Product Catalogue

4

OVERHEAD LINE TECHNIQUE

ARCUS ELEKTROTECHNIK
ALOIS SCHIFFMANN GMBH

Availability by phone:

For queries concerning products and delivery time, and to place an order by phone, we are available as follows::

+49 89 43604-0

Monday - Thursday:

8:00 am-12:00 noon and 12:30 pm-16:00 pm

Friday

8:00 am-12:00 noon

Information concerning this catalogue:

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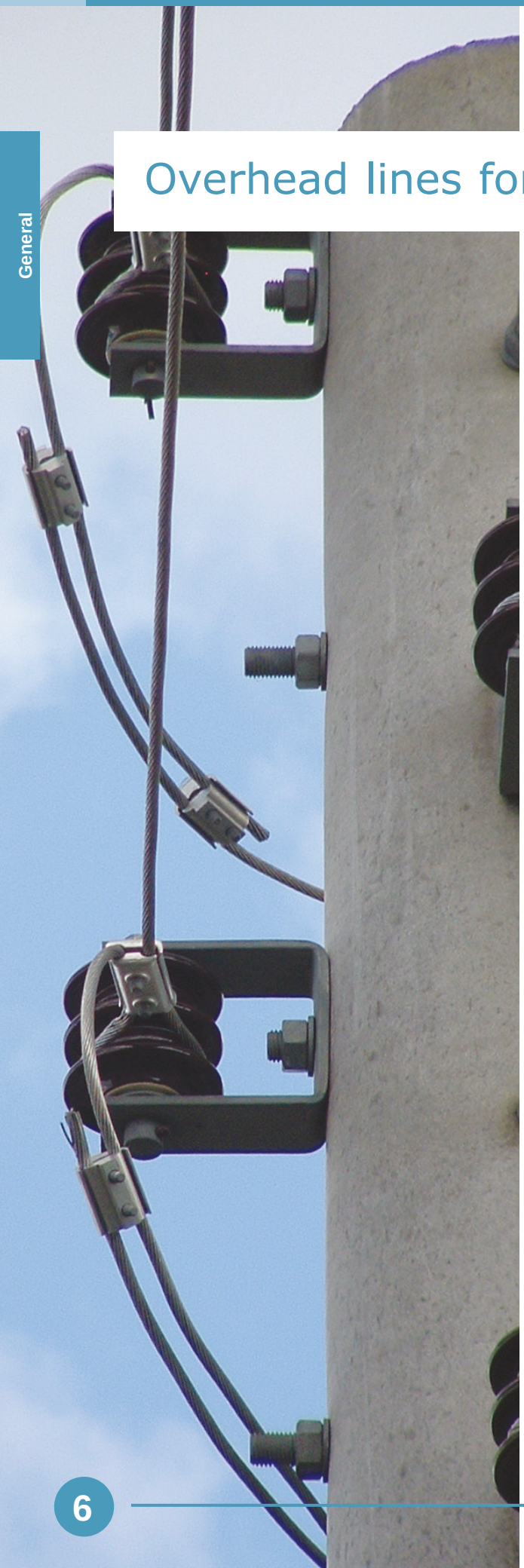


Overhead lines for energy transmission…

Electrical energy is a crucial part of our daily life.

Thereby two alternatives are available for transmission of electrical energy: overhead lines and underground cables.

Although overhead lines have lost importance over the years due to expansion of cable networks, they are still an important energy transmission medium.

Meanwhile the variety of overhead line conductors is large due to different materials, construction and cross sections.

In the field of materials pure bronze, copper, or aluminium lines are in use, and as well combinations of different materials.

Often aluminium-steel-lines (ACSR conductors) are used. The core of the line consists of stranded steel which provides mechanical tensile strength. The steel core is enclosed by aluminium strands which transmit the energy.

For the purpose of connecting, branching and anchoring we offer a vast range of overhead line clamps, suitable for the variety of overhead lines. Selection criteria for the suitable overhead line clamp are listed as follows.

Criteria for selection of overhead line clamps

Observe the following points for selection of an overhead line clamp:

- Is the overhead line bare or insulated?
- Use for low or medium voltage?
- Is it an electrical or mechanical clamp connection?
- Material of the overhead line clamp?
- Cross section of the overhead line and branch conductor?

Is the overhead line bare or insulated?

Our range of overhead line clamps is suitable for use on bare overhead lines.

Use for low or medium voltage?

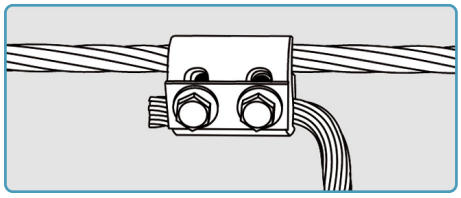
Depending on conductor cross sections, our overhead line clamps are used in low voltage networks, to some extent also in medium voltage.

Is it an electrical or mechanical clamp connection?

Electrical connections on overhead lines should be carried out only on conductor areas without mechanical tension, if possible. Otherwise the swinging line may have a negative influence on the electrical contacts. In addition a damaged overhead line clamp may wear out and tear out the conductor under mechanical tension. For this reason we differentiate between tension clamps for anchoring and dead-end connections, and non-tension overhead line clamps for electrical connections and branching.

Tap-Off Clamps (Page 13-16)

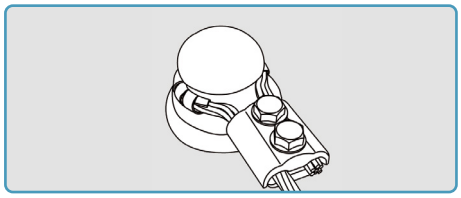
Tap-off clamps are used to branch off from an existing overhead line and to make a safe electrical connection. Tap-off clamps must be installed only in a non-tension area of a line or conductor as they are not designed as a tension clamp.



Dead-End Clamps (Page 18-19)

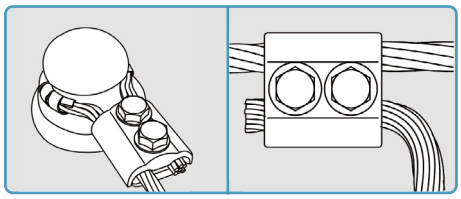
Dead-end clamps are used to produce a mechanical connection between a line or conductor and an anchoring point.

Main task of dead-end clamps is mechanical transmission of power. For this reason they are designed for tensile use.



Multi-Purpose Clamps (Page 17)

For certain applications the overhead line clamp needs to be able to make an electrically and mechanically safe connection. In such a case one uses multi-purpose clamps. Multi-purpose clamps can be used as tap-off clamp and as dead-end clamp.



Material of the overhead line clamp?

In order to generate a safe and stable electrical and mechanical connection between overhead line and overhead line clamp, both components need to be made from the same material. For instance, connect a copper line with a copper clamp.

Cross-section of the overhead line and branch conductor?

Due to the bow-shaped profiles of our overhead line clamps it is possible to combine different conductor cross sections and to connect them safely. Please find further information on the following product pages.

Earth wire and earth strip clamps (Page 20)

Earth wire and earth strip clamps for instance connect the earth wire of an overhead line pole to an earth rod or earth strip.

Earth Wire Clamps with Test Option (Page 21)

Earth wire clamps with test option, just as earth wire clamps, connect the earth wire of an overhead line pole to an earth rod or earth strip. Based on the design of the earth wire clamps with test option it is possible to also carry out measurements of the earth resistance between earth wire clamp with test option and earth rod or earth strip.

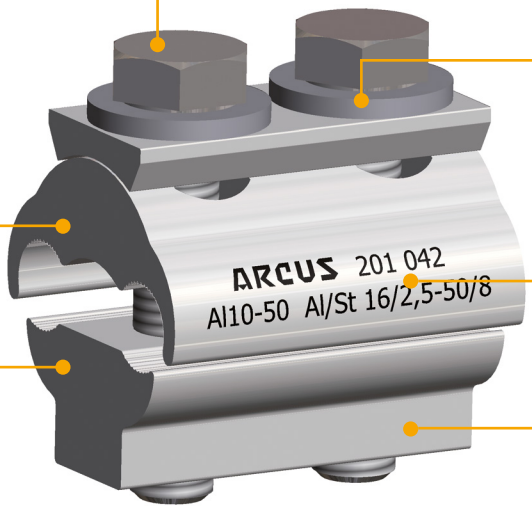
Quality characteristics of our overhead line clamps

Overhead line clamps are exposed to heavy environmental impact over decades and still need to remain in reliable service electrically and as well mechanically. In consequence the requirements regarding design, selection of material and surface layer are specific.

Our overhead line clamps are designed in a way to prevent damage of strands of overhead lines.

Further quality features of our overhead line clamps are:

All fastening bolts have standardised key sizes according to DIN 475 (except split bolt connectors, page 16).
Simple installation with standard tools.



Safety elements at the fastening bolts:
Safety elements at the fastening bolts take care of a permanently stable contact pressure, even when vibration or thermal fluctuation cause flowing and setting within the clamp connection.

Shape of clamp parts:
Clamp parts are designed in a preferably open shape to prevent water accumulation.

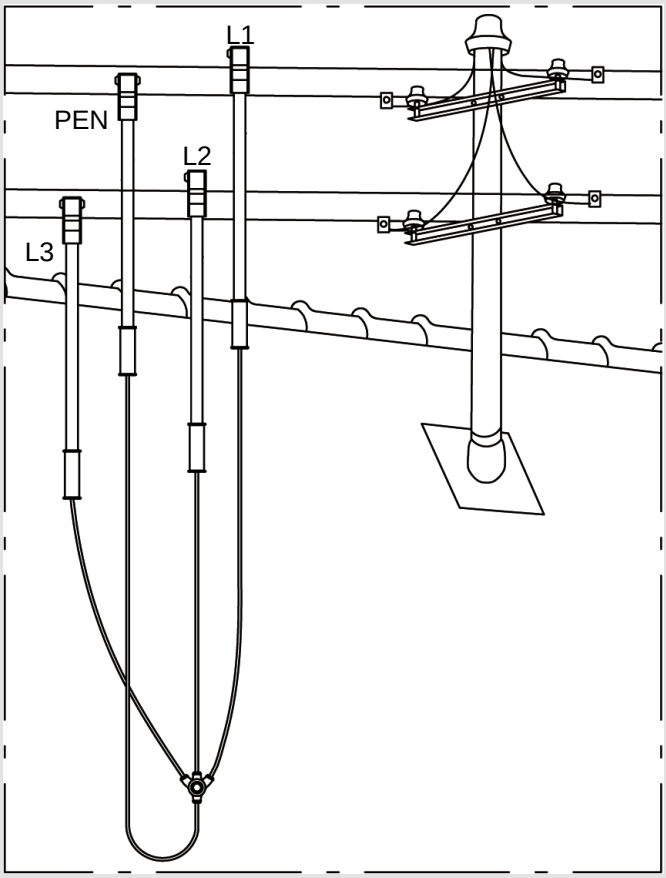
Material and surface layers:
Material and surface layers are selected to mostly prevent electrochemical corrosion.

Beside our vast range of overhead line clamps we also offer devices for different applications. Our range encloses:

- Short-circuiting devices for low voltage overhead lines (page 22-23)
- Current tapping devices for power supply into a construction site cabinet (page 24)
- Devices for emergency power supply into low voltage overhead lines (page 25-26)

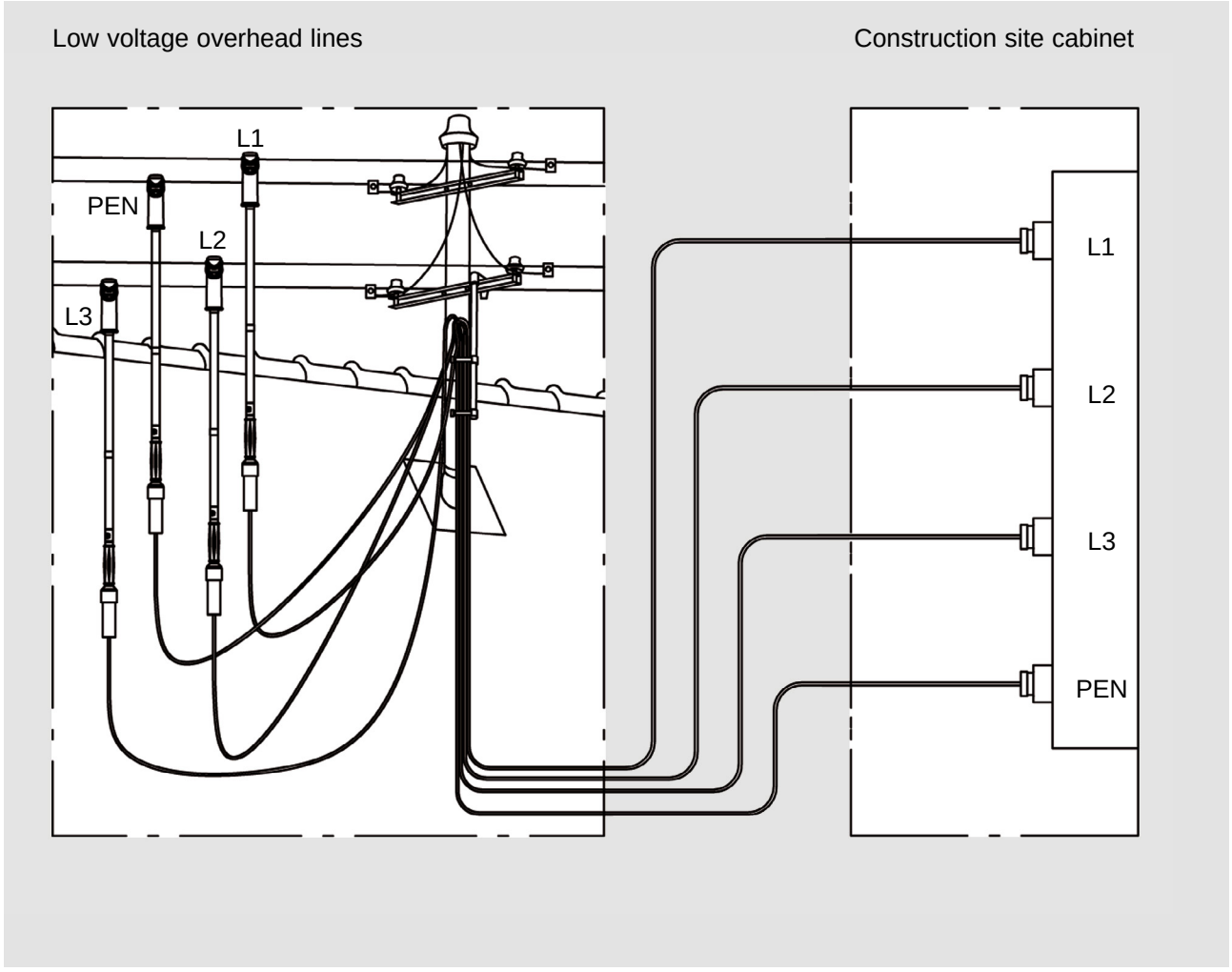
Short-circuiting devices for low voltage overhead lines

For work on overhead lines with nominal voltage up to 1000 V – except overhead lines with protective insulation – all conductors, including neutral conductor and switching and control wires (e.g. for street lighting) must be earthed directly at the work place if possible, but in any case they are to be short-circuited. Detailed information on our short-circuiting devices can be found on pages 22-23.



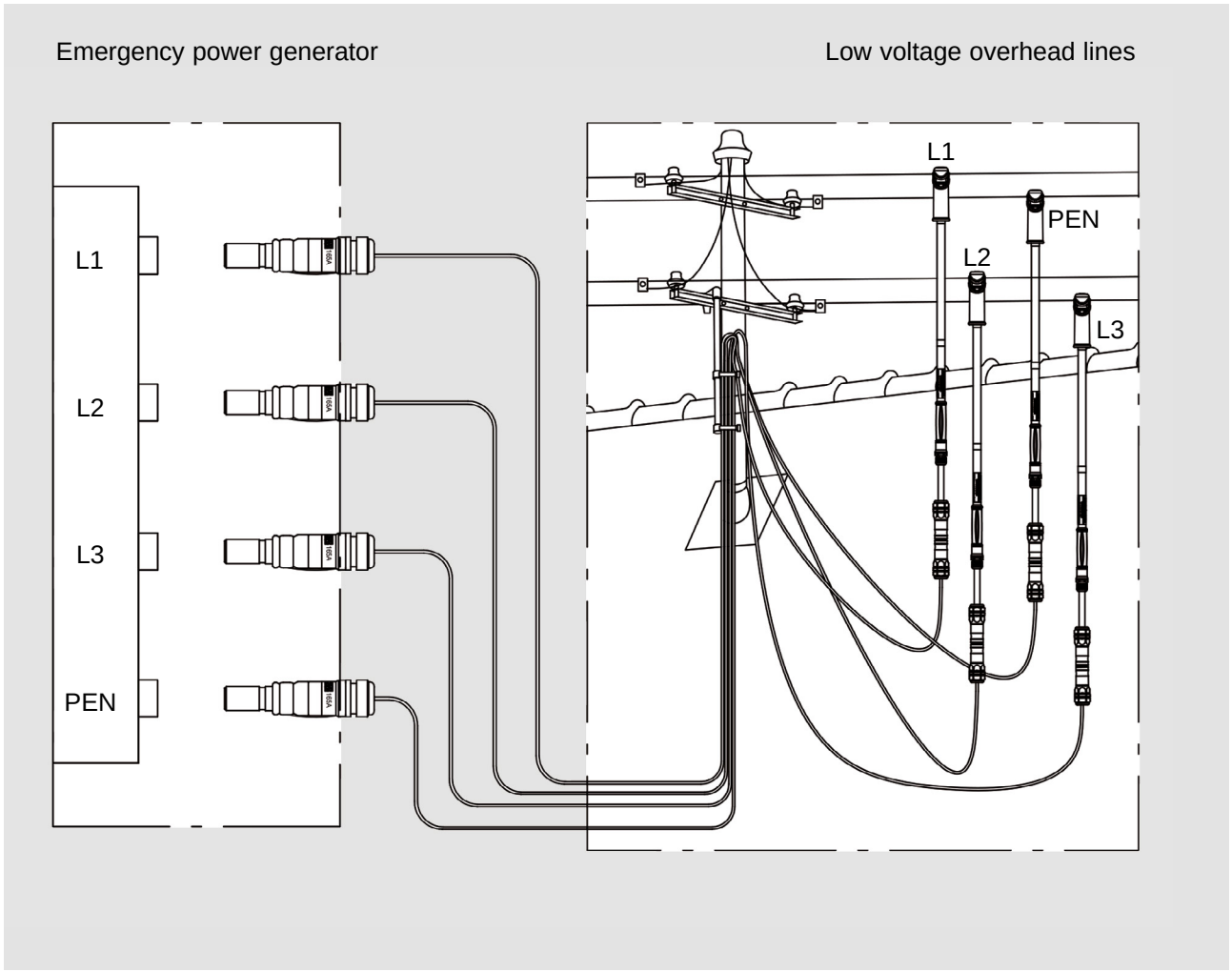
Current tapping rods for power supply into a construction site cabinet

By means of our current-tapping rods, connected to bare low voltage overhead lines, electrical power can be tapped from an overhead line and fed into a construction site cabinet over a longer period of time and under any weather conditions. Detailed information on our current-tapping rods can be found on page 24.

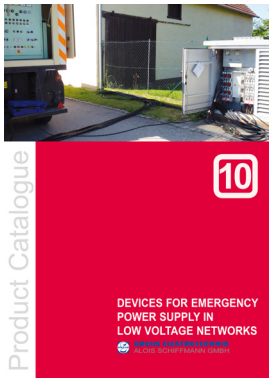


Emergency power supply into low voltage overhead lines

By means of devices for emergency power supply, connected to bare low voltage overhead lines, power supply from a mobile emergency power generator into an overhead line is possible at any weather condition. Detailed information on our devices for emergency power supply can be found on pages 25-26.



Further products and technical information can be found in our product catalogue „Devices for Emergency Power Supply for Low Voltage Networks“. This catalogue can be downloaded from our company website www.arcus-schiffmann.de.



Information Concerning This Catalogue

This catalogue will give you an overview about our product range for overhead lines and accessories. We have arranged these products in different groups to facilitate identification. All important details are listed in a table and are supported by pictures.

In case of uncertainties how to find a product or how to select a suitable one, please contact us.You will find contact details on the backside of this catalogue.

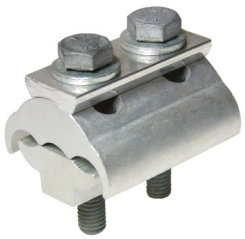
We offer to you not only a vast range of products for overhead lines and accessories, but furthermore will be pleased to support you in selecting the suitable products.

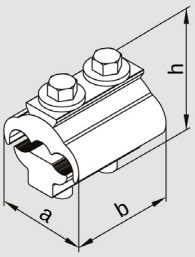
This service is a matter of course for us!

Suitable for aluminium conductors and Aldrey conductors to DIN 48201 and ACSR conductors to DIN 48204 respectively DIN EN 50182

201 042

201 043





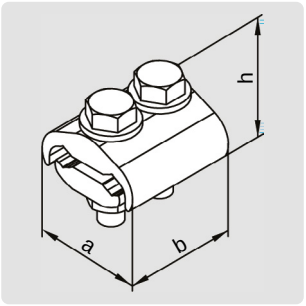
Material	
Body	Aluminium alloy
Pressure plate	Aluminium alloy
Hexagonal screws	Steel, hot-dip galvanised
Conical spring washers	Spring-steel, galvanised

Conductor		Clamp								Packed	Type No.
Cross section [mm²]	Diameter [mm]	Dimensions [mm]			Screw					Pieces	
		a	b	h	KS DIN 475	thread DIN 13	number	grade DIN 267	torque [Nm]		
10-50 (Al) 16/2.5-50/8 (Al/St)	4,1-9,0 (Al) 5.4-9.6 (Al/St)	32.8	39.5	45	13	M 8	2	8.8	23	30	201 042
16-70		35	43.5	50	13	M 8	2	8.8	23	25	201 003
16-95		40.5	48.5	55	13	M 8	2	8.8	23	20	201 004
16-95 (Al) 16/2.5-95/15 (Al/St)	5.1-12.5 (Al) 5.4-13.6 (Al/St)	40.5	48.5	55	13	M 8	2	8.8	23	25	201 043

Suitable for copper conductors to DIN 48201

101 015

101 029

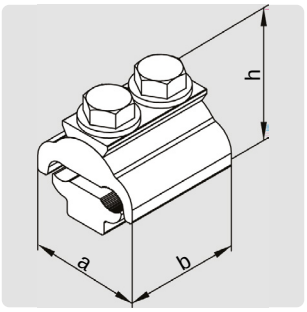


Material	
Body	Copper allloy
Hexagonal screws	Copper allloy
Hexagonal nut	Copper allloy
Discs	Copper allloy

Conductor		Clamp								Packed	Type No.
Cross section [mm²]	Diameter [mm]	Dimensions [mm]			Screw					Pieces	
		a	b	h	KS DIN 475	thread DIN 13	number	grade DIN 267	torque [Nm]		
2.5-25	1.8-6.3	24.5	18.5	35	11	M 7	1	Bz 60	11	100	101 003
2.5-25	1.8-6.3	24.5	29.5	35	11	M 7	2	Bz 60	11	50	101 005
6-50	2.75-9.0	31.5	20	35	11	M 7	1	Bz 60	11	50	101 015
6-50	2.75-9.0	31.5	35.5	35	11	M 7	2	Bz 60	11	25	101 019
6-50	2.75-9.0	32.2	19	40	13	M 8	1	Bz 60	17	50	101 017
6-50	2.75-9.0	32.2	36.5	40	13	M 8	2	Bz 60	17	25	101 021
10-70	4.1-10.5	36.5	38.5	40	13	M 8	2	Bz 60	17	25	101 025
16-95	5.1-12.5	42	40.5	50	13	M 8	2	Bz 60	17	15	101 029

Suitable for aluminium conductors and Aldrey conductors to DIN 48201, ACSR conductors to DIN 48204 respectively DIN EN 50182 and copper branch conductors to DIN 48201

301 015

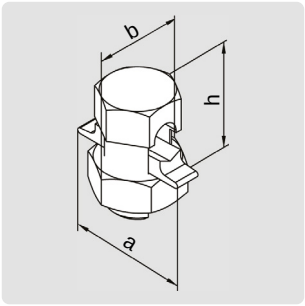


Material	
Body	Aluminium alloy with copper coating
Pressure plate	Aluminium alloy
Hexagonal screws	Steel, hot-dip galvanised
Conical spring washers	Spring-steel, galvanised

Conductor				Clamp								Packed	Type No.
Aluminium, ACSR		Copper		Dimensions [mm]			Screw					Pieces	
Cross section [mm²]	Diameter [mm]	Cross section [mm²]	Diameter [mm]	a	b	h	KS DIN 475	thread DIN 13	number	grade DIN 267	torque [Nm]		
16-70 (Al) 25/4-50/8 (Al/St)	5.1-10.5 (Al) 6.8-9.6 (Al/St)	6-50 (Cu)	2.75-9.0 (Cu)	37.6	39.5	43	13	M 8	2	8.8	23	25	301 015
16-150 (Al) 16/2.5-120/20 (Al/St)	5.1-15.7 (Al) 5.4-15.5 (Al/St)	10-95 (Cu)	4.1-12.5 (Cu)	41.7	50	55	13	M 8	2	8.8	23	20	301 016

Suitable for copper conductors to DIN 48201

115 001



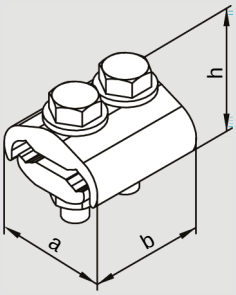
Material	
Pressure piece	Copper-zinc alloy
Screw	Copper-zinc alloy
Hexagonal nut	Copper-zinc alloy

Conductor			Clamp								Packed	Type No.
Cross section [mm²]	Diameter [mm]	AWG size[1)]	Dimensions [mm]			Screw					Pieces	
			a	b	h	KS screw	KS nut	thread DIN 13	grade DIN 267	torque [Nm]		
10	4.1	6 sol	20	14.7	20	11	12.7	M 9.5x1	Cu 3	8	200	115 001
16	5.1	4 sol 5 str	25	20.2	24	12.7	17.5	M 12.5x1.25	Cu 3	12	100	115 002
25	6.3	2 sol 3 str	28	22	29	14.3	19	M 14x1.25	Cu 3	20	100	115 003
35	7.5	2	32	25.6	33	17.5	22.2	M 17x1.5	Cu 3	20	100	115 004
50	9.0	1/0	35	29.3	39	19	25.4	M 19x1.5	Cu 3	20	50	115 005
70	10.5	2/0	39	32.6	44	22.2	28.2	M 22x2	Cu 3	30	40	115 006
95	12.5	3/0	46	38.5	49	25.4	33.3	M 25x2	Cu 3	30	30	115 007

1) AWG=American Wire Gauge. Explanation AWG size: sol= solid conductor, str= stranded conductor

Suitable for aluminium conductors and Aldrey conductors to DIN 48201 and ACSR conductors to DIN 48204 respectively DIN EN 50182

203 041



Material	
Body	Aluminium alloy
Hexagonal screws	Steel, hot-dip galvanised
Conical spring washers	Spring-steel, galvanised

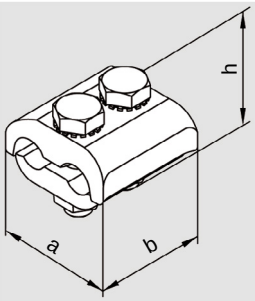
Conductor		Clamp								Packed	Type No.
Cross section [mm²]	Diameter [mm]	Dimensions [mm]			Screw					Pieces	
		a	b	h	KS DIN 475	thread DIN 13	number	grade DIN 267	torque [Nm]		
16-95 (Al) 16/2.5-70/12 (Al/St)	5.1-12.5 (Al) 5.4-11.7 (Al/St)	39	40	45	13	M 8	2	8.8	23	30	203 041

Aluminium Dead-End Clamps

Suitable for aluminium conductors and Aldrey conductors to DIN 48201 and ACSR conductors to DIN 48204 respectively DIN EN 50182

203 023

203 032



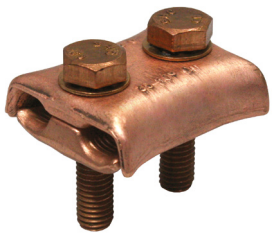
Material	
Body	Aluminium alloy
Hexagonal screws	Steel, hot-dip galvanised
Serrated washers	Spring-steel, galvanised

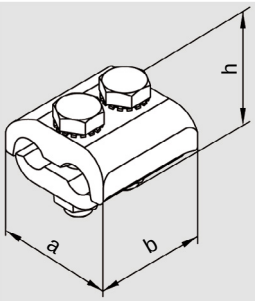
Conductor		Clamp								Packed	Type No.
Cross section [mm²]	Diameter [mm]	Dimensions [mm]			Screw					Pieces	
		a	b	h	KS DIN 475	thread DIN 13	number	grade DIN 267	torque [Nm]		
16-35 (Al) 16/2.5-25/4 (Al/St)	5.1-7.5 (Al) 5.4-6.8 (Al/St)	31	54	35	13	M 8	2	8.8	23	25	203 023
35-70 (Al) 35/6-70/12 (Al/St)	7.5-10.5 (Al) 8.1-11.7 (Al/St)	41	74	44	17	M 10	2	8.8	46	15	203 024
70-120 (Al) 50/8.5-95/15 (Al/St)	10.5-14 (Al) 9.6-13.6 (Al/St)	52.8	58	53	19	M 12	2	8.8	80	15	203 032

Suitable for copper conductors to DIN 48201

103 022

103 024





Material	
Body	Copper alloy
Hexagonal screws	Copper alloy
Serrated washers	Copper alloy

Conductor		Clamp								Packed	Type No.
Cross section [mm²]	Diameter [mm]	Dimensions [mm]			Screw					Pieces	
		a	b	h	KS DIN 475	thread DIN 13	number	grade DIN 267	torque [Nm]		
10-16	4.1-5.1	23	28	28	11	M 7	2	Bz 60	11	50	103 022
10-35	4.1-7.5	31.5	37	30	13	M 8	2	Bz 60	17	30	103 023
35-50	7.5-9.0	38	42	40	13	M 8	2	Bz 60	17	30	103 024
50-70	9.0-10.5	41	48	37	17	M 10	2	Bz 60	34	20	103 025

Steel Earth Wire Clamps and Steel Earth Strip Clamps

For connection to roof battens, poles, roof poles, brickwork

For connection of earth conductors

413 012

413 017

413 022

Material: Type No. 413 017, 413 022	
Body	Steel, hot-dip galvanised
Hexagonal screws	Steel, hot-dip galvanised
Hexagonal nuts	Steel, hot-dip galvanised
Discs	Stainless steel

Material: Type No. 413 012	
Clamp parts	Steel, hot-dip galvanised
Separating plate	Stainless steel
Saucer head screw	Steel, hot-dip galvanised
Hexagonal nut	Steel, hot-dip galvanised
Square washer	Steel, hot-dip galvanised

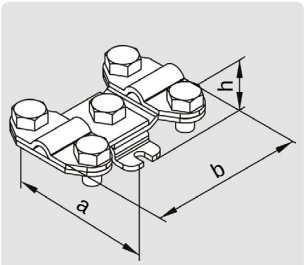
Conductor		Screw					Packed	Type No.
Cross section [mm²]	Flat up to [mm]	KS DIN 475	thread DIN 13	number	grade DIN 267	torque [Nm]	Pieces	
2x 10-35 RM / 50 RE	2x 3.5 x 20	17	M 10	1	8.8	25	25	413 012
25-50	3.5 x 30	---	M 8	2	5.6	11	100	413 017
25-50 RM 25-70 RE	---	11	M 8	2	8.8	23	20	413 022

Explanation cross-sections: R=round, E=solid, M=stranded

Steel Earth-Wire Clamps with Test Option

414 003

414 006



Material	
Body	Steel, hot-dip galvanised
Hexagonal screw	Steel, hot-dip galvanised
Discs	Stainless steel

Conductor		Screw					Packed	Type No.
Cross section [mm²]	Flat up to [mm]	KS DIN 475	thread DIN 13	number	grade DIN 267	torque [Nm]		
---	2x 4.0 x 35	17	M 10	5	8.8	46	8	414 003
2x 25-50 RM / RE	---							
---	1x 4.0 x 45	17	M 10	5	8.8	46	8	414 006
1x 25-50 RM / RE	---							

Explanation cross-sections: R=round, E=solid, M=stranded

Short-Circuiting Devices with Rods and Screw-Type Clamps

Short-circuiting devices with rods and screw-type clamps for low voltage overhead lines

Device suitable for:
Urban networks with neutral conductor at top or bottom.

Aluminium and copper conductors:
Ø 5-14 mm, 16 RE-120 RM mm²

Electric short-circuit current capacity:
Rated voltage/rated time/peak factor:
7 kA – 0.5 s – 2.0

Construction of the device:

- Screw-type clamps made of tin-plated high-quality copper alloy. Contact areas of the clamps are provided with cross and longitudinal grooves to cut through layers of foreign matter and oxide on the conductor.
- Connection rods made of impact-proof synthetic material.
- Short-circuiting cables are manufactured under observation of the tension forces specified in EN 61230.
- Transitions from connection cluster or cable lug towards the lead insulation are enclosed by a stabilised tenacious elastic and transparent sleeve. This mechanical kinking protection guarantees a reliable sealing against ingress of moisture.

Number of Connection Rods	Description	Type No.
4	4x connection rod (length 500 mm), short-circuiting cable 25 mm² *), 600 mm long	512 103
5	5x connection rod (length 500 mm), short-circuiting cable 25 mm² *), 600 mm long	512 104
6	6x connection rod (length 500 mm), short-circuiting cable 25 mm² *), 600 mm long	512 105
4	3x connection rod (length 500 mm), short-circuiting cable 25 mm² *), 600 mm long 1x connection rod (length 900 mm), short-circuiting cable 25 mm² *), 600 mm long	512 106
5	4x connection rod (length 500 mm), short-circuiting cable 25 mm² *), 600 mm long 1x connection rod (length 900 mm), short-circuiting cable 25 mm² *), 600 mm long	512 107
6	5x connection rod (length 500 mm), short-circuiting cable 25 mm² *), 600 mm long 1x connection rod (length 900 mm), short-circuiting cable 25 mm² *), 600 mm long	512 108

*) Upon request also available with short-circuiting cables 16 mm², 35 mm², 50 mm², and 70 mm²

Short-Circuiting Devices with Rods and Spring-Type Clamps

Short-circuiting devices with rods and spring-type clamps for low voltage overhead lines

Device suitable for:
Urban networks with neutral conductor at top or bottom.

Aluminium and copper conductors:
Ø 3-14 mm respectively 6 RE-120 RM

Electric short-circuit current capacity:
Rated voltage/rated time/peak factor:
4.5 kA – 0.5 s – 2.0

Construction of the device:

- Touch-proof insulation by covered contact parts.
- Stable contact behaviour with spring elements at the clamp.
- Connection rods and covers made of impact-proof synthetic material.
- Short-circuiting cables are manufactured under observation of the tension forces specified in EN 61230.
- The connection cluster is compressed, bolted, and moulded with a watertight and transparent protection cover.
- Transitions from connection cluster or cable lug towards the lead insulation are enclosed by a stabilised tenacious elastic and transparent sleeve. This mechanical kinking protection guarantees a reliable sealing against ingress of moisture.

Number of Connection Rods	Description	Type No.
4	3x connection rod (length 600 mm), short-circuiting cable 16 mm², 600 mm long 1x connection rod (length 900 mm), short-circuiting cable 16 mm², 600 mm long	512 210
4	4x connection rod (length 600 mm), short-circuiting cable 16 mm², 600 mm long	512 212

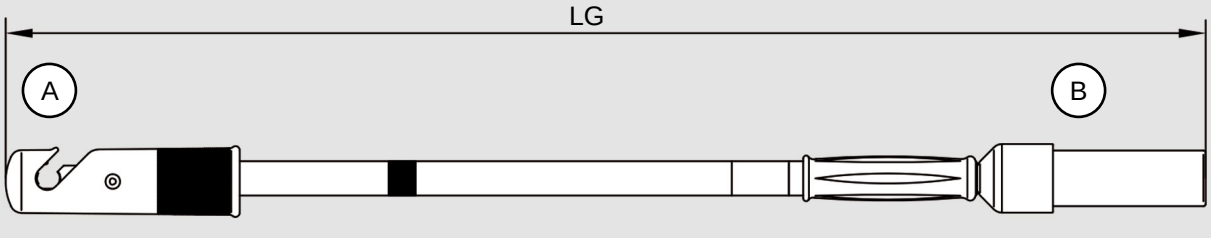
Current Tapping Rods

517 042

517 035

517 043

517 041



Ie [A]	Colour	Connection A Aluminium and Copper Conductor	Connection B H7RN-F and AD7RN-F	Use on	LG [mm]	Type No.
63	●	Ø 5-15 mm respectively 16 RE-120 RM	10-25 mm² respectively 4x35 mm²	Phase	1100	517 042[1)]
100	●	Ø 5-15 mm respectively 16 RE-120 RM	10-25 mm² respectively 4x35 mm²	Phase	1100	517 035[2)]
100	●	Ø 5-15 mm respectively 16 RE-120 RM	10-25 mm² respectively 4x35 mm²	Neutral conductor	1100	517 043[2)]
100	●	Ø 5-15 mm respectively 16 RE-120 RM	10-25 mm² respectively4x35 mm²	Neutral conductor	1100	517 041[2)]

1) Suitable for non-fused construction site distribution boards (max. 63 A Diazed threaded fuses - threaded fuse is included).
2) Suitable for separately fused construction site distribution boards with max. 100 A and connections for neutral conductors.

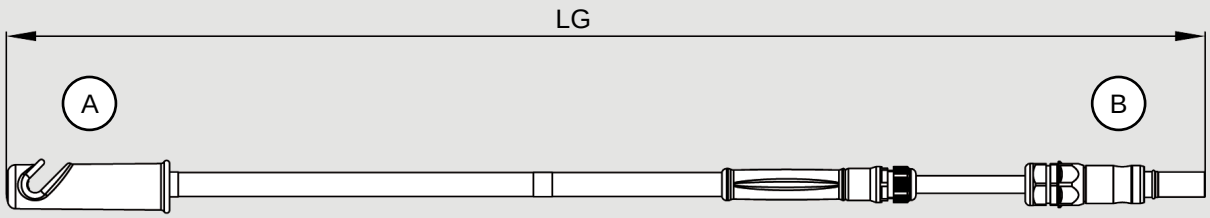
Explanation cross-sections: R=round, E=solid, M=stranded

517 001 101

517 001 102

517 001 103

517 001 104



MC	Ie [A]	Colour	Connection A Aluminium and Copper Conductor	Connection B	Code Number	LG [mm]	Type No.
KBT10	165		Ø 5-15 mm respectively 16 RE-120 RM	MC-Socket KBT10BV	C1	1200	517 001 101
	165		Ø 5-15 mm respectively 16 RE-120 RM	MC-Socket KBT10BV	C2	1200	517 001 102
	165		Ø 5-15 mm respectively 16 RE-120 RM	MC-Socket KBT10BV	C3	1200	517 001 103
	165		Ø 5-15 mm respectively 16 RE-120 RM	MC-Socket KBT10BV	C4	1200	517 001 104
	165		Ø 5-15 mm respectively 16 RE-120 RM	MC-Socket KBT10BV	C1	1200	517 001 101
	165		Ø 5-15 mm respectively 16 RE-120 RM	MC-Socket KBT10BV	C1	1200	517 001 105
	165		Ø 5-15 mm respectively16 RE-120 RM	MC-Socket KBT10BV	C1	1200	517 001 106
	165		Ø 5-15 mm respectively 16 RE-120 RM	MC-Socket KBT10BV	C1	1200	517 001 107

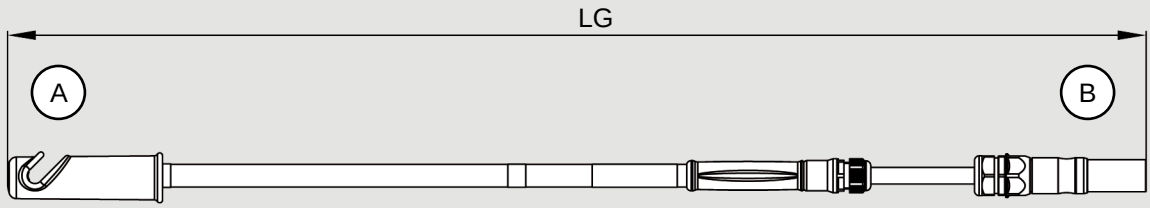
Explanation cross-sections: R=round, E=solid, M=stranded

517 001 131

517 001 132

517 001 133

517 001 134



MC	Ie [A]	Colour	Connection A Aluminium and Copper Conductor	Connection B	Code Number	LG [mm]	Type No.
KST10	165		Ø 5-15 mm respectively 16 RE-120 RM	MC-Plug KST10BV	C1	1200	517 001 131
	165		Ø 5-15 mm respectively 16 RE-120 RM	MC-Plug KST10BV	C1	1200	517 001 132
	165		Ø 5-15 mm respectively 16 RE-120 RM	MC-Plug KST10BV	C1	1200	517 001 133
	165		Ø 5-15 mm respectively 16 RE-120 RM	MC-Plug KST10BV	C1	1200	517 001 134

Explanation cross-sections: R=round, E=solid, M=stranded

Carrying Case Sets

517 001 110

Carrying Case Set 165 A, with MC-Socket KBT10BV:	Type No. 517 001 110
1x Emergency Power Device, yellow, code C1	Type No. 517 001 101
1x Emergency Power Device, green, code C2	Type No. 517 001 102
1x Emergency Power Device, violet, code C3	Type No. 517 001 103
1x Emergency Power Device, green/yellow, code C4	Type No. 517 001 104
1x Plastic case, black with nap foam	Type No. 075 8793

Carrying Case Set 165 A, with MC-Socket KBT10BV:	Type No. 517 001 120
1x Emergency Power Device, yellow, code C1	Type No. 517 001 101
1x Emergency Power Device, green, code C1	Type No. 517 001 105
1x Emergency Power Device, violet, code C1	Type No. 517 001 106
1x Emergency Power Device, green/yellow, code C1	Type No. 517 001 107
1x Plastic case, black with nap foam	Type No. 075 8793

Carrying Case Set165 A, with MC-Plug KST10BV:	Type No. 517 001 130
1x Emergency Power Device, yellow, code C1	Type No. 517 001 131
1x Emergency Power Device, green, code C1	Type No. 517 001 132
1x Emergency Power Device, violet, code C1	Type No. 517 001 133
1x Emergency Power Device, green/yellow, code C1	Type No. 517 001 134
1x Plastic case, black with nap foam	Type No. 075 8793

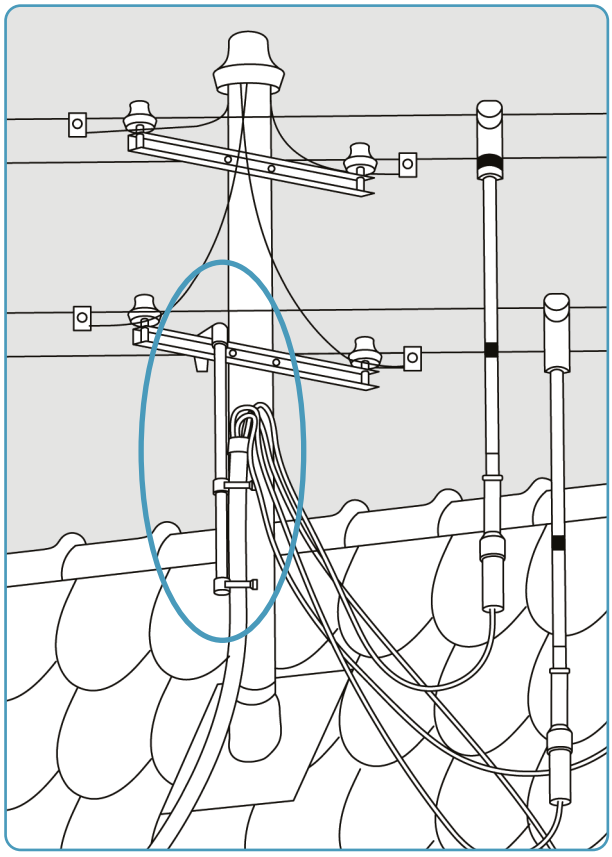
Carrying Case for Free Kitting

075 8793

Transport case for emergency power devices and current tapping rods

- Dimensions WxDxH [mm]: 1200x230x100
- Robust plastic case with nap foam
- Colour: black

Strain Relief Bracket



Strain relief bracket for connection lines

Strain relief bracket for:

- Construction site connections from overhead lines according to the Bulletin of the VBEW (Association of Bavarian Energy and Water Industry) for equipment with temporary connection.

Construction of the strain relief bracket:

- Very robust and fully-insulated construction made of high-quality and UV-resistant synthetic material.
- Robust cable guidance with two clamps.
- Fastening hook for attachment to crossbars (e.g. angular or U-shaped bars or hooks).
- Maximum tensile load 1000 N.
- Additional possibility to tie the bracket to the lateral side of the pole by means of a belt strap with buckle fastener.

517 036

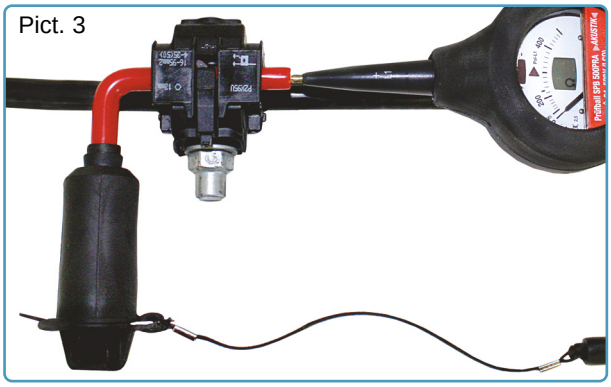
Cable Diameter [mm]	Type No.
32-36	517 045
36-44	517 036

Adaptor for Fully-Insulated Earthing and Short-Circuiting Devices

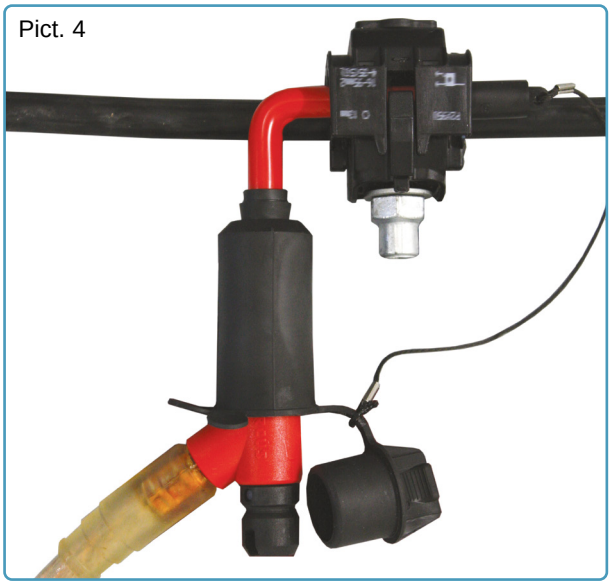
Pict. 1

Pict. 2

Pict. 3



Pict. 4



Adaptor for insulated low voltage overhead lines

This adaptor is suitable for connection of a fully-insulated earthing and short-circuiting device to an insulated overhead line.

The adaptor is weather-resistant and suitable as a permanent connection for the purpose of earthing and short-circuiting, and for voltage testing.

Construction of the adaptor:
Connection for voltage testing:
The small cap which is secured against loss by means of a cord, is removable to enable a voltage test (pict.1). The connection for voltage testing is shaped to be touchproof (pict.3).

Threaded connection:
With anti-twist connection for fully-insulated earthing and short-circuiting devices, for instance type no. 512 257 (pict.4).

Both connections are protected against soiling, ingress of moisture, and mechanical damages by plug-on caps.

Small undetachable flags for phase and neutral conductor (pict.2).

Material:
Contact parts: Copper alloy (tin-plated)
Insulation (red): Protefan-coated
Caps (black): thermally highly resistant and weatherproof rubber

Electric short-circuit curent capacity:
Rated voltage/rated time/peak factor:
10 kA – 0.5 s – 2.0

Temperature range:
-25 °C up to +70 °C

Type No. 597 642

Further products and technical information can be found in our product catalogue „Fully-insulated and part-insulated earthing and short-circuiting devices for low voltage applications“. This catalogue can be downloaded from our company website www.arcus-schiffmann.de.

Cleaning Brushes for Overhead Lines

Suitable for aluminium conductors

613 001

Suitable for copper conductors

613 002

Cleaning brushes for overhead lines support a professional removal of dirt and oxidation on overhead lines, before clamp installation.

They consist of 2 interlocked half-shells with wire brush segments at the inner side.The half-shell arrangement guarantees fast and even allover cleaning of conductors..

Conductor		Brush Dimensions		Type No.
Material	**Diameter [mm]**	**Outer diameter [mm]**	**Length [mm]**	
Aluminium	10-40	60	120	613 001
Copper	10-40	60	120	613 002

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