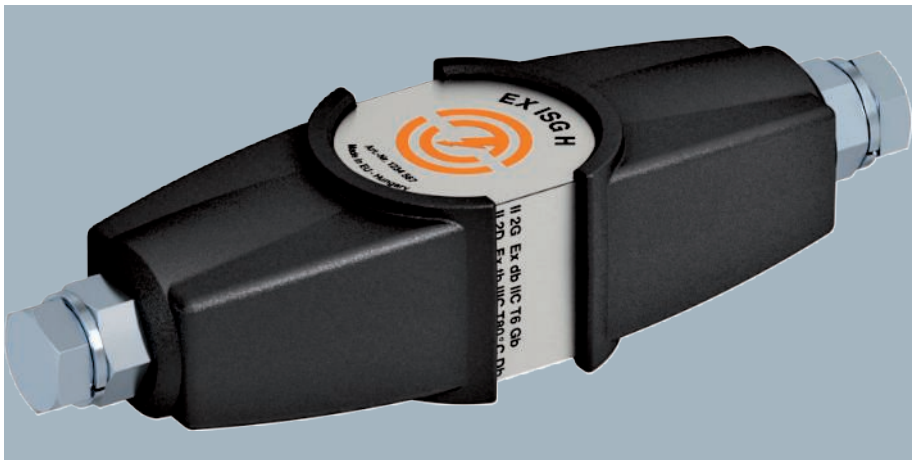
Protection and spark gaps

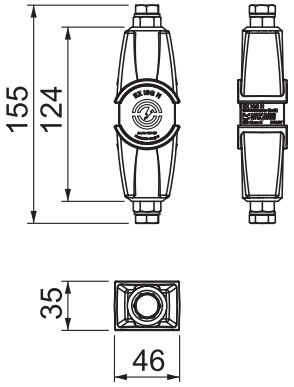


Protection and spark gaps 214

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EX ISG H spark gap, with 2 cables





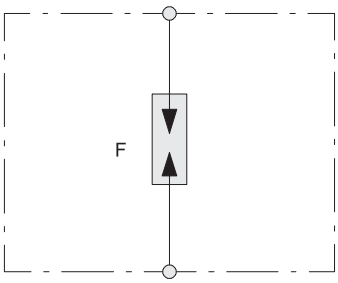
Type		Pack Piece	Weight kg/100 pc.	Item no.
EX ISG H 350 2L		1	74.155	**5240033**

- Spark gap to VDE 0185-561-3 (IEC 62561-3)
- Ex certificate to ATEX
- Labelling to EN 60079-0/-1: II 2 G Ex db IIC T6 Gb
- Labelling to EN 60079-0/-31: II 2 D Ex td IIIC T80 °C Db IP67
- Ex certificate to IECEx
- Labelling to IEC 60079-0/-1: Ex db IIC T6 Gb
- Labelling to IEC 60079-0/-31: Ex td IIIC T80 °C Db IP67
- Ex certificate to INMETRO
- Labelling to ABNT NBR IEC 60079-0/-1: Ex db IIC T6 Gb
- Labelling to ABNT NBR IEC 60079-31: Ex tb IIIC T80 °C Db IP67

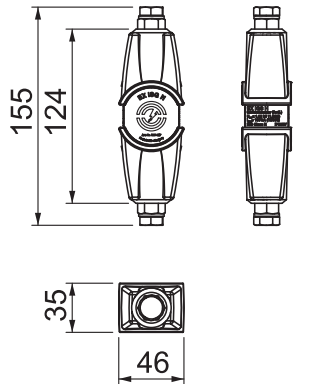
Application: In potentially explosive areas zones 1/21 and 2/22, indirect bridging of insulating flanges and insulating glands, e.g. in cathodic, corrosion-protected (KKS) systems.

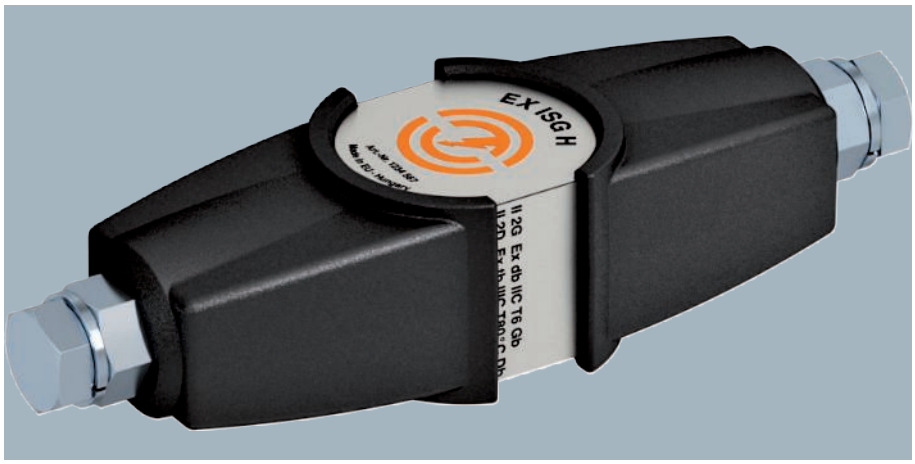
EX ISG H 350 2L		
Connecting cable length		0.35 m
Rated impulse sparkover voltage	$U_{r\ imp}$	1.25 kV
Rated DC withstand voltage	U_{wDC}	354 V
Rated power frequency withstand voltage	U_{wAC}	250 V
Power frequency spark-over voltage	U_{AS}	0.56 kV
Impulse discharge current (10/350)	I_{imp}	100 kA
Nominal discharge current (8/20)	I_n	100 kA
Lightning current carrying capacity		H/100 kA
Temperature range	ϑ	-20 - +60 °C

Connection options



EX ISG H spark gap



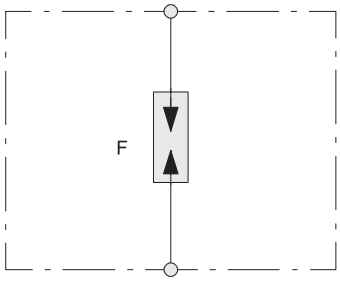


- Spark gap to VDE 0185-561-3 (IEC 62561-3)
- Ex certificate to ATEX
- Labelling to EN 60079-0/-1: II 2 G Ex db IIC T6 Gb
- Labelling to EN 60079-0/-31: II 2 D Ex td IIIC T80 °C Db IP67
- Ex certificate to IECEx
- Labelling to IEC 60079-0/-1: Ex db IIC T6 Gb
- Labelling to IEC 60079-0/-31: Ex td IIIC T80 °C Db IP67
- Ex certificate to INMETRO
- Labelling to ABNT NBR IEC 60079-0/-1: Ex db IIC T6 Gb
- Labelling to ABNT NBR IEC 60079-31: Ex tb IIIC T80 °C Db IP67

Application: In potentially explosive areas zones 1/21 and 2/22, indirect bridging of insulating flanges and insulating glands, e.g. in cathodic, corrosion-protected (KKS) systems.

Type		Pack Piece	Weight kg/100 pc.	Item no.
EX ISG H		1	41.360	**5240030**

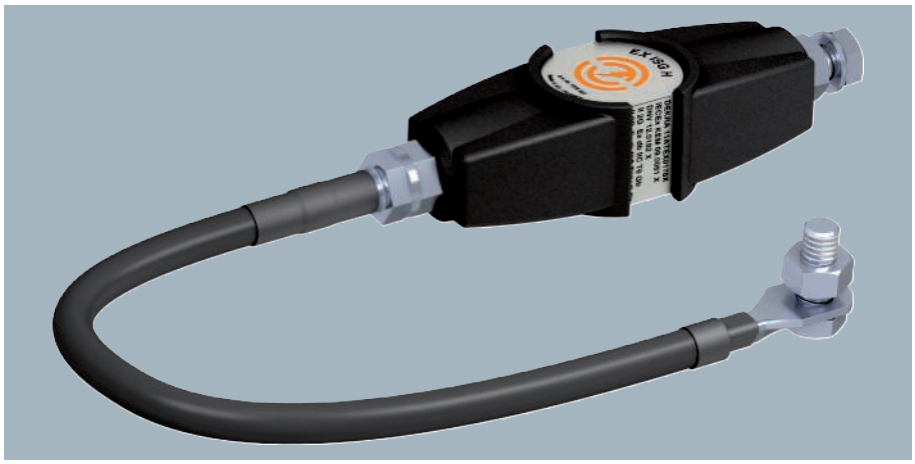
Connection options

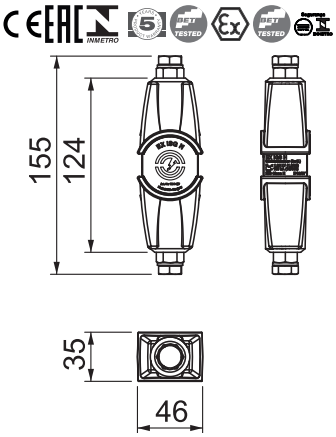


EX ISG H		
Connecting cable length		0 m
Rated impulse sparkover voltage	$U_{r\,imp}$	1.25 kV
Rated DC withstand voltage	U_{wDC}	354 V
Rated power frequency withstand voltage	U_{wAC}	250 V
Power frequency spark-over voltage	U_{AS}	0.56 kV
Impulse discharge current (10/350)	I_{imp}	100 kA
Nominal discharge current (8/20)	I_n	100 kA
Lightning current carrying capacity		H/100 kA
Temperature range	ϑ	-20 - +60 °C

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EX ISG H spark gap, with one cable





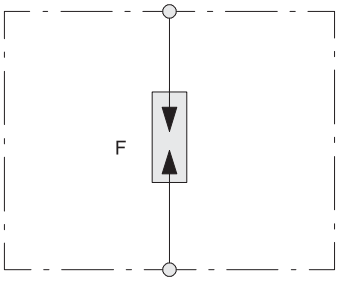
Type		Pack Piece	Weight kg/100 pc.	Item no.
EX ISG H 350		1	57.260	**5240031**

- Spark gap to VDE 0185-561-3 (IEC 62561-3)
- Ex certificate to ATEX
- Labelling to EN 60079-0/-1: II 2 G Ex db IIC T6 Gb
- Labelling to EN 60079-0/-31: II 2 D Ex td IIIC T80 °C Db IP67
- Ex certificate to IECEx
- Labelling to IEC 60079-0/-1: Ex db IIC T6 Gb
- Labelling to IEC 60079-0/-31: Ex td IIIC T80 °C Db IP67
- Ex certificate to INMETRO
- Labelling to ABNT NBR IEC 60079-0/-1: Ex db IIC T6 Gb
- Labelling to ABNT NBR IEC 60079-31: Ex tb IIIC T80 °C Db IP67

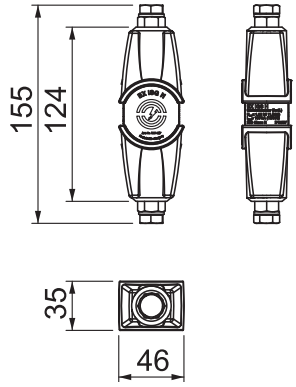
Application: In potentially explosive areas zones 1/21 and 2/22, indirect bridging of insulating flanges and insulating glands, e.g. in cathodic, corrosion-protected (KKS) systems.

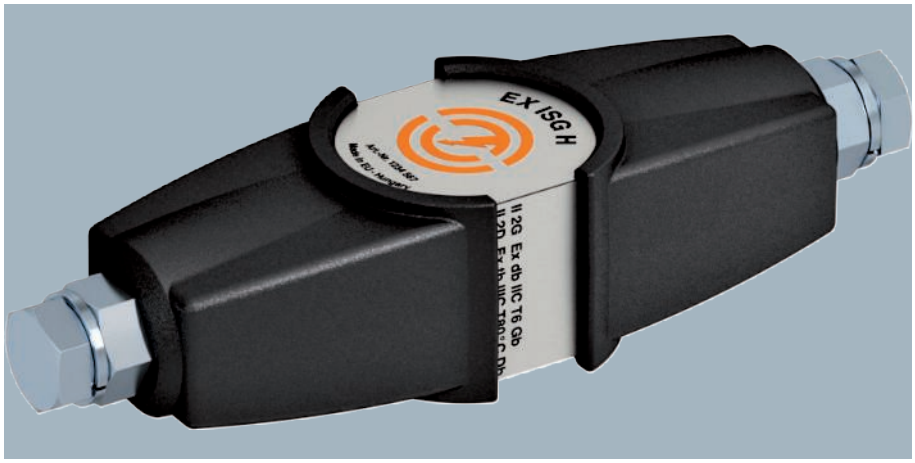
EX ISG H 350		
Connecting cable length		0.35 m
Rated impulse sparkover voltage	$U_{r\ imp}$	1.25 kV
Rated DC withstand voltage	U_{wDC}	354 V
Rated power frequency withstand voltage	U_{wAC}	250 V
Power frequency spark-over voltage	U_{AS}	0.56 kV
Impulse discharge current (10/350)	I_{imp}	100 kA
Nominal discharge current (8/20)	I_n	100 kA
Lightning current carrying capacity		H/100 kA
Temperature range	ϑ	-20 - +60 °C

Connection options



EX ISG H spark gap, jacketed



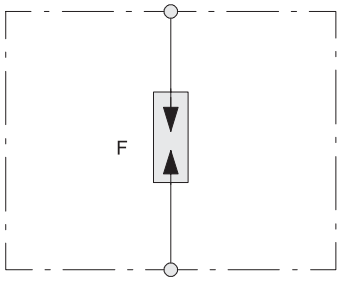


- Spark gap to VDE 0185-561-3 (IEC 62561-3)
- Ex certificate to ATEX
- Labelling to EN 60079-0/-1: II 2 G Ex db IIC T6 Gb
- Labelling to EN 60079-0/-31: II 2 D Ex td IIIC T80 °C Db IP67
- Ex certificate to IECEx
- Labelling to IEC 60079-0/-1: Ex db IIC T6 Gb
- Labelling to IEC 60079-0/-31: Ex td IIIC T80 °C Db IP67
- Ex certificate to INMETRO
- Labelling to ABNT NBR IEC 60079-0/-1: Ex db IIC T6 Gb
- Labelling to ABNT NBR IEC 60079-31: Ex tb IIIC T80 °C Db IP67

Application: In potentially explosive areas zones 1/21 and 2/22, indirect bridging of insulating flanges and insulating glands, e.g. in cathodic, corrosion-protected (KKS) systems.

Type		Pack Piece	Weight kg/100 pc.	Item no.
EX ISG H KU		1	210.300	**5240032**

Connection options

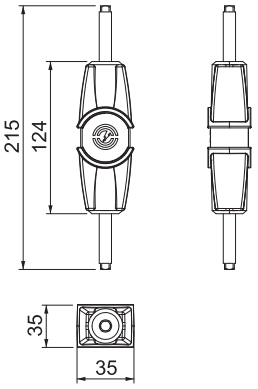


EX ISG H KU		
Connecting cable length		2 m
Rated impulse sparkover voltage	$U_{r\,imp}$	1.25 kV
Rated DC withstand voltage	U_{wDC}	354 V
Rated power frequency withstand voltage	U_{wAC}	250 V
Power frequency spark-over voltage	U_{AS}	0.56 kV
Impulse discharge current (10/350)	I_{imp}	100 kA
Nominal discharge current (8/20)	I_n	100 kA
Lightning current carrying capacity		H/100 kA
Temperature range	ϑ	-20 - +60 °C

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ISG N spark gap



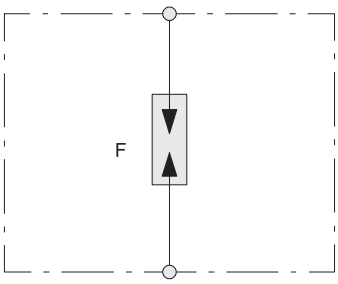


Type		Pack Piece	Weight kg/100 pc.	Item no.
ISG N		1	41.300	**5240089**

- For indirect connection of operatively separated system parts in case of lightning impact
- Use according to lightning protection equipotential bonding according to DIN EN 62305/VDE 0185
- With corrosion-resistant stainless steel connections
- Suitable for installation in indoor and outdoor areas and in wet rooms
- Low maintenance thanks to long-life graphite technology
- Particularly low rated contact surge voltage

ISG N		
Connecting cable length		0 m
Rated impulse sparkover voltage	$U_{r\ imp}$	1.5 kV
Rated DC withstand voltage	U_{wDC}	354 V
Rated power frequency withstand voltage	U_{wAC}	250 V
Power frequency spark-over voltage	U_{AS}	640 kV
Impulse discharge current (10/350)	I_{imp}	50 kA
Nominal discharge current (8/20)	I_n	100 kA
Lightning current carrying capacity		N/50 kA
Temperature range	ϑ	-20 - +80 °C

Connection options

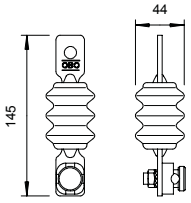


Protective spark gap

Type	Protection level kV	Nominal discharge current (8/20) kA	Power frequency spark-over voltage kV		Pack Piece	Weight kg/100 pc.	Item no.
482	< 10	25	10		1	56.000	**5240050**

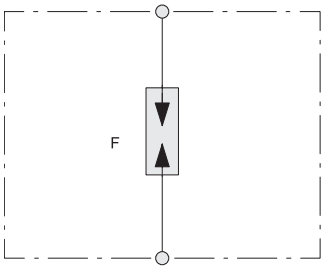
Closed spark gap for bridging a proximity point between roof standard of low-voltage system and components of outer lightning protection system.

- Protection rating IP 54
- With pre-mounted type 5001 connector for attaching round conductors Rd 8 - 10





Connection options



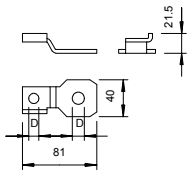
Accessories

St F

Connection bracket for Parex spark gap

Type	Drill hole Ø mm	Version		Pack Piece	Weight kg/100 pc.	Item no.
484 M12	13	For M12 bolt		2	8.100	**5240220**
484 M16	17	For M16 bolt		2	7.700	**5240239**
484 M20	21	For M20 bolt		2	7.300	**5240247**
484 M24	25	For M24 bolt		2	6.800	**5240255**

Attaching flange for installing OBO Parex spark gap 480 on insulating flanges.



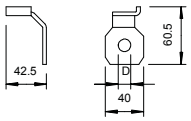


St F

Connection bracket for Parex spark gap

Type	Drill hole Ø mm	Version		Pack Piece	Weight kg/100 pc.	Item no.
485 M12	13	For M12 bolt		2	8.100	**5240328**
485 M10	11	For M10 bolt		2	8.300	**5240301**
485 M16	17	For M16 bolt		2	7.700	**5240336**

Attaching flange for installing OBO Parex spark gap 480 on insulating flanges.

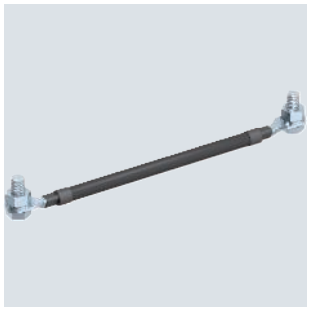


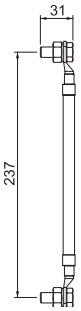


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Connection cable – AL EX ISG

Cu





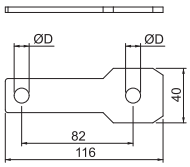
Type	Dimension mm	Pack Piece	Weight kg/100 pc.	Item no.
AL EX ISG 100	100	1	9.600	**5240102**
AL EX ISG 200	200	1	12.300	**5240104**
AL EX ISG 300	300	1	15.200	**5240106**

UV-resistant connection cable (copper 25 mm²) for mounting the OBO Ex spark gap, type EX ISG, on insulating flanges and insulating pieces. With cable shoe for M10 bolts on both sides, on one side with M10 bolt, nuts and spring ring.

Connection clamp AB EX ISG, straight

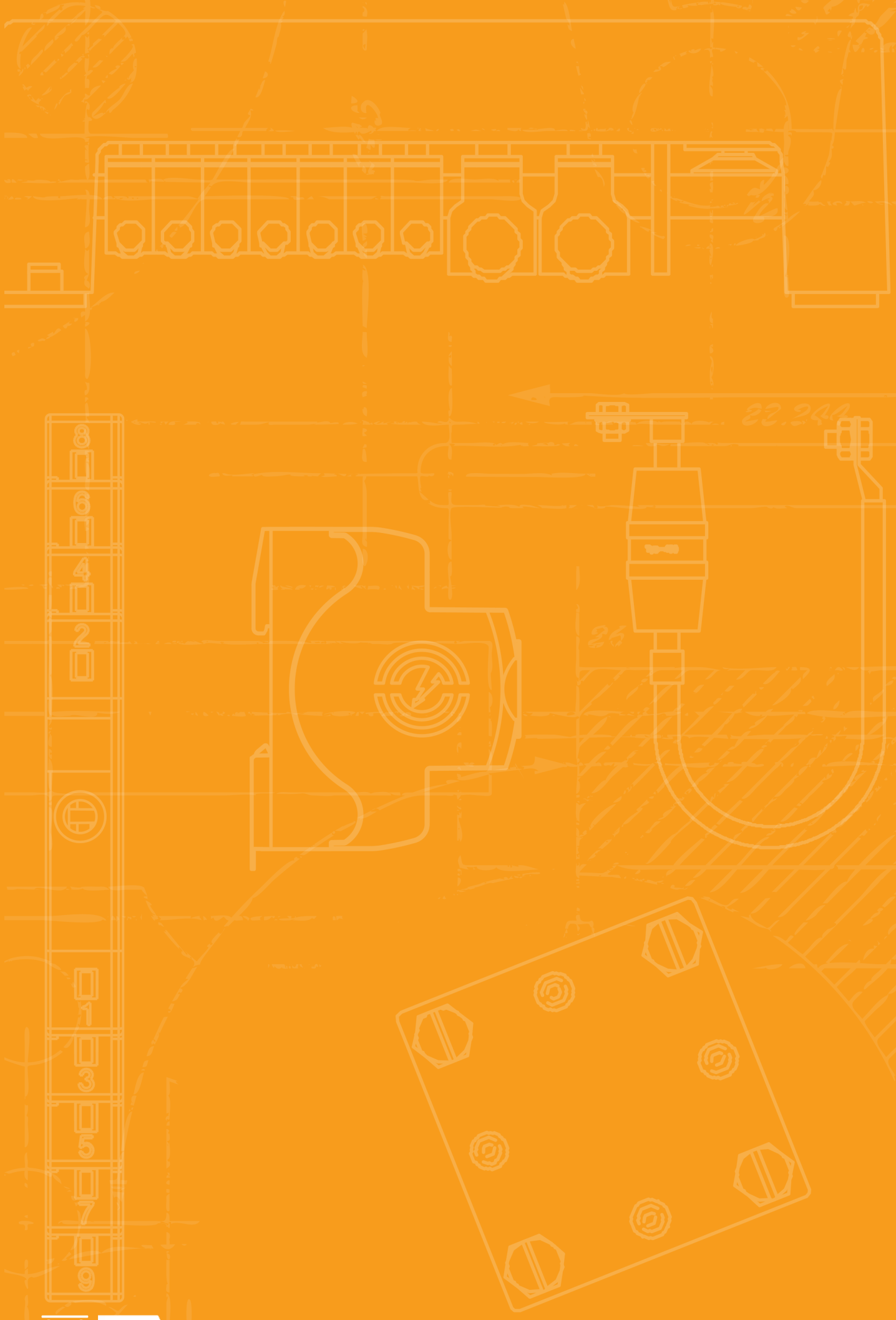
St FT





Type	Drill hole Ø mm	Version	Pack Piece	Weight kg/100 pc.	Item no.
AB EX ISG S M10	11	For M10 bolt	2	9.000	**5240360**
AB EX ISG S M12	14	For M12 bolt	2	8.900	**5240362**
AB EX ISG S M16	18	For M16 bolt	2	8.600	**5240366**
AB EX ISG S M20	22	For M20 bolt	2	8.200	**5240370**
AB EX ISG S M24	26	For M24 bolt	2	7.800	**5240374**

Connection clamp for mounting the OBO Ex spark gap, type EX ISG, on insulating flanges and insulating pieces.



Accessories, external lightning protection

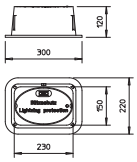


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Underfloor test box

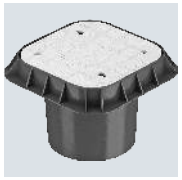


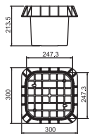


Type		Pack Piece	Weight kg/100 pc.	Item no.
5700		1	720.000	5106002

- Without base
- Cast iron, painted black
- Without cut-off unit
- To VDE 0185-561-5 (IEC 62561-5) suitable for heavy loads (up to 40 kN/ 4.0 t)

Underfloor test box



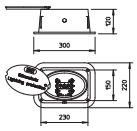


Type		Pack Piece	Weight kg/100 pc.	Item no.
5700 PIP		1	180.000	5106045

- Made of plastic
- Without separating piece
- According to VDE 0185-561-5 (IEC 62561-5)

Inspection pit with integrated separation piece





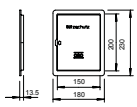
Type		Pack Piece	Weight kg/100 pc.	Item no.
5700 SP		1	770.000	5106003

- Without base
- Cast iron, painted black
- With built-in cut-off unit for round conductors Rd 8-10 and flat conductors to FL 40
- To VDE 0185-561-5 (IEC 62561-5) suitable for heavy loads (up to 40 kN/ 4.0 t)

Inspection door

St FS





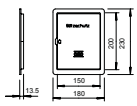
Type		Pack Piece	Weight kg/100 pc.	Item no.
5800 VZ		1	46.000	5106133

- Lightweight design for flush-mounted separation points
- With fastening straps to be bent

Inspection door

VA





Type		Pack Piece	Weight kg/100 pc.	Item no.
5800 VA		1	46.000	5106141

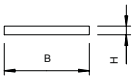
- Lightweight design for flush-mounted separation points
- With fastening straps to be bent

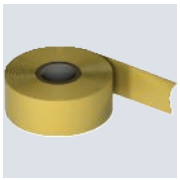
PETR

Corrosion protection strip

Type	Width mm	Length m	Pack Piece	Weight kg/100 pc.	Item no.
356 50	50	10	1	59.000	**2360055**
356 100	100	10	1	122.200	**2360101**

- Approx. 1.1 mm thick
- Width: 50 mm or 100 mm, made of petrolatum-coated chemical fibre fabric
- Can be processed cold

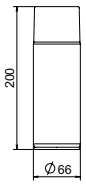




Zinc repairs

Type	Dimension	Pack Piece	Weight kg/100 pc.	Item no.
ZSF	400ml	1	45.000	**2362970**

Zinc spray for treatment of unprotected surfaces and cutting edges. Can contents: 400 ml.

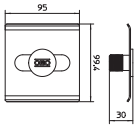


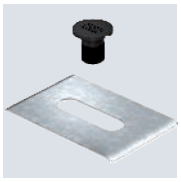


TrayFix mounting adapter for mesh cable trays on FangFix system

Type	Dimension	Pack Piece	Weight kg/100 pc.	Item no.
TrayFix	ø20mm	25	9.850	**5403100**

- Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone, e.g. cable routing on a flat roof
- Adapted to OBO cable tray systems MKSM, SKSM and IKSM
- Adapted to OBO mesh cable tray systems with a minimum width of 100 mm



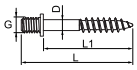


St G

Screw-in anchor with M6 thread

Type	Dim. L mm	Dim. L1 mm	Dim. D mm	Dim. G mm	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
985 M6 25	35	25	4.3	M6	3000	100	0.412	**3133028**
985 M6 35	45	35	4.3	M6	2000	100	0.533	**3133036**

With wood screw shank and M6 thread.



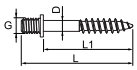


St G

Screw-in anchor with M8 thread

Type	Dim. L mm	Dim. L1 mm	Dim. D mm	Dim. G mm	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
985 M8 35	47	35	5.2	M8	1200	100	0.950	**3133230**

With wood screw shank and M8 thread.





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Directional irons

St FT





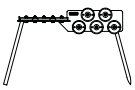
Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
364	297	1	35.000	3051013

• Directional iron for bending and aligning conductors

Wire straightening machine

St



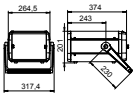


Type	Pack Piece	Weight kg/100 pc.	Item no.
5900	1	3,300.000	3059006

• Factory-set for round conductor Rd 8
• Structure, steel, painted
• Straightening rolls, galvanised cast iron

Card reader PCS-CS..





Type	Country version	Nom. V	Measuring range	Measuring tolerances	Pack Piece	Weight kg/100 pc.	Item no.
PCS-CS-GB	GB	230	3--120 kA	< 2 kA (< 2%)	1	750.000	5091691

Magnetic card reader for reading and analysing PCS cards.

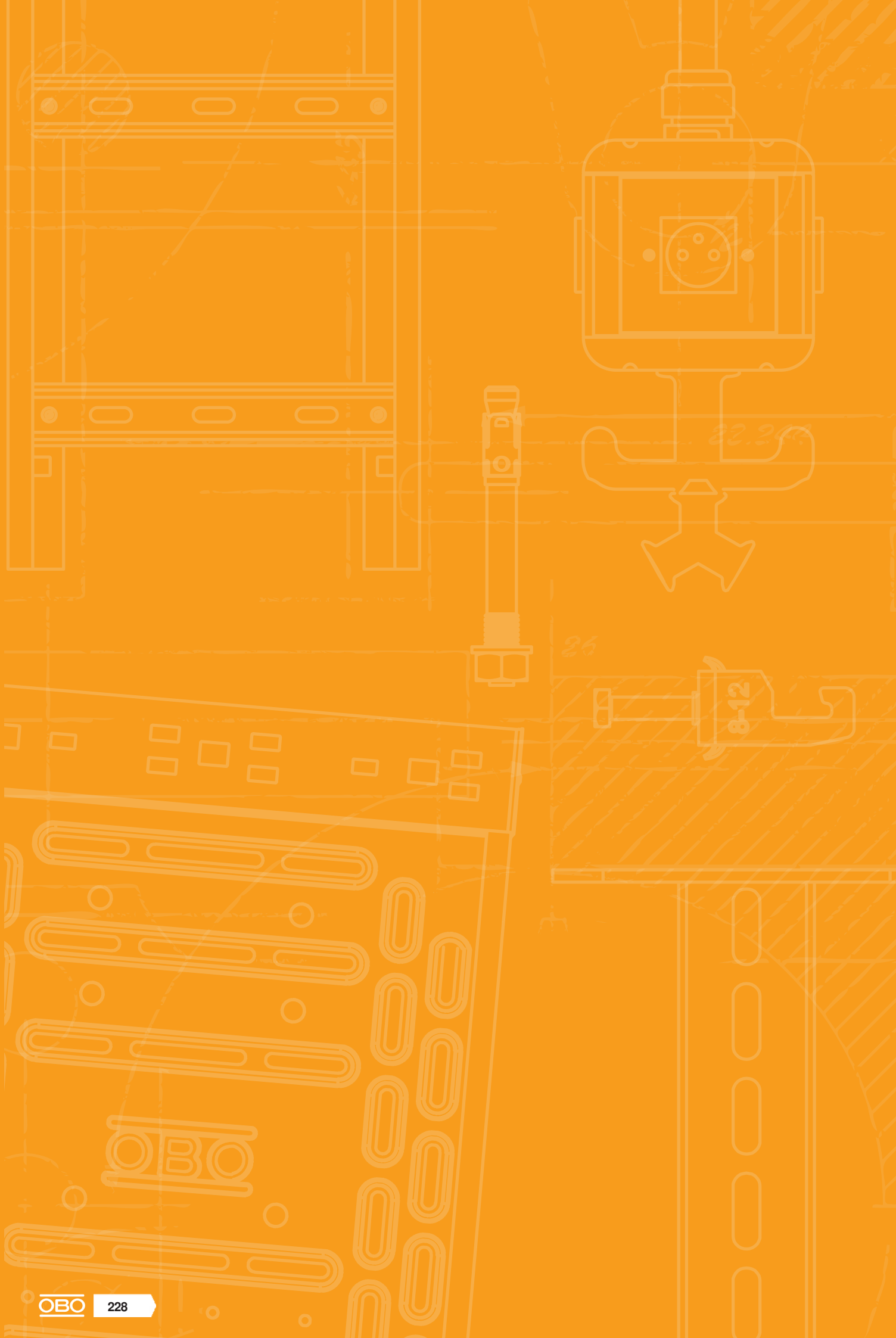
• Inc. rechargeable battery for 4 h continuous, no-mains operation
• Large, clear display

Straightening roller for wire straightening machine



Type	Pack Piece	Weight kg/100 pc.	Item no.
5900 R	1	120.000	3059014

5900/R: For wire straightening machine 5900, complete with axis, roller made of galvanised cast iron



Directories

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	For the latest general conditions of sale and delivery please see obo.de/vlb.	

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Test marks

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

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

Pictogram explanation

Surfaces

FS	Strip galvanised
FSK	Strip galvanised/plastic-coated
DD	Strip galvanised zinc/aluminium, double dip
BK	Bright
2B	Bright, reworked
EL	Anodised
F	Hot-dip galvanised
G	Electrogalvanised
GK	Electrogalvanised/plastic-coated
GCL	Electrogalvanised, yellow-chromatised
GGP	Electrogalvanised, yellow passivated
GTP	Electrogalvanised, transparently passivated
GR	Primed
L	Painted
SG	Welding primed
FT	Hot-dip galvanised
FT SO	Hot-dip galvanised 85 µm
Cu	Copper-plated
N	Nickel-plated
ZD	Galvanised, Deltatone 500
ZDM	Galvanised, MAGNI 565
GA	Zinc-aluminium coated, Galfan
ZL	Zinc scale

Conformity symbol

CE	Communautés Européennes, EC declaration of conformity according to EC directives
RoHS conform	RoHS-conformant

Quality marks

	Halogen-free; without chlorine, fluorine and bromine
650°	Flame resistant 650 °C
750°	Flame resistant 750 °C
960°	Flame resistant 960 °C
UV resistant	UV-resistant

Specific product symbols

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

Applications

FS	Remote signalling
AS	Acoustic signalling
ISDN	Integrated Service Digital Network, ISDN applications
DSL	Digital Subscriber Line, DSL applications
Analog TK	Analogue telecommunication
Cat 5	Category 5 TwisterPair
Cat 6_A	Channel Performance to American EIA/TIA standard
MSR	Measuring, controlling and regulating systems
TV	TV applications
SAT	SAT-TV applications
Mu	MultiBase base
	LifeControl
EX	Intrinsically safe protection device for potentially explosive areas
Class E_A	Channel Performance to ISO/IEC 11801
PoE	Power over Ethernet
230/ 400 V System	230/400 V system
IP 54	Protection rating IP 54
IP 65	Protection rating IP 65

Lightning protection classes

Type 1	Protection device to DIN EN 61643-11 or IEC 61643-11
Type 1+2	Combination protection device made of type 1 and type 2
Type 2	Protection device to DIN EN 61643-11 or IEC 61643-11

Lightning protection classes

Type 2+3	Protection device to DIN EN 61643-11 or IEC 61643-11
Type 3	Protection device to DIN EN 61643-11 or IEC 61643-11

Lightning protection zone

LPZ 0→1	Transition from LPZ 0 to LPZ 1
LPZ 0→2	Transition from LPZ 0 to LPZ 2
LPZ 0→3	Transition from LPZ 0 to LPZ 3
LPZ 1→2	Transition from LPZ 1 to LPZ 2
LPZ 1→3	Transition from LPZ 1 to LPZ 3
LPZ 2→3	Transition from LPZ 2 to LPZ 3

BSS maintenance of electrical function installation

	Fire-tested systems
	Escape route ceiling mounting with pressure clip
	OBO Grip, wall routing type
	OBO Grip, ceiling routing type
	Pressure clip for maintenance of electrical function, ceiling mounting

BSS anchor

	Fire protection anchor
	Fire protection bolt tie

BSS test marks/material class

E30	Maintenance of electrical function class E30
E90	Maintenance of electrical function class E90

Clamp clip base shapes

N	Clamp clip for C profile rail, slot width 11–12 mm
H	Clamp clip for C profile rail, slot width 16–17 mm
U	Clamp clip for C profile rail, slot width 18–22 mm

Diameter

Ø 60	Diameter 60 mm
Ø 68	Diameter 68 mm
Ø 70	Diameter 70 mm
Ø 74	Diameter 74 mm

Entries

4	4 cable entries
6	6 cable entries
7	7 cable entries
8	8 cable entries
9	9 cable entries
10	10 cable entries
12	12 cable entries
10	10 cable entries ECO
12	12 cable entries ECO
14	14 cable entries ECO
16	16 cable entries
18	18 cable entries ECO
24	24 cable entries

Gland thread

M	Thread metric
Pg	Thread Pg

Entry size

M20	M20 entry
M25	M25 entry
M32	M32 entry
M40	M40 entry

KTS side heights

	Cable tray, side height 35 mm
	Cable tray, side height 60 mm
	Cable tray, side height 85 mm
	Mesh cable tray, side height 35 mm
	Mesh cable tray, side height 55 mm

Materials

	Flat steel
	Angular steel
	U steel
	Round material

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Pictogram explanation

Nominal cross-section

1,5 mm²	Nominal cross-section 1.5 mm²
1,5-2,5 mm²	Nominal cross-section 1.5–2.5 mm²
2,5 mm²	Nominal cross-section 2.5 mm²
2,5-4 mm²	Nominal cross-section 2.5–4 mm²
4 mm²	Nominal cross-section 4 mm²
4-6 mm²	Nominal cross-section 4–6 mm²
6 mm²	Nominal cross-section 6 mm²
10 mm²	Nominal cross-section 10 mm²
16 mm²	Nominal cross-section 16 mm²

Nominal voltage

400 V	Nominal voltage 400 V
500 V	Nominal voltage 500 V
660 V	Nominal voltage 660 V

Polarity

3	3-pole
5	5-pole
7	7-pole
8	8-pole
10	10-pole
12	12-pole

Slot widths

7,5	Slot width 7.5 mm
11	Slot width 11 mm
11-12	Slot width 11–12 mm
12	Slot width 12 mm
15	Slot width 15 mm
16	Slot width 16 mm
16,5	Slot width 16.5 mm
16-17	Slot width 16–17 mm
17	Slot width 17 mm
18	Slot width 18 mm
22	Slot width 22 mm
35	Slot width 35 mm

Screw heads

	Philips screw
	Torx screw
	Phillips screw
	Pozidriv

Firing devices

	Bolt-firing tool
	Nail device

Protection rating

IP 20	Protection rating IP 20
IP 30	Protection rating IP 30
IP 31	Protection rating IP 31
IP 44	Protection rating IP 44
IP 54	Protection rating IP 54
IP 55	Protection rating IP 55
IP 65	Protection rating IP 65
IP 66	Protection rating IP 66
IP 67	Protection rating IP 67
IP 68	Protection rating IP 68

Metals

Alu	Aluminium
Alu/St	Aluminium/steel
A2	Stainless steel, rustproof
A4	Stainless steel, rustproof
A5	Stainless steel, rustproof
Cu	Copper
CuZn 37	Brass
St	Steel
TG	Malleable iron
Zn	Die-cast zinc

Plastics

ABS/ ASA	Acrylonitrile butadiene styrene
UF	Duroplast, Aminoplast, type 131.5
MF	Duroplast, melamine resin, type 150
EVA	Ethylene vinyl acetate

Plastics

FA	Fibre-proof material DIN 28091
GFK	Fibreglass-reinforced plastic
NBR SBR	Rubber mixture
NBR	Nitrile rubber
PETR	Petrolatum
PA	Polyamide
PA/ GF	Polyamide, fibreglass reinforced
PBPT	Polybutylene terephthalate
PC	Polycarbonate
PE	Polyethylene
PP	Polypropylene
PP/GF	Polypropylene, fibreglass reinforced
PS	Polystyrene
PVC	Polyvinylchloride
ZELL PE	Cellular polyethylene

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985 M6 35	5250456	3133036	115
985 M6 35	5250456	3133036	225
985 M8 35	5250579	3133230	116
985 M8 35	5250579	3133230	225
		/pc.	
AB EX ISG S M10	6524181	5240360	220
AB EX ISG S M12	6524242	5240362	220
AB EX ISG S M16	6524259	5240366	220
AB EX ISG S M20	6524273	5240370	220
AB EX ISG S M24	6524297	5240374	220
AL EX ISG 100	6521159	5240102	220
AL EX ISG 200	6521166	5240104	220
AL EX ISG 300	6521173	5240106	220
		/100 pc.	
DW FL30x3,5	6421053	2360043	105
DW RD10	6421046	2360041	105
		/pc.	
EX ISG H	6517381	5240030	215
EX ISG H 350	6521180	5240031	216
EX ISG H 350 2L	6522965	5240033	214
EX ISG H KU	6522941	5240032	217
		/100 pc.	
F-FIX-10	5070054	5403103	133
F-FIX-10B	5070061	5403110	133
		/pc.	
F-FIX-132	5613572	5403330	139
F-FIX-132	5613572	5403330	152
F-Fix-132-300	5813903	5403333	139
F-Fix-132-300	5813903	5403333	152
		/100 pc.	
F-FIX-16	5548713	5403200	133
F-FIX-16B	5110637	5403205	133
F-FIX-B10	5070085	5403124	134
F-FIX-B16	5548959	5403235	133

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		/pc.	
F-FIX-BASIS	5034933	5403324	130
F-FIX-JUNIOR	5034872	5403308	130
		/100 pc.	
F-FIX-KL	5548775	5403219	134
F-FIX-S10	5070078	5403117	134
F-FIX-S16	5548898	5403227	121
F-FIX-S16	5548898	5403227	126
F-FIX-S16	5548898	5403227	133
		/pc.	
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irod 12	6219346	5400812	124
irod 14	6219353	5400814	125
irod 19	6219360	5400817	125
ISAV1000R	5004608	5408849	148
ISAV1000W	5009733	5408852	148
isCon AP1-16 VA	5674696	5408026	129
isCon AP2-16 VA	5674702	5408028	129
isCon ASE 23	6876594	5408080	36
isCon ASE 23 IN	6876600	5408082	36
		price/100	
isCon BA 45 SW	6591664	5408014	34
		/pc.	
isCon con 2	6591671	5408021	37
isCon con PRE	6591688	5408023	37
isCon connect	5674689	5408022	37
isCon DH	5674863	5408043	39
		/100 pc.	
isCon EPPA 004	5813781	5408060	36
		/pc.	
isCon H 26 VA	5872696	5408064	39
isCon H VA	5699668	5408056	39
isCon H280 26 PA	5872757	5408072	38
isCon H280 26 VA	5872764	5408074	38
isCon H280 PA	5674887	5408049	38
isCon H280 VA	5674870	5408047	38
isCon HS 26 PA	5872702	5408066	39
isCon HS 26 VA	5872740	5408068	39
isCon HS VA	5674726	5408052	39
isCon HWS	5813774	5408058	40
isCon HWS EN	6586981	5408059	40
isCon IN con 2	6591695	5408019	37
isCon IN con PRE	6591701	5408020	37
isCon IN connect	5864172	5408024	37
isCon IN PAE	5871569	5408031	38
isCon IN PAE 2	6591633	5408032	38
isCon PAE	5674719	5408036	37
		price/100	
isCon PR 90 SW	6591657	5408018	33
isCon Pro 75 SW	6591640	5408008	33
isCon Pro+ 75 GR	5888123	5407995	32
isCon Pro+ 75 GR	5888154	5407997	32
isCon Pro+ 75 SW	5674573	5408002	31
isCon Pro+ 75 SW	5674627	5408004	31
isCon Pro+ 75 SW	5854265	5408006	31
		/pc.	
isCon stripper 2	6095346	5408013	36
isFang 3B-100	5670148	5408968	121
isFang 3B-100 AL	5802433	5408966	121
isFang 3B-100-A	5859550	5408930	129
isFang 3B-150	5674931	5408969	121
isFang 3B-150 AL	5802440	5408967	121
isFang 3B-150-A	5859567	5408932	129
isFang 3B-250-A	6219452	5408902	129
isFang 3B-G1	5674948	5408971	121
isFang 3B-G1	5674948	5408971	126
isFang 3B-G2	5674979	5408972	121
isFang 3B-G2	5674979	5408972	126
isFang 3B-G3	5674986	5408973	121
isFang 3B-G3	5674986	5408973	126
isFang 3B-G4	6219469	5408905	121
isFang 3B-G4	6219469	5408905	126
isFang 4000	5670056	5408942	120
isFang 4000 AL	5785330	5408943	120
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isFang 6000 AL	5785347	5408947	120
isFang IN 10000	6219407	5408870	128

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isFang IN L10	6647873	5408860	127
isFang IN L4	6647842	5408854	127
isFang IN L6	6647859	5408856	127
isFang IN L8	6647866	5408858	127
isFang IN-A 4000	5871668	5408938	127
isFang IN-A 6000	5871675	5408940	127
isFang IN-A 8000	6219414	5408888	127
isFang IN-A L10	6647835	5408880	128
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isFang IN-A L6	6647811	5408876	128
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isFang TR100	5670100	5408956	123
isFang TR100 100	5849360	5408955	123
isFang TR100 200	5849391	5408957	123
isFang TR100 300	5849407	5408959	123
isFang TS40-50	5670117	5408958	123
isFang TS50-60	5670124	5408960	122
isFang TS50x50	5670131	5408964	123
isFang TS-S 1000	6792221	5408949	123
		/pc.	
isFang TW200	5670094	5408954	122
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ISG N	6849574	5240089	218
		/pc.	
ISO-A-1030	5770497	5408820	149
ISO-A-150 8	6036226	5408800	149
ISO-A-500	5542773	5408806	149
ISO-A-800	5542834	5408814	149
LSC I+II	6465644	5091722	48
		price/pac	
MK-B	5461111	5091322	47
		/100 pc.	
M-Quick M32 LGR	5741671	2153734	39
		price/pac	
PCS	5461296	5091438	47
		/pc.	
PCS-CS-D	5461654	5091683	48
PCS-CS-GB	5896111	5091691	226
		price/pac	
PCS-H	5461470	5091527	47
		/100 pc.	
ProtectionBall	6409327	5018014	47
		price/100	
RD 10	5381617	5021103	44
RD 10-ALU	5381976	5021308	45
RD 10-CU	5382096	5021502	44
RD 10-PVC	5381730	5021162	45
RD 10-V2A	5801375	5021227	44
RD 10-V2A	5680567	5021239	44
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RD 8-ALU	5381914	5021286	45
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RD 8-FT	5381556	5021081	44
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RD 8-PVC	5067474	5021332	45
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		price/100	
RD 8-V2A	5680529	5021235	44
RD 8-V4A	5680574	5021644	44

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Always indicate the item number when ordering.

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RK-FIX VA	5433729	5316459	81
RK-FIX VA	5433729	5316459	203
RSF 177 20 VA M8	6622375	5317512	79
RSF 177 20 VA M8	6622375	5317512	194
RSF 249 8-10 VA	6622368	5317502	79
RSF 249 8-10 VA	6622368	5317502	194
		price/100	
S 11-CU	5836209	5021654	46
S 9-CU	6033768	5021652	46
S-11-CU SN	5938668	5021656	46
		/pc.	
SD-Fix	5670735	5403335	139
SD-Fix	5670735	5403335	155
		/100 pc.	
SQ M6	5016069	2146509	40
SQ-20 SW	5655367	2146164	40
SQ-25 LGR	5595717	2146207	40
TrayFix	5738428	5403100	115
TrayFix	5738428	5403100	136
TrayFix	5738428	5403100	225
		/pc.	
TrayFix-10-L	6095452	5403101	135
TrayFix-10-L	6095452	5403101	167
TrayFix-10-S	6095469	5403102	135
TrayFix-10-S	6095469	5403102	167
TrayFix-16-L	6098613	5403098	135
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ZSF	5518419	2362970	115
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