PVS PHOTOVOLTAIC-SYSTEM

Components for electrical connectivity in photovoltaic facilities

CONTACLIP

PVS – Components for electrical connectivity in photovoltaic facilities

Overview

CONTA-CLIP

The Company

Founded and kept in the family since 1977: **CONTA-CLIP** is an owner-operated company that is a mid-sized global player. Users of electrical and electronic connection products have come to trust us for our reliable components. They also trust in our wide-reaching competence within the market and industry which has evolved over many years. In the years since our company was founded, we have evolved from a manufacturer to an innovator.

Our employees are connectivity specialists coming from a wide variety of backgrounds. They understand the specific problems, requirements and challenges of our customers. This ensures communication among equals. We then invest our gains directly into maintaining a modern and efficient production process. This allows us to maintain the most modern machinery at our facilities. We develop and produce the tooling ourselves. We neither make nor accept any compromise in the quality of materials used in our products.

Our top-class products are supported by this interplay between top-class men and machinery. We have also designed our range of services to align with customer needs. We develop electronics, assemble terminal rails, take care of component labelling, and deliver completely populated housings when needed – totally customized and expedited.

Our passion and concern for our customers' challenges does not end after we've delivered our solution. **CONTA-CLIP** customer representatives are always ready to offer their support to the customer, because service and support are our top priorities.

You can find out all about product innovations, trade fair appointments, press releases, and more at our official CONTA-CLIP web site. If you want to make sure you do not miss any news, subscribe with no obligation to our **CONTA-CLIP** newsletter by e-mail.

www.conta-clip.com

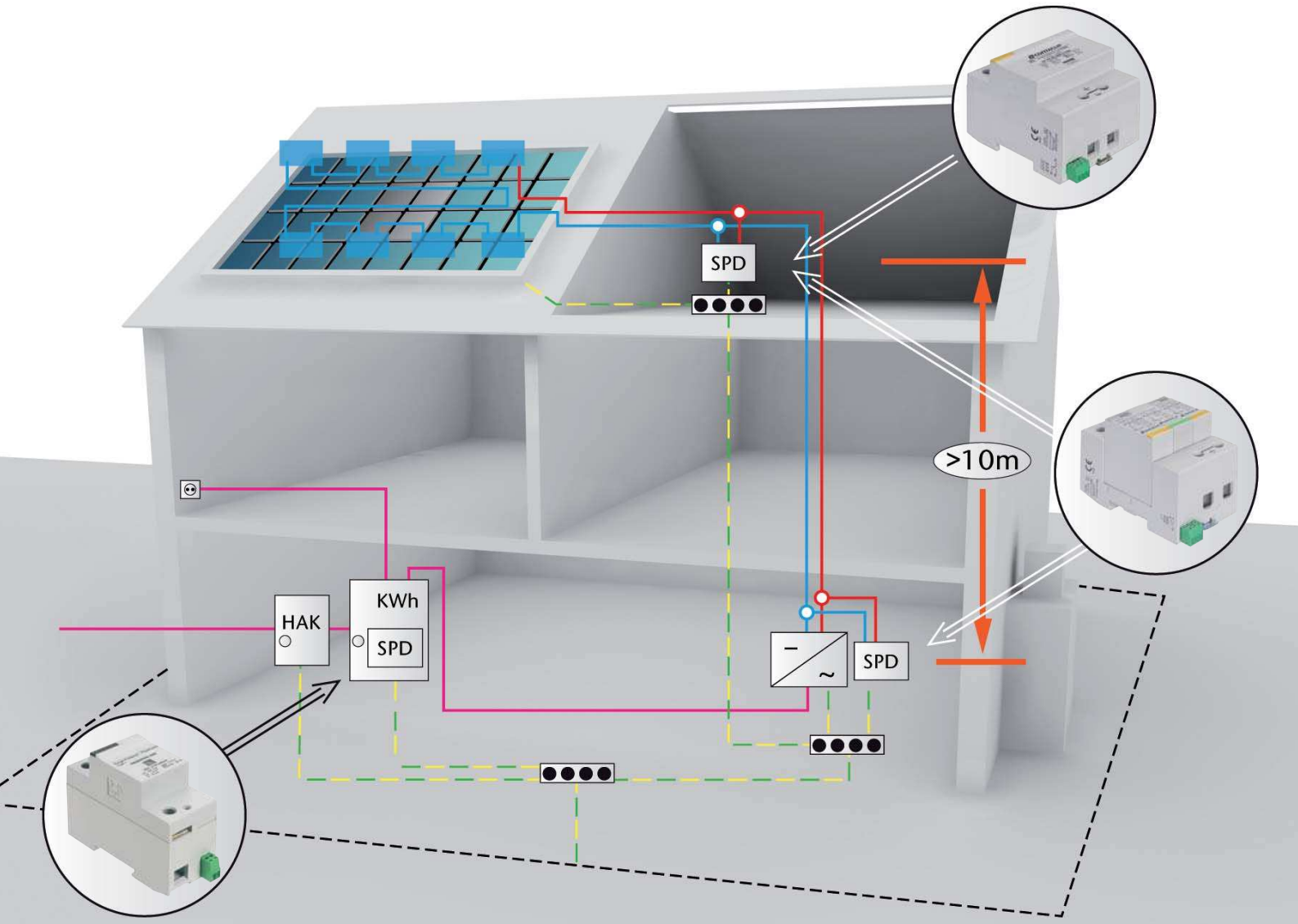
PVS – Components for electrical connectivity in photovoltaic facilities

It is becoming more important to maintain a stable yield and stable facility as photovoltaic facilities produce a growing share of power around the globe. Large-surface facility sections (including photovoltaic modules, inverters, power feed systems and distributors) must be protected from external influences such as inductive or capacitive surge voltages. It must also be possible to switch off any facility section for servicing or in response to a malfunction.

CONTA-CLIP's selected line of innovative products includes a range of stand-alone products, standardized pre-assembled systems, and customer-specific products for both the DC and AC sides. There are seventeen variants of **CONTA-CLIP**'s standardized pre-assembled string housings available. These variants have different numbers of strings, different wire connection methods (screw or tension-spring) and different options for combining with overvoltage arresters and DC load break switches. It is important to note that the plus connection level is labelled "red" and the minus level is "blue". Customized configurations can also be carried out with customer-specific labelling or wiring. So **CONTA-CLIP** offers the perfect solution for any application!

Overvoltage arrester

Application-specific DC and AC arresters are available in our overvoltage arrester product line. When selecting the proper overvoltage protection devices for photovoltaic facilities, it is important that the equipment is designed for the maximum no-load voltage from the PV generators. In contrast to low-voltage systems, this no-load voltage can reach up to 1000 V. The existence of an external lightning protection system is also an important factor. According to VDE Standard 0815-305-3, you must design-in and maintain sufficient clearance gaps between the PV facility and the lighting protection system. In reality, these gaps often range from 0.5 m and 1 m. If this gap cannot be maintained, however, then a connection that can



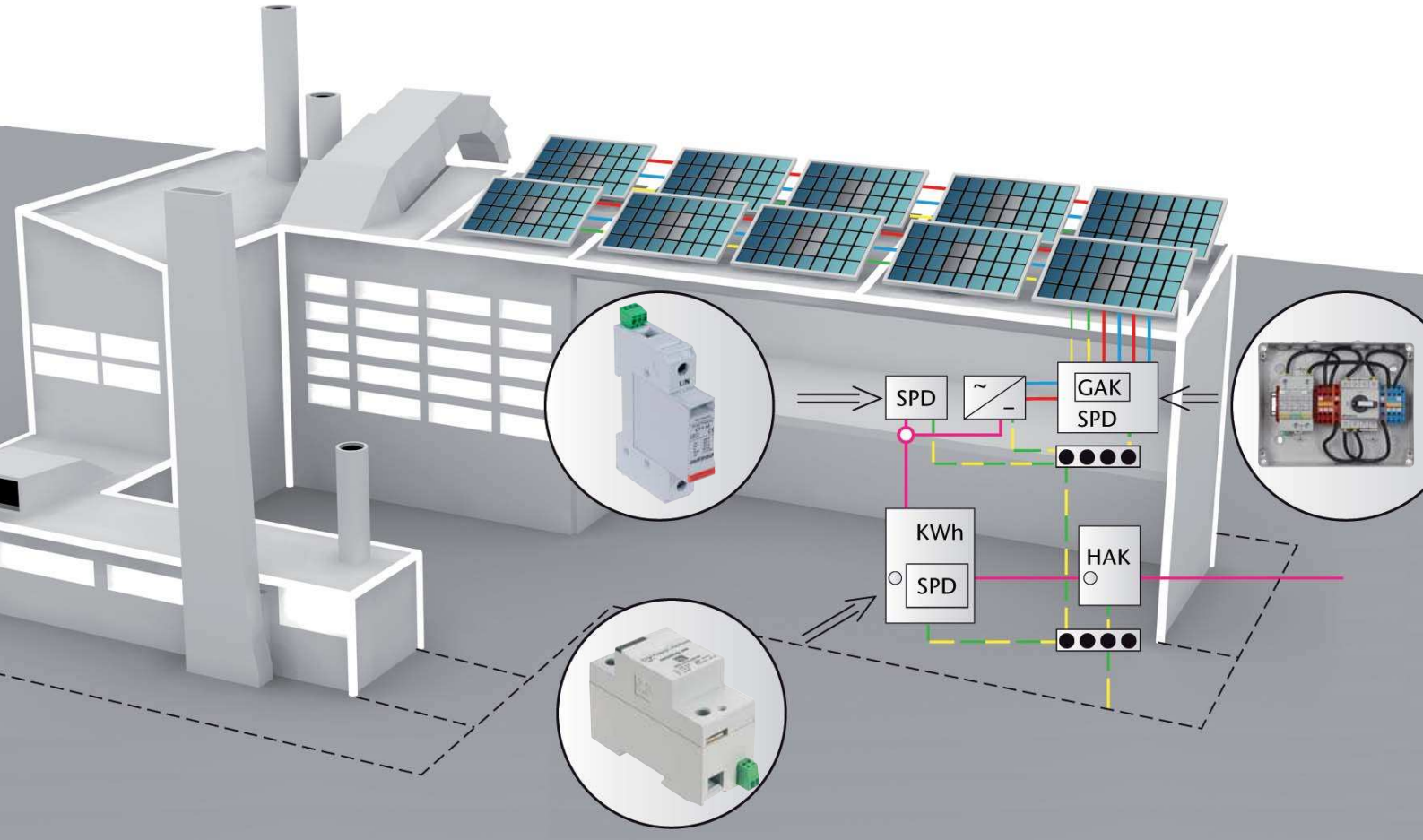
carry lightning current must be created between the external lightning protection facility and the frame of the PV modules. In such cases, part of the lightning current is coupled to the DC side and an overvoltage arrester (SPD) Class 1 is required. (**CP VH 60 VGPV-1000**). If the separation distance is maintained, or where there is no external lightning protection, an overvoltage arrester (SPD) Class 2 (**CP VH 50 PV-1000/G**) must be connected to the DC side to provide the required protection. Lighting strikes, or other forms of voltage spikes on the DC side, can also endanger other electrical circuits in the system. Therefore, the AC side should always be included in the system. A combi-arrester type 1+2+3, installed directly before or just after the meter, delivers an excellent level of protection through the three protection steps and gives the highest load capacity (**CP DS 250 VG**).

Terminal blocks

It is sometimes necessary to provide connection points in the areas in front and behind the inverter. This could be achieved using pre-wired string housings or terminal blocks for self-connection in main and sub distribution panel applications. **CONTA-CLIP** offers a their **CONTA-CONNECT** standard range of terminal blocks, colour coded in red or blue, and accessories as tension-spring or screw connections up to 240 mm².

Tools

CONTA-CLIP offers tools for working on solar cables and connectors in the form of the PVS-PZ TF plus Crimping and cutting tool set for photovoltaic and solar connectors, these come in a practical box.



Solutions for Photovoltaic

Pre-assembled housings

- String housings for 4 or 8 parallel connected strings
- Red screw or spring connection terminals to connect the positive (+) wire
- Blue screw or spring connection terminals to connect the negative (-) wire
- Voltage to 1000 V DC
- Polycarbonate casing with a transparent lid
- Protection: IP66
- Cable glands included

	PVS-...-S	PVS-...-Z
		
	String housing with screw terminals	String housing with tension-spring terminals
Connection type	**Screw connection**	**Tension-spring connection**
Size (L x W x H) mm PVS-4 (without cable glands)	182 x 180 x 90	182 x 180 x 90
Size (L x W x H) mm PVS-8 (without cable glands)	254 x 180 x 90	254 x 180 x 90
TYPE	Qty.	Qty.
Type	PVS-4-S	PVS-4-Z
Cat. no.	**17300.0** 1	**17301.0** 1
Type	PVS-8-S	PVS-8-Z
Cat. no.	**17302.0** 1	**17303.0** 1
Technical data		
Number of Strings (PVS-4 / PVS-8)	4 / 8	4 / 8
Max. Current (IEC) V DC	1000	1000
Max. current A	57	41
Data connection terminals *		
Type	SRK 6/2A	ZRK 6/2A
Rated voltage V (IEC)	1000	1000
Rated current, A | Max. current capacity, A	41 | 57	41 | -
Rated wire cross-section, mm² | AWG	6 | 22-8	6 | 22-8
Connection data		
Single wire (solid) | Stranded mm²	0.2-10 | 0.2-10	0.5-10 | -
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm²	0.2-10 | 0.2-6	0.5-10 | 0.5-6
Contact wire range mm²	0.2-10	0.5-10
Stripping length, mm	10	13
Torque, Nm | Screw	1.2-2.0 | Slotted M 3.5	-
Data Overvoltage protection*2		
Type		
Arrester | Class		
Rated voltage V DC		
Max. discharge current (8/20) µs kA		
Rated discharge surge current (8/20) µs kA		
Protection level kV		
Response time ns		
Connection cross-section mm²		
Remote signalling contact AC | DC		
Data Overvoltage protection*3		
Type		
Output voltage V DC		
Rated current, A		
Connection data		
Single wire (solid), stranded mm²		
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm²		
Torque, Nm | Screw		
Data Case		
Material	Polycarbonate glass fibre reinforced	Polycarbonate glass fibre reinforced
Protection	IP66	IP66
Flamm. class acc. to UL 94	V2	V2
Temperature range	-35°C to +120°C	-35°C to +80°C
Impact resistance	IK08 DIN EN 5012	IK08 DIN EN 5012
Cable glands PVS-4 | PVS-8	10 x M16 - 1 x M20 | 18 x M16 - 1 x M20	10 x M16 - 1 x M20 | 18 x M16 - 1 x M20
Accessory	Page Qty.	Page Qty.
Terminals blue	SRK 6/2A BU	ZRK 6/2A BU
Cat. no.	**17108.5** 13 100	**3581.5** 13 100
Terminals red	SRK 6/2A RD	ZRK6/2A RD
Cat. no.	**17108.9** 13 100	**3581.9** 13 100

* Technical data for the connection terminals, see pages 12-13 *2 Technical data for the overvoltage protection, see page 22 *3 Technical data of the load-break switch, see page 37

Solutions for Photovoltaic

Pre-assembled housings

- String housings for 4 or 8 parallel connected strings with overvoltage protection
- Red screw or spring connection terminals to connect the positive (+) wire
- Blue screw or spring connection terminals to connect the negative (-) wire
- Overvoltage protection class II
- Voltage to 1000 V DC
- Polycarbonate casing with a transparent lid
- Protection: IP66
- Cable glands included

	PVS-...-SÜ	PVS-...-ZÜ
		
	String housing with screw terminals	String housing with tension-spring terminals
Connection type	**Screw connection**	**Tension-spring connection**
Size (L x W x H) mm PVS-4 (without cable glands)	200 x 200 x 122	200 x 200 x 122
Size (L x W x H) mm PVS-8 (without cable glands)	250 x 200 x 122	250 x 200 x 122
Type	**Qty.**	**Qty.**
Type	PVS-4-SÜ	PVS-4-ZÜ
Cat. no.	**17304.0** 1	**17305.0** 1
Type	PVS-8-SÜ	PVS-8-ZÜ
Cat. no.	**17306.0** 1	**17307.0** 1
Technical data		
Number of Strings (PVS-4 / PVS-8)	4 / 8	4 / 8
Max. Current (IEC) V DC	1000	1000
Max. current A	57	41
Data connection terminals *		
Type	SRK 6/2A	ZRK 6/2A
Rated voltage V (IEC)	1000	1000
Rated current, A | Max. current capacity, A	41 | 57	41 | -
Rated wire cross-section, mm² | AWG	6 | 22-8	6 | 22-8
Connection data		
Single wire (solid) | Stranded mm²	0.2-10 | 0.2-10	0.5-10 | -
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm²	0.2-10 | 0.2-6	0.5-10 | 0.5-6
Contact wire range mm	0.2-10	0.5-10
Stripping length, mm	10	13
Torque, Nm | Screw	1.2-2.0 | Slotted M 3.5	-
Data Overvoltage protection *2		
Type	CP VH 50 PV-1000/G	CP VH 50 PV-1000/G
Arrester | Class	Type 2 | class C	Type 2 | class C
Rated voltage V DC	1000	1000
Max. discharge current (8/20) µs kA	40	40
Rated discharge surge current (8/20) µs kA	20	20
Protection level kV	< 4.5	< 4.5
Reaction time ns	< 25	< 25
Connection cross-section mm²	4 - 25	4 - 25
Remote signalling contact AC | DC	Potential-free CO 250 V/0.5 A | 30 V/2 A	Potential-free CO 250 V/0.5 A | 30V/2 A
Data Overvoltage protection *3		
Type		
Output voltage V DC		
Rated current, A		
Connection data		
Single wire (solid) | Stranded mm²		
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm²		
Torque, Nm | Screw		
Data Case		
Material	Polycarbonate glass fibre reinforced	Polycarbonate glass fibre reinforced
Protection	IP66	IP66
Flamm. class acc. to UL 94	V2	V2
Temperature range	-35°C to +80°C	-35°C to +120°C
Impact resistance	IK08 DIN EN 5012	IK08 DIN EN 5012
Cable glands PVS-4 | PVS-8	10 x M20 w. RDE - 1 x M20 | 18 x M20 w. RDE - 1 x M20	10 x M20 w. RDE - 1 x M20 | 18 x M20 w. RDE - 1 x M20
Accessory	**Page** **Qty.**	**Page** **Qty.**
Terminals blue	SRK 6/2A BU	ZRK 6/2A BU
Cat. no.	**17108.5** 13 100	**3581.5** 13 100
Terminals red	SRK 6/2A RD	ZRK6/2A RD
Cat. no.	**17108.9** 13 100	**3581.9** 13 100
Overvoltage protection replacement plug-in module	CP 50 PV-1000-S	CP 50 PV-1000-S
Cat. no.	**16044.2** 22 1	**16044.2** 22 1

Solutions for Photovoltaic

Pre-assembled housings

- String housings for 4 or 8 parallel connected strings with load-break switch to isolate the inverter.
- Red screw or spring connection terminals to connect the positive (+) wire
- Blue screw or spring connection terminals to connect the negative (-) wire
- Load-break switch 25A, Voltage to 1000 V DC
- Polycarbonate casing with a transparent lid
- Protection: IP65
- Cable glands included

	PVS-...-SLT	PVS-...-ZLT
		
	String housing with Load-break switch and screw terminals	String housing with Load-break switch and tension-spring terminals
Connection type	**Screw connection**	**Tension-spring connection**
Size (L x W x H) mm PVS-4 (without cable glands)	200 x 200 x 122	200 x 200 x 122
Size (L x W x H) mm PVS-8 (without cable glands)	250 x 200 x 122	250 x 200 x 122
TYPE	**Qty.**	**Qty.**
Type	PVS-4-SLT	PVS-4-ZLT
Cat. no.	**17308.0** 1	**17309.0** 1
Type	PVS-8-SLT	PVS-8-ZLT
Cat. no.	**17310.0** 1	**17311.0** 1
Technical data		
Number of Strings (PVS-4 / PVS-8)	4 / 8	4 / 8
Max. Current (IEC) V DC	1000	1000
Max. current A	25	25
Data connection terminals *		
Type	SRK 6/2A	ZRK 6/2A
Rated voltage V (IEC)	1000	1000
Rated current, A | Max. current capacity, A	41 | 57	41 | -
Rated wire cross-section, mm^2 | AWG	6 | 22-8	6 | 22-8
Connection data		
Single wire (solid) | Stranded mm^2	0.2-10 | 0.2-10	0.5-10 | -
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm^2	0.2-10 | 0.2-6	0.5-10 | 0.5-6
Contact wire range mm^2	0.2-10	0.5-10
Stripping length, mm	10	13
Torque, Nm | Screw	1.2-2.0 | Slotted M 3.5	-
Data Overvoltage protection*2		
Type		
Arrester | Class		
Rated voltage V DC		
Max. discharge current (8/20) µs kA		
Rated discharge surge current (8/20) µs kA		
Protection level kV		
Response time ns		
Connection cross-section mm^2		
Remote signalling contact AC | DC		
Data Overvoltage protection*3		
Type	PVS-LT-V 1000V DC	PVS-LT-V 1000V DC
Output voltage V DC	1000	1000
Rated current, A	25	25
Connection data		
Single wire (solid), stranded mm^2	4-16	4-16
Flexible|Flexible (w/ferrules acc. to DIN 46 228/1) mm^2	4-10	4-10
Torque, Nm | Screw	1.2-1.8 | Pz2 M 4	1.2-1.8 | Pz2 M 4
Case Data		
Material	Polycarbonate glass fibre reinforced	Polycarbonate glass fibre reinforced
Protection	IP65	IP65
Flamm. class acc. to UL 94	V2	V2
Temperature range	-35 °C to +80 °C	-35°C to +120°C
Impact resistance	IK08 DIN EN 5012	IK08 DIN EN 5012
Cable glands PVS-4 | PVS-8	10 x M20 w. RDE - 1 x M20 | 18 x M20 w. RDE - 1 x M20	10 x M20 w. RDE - 1 x M20 | 18 x M20 w. RDE - 1 x M20
Accessory	**Page** **Qty.**	**Page** **Qty.**
Terminals blue	SRK 6/2A BU	ZRK 6/2A BU
Cat. no.	**17108.5** 13 100	**3581.5** 13 100
Terminals red	SRK 6/2A RD	ZRK6/2A RD
Cat. no.	**17108.9** 13 100	**3581.9** 13 100
Load-break switch	PVS-LT-V 1000V DC	PVS-LT-V 1000V DC
Cat. no.	**17320.2** 37 1	**17320.2** 37 1

* Technical data for the connection terminals, see pages 12-13 *2 Technical data for the overvoltage protection, see page 22 *3 Technical data of the load-break switch, see page 37

Solutions for Photovoltaic

Pre-assembled housings

- String housings for 4 or 8 parallel connected strings with overvoltage protection and load-break switch to isolate the inverter.
- Red screw or spring connection terminals to connect the positive (+) wire
- Blue screw or spring connection terminals to connect the negative (-) wire
- Load-break switch 25 A
- Overvoltage protection class II
- Voltage to 1000 V DC
- Polycarbonate case with transparent lid
- Protection: IP65
- Cable glands included

	PVS-...-SÜLT	PVS-...-ZÜLT
		
	String housing with overvoltage protection, load-break switch and screw terminals	String housing with overvoltage protection, load-break switch and tension-spring terminals
Connection type	**Screw connection**	**Tension-spring connection**
Dimensions (L x B x H) mm PVS-4 (without cable glands)	250 x 200 x 122	250 x 200 x 122
Dimensions (L x B x H) mm PVS-8 (without cable glands)	300 x 300 x 142	300 x 300 x 142
TYPE	**Qty.**	**Qty.**
Type	PVS-4-SÜLT	PVS-4-ZÜLT
Cat. no.	**17312.0** 1	**17313.0** 1
Type	PVS-8-SÜLT	PVS-8-ZÜLT
Cat. no.	**17314.0** 1	**17315.0** 1
Technical data		
Number of Strings (PVS-4 / PVS-8)	4 / 8	4 / 8
Max. Current (IEC) V DC	1000	1000
Max. current A	25	25
Data connection terminals *		
Type	SRK 6/2A	ZRK 6/2A
Rated voltage V (IEC)	1000	1000
Rated current, A | Max. current capacity, A	41 | 57	41 | -
Rated wire cross-section, mm² | AWG	6 | 22-8	6 | 22-8
Connection data		
Single wire (solid) | stranded (stranded) mm²	0.2-10 | 0.2-10	0.5-10 | -
Flexible|Flexible (w/ferrules acc. to DIN 46 228/1) mm²	0.2-10 | 0.2-6	0.5-10 | 0.5-6
Contact wire range mm²	0.2-10	0.5-10
Stripping length, mm	10	13
Torque, Nm | Screw	1.2-2.0 | Slotted M 3.5	-
Data Overvoltage protection *2		
Type	CP VH 50 PV-1000/G	CP VH 50 PV-1000/G
Arrester | Class	Type 2 | class C	Type 2 | class C
Rated voltage V DC	1000	1000
Max. discharge current (8/20) µs kA	40	40
Rated discharge surge current (8/20) µs kA	20	20
Protection level kV	< 4.5	< 4.5
Response time ns	< 25	< 25
Connection cross-section mm²	4 - 25	4 - 25
Remote signalling contact AC | DC	Potential-free CO 250 V/0.5 A | 30 V/2 A	Potential-free CO 250 V/0.5 A | 30V/2 A
Data Overvoltage protection *3		
Type	PVS-LT-V 1000V DC	PVS-LT-V 1000V DC
Output voltage V DC	1000	1000
Rated current, A	25	25
Connection data		
Single wire (solid), stranded mm²	4-16	4-16
Flexible|Flexible (w/ferrules acc. to DIN 46 228/1) mm²	4-10	4-10
Torque, Nm | Screw	1.2-1.8 | Pz2 M 4	1.2-1.8 | Pz2 M 4
Case Data		
Material	Polycarbonate glass fibre reinforced	Polycarbonate glass fibre reinforced
Protection type	IP65	IP65
Flamm. class acc. to UL 94	V2	V2
Temperature range	-35°C to +120°C	-35°C to +120°C
Impact resistance	IK08 DIN EN 5012	IK08 DIN EN 5012
Cable glands PVS-4 | PVS-8	10 x M20 w. RDE - 1 x M20 | 18 x M20 w. RDE - 1 x M20	10 x M20 w. RDE - 1 x M20 | 18 x M20 w. RDE - 1 x M20
Accessory	**Page Qty.**	**Page Qty.**
Terminals blue	SRK 6/2A BU	ZRK 6/2A BU
Cat. no.	**17108.5** 13 100	**3581.5** 13 100
Terminals red	SRK 6/2A RD	ZRK6/2A RD
Cat. no.	**17108.9** 13 100	3581.9 PVS-LT-V 1000V DC 13 100
Load-break switch	PVS-LT-V 1000V DC	**17320.2**
Cat. no.	**17320.2** 37 1	CP 50 PV-1000-S 37 1
Overvoltage protection replacement plug-in module	CP 50 PV-1000-S	**16044.2**
Cat. no.	**16044.2** 22 1	22 1

Solutions for Photovoltaic

Pre-assembled overvoltage protection housing

- Overvoltage protection housing
- Overvoltage protection class II
- Voltage to 1000 V DC
- Polycarbonate casing with a transparent lid
- Protection: IP65
- Cable glands included

	PVS-1-SÜ	
	Housing with overvoltage protection and screw terminals	
Connection type	**Screw connection**	
Size (L x W x H) mm (without cable glands)	125 x 200 x 122	
TYPE	**Qty.**	
Type	PVS-1-SÜ	
Cat. no.	**17316.0** 1	
Type		
Cat. no.		
Technical data		
No. Strings	1	
Max. Current (IEC) V DC	1000	
Max. current A	57	
Data connection terminals *		
Type	SRK 6/2A	
Rated voltage V (IEC)	1000	
Rated current, A | Max. current capacity, A	41 | 57	
Rated wire cross-section, mm² | AWG	6 | 22-8	
Connection data		
Single wire (solid) | stranded (stranded) mm²	0.2-10 | 0.2-10	
Flexible|Flexible (w/ferrules acc. to DIN 46 228/1) mm²	0.2-10 | 0.2-6	
Contact wire range mm²	0.2-10	
Stripping length, mm	10	
Torque, Nm | Screw	1.2-2.0 | Slotted M 3.5	
Data Overvoltage protection*2		
Type	CP VH 50 PV-1000/G	
Arrester | Class	Type 2 | Class C	
Rated voltage V DC	1000	
Max. discharge current (8/20) µs kA	40	
Rated discharge surge current (8/20) µs kA	20	
Protection level kV	< 4.5	
Reaction time ns	< 25	
Connection cross-section mm²	4 - 25	
Remote signalling contact AC | DC	Potential-free CO 250 V/0.5 A | 30 V/2 A	
Data Overvoltage protection*3		
Type		
Output voltage V DC		
Rated current, A		
Connection data		
Single wire (solid), stranded mm²		
Flexible|Flexible (w/ferrules acc. to DIN 46 228/1) mm²		
Torque, Nm | Screw		
Case Data		
Material	Polycarbonate glass fibre reinforced	
Degree of protection	IP65	
Flamm. class acc. to UL 94	V2	
Temperature range	-35°C to +80°C	
Impact resistance	IK08 DIN EN 5012	
Cable glands	1 x M20 - 4x M20 with reducing sleeves	
Accessory	**Page** **Qty.**	
Terminals blue	SRK 6/2A BU	
Cat. no.	**17108.5** 13 100	
Terminals red	SRK 6/2A RD	
Cat. no.	**17108.9** 13 100	
Overvoltage protection replacement plug-in module	CP 50 PV-1000-S	
Cat. no.	**16044.2** 22 1	

* Technical data for the connection terminals, see pages 12-13 *2 Technical data for the overvoltage protection, see page 22 *3 Technical data of the load-break switch, see page 37

Connection box

- Connection box for quick and easy extension of PV cabling
- Material: Polycarbonate
- 2x integrated M16 cable glands
- Protection: IP65

PVS-1-Z

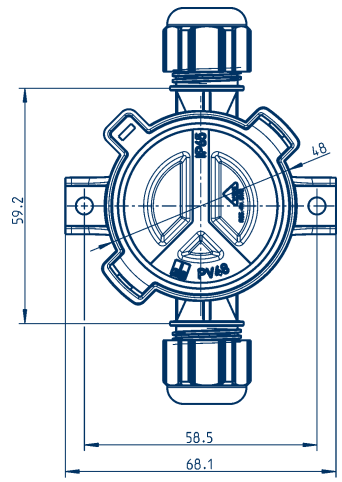
Connection box for PV cabling with tension-spring connection

Connection type	**Tension-spring connection**
Dimensions (D x H) mm (without cable glands)	45 x 24

TYPE	**Qty.**
Type	PVS-1-Z junction box
Cat. no.	**17330.4** 1
Type	
Cat. no.	

Technical data	
Rated voltage, V	800
Rated isolation voltage (acc. to EN 60439-1) V	1000
Maximum permitted working voltage V	100
Rated current, A	15
Connection cross-section PV cable mm²	6
Stripping length, mm	17

Common data	
Material	Polycarbonate
Protection	IP65
Flamm. class acc. to UL 94	5V
Temperature range	-35°C to +80°C
Impact strength	IK07 DIN EN 5012
Protective insulation acc. to DIN VDE 0106	II
Diameter attachment holes mm	4
Cable glands	2 x M16

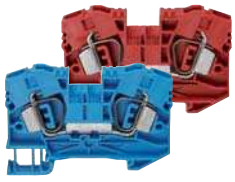
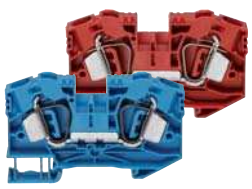
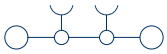
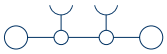


Terminal Blocks and Accessories

*Feed-through terminals **ZRK***

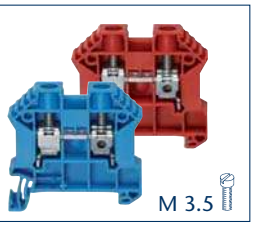
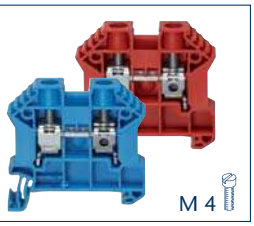
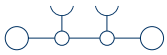
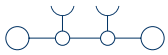
Tension-spring connection system

- Foot can be snapped on TS 35 DIN rail
- Housing made from polyamide 6.6 UL 94-V0

	ZRK 6/2A	ZRK 10/2A	ZRK 16/2A
			
Connection diagram			
	Feed-through terminal 2 connections	Feed-through terminal 2 connections	Feed-through terminal 2 connections
Connection type	**Tension-spring**	**Tension-spring**	**Tension-spring**
Size (L x W x H) with TS 35 x 7.5 mm	65 x 8.1 x 47.5	73.5 x 10.1 x 50.5	81.5 x 12.1 x 51.5
Type	**Qty.**	**Qty.**	**Qty.**
Type colour	ZRK 6/2A RD	ZRK 10/2A RD	ZRK 16/2A RD
Cat. no.	**3581.9** 100	**3597.9** 50	**3636.9** 50
Type colour	ZRK 6/2A BU	ZRK 10/2A BU	ZRK 16/2A BU
Cat. no.	**3581.5** 100	**3597.5** 50	**3636.5** 50
Type colour			
Cat. no.			
Type colour			
Cat. no.			
Colours available	(2) .5 .3 .1 .9	(2) .5 .3 .1 .9	(2) .5 .3 .1 .9
Ratings	**IEC / CSAus / CSA**	**IEC / CSAus / CSA**	**IEC / CSAus / CSA**
Rated voltage, V	1000 / 600 / 600	1000 / 500 / 500	1000 / 1000 / 1000
Rated current, A	41 / 50 / 50	57 / 55 / 55	76 / 65 / 65
Rated wire cross-section, mm² | AWG	6 | 22-8	10 | 16-6	16 | 14-4
Rated impulse voltage, kV | Contamination degree	8 | 3	8 | 3	8 | 3
Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94	A5 | V0	B6 | V0	A7 | V0
Connection data			
Single wire (solid) | stranded (stranded) mm²	0.5-10 | -	1.5-16 | 1.5-16	1.5-16 | 1.5-25
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm²	0.5-10 | 0.5-6	1.5-10 | 1.5-10	1.5-16 | 1.5-16
Contact wire range, mm²	0.5-10	1.5-16	1.5-25
Stripping length, mm	13	18	18
Features			
Material of insulated housing | Temperature range	PA 6.6 | -40 to +120°C	PA 6.6 | -40 to +120°C	PA 6.6 | -40 to +120°C
Number of cross-connection channels |Test pick-off	1 | 2	2 | 2	2 | 2
Accessories	**Qty.**	**Qty.**	**Qty.**
End plate AP (.3 .5 .9)	ZAP 6/2A BG	ZAP 10/2A BG	ZAP 16/2A BG
Cat. no.	**3760.2** 20	**3788.2** 20	**3799.2** 20
Insulated cross-connector ZQI 2 poles	ZQI 6/2 YE	ZQI 10/2 YE	ZQI 16/2 YE
Cat. no.	**3763.8** 50	**3789.8** 20	**3800.8** 20
Insulated cross-connector ZQI 3 poles	ZQI 6/3 YE		
Cat. no.	**3764.8** 50		
Insulated cross-connector ZQI 4 poles	ZQI 6/4 YE		
Cat. no.	**3765.8** 20		
Insulated cross-connector ZQI 5 poles	ZQI 6/5 YE		
Cat. no.	**3766.8** 20		
Insulated cross-connector ZQI 6 poles	ZQI 6/6 YE		
Cat. no.	**3767.8** 20		
Insulated cross-connector ZQI 7 poles	ZQI 6/7 YE		
Cat. no.	**3768.8** 20		
Insulated cross-connector ZQI 8 poles	ZQI 6/8 YE		
Cat. no.	**3769.8** 10		
Insulated cross-connector ZQI 9 poles	ZQI 6/9 YE		
Cat. no.	**3770.8** 10		
Insulated cross-connector ZQI 10 poles	ZQI 6/10 YE		
Cat. no.	**3771.8** 10		
End stop ZES (.5 .9)	ZES 35 BG	ZES 35 BG	ZES 35 BG
Cat. no.	**3748.2** 50	**3748.2** 50	**3748.2** 50
Screwdriver SDB	SDB 0.8x4.0	SDB 0.8x4.0	SDB 0.8x4.0
Cat. no.	**1087.0** 1	**1087.0** 1	**1087.0** 1
Quick marking PMC SB	PMC SB 8/40 WH	PMC SB 8/40 WH	PMC SB 8/40 WH
Cat. no.	**9323.7** 400	**9323.7** 400	**9323.7** 400

Further accessories can be found in the CONTA-CONNECT catalogue, or under www.conta-clip.com

Feed-through terminals ***SRK***

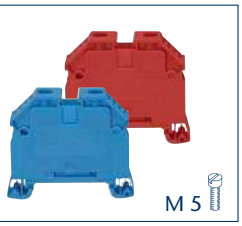
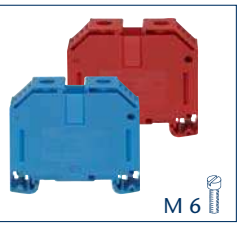
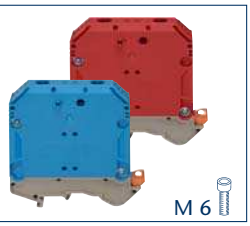
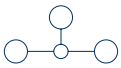
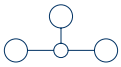
Screw connection system	**SRK 6/2A**	**SRK 10/2A**	
			
• Foot can be snapped on TS 35 DIN rail • Housing made from polyamide 6.6 UL 94-V0			
Connection diagram			
	Feed-through terminal 2 connections	Feed-through terminal 2 connections	

Connection type	**Screw connection**	**Screw connection**	
Size (L x W x H), mm with TS 35 x 7.5 mm	48 x 8 x 47	48 x 10 x 47	
Type	**Qty.**	**Qty.**	
Type colour **Cat. no.**	SRK 6/2A RD **17108.9** 100	SRK 10/2A RD **17112.9** 100	
Type colour **Cat. no.**	SRK 6/2A BU **17108.5** 100	SRK 10/2A BU **17112.5** 100	
Type colour **Cat. no.**			
Type colour **Cat. no.**			
Colours available	.2 .5 .3 .1 .4 .6 .7 .8 .9	.2 .5 .3 .1 .4 .6 .7 .8 .9	
Ratings	**IEC / CSAus / CSA**	**IEC / CSAus / CSA**	
Rated voltage, V	1000 / 600 / 600	1000 / 600 / 600	
Rated current, A | Max. current capacity, A	41 | 57 / 50 / 50	57 | 76 / 65 / 65	
Rated wire cross-section, mm² | AWG	10 | 22-8	16 | 10-6	
Rated impulse voltage, kV | Contamination degree	8 | 3	8 | 3	
Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94	A5 | V0	B7 | V2	
Connection data			
Single wire (solid) | stranded (stranded) mm²	0.2-10 | 0.2-10	0.2-16 | 0.2-16	
Flexible|Flexible (w/ferrules acc. to DIN 46 228/1) mm²	0.2-10 | 0.2-6	0.2-16 | 0.2-10	
Contact wire range, mm²	0.2-10	0.6-16	
Stripping length, mm	10	10	
Torque, Nm | Screw	1.2-2.0 | Slotted M 3.5	2.0-4.0 | Slotted M 4	
Special connection, mm			
Features			
Material of insulated housing | Temperature range	PA 6.6 | -40 to +120°C	PA 6.6 | -40 to +120°C	
Number of cross-connection channels |Test pick-off	2 | 1	2 | 1	
Accessories	**Qty.**	**Qty.**	
End plate AP (.3 .5 .9) **Cat. no.**	AP 2.5-10 BG **2001.2** 50	AP 2.5-10 BG **2001.2** 50	
Partition plate TW **Cat. no.**	TW 2.5-10 OG **2002.3** 50	TW 2.5-10 OG **2002.3** 50	
Insulating cap SQIK for cross-connector **Cat. no.**	SQIK 2.5-10 YE **17200.8** 20	SQIK 2.5-10 YE **17200.8** 20	
Insulated cross-connection SQI **Cat. no.** 2 poles	SQI 6/2 YE **17221.8** 50	SQI 10/2 YE **17231.8** 50	
Insulated cross-connection SQI **Cat. no.** 3 poles	SQI 6/3 YE **17222.8** 50	SQI 10/3 YE **17232.8** 50	
Insulated cross-connection SQI **Cat. no.** 4 poles	SQI 6/4 YE **17223.8** 20	SQI 10/4 YE **17233.8** 20	
Insulated cross-connection SQI **Cat. no.** 5 poles	SQI 6/5 YE **17224.8** 20	SQI 10/5 YE **17234.8** 20	
Insulated cross-connection SQI **Cat. no.** 6 poles	SQI 6/6 YE **17225.8** 20	SQI 10/6 YE **17235.8** 20	
Insulated cross-connection SQI **Cat. no.** 7 poles	SQI 6/7 YE **17226.8** 20	SQI 10/7 YE **17236.8** 20	
Insulated cross-connection SQI **Cat. no.** 8 poles	SQI 6/8 YE **17227.8** 10	SQI 10/8 YE **17237.8** 10	
Insulated cross-connection SQI **Cat. no.** 9 poles	SQI 6/9 YE **17228.8** 10	SQI 10/9 YE **17238.8** 10	
Insulated cross-connection SQI **Cat. no.** 10 poles	SQI 6/10 YE **17229.8** 10	SQI 10/10 YE **17239.8** 10	
Insulated cross-connection SQI **Cat. no.** 30 poles	SQI 6/30 YE **17230.8** 5	SQI 10/30 YE **17240.8** 5	
End stop ES (.5 .9) **Cat. no.**	ES 35/K/ST BG **2828.0** 50	ES 35/K/ST BG **2828.0** 50	
Screwdriver SDB **Cat. no.**	SDB 0.8x4.0 **1087.0** 1	SDB 0.8x4.0 **1087.0** 1	
Quick marking PMC SB **Cat. no.**	PMC BSTR 8x12/21 WH **9410.7** 210	PMC BSTR 10x12/10 WH **9433.7** 100	

Further accessories can be found in the CONTA-CONNECT catalogue, or under www.conta-clip.com

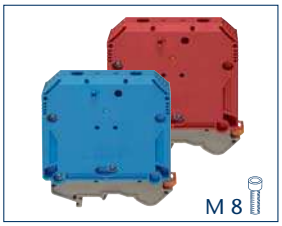
Terminal Blocks and Accessories

*Feed-through terminals **RK** | Measurement pick-off terminals **MAG***

Screw connection system	**RK 16/35 N**	**RK 35/35 N**	**RK 50**
	 M 5	 M 6	 M 6
• Foot can be snapped on TS 35 and TS 32 DIN rails • Housing made from polyamide 6.6 UL 94-V2			
Connection diagram			
	Feed-through terminal 2 connections	Feed-through terminal 2 connections	Feed-through terminal 2 connections
Connection type	**Screw connection**	**Screw connection**	**Screw connection**
Size (L x W x H)mm with TS 32 mm			79 x 20 x 82
Size (L x B x H) mm with TS 35 x 7.5 mm	54 x 12 x 47	58 x 16 x 52	79 x 20 x 76.5
Type	**Qty.**	**Qty.**	**Qty.**
Type colour	RK 16/35/N RD	RK 35/35/N RD	RK 50 RD
Cat. no.	**1511.9** 50	**1512.9** 20	**1120.9** 10
Type colour	RK 16/35/N BU	RK 35/35/N BU	RK 50 BU
Cat. no.	**1511.5** 50	**1512.5** 20	**1120.5** 10
Type colour			
Cat. no.	50		
Type colour			
Cat. no.	50		
Colours available	.2 .5 .4 .6 .7 .8 .9	.2 .5 .4 .6 .7 .9	.2 .5 .4 .6 .9
Rated specifications acc. to	**IEC CSAus CSA**	**IEC CSAus CSA**	**IEC UL CSA**
Rated voltage, V	800 600 600	800 600 600	1000 600 600
Rated current, A	76 65 85	125 110 115	150 150 150
Rated wire cross-section, mm² | AWG	16 | 10-6	35 | 12-2	50 | 4/0-2
Rated impulse voltage, kV | Contamination degree	8 | 3	8 | 3	8 | 3
Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94	B7 | V2	B9 | V2	B10 | V2
Connection data			
Single wire (solid) / Stranded mm²	2.5-25 | 2.5-25	2.5-50 | 2.5-50	16-50 | 25-50
Finely stranded/Finely stranded (w/ferrules acc. to DIN 46 228/1) mm²	2.5-16 | 2.5-16	2.5-35 | 2.5-35	25-50 | 25-50
Contact wire range, mm²	2.5-25	2.5-50	16-50
Stripping length, mm	15	20	27
Torque, Nm | Screw	2.0-4.0 | Slotted M 5	2.5-5.0|Slotted M6	3-6 | Hexagon socket M6
Banded wire up to mm			11.8 x 5
Features			
Material of insulated housing | Temperature range	PA 6.6 | -40 to +105°C	PA 6.6 | -40 to +105°C	PA 6.6 | -40 to +105°C
Number of cross-connection channels |Test pick-off	1 | -	1 | -	- | -
Accessories	**Qty.**	**Qty.**	**Qty.**
Insulated cross-connector AQI 2 poles **Cat. no.**			AQI 2/50 YE **2763.2** 5
Insulated cross-connector AQI 3 poles **Cat. no.**			AQI 3/50 YE **2764.2** 5
Cross-connector Q 2 poles **Cat. no.**	Q 2 **2257.0** 20	Q 2 **2164.0** 20	
Cross-connector Q 3 poles **Cat. no.**	Q 3 **2258.0** 20	Q 3 **2165.0** 20	
Cross-connector Q 4 poles **Cat. no.**	Q 4 **2265.0** 10	Q 4 **2166.0** 10	
Cross-connector Q 10 poles **Cat. no.**	Q 10 **2266.0** 10	Q 10 **2167.0** 10	
Cover AD **Cat. no.**		ES 35/K/ST BG **2828.0** 50	AD 1/50/B YE **2810.0** 10
Inlay profile EP **Cat. no.**			EP 50 **2274.0** 10
Measurement pick-off terminal MAG **Cat. no.**			MAG 50 BG **1121.2** 10
End stop ES **Cat. no.**	ES 35/K/ST BG **2828.0** 50	ES 35/K/ST BG **2828.0** 50	ES 35/K/ST BG **2828.0** 50
Test adapter TA **Cat. no.**			
Screwdriver SDB **Cat. no.**	SDB 1.2x6.5 **1088.0** 1	SDB 1.2x6.5 **1088.0** 1	
Allen key socket wrench ISKS **Cat. no.**			ISKS 5 **2818.0** 1
Quick marking PMC SB **Cat. no.**	PMC SB 6/50 WH **4702.7** 500	PMC SB 6/50 WH **4702.7** 500	PMC SB 6/50 WH **4702.7** 500

Further accessories can be found in the CONTA-CONNECT catalogue, or under www.conta-clip.com

RK 95



Feed-through terminal
2 connections

Screw connection

84 x 25 x 94
84 x 25 x 88.5

	Qty.
RK 95 RD	
1122.9	10
RK 95 BU	
1122.5	10

IEC	UL	CSA
1000	600	600
232	230	230

95 | 4/0-2
8 | 3
B12 | V2

25-95 | 35-95
35-95 | 35-95
25-95
30
6-12 | Hexagon socket M8
16 x 6

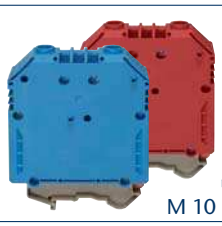
PA 6.6 | -40 to +105°C
- | -

	Qty.
AQI 2/95 YE	
2765.2	5
AQI 3/95 YE	
2766.2	5

	Qty.
AD 1/95/B YE	
2804.0	10
EP 95	
2275.0	10
MAG 95 BG	
1123.2	10
ES 35/K/ST BG	
2828.0	50

	Qty.
ISKS 6	
2772.0	1
PMC SB 6/50 WH	
4702.7	500

RK 150



Feed-through terminal
2 connections

Screw connection

93 x 31 x 118.5
93 x 31 x 112.8

	Qty.
RK 150 RD	
1124.9	5
RK 150 BU	
1124.5	5

IEC	UL	CSA
1000	600	600
309	275	275

150 | 300-2
8 | 3
B14 | V2

35-150 | 50-150
50-150 | 50-150
35-150
38
10-20 | Hexagon socket M10
20 x 8

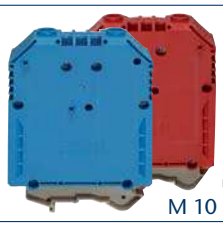
PA 6.6 | -40 to +105°C
- | -

	Qty.
AQI 2/150 YE	
2767.2	5
AQI 3/150 YE	
2768.2	5

	Qty.
AD 1/150/B YE	
2806.0	10
EP 150	
2277.0	10
MAG 150/240 BG	
1125.2	10
ES 35/K/ST BG	
2828.0	50

	Qty.
ISKS 8	
2773.0	1
PMC SB 6/50 WH	
4702.7	500

RK 240



Feed-through terminal
2 connections

Screw connection

93 x 36 x 132
93 x 36 x 126.3

	Qty.
RK 240 RD	
1126.9	5
RK 240 BU	
1126.5	5

IEC	UL	CSA
1000	600	600
380	370	370

240 | 500-2/0
8 | 3
B16 | V2

70-240 | 70-240
70-240 | 70-185
70-240
38
10-20 | Hexagon socket M10
20 x 12

PA 6.6 | -40 to +105°C
- | -

	Qty.
AQI 2/240 YE	
2769.2	5
AQI 3/240 YE	
2770.2	5

	Qty.
AD 1/240/B YE	
2808.0	10
EP 240	
2360.0	10
MAG 150/240 BG	
1125.2	10
ES 35/K/ST BG	
2828.0	50

	Qty.
ISKS 8	
2773.0	1
PMC SB 6/50 WH	
4702.7	500

MAG...

Pick-off terminal
1 connection

Screw connection

	Qty.
MAG 50 BG	
1121.2	10
MAG 95 BG	
1123.2	10
MAG 150/240 BG	
1125.2	10

IEC
1000
57

10 | 22-8
6 | 3
A5 | V2

0.2-10 | 0.2-10
0.2-10 | 0.2-10
0.2-10
12
1.2-2.0 |Slotted M4

PA 6.6 | -40 to +105°C
- | -

	Qty.

SDB 0.8x4.0
1087.0 1

PMC SB 6/50 WH
4702.7 500

EP

Inlay plate

	Qty.
EP 50	
2274.0	10
EP 95	
2275.0	10
EP 150	
2277.0	10
EP 240	
2360.0	10

Terminal Blocks and Accessories

High-power stud terminals ***HSK***

Stud connection system	HSK 16/M5 B	HSK 35/M6 B	HSK 50/M8 B
	 M5	 M6	 M8
• Foot can be snapped on TS 35 DIN rail • Stud connection • Housing made from polyamide 6.6 UL 94-V0	○	○	○
	High-power terminal 1 connection	High-power terminal 1 connection	High-power terminal 1 connection

Connection type	**Stud connection**			**Stud connection**			**Stud connection**		
Size (L x W x H) with TS 35 x 7.5 mm	67 x 13 x 55.5			67 x 16 x 55.5			67 x 21 x 63.5		
Size (L x W x H) with TS 35 x 7.5 mm with TW/AH	67 x 13 x 58			67 x 16 x 58			67 x 21 x 66		
Type			**Qty.**			**Qty.**			**Qty.**
Type/colour	HSK 16/M5 B BG			HSK 35/M6 B BG			HSK 50/M8 B BG		
Cat. no.	**17000.2**		10	**17001.2**		10	**17002.2**		10
Colours available	(2)			(2)			(2)		
Rated specifications acc. to	**IEC**	**CSAus**	**CSA**	**IEC**	**CSAus**	**CSA**	**IEC**	**CSAus**	**CSA**
Rated voltage, V	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated current, A	76	60	60	125	115	115	150	125	125
Rated cross-section mm²/AWG	16 | 10-0			35 | 14-2			50 | 14-1/0		
Rated surge voltage kV / Contamination degree	8 | 3			8 | 3			8 | 3		
Plug gauge acc. to EN 60947-1/flamm. class UL 94	- | V0			- | V0			- | V0		
Connection data									
Contact wire range, mm²	≤ 16			≤ 35			≤ 50		
Stud size	M5			M6			M8		
Clampable cable lug									
DIN 46234/1 cable lug per side mm	0.1 - 16			2.5 - 35			2.5 - 50		
DIN 46234/2 cable lugs per side mm	0.1 - 16			2.5 - 35			2.5 - 50		
DIN 46235/1 cable lug per side mm	6.0 - 10			6.0 - 35			6.0 - 35		
DIN 46235/2 cable lugs per side mm	6.0 - 10			6.0 - 25			6.0 - 35		
Torque, Nm	2.0 - 4.0		8.5	3.0 - 6.0		12.4	6.0 - 12		16.9
Features									
Material of insulated housing | Temperature range	PA 6.6 | -40 to +120°C			PA 6.6 | -40 to +120°C			PA 6.6 | -40 to +120°C		
Number of cross-connection channels | Test pick-off	1 | -			1 | -			1 | -		
Accessories			**Qty.**			**Qty.**			**Qty.**
Partition plate TW up to 1000 V **Cat. no.**	TW 16-120 BG **17018.2**		20	TW 16-120 BG **17018.2**		20	TW 16-120 BG **17018.2**		20
Partition plate TW up to 1000 V for insul. cable lugs **Cat. no.**									
AD cover profile **Cat. no.**	AD 16 YE **17019.8**		20	AD 35 YE **17020.8**		20	AD 50 YE **17021.8**		20
Cross-connector Q 2 poles **Cat. no.**	Q2/16 **17008.0**		10	Q2/35 **17010.0**		10	Q2/50 **17012.0**		10
Cross-connector Q 3 poles **Cat. no.**	Q3/16 **17009.0**		10	Q3/35 **17011.0**		10	Q3/50 **17013.0**		10
Cross-connector Q, from M6 to M8 2 poles **Cat. no.**				Q2 HSK 35/M6 - M8 **17028.2**			Q2 HSK 35/M6 - M8 **17028.2**		
Cross-connector Q, from M6 to M10 3 poles **Cat. no.**				Q3 HSK 35/M6 - M10/2 **17029.2**					
End stop ES **Cat. no.**	ES 35/K/ST BG **2828.0**		50	ES 35/K/ST BG **2828.0**		50	ES 35/K/ST BG **2828.0**		50
Quick marking PMC SB **Cat. no.**	PMC SB 6/50 WH **4702.7**		500	PMC SB 6/50 WH **4702.7**		500	PMC SB 6/50 WH **4702.7**		500

Further accessories can be found in the CONTA-CONNECT catalogue, or under www.conta-clip.com

HSK 120/M10 B	HSK 120/M12 B	HSK 35/M6 B/B	HSK 50/M8 B/B	HSK 120/M10 B/B
 M10	 M12	 M6	 M8	 M10
				
High-power terminal 1 connection	High-power terminal 1 connection	High-power terminal 2 connections	High-power terminal 2 connections	High-power terminal 2 connections
Stud connection	**Stud connection**	**Stud connection**	**Stud connection**	**Stud connection**
67 x 32 x 73.5	67 x 32 x 73.5	67 x 16 x 55.5	67 x 21 x 63.5	67 x 32 x 73.5
67 x 32 x 76	67 x 32 x 76	67 x 16 x 61.5	120 x 21 x 71.5	156 x 32 x 78.5
Qty.	**Qty.**	**Qty.**	**Qty.**	**Qty.**
HSK 120/M10 B BG **17003.2** 10	HSK 120/M12 B BG **17004.2** 10	HSK 35/M6 B/B BG **17005.2** 10	HSK 50/M8 B/B BG **17006.2** 10	HSK 120/M10 B/B BG **17007.2** 10
.2	.2	.2	.2	.2
IEC CSAus CSA	**IEC CSAus CSA**	**IEC CSAus CSA**	**IEC CSAus CSA**	**IEC CSAus CSA**
1000 1000 1000	1000 1000 1000	1000 1000 1000	1000 1000 1000	1000 1000 1000
269 220 220	269 220 220	125 120 120	150 130 130	269 225 225
120 | 10-Kcmil 250	120 | 10-Kcmil 250	35 | 14-2	50 | 14-1/0	120 | 10-Kcmil 250
8 | 3	8 | 3	8 | 3	8 | 3	8 | 3
- | V0	- | V0	- | V0	- | V0	- | V0
≤ 120	≤ 120	≤ 35	≤ 50	≤ 120
M10	M12	M6	M8	M10
6 - 120	6 - 120	2.5 - 35	2.5 - 50	6 - 120
6 - 120	6 - 120	2.5 - 35	2.5 - 50	6 - 120
10 - 95	10 - 95	6.0 - 25	6.0 - 35	10 - 95
10 - 95	10 - 95	6.0 - 25	6.0 - 35	10 - 95
10 - 20 20.0	14 - 31 20.0	3.0 - 6.0 12.4	6.0 - 12 16.9	10 - 20 20.9
PA 6.6 | -40 to +120°C	PA 6.6 | -40 to +120°C	PA 6.6 | -40 to +120°C	PA 6.6 | -40 to +120°C	PA 6.6 | -40 to +120°C
1 | -	1 | -	1 | -	1 | -	1 | -
Qty.	**Qty.**	**Qty.**	**Qty.**	**Qty.**
TW 35-120/B/B BG **17022.2** 20	TW 35-120/B/B BG **17022.2** 20	TW 35-120/B/B BG **17022.2** 20	TW 35-120/B/B BG **17022.2** 20	TW 35-120/B/B BG **17022.2** 20
TW 16-120 BG **17018.2** 20	TW 16-120 BG **17018.2** 20			
AD 120 YE **17026.8** 20	AD 120 YE **17026.8** 20	AD 35 YE **17020.8** 20	AD 50 YE **17021.8** 20	AD 120 YE **17026.8**/20 20
Q2/120/10 **17014.0** 10	Q2/120/10 **17016.0** 10	Q2/35 **17010.0** 10	Q2/50 **17012.0** 10	Q2/120/10 **17014.0**/10 10
Q3/120/10 **17015.0** 10	Q3/120/12 **17017.0** 10	Q3/35 **17011.0** 10	Q3/50 **17013.0** 10	Q3/120/10 **17015.0**/10 10
		Q2 HSK 35/M6 - M8 **17028.2** 1	Q2 HSK 35/M6 - M8 **17028.2** 1	
Q3 HSK 35/M6 - M10/2 **17029.2**		Q3 HSK 35/M6 - M10/2 **17029.2** 1		Q3 HSK 35/M6 - M10/2 **17029.2** 1
ES 35/K/ST BG **2828.0** 50	ES 35/K/ST BG **2828.0** 50	ES 35/K/ST BG **2828.0** 50	ES 35/K/ST BG **2828.0** 50	ES 35/K/ST BG **2828.0** 50
PMC SB 6/50 WH **4702.7** 500	PMC SB 6/50 WH **4702.7** 500	PMC SB 6/50 WH **4702.7** 500	PMC SB 6/50 WH **4702.7** 500	PMC SB 6/50 WH **4702.7** 500

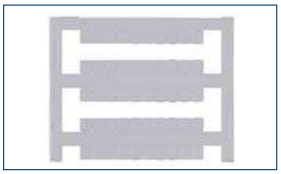
Terminal Blocks and Accessories

*Terminal markers – Pocket-Maxicard **PMC SB***

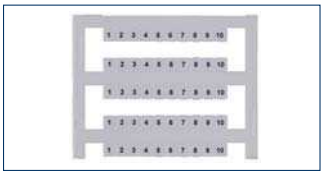
Pocket-Maxicard PMC SB 6

The **PMC SB 6** Pocket-Maxicard is suitable for labelling all **CONTA-CLIP** terminal blocks that are wider than 6 mm.
They are available in a variety of pre-printed standard markers, in a blank version, or custom printed to any requirement.
The blank Pocket-Maxicards can easily be printed on using the **EMS-2** plotter system. (CONTA-CONNECT catalogue, page 408)
Material: Polyamide 6.6 UL 94-V2, halogen-free

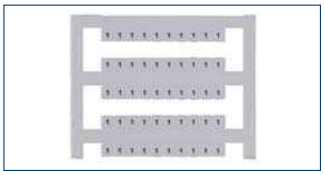
PMC SB 6 WH



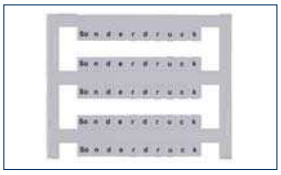
PMC SB 6 FW



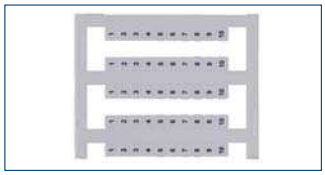
PMC SB 6 GW



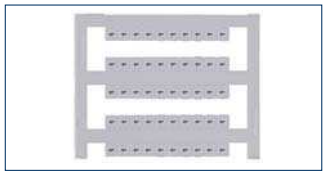
PMC SB 6 So WH



PMC SB 6 FS



PMC SB 6 GS



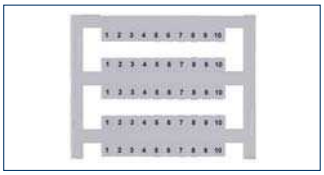
Type		Qty.
Type/colour		PMC SB 6/50 WH
Cat. no.		**4702.7** 500
Type/colour	Special print	PMC SB 6/50 So WH
Cat. no.		**4811.7** 500
Colours available		⑦

Characteristics	
Dimensions	
Length x width, mm	5 x 6
Number of markers per row	10
Number of markers per card	50
Material	
Material	PA6.6, halogen-free
Temperature range	-40 °C to +120°C
Flamm. class acc. to UL 94	V2
Inscription	
Printing process	Thermal transfer
Marker pen	BS-1
Number of characters | lines when using font size 1.6 and plotter pen 0.25: horizontal	3|2
Number of characters | lines when using font size 1.6 and plotter pen 0.25: vertical	3|2
Application	
Terminal width, mm	≥ 6

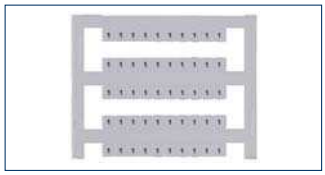
PMC SB 6/...WH Pre-printed as shown Type	Cat. no.
PMC SB 6/50 FW 1-10	**4703.7**
PMC SB 6/50 FW 11-20	**4704.7**
PMC SB 6/50 FW 21-30	**4705.7**
PMC SB 6/50 FW 31-40	**4706.7**
PMC SB 6/50 FW 41-50	**4707.7**
PMC SB 6/50 FW 51-60	**4708.7**
PMC SB 6/50 FW 61-70	**4709.7**
PMC SB 6/50 FW 71-80	**4710.7**
PMC SB 6/50 FW 81-90	**4711.7**
PMC SB 6/50 FW 91-100	**4712.7**
PMC SB 6/50 FW 101-110	**9212.7**
PMC SB 6/50 FW 111-120	**9213.7**
PMC SB 6/50 FW 121-130	**9214.7**
PMC SB 6/50 FW 131-140	**9215.7**
PMC SB 6/50 FW 141-150	**9216.7**
PMC SB 6/50 FW 151-160	**9217.7**
PMC SB 6/50 FW 161-170	**9218.7**
PMC SB 6/50 FW 171-180	**9219.7**
PMC SB 6/50 FW 181-190	**9220.7**
PMC SB 6/50 FW 191-200	**9221.7**
PMC SB 6/50 FW 201-210	**9222.7**
PMC SB 6/50 FW 211-220	**9223.7**
PMC SB 6/50 FW 221-230	**9224.7**
PMC SB 6/50 FW 231-240	**9225.7**
PMC SB 6/50 FW 241-250	**9226.7**
PMC SB 6/50 FW 251-260	**9227.7**
PMC SB 6/50 FW 261-270	**9228.7**
PMC SB 6/50 FW 271-280	**9229.7**
PMC SB 6/50 FW 281-290	**9230.7**
PMC SB 6/50 FW 291-300	**9231.7**
PMC SB 6/50 FW 301-310	**9232.7**
PMC SB 6/50 FW 311-320	**9233.7**
PMC SB 6/50 FW 321-330	**9234.7**
PMC SB 6/50 FW 331-340	**9235.7**
PMC SB 6/50 FW 341-350	**9236.7**
PMC SB 6/50 FW 351-360	**9237.7**
PMC SB 6/50 FW 361-370	**9238.7**
PMC SB 6/50 FW 371-380	**9239.7**
PMC SB 6/50 FW 381-390	**9240.7**
PMC SB 6/50 FW 391-400	**9241.7**
PMC SB 6/50 FW 401-410	**9242.7**
PMC SB 6/50 FW 411-420	**9243.7**
PMC SB 6/50 FW 421-430	**9244.7**
PMC SB 6/50 FW 431-440	**9245.7**
PMC SB 6/50 FW 441-450	**9246.7**
PMC SB 6/50 FW 451-460	**9247.7**
PMC SB 6/50 FW 461-470	**9248.7**
PMC SB 6/50 FW 471-480	**9249.7**
PMC SB 6/50 FW 481-490	**9250.7**
PMC SB 6/50 FW 491-500	**9251.7**
PMC SB 6/50 FW 501-510	**9252.7**
PMC SB 6/50 FW 511-520	**9253.7**
PMC SB 6/50 FW 521-530	**9254.7**
PMC SB 6/50 FW 531-540	**9255.7**
PMC SB 6/50 FW 541-550	**9256.7**
PMC SB 6/50 FW 551-560	**9257.7**

PMC SB 6/...WH Pre-printed as shown Type	Cat. no.
PMC SB 6/50 FW 561-570	**9258.7**
PMC SB 6/50 FW 571-580	**9259.7**
PMC SB 6/50 FW 581-590	**9260.7**
PMC SB 6/50 FW 591-600	**9261.7**
PMC SB 6/50 FW 1-50	**4713.7**
PMC SB 6/50 FW 51-100	**4714.7**
PMC SB 6/50 FW 101-150	**4715.7**
PMC SB 6/50 FW 151-200	**4716.7**
PMC SB 6/50 FW 201-250	**4717.7**
PMC SB 6/50 FW 251-300	**4718.7**
PMC SB 6/50 FW 301-350	**4719.7**
PMC SB 6/50 FW 351-400	**4720.7**
PMC SB 6/50 FW 401-450	**4721.7**
PMC SB 6/50 FW 451-500	**4722.7**
PMC SB 6/50 FW 501-550	**4723.7**
PMC SB 6/50 FW 551-600	**4724.7**
PMC SB 6/50 FW 601-650	**4725.7**
PMC SB 6/50 FW 651-700	**4726.7**
PMC SB 6/50 FW 701-750	**4727.7**
PMC SB 6/50 FW 751-800	**4728.7**
PMC SB 6/50 FW 801-850	**4729.7**
PMC SB 6/50 FW 851-900	**4730.7**
PMC SB 6/50 FW 901-950	**4731.7**
PMC SB 6/50 FW 2,4,6-20	**4809.7**
PMC SB 6/50 FW 1,3,5-19	**4810.7**
PMC SB 6/50 FW L1,L2,L3,N,PE	**4732.7**
PMC SB 6/50 FW U1,V1,W1,N,PE	**4733.7**
PMC SB 6/50 FW U1,V1,W1	**4734.7**
PMC SB 6/50 FW U2,V2,W2,N,PE	**4735.7**
PMC SB 6/50 FW U2,V2,W2	**4736.7**
PMC SB 6/50 FW X1-X10	**4737.7**
PMC SB 6/50 FW 1+ -10+ WH	**9328.7**
PMC SB 6/50 FW 11+ -20+ WH	**9329.7**
PMC SB 6/50 FW 1- -10- WH	**9330.7**
PMC SB 6/50 FW 11- -20- WH	**9331.7**
PMC SB 6/50 FS 1-10	**4738.7**
PMC SB 6/50 FS 11-20	**4739.7**
PMC SB 6/50 FS 21-30	**4740.7**
PMC SB 6/50 FS 31-40	**4741.7**
PMC SB 6/50 FS 41-50	**4742.7**
PMC SB 6/50 FS 51-60	**4743.7**
PMC SB 6/50 FS 61-70	**4744.7**
PMC SB 6/50 FS 71-80	**4745.7**
PMC SB 6/50 FS 81-90	**4746.7**
PMC SB 6/50 FS 91-100	**4747.7**
PMC SB 6/50 FS 101-110	**9262.7**
PMC SB 6/50 FS 111-120	**9263.7**
PMC SB 6/50 FS 121-130	**9264.7**
PMC SB 6/50 FS 131-140	**9265.7**
PMC SB 6/50 FS 141-150	**9266.7**
PMC SB 6/50 FS 151-160	**9267.7**
PMC SB 6/50 FS 161-170	**9268.7**
PMC SB 6/50 FS 171-180	**9269.7**
PMC SB 6/50 FS 181-190	**9270.7**
PMC SB 6/50 FS 191-200	**9271.7**
PMC SB 6/50 FS 201-210	**9272.7**

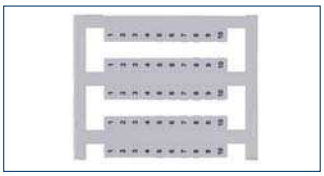
PMC SB 6 FW



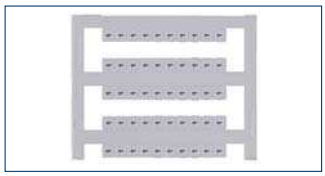
PMC SB 6 GW



PMC SB 6 FS



PMC SB 6 GS



PMC SB 6/...WH Pre-printed as shown Type*1	Cat. no.
PMC SB 6/50 FS 221-230	9274.7
PMC SB 6/50 FS 231-240	9275.7
PMC SB 6/50 FS 241-250	9276.7
PMC SB 6/50 FS 251-260	9277.7
PMC SB 6/50 FS 261-270	9278.7
PMC SB 6/50 FS 271-280	9279.7
PMC SB 6/50 FS 281-290	9280.7
PMC SB 6/50 FS 291-300	9281.7
PMC SB 6/50 FS 1-50	4748.7
PMC SB 6/50 FS 51-100	4749.7
PMC SB 6/50 FS 101-150	4750.7
PMC SB 6/50 FS 151-200	4751.7
PMC SB 6/50 FS 201-250	4752.7
PMC SB 6/50 FS 251-300	4753.7
PMC SB 6/50 FS 301-350	4754.7
PMC SB 6/50 FS 351-400	4755.7
PMC SB 6/50 FS 401-450	4756.7
PMC SB 6/50 FS 451-500	4757.7
PMC SB 6/50 FS 501-550	4758.7
PMC SB 6/50 FS 551-600	4759.7
PMC SB 6/50 FS 601-650	4760.7
PMC SB 6/50 FS 651-700	4761.7
PMC SB 6/50 FS 701-750	4762.7
PMC SB 6/50 FS 751-800	4763.7
PMC SB 6/50 FS 801-850	4764.7
PMC SB 6/50 FS 851-900	4765.7
PMC SB 6/50 FS 2,4,6-20	4807.7
PMC SB 6/50 FS 1,3,5-19	4808.7
PMC SB 6/50 FS L1,L2,L3,N,PE	4766.7
PMC SB 6/50 FS U1,V1,W1,N,PE	4767.7
PMC SB 6/50 FS U1,V1,W1	4768.7
PMC SB 6/50 FS U2,V2,W2,N,PE	4769.7
PMC SB 6/50 FS U2,V2,W2	4770.7
PMC SB 6/50 FS X1-X10	4771.7
PMC SB 6/50 GW 1	4772.7
PMC SB 6/50 GW 2	4773.7
PMC SB 6/50 GW 3	4774.7
PMC SB 4/50 GW 5	4775.7
PMC SB 6/50 GW 5	4776.7
PMC SB 6/50 GW 6	4777.7
PMC SB 6/50 GW 7	4778.7
PMC SB 6/50 GW 8	4779.7
PMC SB 6/50 GW 9	4780.7
PMC SB 6/50 GW 0	4781.7
PMC SB 6/50 GW X	4782.7
PMC SB 6/50 GW PE	4783.7
PMC SB 6/50 GW L1	4784.7
PMC SB 6/50 GW L2	4785.7
PMC SB 6/50 GW L3	4786.7
PMC SB 6/50 GW N	4787.7
PMC SB 6/50 GW -	4805.7
PMC SB 6/50 GW +	4806.7

PMC SB 6/...WH Pre-printed as shown Type*1	Cat. no.
PMC SB 6/50 GS 1	4788.7
PMC SB 6/50 GS 2	4789.7
PMC SB 6/50 GS 3	4790.7
PMC SB 6/50 GS 4	4791.7
PMC SB 6/50 GS 5	4792.7
PMC SB 6/50 GS 6	4793.7
PMC SB 6/50 GS 7	4794.7
PMC SB 6/50 GS 8	4795.7
PMC SB 6/50 GS 9	4796.7
PMC SB 6/50 GS 0	4797.7
PMC SB 6/50 GS X	4798.7
PMC SB 6/50 GS PE	4799.7
PMC SB 6/50 GS L1	4800.7
PMC SB 6/50 GS L2	4801.7
PMC SB 6/50 GS L3	4802.7
PMC SB 6/50 GS N	4803.7
PMC SB 6/50 GS -	4804.7

CONTA-PROTECT Overvoltage Protection

Overvoltage arresters for AC use Type 1|2|3 (B|C|D)

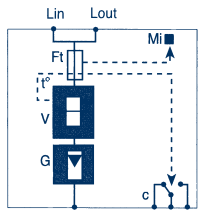
- Combination arrester Type 1|2|3 based on a gas filled spark gap
- Iimp: 25 kA (Waveform 10/350 µs)
- Does not generate (mains) secondary current
- Saves energy costs
- Protects the environment
- Meets the special demands for use in front of the meter
- Energetically coordinated
- Remote signalling
- Complies with IEC 61643-1 and EN61643-11 standards

- Mounts on TS 35
- Screw connection

V : High-energy varistor block
G : Gas filled spark gap
Ft : Thermal fuse
C : Remote signalling contact
t° : Thermal separator
MI : Error display

CP DS 250 VG

Circuit diagram



1-pole type **Cat. no./Qty.**		**CP DS 250 VG** **15617.2**	**Qty.** **1**	**Qty.**
Size (L x W x H) with TS 35 x 7.5		90 x 36 x 68.4 mm		
Weight		238 g		
Arrester | Class **Technical data**		**Type 1|2|3 class B|C|D**		
Rated voltage	Un	230/400V		
Max. continuous voltage	Uc	255 V AC		
Rated frequency	fn	DC - 100 Hz		
Lightning surge current (10/350) µs	Iimp	25 kA		
Nominal discharge surge current	Imax	70 kA		
Max. discharge current (8/20) µs	In	30 kA		
Combined pulse	Uoc	20 kV		
Protection level	Up	< 1.5 kV		
Residual voltage	Ures	< 0.8 kV		
Operating current	I_c	None		
Follow-on current	If	none		
Follow-on current suppression capability	Ifi	infinite		
Response time	t_A	< 20 ns		
TOV voltage L-N	U_T	450 V / 5 s		
TOV voltage N-PE	U_T	1200 V/300 A (200 ms)		
TOV voltage L-PE	U_T	1454 V/300 A (200 ms)		
Short-circuit resistance rating	I_p	25 kA		
Max. series fuse		315 A (gl/gG)		
Error display		Mechanical, red		
Temperature range		-40 to +85°C		
Connection cross-section		6 - 50 mm²		
Protection		IP20		
Rail assembly		TS 35 acc. to EN 60715		
Installation dimensions, TE		2 TE, DIN 43880		
Housing material		Thermo plastic PEI UL-94-5VA		

Testing standards				
DIN EN 61643-11	In Germany	Combi-arrester type 1, 2, 3		
IEC 61643-1	International	Low voltage SPD - Class I, II and III test		
EN 61643-11	Europe	Low voltage SPD - Class I, II and III test		
UL1449 ed.2	USA	Low voltage TVSS		
Type of network				
		TNC, TNS		
Remote signalling				
Remote signalling		Potential-free CO contact		
Switching capacity		250 V / 0.5 A (AC) | 125 V/ 0.25 A (DC)		
Connection cross-section		max. 1.5 mm² single or stranded wire		
Accessories			**Qty.**	**Qty.**
Earth bridges, CP E	4 poles	CP 250 E-4		
Cat. no./Qty.		**15616.2**	1	

CONTA-PROTECT Overvoltage Protection

Overvoltage arresters for AC use Type 2 (C)

- Type 2 Overvoltage protection
- Discharge capacity In = 20 kA; Imax= 40 kA
- Pluggable protective elements
- Remote signalling (optional)
- Complies with IEC 61643-1 and EN61643-11

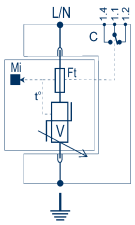
- Mounts on TS 35
- Screw connection

V : High-power varistor
Ft : Thermal fuse
C : Remote signalling contact
t° : Thermal separator
MI : disconnect display

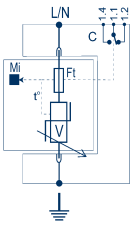
CP V 40-1

CP VH 40-1

Circuit diagram



Circuit diagram



1-pole type		**CP V 40-1**	**CP VH 40-1**
Cat. no./Qty.		**16002.2 / 1**	**16003.2 / 1**
Size (L x W x H) with TS 35 x 7.5		90 x 18 x 70 mm	100.6 x 18 x 70 mm
Weight		100 g	108 g
		Type 2 | class C	**Type 2 | class C**
Rated voltage	Un	230/400 V AC	230/400 V AC
Max. continuous voltage	Uc	280 V AC	280 V AC
Rated frequency	fn	50-60 Hz	50-60 Hz
Rated discharge surge current (8/20) µs	Imax	20 kA	20 kA
Max. discharge current (8/20) µs	In	40 kA	40 kA
Protection level	Up	< 1.25 kV	< 1.25 kV
Residual voltage (5 kA)	Ures	< 0.5 kV	< 0.5 kV
Operating current	I_c	< 1 mA	< 1 mA
Follow-on current	If	none	none
Follow-on current suppression capability	Ifi	infinite	infinite
Response time	t_A	< 25 ns	< 25 ns
TOV voltage L-N	U_T	340 V / 5 s	340 V / 5 s
TOV voltage N-PE	U_T	-	-
Short-circuit resistance rating	I_p	25 kA	25 kA
Max. series fuse		125 A gL	125 A gL
Malfunction display		Mechanical, red	Mechanical, red
Temperature range		-40 to +85°C	-40 to +85°C
Connection cross-section	mm²	4-25	4-25
Protection		IP 20	IP 20
Rail assembly		TS 35 acc. to EN 60715	TS 35 acc. to EN 60715
Installation dimensions, TE		1 TE, DIN 43880	1 TE, DIN 43880
Housing material		Thermoplastic UL94-V0	Thermoplastic UL94-V0
Testing standards			
DIN EN 61643-11	In Germany	Arrester type 2	Arrester type 2
IEC 61643-1	International	Low voltage SPD - Class II test	Low voltage SPD - Class II test
EN 61643-11	Europe	Low voltage SPD - Class II test	Low voltage SPD - Class II test
UL1449 ed.2	USA	Low voltage TVSS	Low voltage TVSS
Type of network			
		TNC, TNS	TNC, TNS
Remote signalling			
Remote signalling		-	Potential-free CO contact
Switching capacity		-	250 V / 0.5 A (AC) | 30V/ 2A (DC)
Connection cross-section		-	max. 1.5 mm² single stranded wire
Accessories		**Qty.**	**Qty.**
Replacement plug, L-N		CP V 40-S	CP V 40-S
Cat. no./Qty.	2 poles	**16007.2** 1	**16007.2** 1
Earth bridges, CP E		CP E-2	CP E-2
Cat. no./Qty.	3 poles	**6865.0** 1	**6865.0** 1
Earth bridges, CP E		CP E-3	CP E-3
Cat. no./Qty.	4 poles	**6866.0** 1	**6866.0** 1
Earth bridges CP E		CP E-4	CP E-4
Cat. no./Qty.		**6867.0** 1	**6867.0** 1

CONTA-PROTECT Overvoltage Protection

Overvoltage arresters for DC use Type 2 (C)

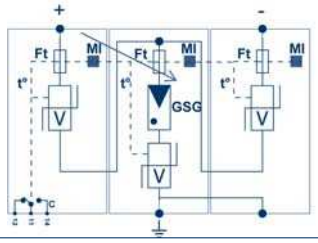
- Type 2 Overvoltage protection for photovoltaic
- Discharge capacity per pole: In = 20 kA; Imax= 40 kA
- No aging due to leakage current
- Error resistant star (“Y”) connection
- reverse-connect protected connectors
- Not influenced by insulation measurement
- No damage in the event of insulation failure
- Pluggable protective elements
- Remote signalling
- Complies with IEC 61643-1 and EN61643-11 standards

- Mounts on TS 35
- Screw connection

GSG : Gas filled spark gap
V : High-energy varistor block
Ft : Thermal fuse
C : Remote signalling contact
t° : Thermal separator
MI : Error display

CP VH 50 PV-1000/G

Circuit diagram



1-pole type **Cat. no./Qty.**		**CP VH 50 PV-1000/G** **16043.2**	**Qty.** **1**	**Qty.**
Size (L x W x H) with TS 35 x 7.5		99 x 54 x 68.4 mm		
Weight				
Arrester | Class **Technical data**				
Rated voltage (Uocstc)	Un DC	1000 V		
Max. continuous voltage (Ucpv)	Uc DC	1060 V		
Rated discharge surge current (8/20) µs	Imax	40 kA		
Max. discharge current (8/20) µs	In	20 kA		
Protection level	U_p	< 3.6 kV		
Protection level at 5 kA	U_T	2.6 kV		
Protection level at 12.5 kA	U_p	< 3.1 kV		
Protection level at 20 kA	U_p	< 3.6 kV		
Protection level at Imax	U_p	< 4.5 kV		
Leakage current	I_c	None		
Follow-on current	If	none		
Follow-on current suppression capability	Ifi	infinite		
Response time	t_A	< 25 ns		
Short circuit resistance	I_p	25 kA		
Max. series fuse		160 A gL		
Malfunction display		Mechanical, red		
Temperature range		-40 to +85°C		
Connection cross-section		4 - 25mm^2		
Protection		IP20		
Rail assembly		TS 35 acc. to EN 60715		
Installation dimensions, TE		3 TE, DIN 43880		
Housing material		Thermoplastic UL94-V0		
Testing standards				
DIN EN 61643-11	In Germany	Arrester type 2		
IEC 61643-1	International	Low voltage SPD - Class II test		
EN 61643-11	Europe	Low voltage SPD - Class II test		
UL1449 ed.2	USA	Low voltage TVSS		
Type of network				
		-		
Remote signalling				
Remote signalling		Potential-free CO contact		
Switching capacity		250 V / 0.5 A (AC) - 30 V / 2 A (DC)		
Connection cross-section		max. 1.5 mm^2 single or stranded wire		
Accessories			**Qty.**	**Qty.**
Replacement plug V Cat. no./Qty.		CP 50 PV-1000-S **16044.2**	 1	
Replacement plug G **Cat. no./Qty.**		CP 50 PV-1000/G-S **16046.2**	 1	

CONTA-PROTECT Overvoltage Protection

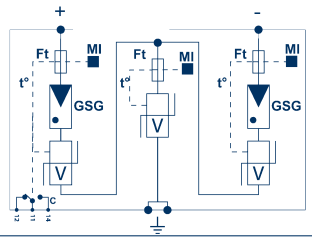
Overvoltage arresters for DC use Type 1|2 (B|C)

- Combination arrester Type 1 & 2 based on a gas filled spark gap
- Double safe separator
- Electrical isolation
- No aging due to operating voltage or leakage current
- Error resistant star ("Y") connection
- Fuse free operation
- Remote signalling
- Complies with IEC 61643-1 and EN61643-11 standards
- Complies with the VDE 0183-305 Part 3, Sect 5 standard, lightning protection for Photovoltaic systems
- Mounts on TS 35
- Screw connection

GSG : Gas filled spark gap
V : High-energy varistor block
Ft : Thermal fuse
C : Remote signalling contact
t° : Thermal separator
MI : Error display

CP VH 60 VGPV-1000

Circuit diagram



1-pole type **Cat. no./Qty.**		**CP VH 60 VGPV-1000** **16045.2**	**Qty.** **1**	**Qty.**
Size (L x W x H) with TS 35 x 7.5		99 x 72 x 75 mm		
Weight				
Arrester | Class **Technical data**		**Type 1|2 | class B|C**		
Rated voltage (Uocstc)	Un DC	1000 V		
Max. continuous voltage (Ucpv)	Uc DC	1200 V		
Rated discharge surge current (8/20) µs	Imax	40 kA		
Max. discharge current (8/20) µs	In	20 kA		
Lightning surge current (10/350) µs	Iimp	12.5 kA		
Protection level	U_p	< 2.8 kV		
Protection level at 5 kA	U_p	< 2.3 kV		
Operating current	I_B	None		
Leakage current	I_c	None		
Follow-on current	If	none		
Follow-on current suppression capability	Ifi	infinite		
Response time	t_A	< 25 ns		
Short circuit resistance	I_p	25 kA		
Malfunction display		Mechanical, red		
Temperature range		-40 to +85°C		
Connection cross-section	mm²	4- 35		
Protection		IP20		
Rail assembly		TS 35 acc. to EN 60715		
Installation dimensions, TE		4 TE, DIN 43880		
Housing material		Thermoplastic UL94-V0		
Testing standards				
DIN EN 61643-11	In Germany	Arrester type 1 & 2		
IEC 61643-1	International	Low voltage SPD - Class I and II test		
EN 61643-11	Europe	Low voltage SPD - Class I and II test		
UL1449 ed.2	USA	Low voltage TVSS		
Type of network				
		-		
Remote signalling				
Remote signalling		Potential-free CO contact		
Switching capacity		250 V / 0.5 A (AC) - 125 V / 3 A (DC)		
Connection cross-section		max. 1.5 mm² single or stranded wire		
			Qty.	**Qty.**

CONTA-BOX Housing-Systems

CONTA-CLIP offers a wide range of polycarbonate housings of different sizes for the protection of electronic circuitry, devices or terminals.

Polycarbonate

Material:	Polycarbonate
Protection:	IP 66
Toxicity characteristics:	halogen-free/cadmium-free
Thermal stability:	-35°C to +120°C
Flammability:	UL 94-V2
Chemical resistance:	good
Sea water resistance:	very good
UV resistance:	good

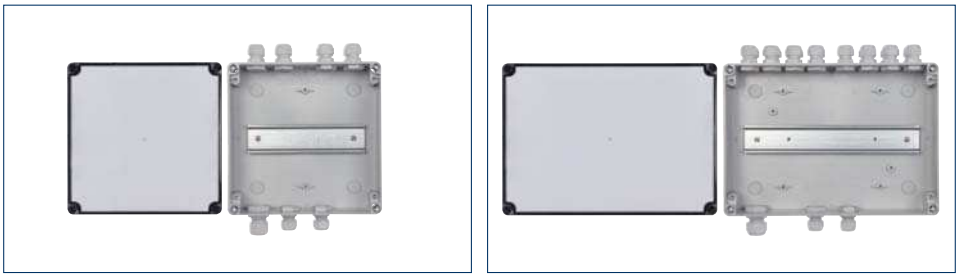
Upon request, the housings are manufactured according to customer specifications and supplemented with products from **CONTA-CONNECT** (Electrical connectors) or **CONTA-CON** (PCB Connector) product lines, which are then installed on mounting plates or DIN rails.

During the manufacture of the housings, we can carry out cuttings (milling), feed-through bore holes, thread connection bore holes or painting. Cable glands or external joints can also be attached when needed.

Our consistent high level of quality is ensured by our selection of the finest materials and our continuous quality management control system.

Polycarbonate housings with a transparent lid / Empty string housings

- String housings for 4 or 8 parallel connected strings
- Polycarbonate housings with a transparent lid
- Protection: IP66
- Cable glands included

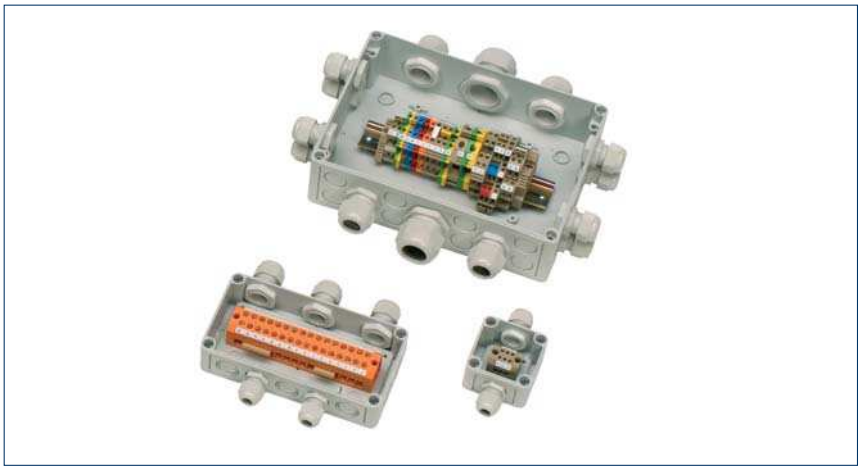
	PVS-4	PVS-8
		
	Empty string housing for 4 strings	Empty string housing for 8 strings
Connection type		
Size (L x W x H) mm PVS-4 (without cable glands)	182 x 180 x 90	
Size (L x W x H) mm PVS-8 (without cable glands)		254 x 180 x 90
Type	**Qty.**	**Qty.**
Type	PVS-4	PVS-8
Cat. no.	**17317.0** 1	**17318.0** 1
Technical data		
Number of strings	4	8
Case Data		
Material	Polycarbonate glass fibre reinforced	Polycarbonate glass fibre reinforced
Degree of protection	IP66	IP66
Flamm. class acc. to UL 94	V2	V2
Temperature range	-35°C to +80°C	-35°C to +80°C
Impact resistance	IK08 DIN EN 5012	IK08 DIN EN 5012
Cable glands PVS-4 | PVS-8	10 x M16 - 1 x M20	18 x M16 - 1 x M20

CONTA-BOX Housing-Systems

Polycarbonate housings ***CK-PC***

Polycarbonate housing

Material: Glass-fibre reinforced polycarbonate
Protection: IP 66
Impact resistant
A comprehensive line of accessories
Metric knock-outs



Technical data

Material	Polycarbonate
Protection	IP66
Toxicity characteristics	halogen-free and cadmium-free
Flamm. class acc. to UL 94	V2
Thermal stability	-35°C to +120°C
Chemical resistance	good
Sea water resistance	very good
UV resistance	good
Colour	grey, similar to RAL 7035
Impact resistance	IK08 DIN EN 5012

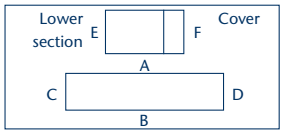
Outer dimensions			Dimension diagram	Polycarbonate cover, grey with metric knock-outs		Polycarbonate cover, transparent with metric knock-outs	
L	B	H	Page	Type	Cat. no.	Type	Cat. no.
65	50	35	27	CK-PC 75/35 MV	**4370.2**	CK-PC 75/35 MVT	**4371.2**
65	65	57	27	CK-PC 77/57 MV	**4372.2**	CK-PC 77/57 MVT	**4373.2**
65	65	81	27	CK-PC 77/81 MV	**4374.2**	CK-PC 77/81 MVT	**4375.2**
94	65	57	28	CK-PC 97/57 MV	**4376.2**	CK-PC 97/57 MVT	**4377.2**
94	65	81	28	CK-PC 97/81 MV	**4378.2**	CK-PC 97/81 MVT	**4379.2**
94	94	57	28	CK-PC 99/57 MV	**4380.2**	CK-PC 99/57 MVT	**4381.2**
94	94	81	28	CK-PC 99/81 MV	**4382.2**	CK-PC 99/81 MVT	**4383.2**
110	110	66	29	CK-PC 1111/66 MV	**4384.2**	CK-PC 1111/66 MVT	**4385.2**
110	110	90	29	CK-PC 1111/90 MV	**4386.2**	CK-PC 1111/90 MVT	**4387.2**
130	94	57	29	CK-PC 1309/57 MV	**4388.2**	CK-PC 1309/57 MVT	**4389.2**
130	94	81	29	CK-PC 1309/81MV	**4390.2**	CK-PC 1309/81MVT	**4391.2**
130	130	75	30	CK-PC 1313/75 MV	**4392.2**	CK-PC 1313/75 MVT	**4393.2**
130	130	99	30	CK-PC 1313/99 MV	**4394.2**	CK-PC 1313/99 MVT	**4395.2**
180	94	57	30	CK-PC 1809/57 MV	**4396.2**	CK-PC 1809/57 MVT	**4397.2**
180	94	81	30	CK-PC 1809/81 MV	**4398.2**	CK-PC 1809/81 MVT	**4399.2**
180	110	90	31	CK-PC 1811/90 MV	**4400.2**	CK-PC 1811/90 MVT	**4401.2**
180	110	111	31	CK-PC 1811/111 MV	**4402.2**	CK-PC 1811/111 MVT	**4403.2**
180	110	165	31	CK-PC 1811/165 MV	**4404.2**	CK-PC 1811/165 MVT	**4405.2**
182	180	90	31	CK-PC 1818/90 MV	**4406.2**	CK-PC 1818/90 MVT	**4407.2**
182	180	111	31	CK-PC 1818/111 MV	**4408.2**	CK-PC 1818/111 MVT	**4409.2**
182	180	165	31	CK-PC 1818/165 MV	**4410.2**	CK-PC 1818/165 MVT	**4411.2**
254	180	63	32	CK-PC 2518/63 MV	**4412.2**	CK-PC 2518/63 MVT	**4414.2**
254	180	84	32	CK-PC 2518/84 MV	**4416.2**	CK-PC 2518/84 MVT	**4418.2**
254	180	90	32	CK-PC 2518/90 MV	**4420.2**	CK-PC 2518/90 MVT	**4421.2**
254	180	111	32	CK-PC 2518/111 MV	**4422.2**	CK-PC 2518/111 MVT	**4423.2**
254	180	165	32	CK-PC 2518/165 MV	**4424.2**	CK-PC 2518/165 MVT	**4425.2**
361	254	111	33	CK-PC 3625/111 MV	**4428.2**	CK-PC 3625/111 MVT	**4429.2**
361	254	165	33	CK-PC 3625/165 MV	**4430.2**	CK-PC 3625/165 MVT	**4431.2**

Polycarbonate housing CK-PC 75/35

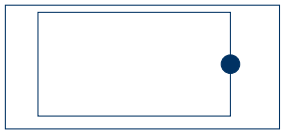
Outer dimensions, mm	65 x 50 x 35
Weight, g	75

Threaded drill hole options

Without knock-outs



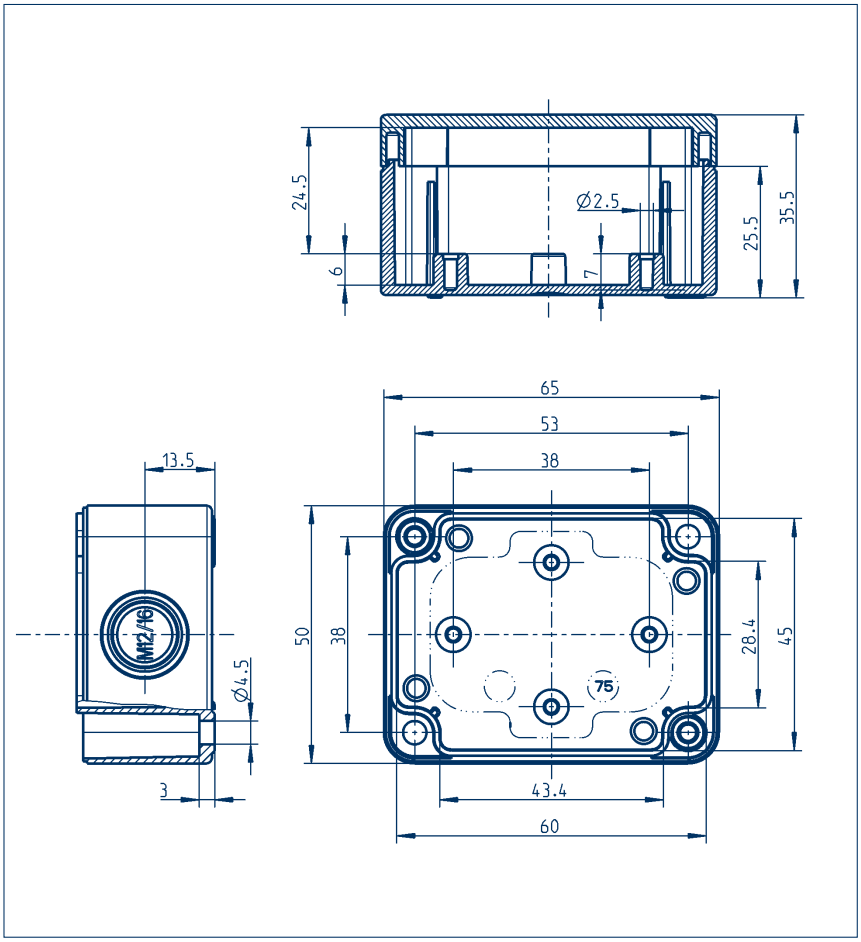
With metric knock-outs



M	A/B	C/D	Knock-outs	A/B	C/D
12	-	-	M16/20	-	-
16	-	-	-	-	-
20	-	-	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

Accessories		Qty.
DIN rail section TS 15 **Cat. no.**		
DIN rail section TS 35 **Cat. no.**		
Mounting plate MP **Cat. no.**		
Exterior mounting plate ABP **Cat. no.**	ABP /CK **4564.3**	1
External joints (pair) AG **Cat. no.**		

Dimension diagram

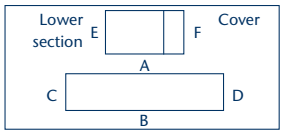


Polycarbonate housing CK-PC 77/57
Polycarbonate housing CK-PC 77/81

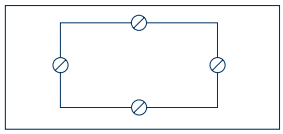
Outer dimensions, mm	65 x 65 x 57
Weight, g	85
Outer dimensions, mm	65 x 65 x 81
Weight, g	120

Threaded drill hole options

Without knock-outs



With metric knock-outs

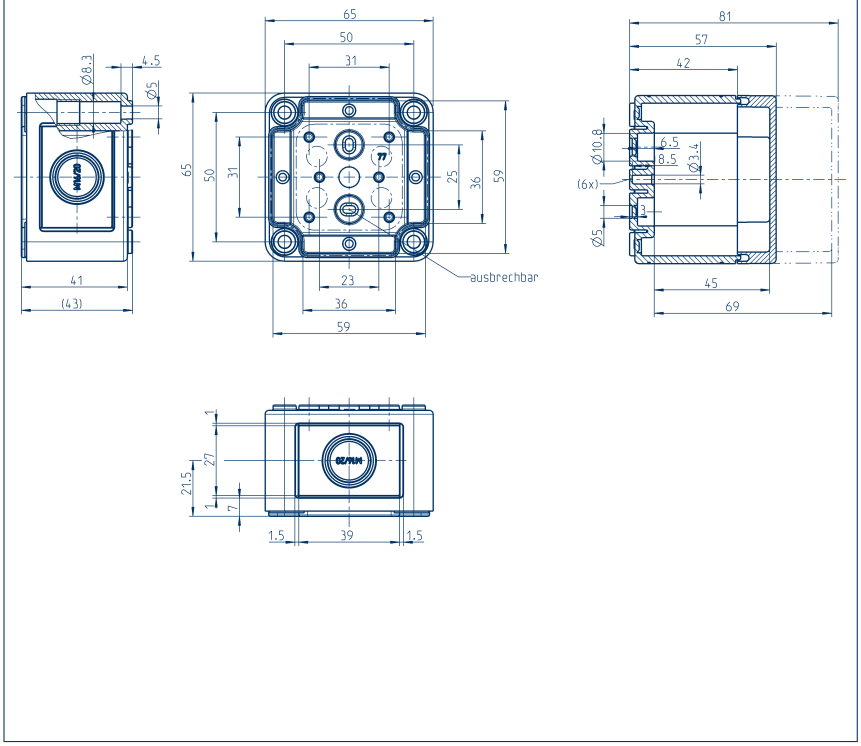


M	A/B	C/D	Knock-outs	A/B	C/D
12	-	-	M16/20	1	1
16	-	-	-	-	-
20	-	-	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

Accessories		Qty.
DIN rail section TS 15 **Cat. no.**	TS 15/49. 5 mm long **4559.0**	1
DIN rail section TS 35 **Cat. no.**		
Mounting plate MP **Cat. no.**	MP /CK 77 **4511.0**	1
Wall brackets WL **Cat. no.**	WL /CK **4512.1**	1
External joints (pair) AG **Cat. no.**	AG/CK 77-CK 1809 **4512.2**	1

Knock-outs: ● =M12/16 ⊘ =M16/20 ○ =M20
◎ =M20/25 ⊗ =M25/32 ◉ =M32/40

Dimension diagram



CONTA-BOX Housing-Systems

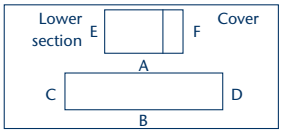
Polycarbonate housings ***CK-PC***

Polycarbonate housing CK-PC 97/57
Polycarbonate housing CK-PC 97/81

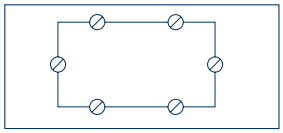
Outer dimensions, mm	94 x 65 x 57
Weight, g	120
Outer dimensions, mm	94 x 65 x 81
Weight, g	147

Threaded drill hole options

Without knock-outs



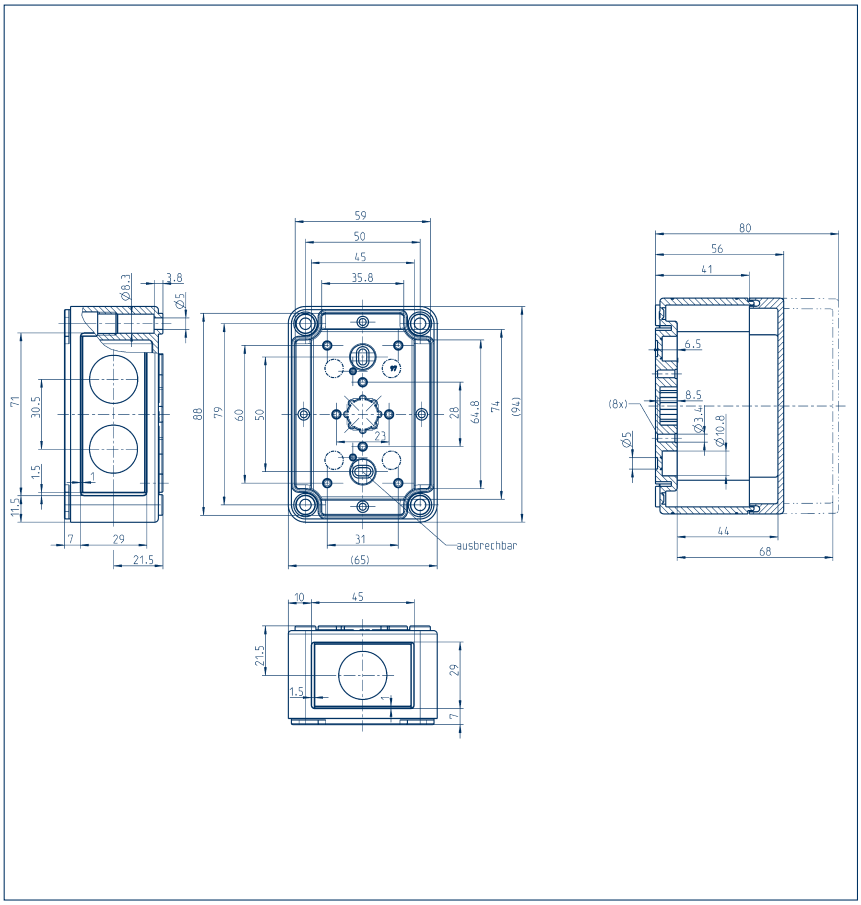
With metric knock-outs



M	A/B	C/D	Knock-outs	A/B	C/D
12	-	-	M16/20	2	1
16	-	-	-	-	-
20	-	-	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

Accessories		Qty.
DIN rail section TS 15	TS 15 / 80 mm long	
Cat. no.	**4559.1**	1
DIN rail section TS 35		
Cat. no.		
Mounting plate MP	MP /CK 97	
Cat. no.	**4511.1**	1
Wall brackets WL	WL /CK	
Cat. no.	**4512.1**	1
External joints (pair) AG	AG/CK 77-CK 1809	
Cat. no.	**4512.2**	1

Dimension diagram

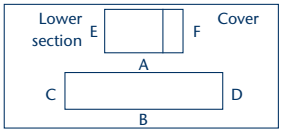


Polycarbonate housing CK-PC 99/57
Polycarbonate housing CK-PC 99/81

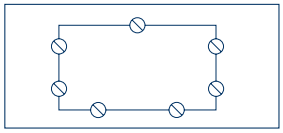
Outer dimensions, mm	94 x 94 x 57
Weight, g	127
Outer dimensions, mm	94 x 94 x 81
Weight, g	193

Threaded drill hole options

Without knock-outs



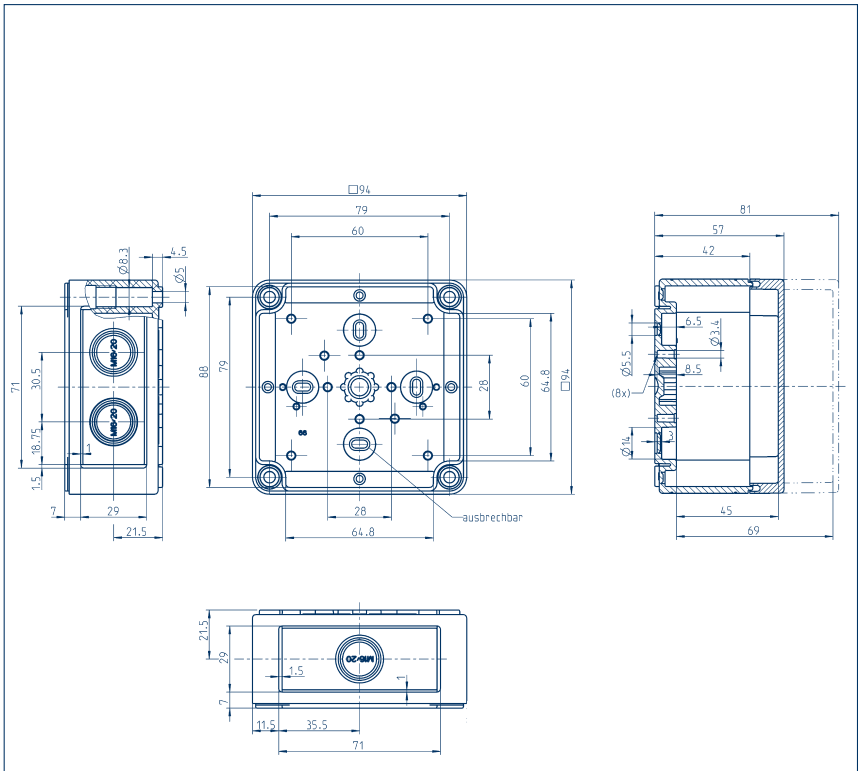
With metric knock-outs



M	A/B	C/D	Knock-outs	A	B/C/D
12	-	-	M16/20	1	2
16	-	-	-	-	-
20	-	-	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

Accessories		Qty.
DIN rail section TS 15	TS 15 / 80 mm long	
Cat. no.	**4559.1**	1
DIN rail section TS 35		
Cat. no.		
Mounting plate MP	MP /CK 99	
Cat. no.	**4511.2**	1
Wall brackets WL	WL /CK	
Cat. no.	**4512.1**	1
External joints (pair) AG	AG/CK 77-CK 1809	
Cat. no.	**4512.2**	1

Dimension diagram



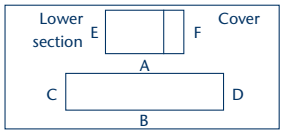
Knock-outs: ● =M12/16 ⊘ =M16/20 ○ =M20
◎ =M20/25 ⊗ =M25/32 ◉ =M32/40

Polycarbonate housing CK-PC 1111/66
Polycarbonate housing CK-PC 1111/90

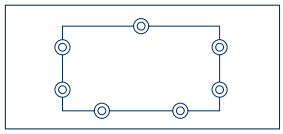
Outer dimensions, mm	110 x 110 x 66
Weight, g	181
Outer dimensions, mm	110 x 110 x 90
Weight, g	242

Threaded drill hole options

Without knock-outs



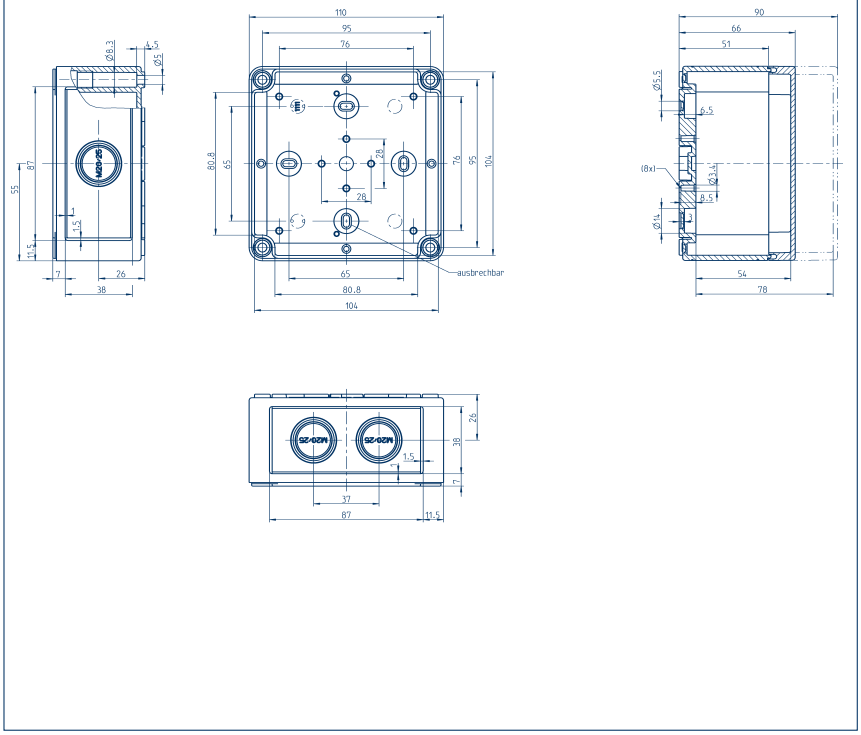
With metric knock-outs



M	A/B	C/D	Knock-outs	A	B/C/D
12	-	-	M20/25	1	2
16	-	-	-	-	-
20	-	-	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

Accessories		Qty.
DIN rail section TS 15 **Cat. no.**	TS 15 / 92 mm long **4559.2**	1
DIN rail section TS 35 **Cat. no.**	TS 35 / 81 mm long **4559.3**	1
Mounting plate MP **Cat. no.**	MP /CK 1111 **4511.3**	1
Wall brackets WL **Cat. no.**	WL /CK **4512.1**	1
External joints (pair) AG **Cat. no.**	AG/CK 77-CK 1809 **4512.2**	1

Dimension diagram

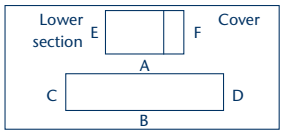


Polycarbonate housing CK-PC 1309/57
Polycarbonate housing CK-PC 1309/81

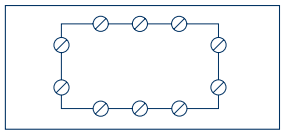
Outer dimensions, mm	130 x 94 x 57
Weight, g	153
Outer dimensions, mm	130 x 94 x 81
Weight, g	200

Threaded drill hole options

Without knock-outs



With metric knock-outs

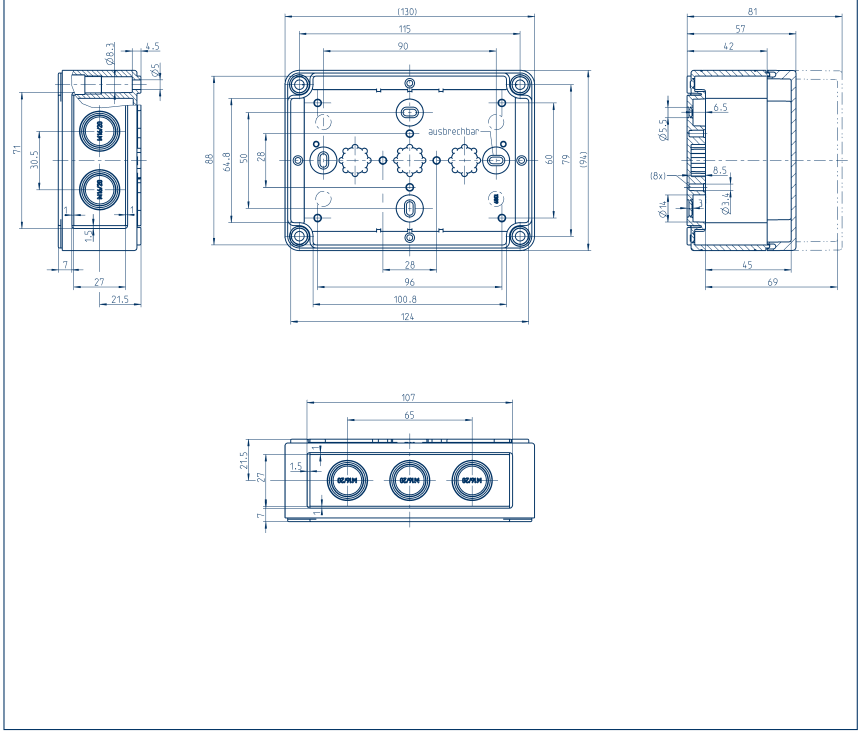


M	A/B	C/D	Knock-outs	A/B	C/D
12	-	-	M16/20	3	2
16	-	-	-	-	-
20	-	-	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

Accessories		Qty.
DIN rail section TS 15 **Cat. no.**	TS 15 / 111 mm long **4559.4**	1
DIN rail section TS 35 **Cat. no.**	TS 35/106 mm long **4559.5**	1
Mounting plate MP **Cat. no.**	MP /CK 1309 **4511.4**	1
Wall brackets WL **Cat. no.**	WL /CK **4512.1**	1
External joints (pair) AG **Cat. no.**	AG/CK 77-CK 1809 **4512.2**	1

Knock-outs: ● =M12/16 ⊘ =M16/20 ○ =M20
◎ =M20/25 ⊗ =M25/32 ◉ =M32/40

Dimension diagram



CONTA-BOX Housing-Systems

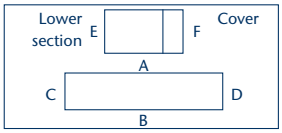
Polycarbonate housings ***CK-PC***

Polycarbonate housing CK-PC 1313/75
Polycarbonate housing CK-PC 1313/99

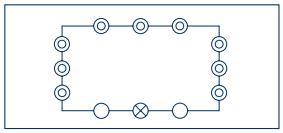
Outer dimensions, mm	130 x 130 x 75
Weight, g	243
Outer dimensions, mm	130 x 130 x 99
Weight, g	350

Threaded drill hole options

Without knock-outs



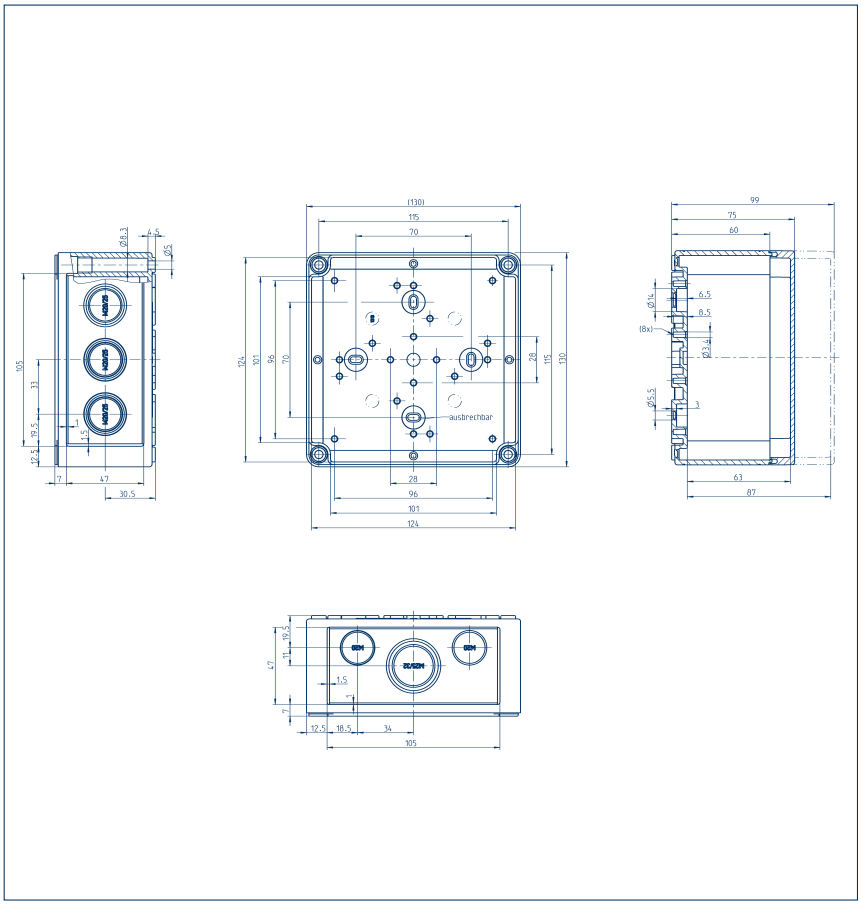
With metric knock-outs



M	A/B	C/D	Knock-outs	A/B	C/D
12	-	-	M20	2	-
16	-	-	M20/25	-	3
20	-	-	M25/32	1	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

Accessories		Qty.
DIN rail section TS 15	TS 15 / 111 mm long	
Cat. no.	**4559.4**	1
DIN rail section TS 35	TS 35 / 106 mm long	
Cat. no.	**4559.5**	1
Mounting plate MP	MP /CK 1313	
Cat. no.	**4511.5**	1
Wall brackets WL	WL /CK	
Cat. no.	**4512.1**	1
External joints (pair) AG	AG/CK 77-CK 1809	
Cat. no.	**4512.2**	1

Dimension diagram

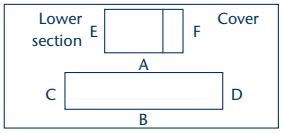


Polycarbonate housing CK-PC 1809/57
Polycarbonate housing CK-PC 1809/81

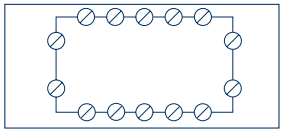
Outer dimensions, mm	180 x 94 x 57
Weight, g	212
Outer dimensions, mm	180 x 94 x 81
Weight, g	277

Threaded drill hole options

Without knock-outs



With metric knock-outs

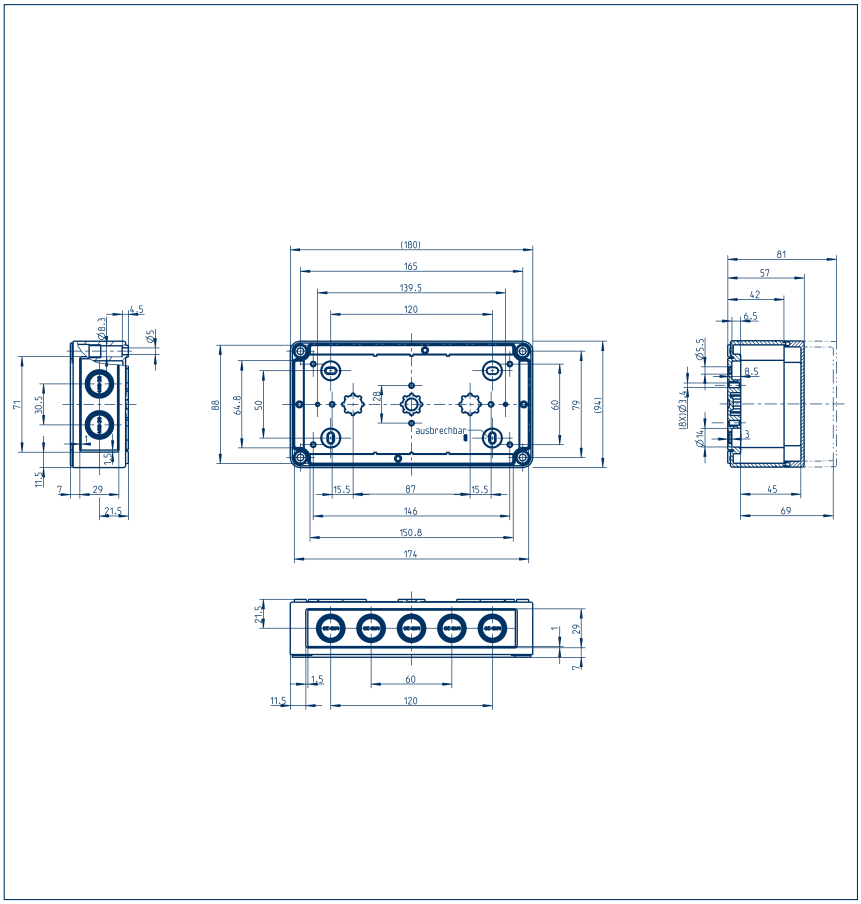


M	A/B	C/D	Knock-outs	A/B	C/D
12	-	-	M16/20	5	2
16	-	-	-	-	-
20	-	-	-	-	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

Accessories		Qty.
DIN rail section TS 15	TS 15 / 154 mm long	
Cat. no.	**4559.6**	1
DIN rail section TS 35	TS 35 / 144 mm long	
Cat. no.	**4507.4**	
Mounting plate MP	MP /CK 1809	
Cat. no.	**4511.6**	1
Wall brackets WL	WL /CK	
Cat. no.	**4512.1**	1
External joints (pair) AG	AG/CK 77-CK 1809	
Cat. no.	**4512.2**	1

Knock-outs: ● =M12/16 ⊘ =M16/20 ○ =M20
◎ =M20/25 ⊗ =M25/32 ◉ =M32/40

Dimension diagram

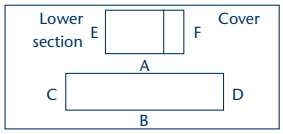


Polycarbonate housing CK-PC 1811/90
Polycarbonate housing CK-PC 1811/111
Polycarbonate housing CK-PC 1811/165

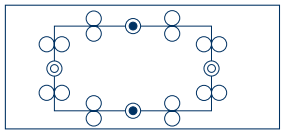
Outer dimensions, mm	180 x 110 x 90
Weight, g	344
Outer dimensions, mm	180 x 110 x 111
Weight, g	383
Outer dimensions, mm	180 x 110 x 165
Weight, g	513

Threaded drill hole options

Without knock-outs



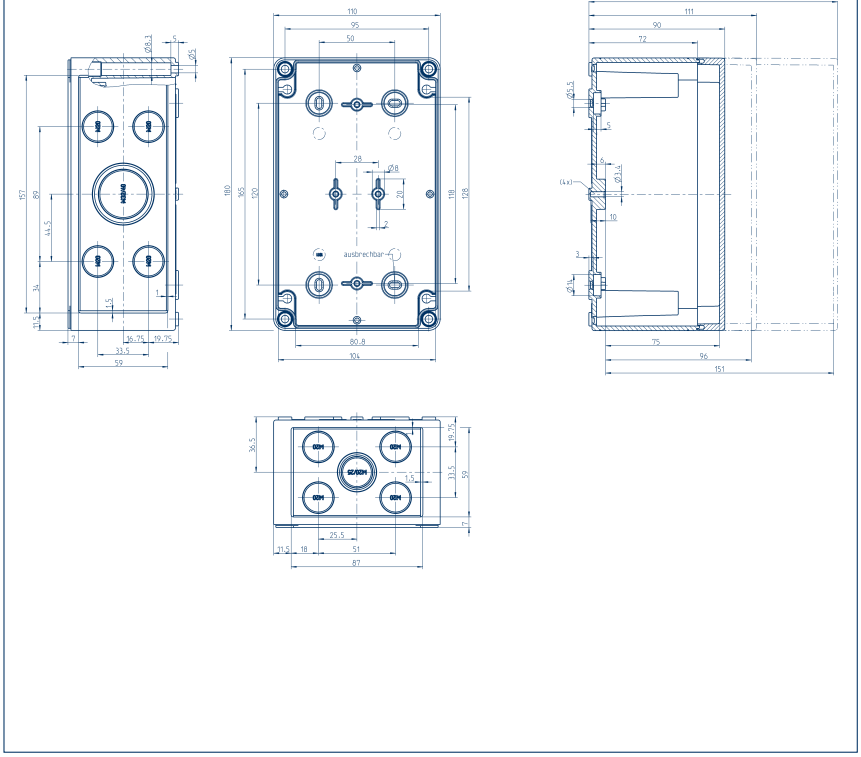
With metric knock-outs



M	A/B	C/D	Knock-outs	A/B	C/D
12	-	-	M20	4	4
16	-	-	M20/25	-	1
20	-	-	M32/40	1	-
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

Accessories		Qty.
DIN rail section TS 15		
Cat. no.		
DIN rail section TS 35	TS 35 / 144 mm long	
Cat. no.	**4507.4**	1
Mounting plate MP	MP /CK 1811	
Cat. no.	**4511.7**	1
Wall brackets WL	WL /CK	
Cat. no.	**4512.1**	1
External joints (pair) AG	AG/CK 1811-CK 3625	
Cat. no.	**4512.3**	1

Dimension diagram

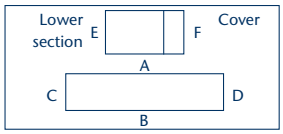


Polycarbonate housing CK-PC 1818/90
Polycarbonate housing CK-PC 1818/111
Polycarbonate housing CK-PC 1818/165

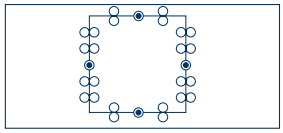
Outer dimensions, mm	182 x 180 x 90
Weight, g	475
Outer dimensions, mm	182 x 180 x 111
Weight, g	525
Outer dimensions, mm	182 x 180 x 165
Weight, g	675

Threaded drill hole options

Without knock-outs



With metric knock-outs

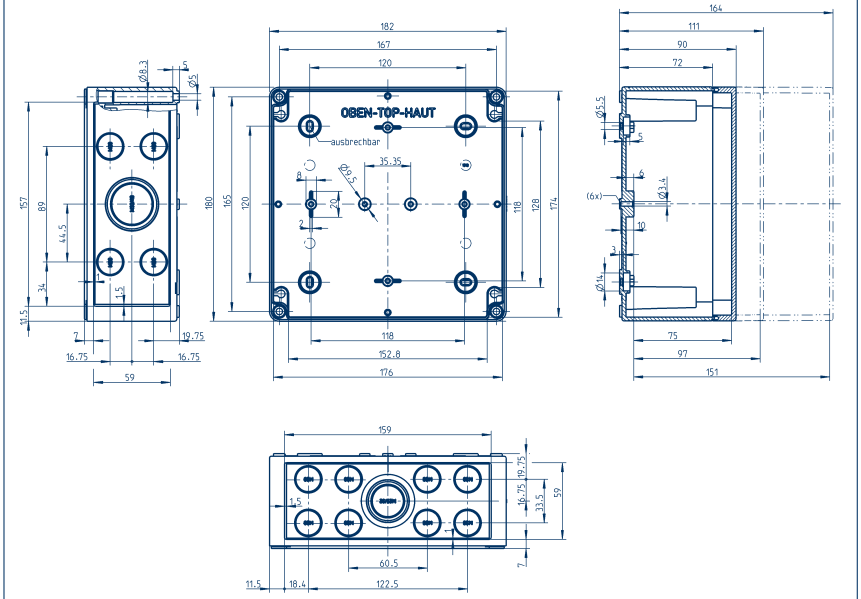


M	A/B	C/D	Knock-outs	A/B	C/D
12	-	-	M20	8	4
16	-	-	M25/32	1	-
20	-	-	M32/40	-	1
25	-	-	-	-	-
32	-	-	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

Accessories		Qty.
DIN rail section TS 15		
Cat. no.		
DIN rail section TS 35	TS 35 / 144 mm long	
Cat. no.	**4507.4**	1
Mounting plate MP	MP /CK 1818	
Cat. no.	**4511.8**	1
Wall brackets WL	WL /CK	
Cat. no.	**4512.1**	1
External joints (pair) AG	AG/CK 1811-CK 3625	
Cat. no.	**4512.3**	1

Knock-outs: ● =M12/16 ⊘ =M16/20 ○ =M20
◎ =M20/25 ⊗ =M25/32 ◉ =M32/40

Dimension diagram



CONTA-BOX Housing-Systems

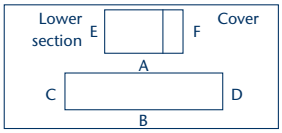
Polycarbonate housings ***CK-PC***

Polycarbonate housing CK-PC 2518/63
Polycarbonate housing CK-PC 2518/84

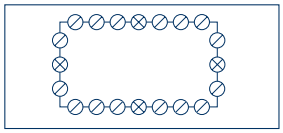
Outer dimensions, mm	254 x 180 x 63
Weight, g	575
Outer dimensions, mm	254 x 180 x 84
Weight, g	575

Threaded drill hole options

Without knock-outs



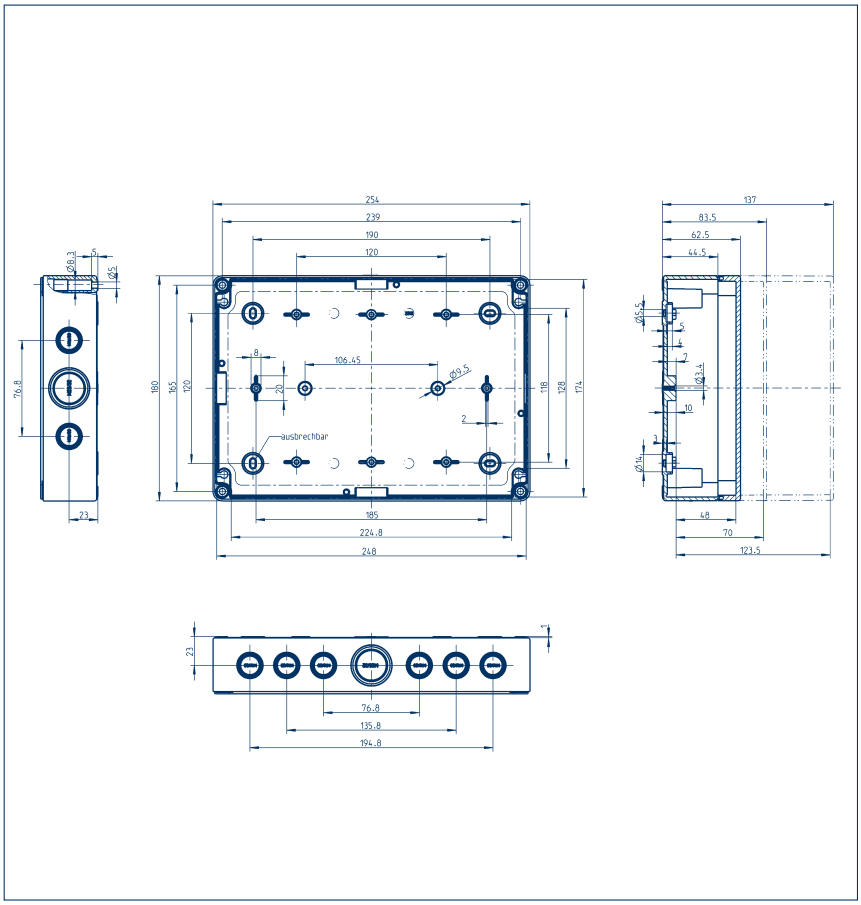
With metric knock-outs



M	A/B	C/D	Knock-outs	A/B	C/D
12	22	12	M16/20	6	2
16	10	5	M25/30	1	1
20	7	4	-	-	-
25	6	3	-	-	-
32	1	1	-	-	-
40	-	-	-	-	-
50	-	-	-	-	-

Accessories		Qty.
DIN rail section TS 15 **Cat. no.**		1
DIN rail section TS 35 **Cat. no.**	TS 35 / 144 mm long **4507.4**	1
Mounting plate MP **Cat. no.**	MP /CK 2518 **4511.9**	1
Wall brackets WL **Cat. no.**	WL /CK **4512.1**	1
External joints (pair) AG **Cat. no.**	AG/CK 1811-CK 3625 **4512.3**	1

Dimension diagram

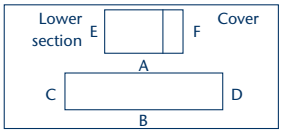


Polycarbonate housing CK-PC 2518/90
Polycarbonate housing CK-PC 2518/111
Polycarbonate housing CK-PC 2518/165

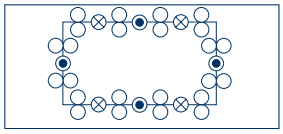
Outer dimensions, mm	254 x 180 x 90
Weight, g	638
Outer dimensions, mm	254 x 180 x 111
Weight, g	700
Outer dimensions, mm	254 x 180 x 165
Weight, g	850

Threaded drill hole options

Without knock-outs



With metric knock-outs

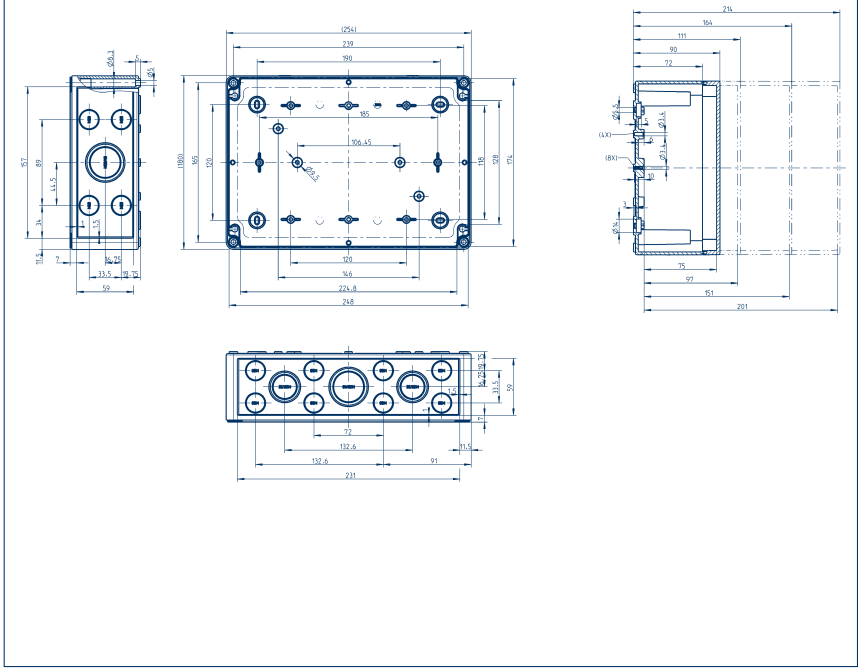


M	A/B	C/D	Knock-outs	A/B	C/D
12	33	20	M20	8	4
16	18	10	M25/32	2	-
20	14	8	M32/40	1	1
25	11	5	-	-	-
32	5	3	-	-	-
40	4	2	-	-	-
50	3	1	-	-	-

Accessories		Qty.
DIN rail section TS 15 **Cat. no.**		
DIN rail section TS 35 **Cat. no.**	TS 35 / 144 mm long **4507.4**	1
Mounting plate MP **Cat. no.**	MP /CK 2518 **4511.9**	1
Wall brackets WL **Cat. no.**	WL /CK **4512.1**	1
External joints (pair) AG **Cat. no.**	AG/CK 1811-CK 3625 **4512.3**	1

Knock-outs: ● =M12/16 ⊘ =M16/20 ○ =M20
◎ =M20/25 ⊗ =M25/32 ◉ =M32/40

Dimension diagram

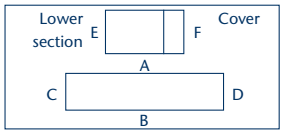


Polycarbonate housing CK-PC 3625/111
Polycarbonate housing CK-PC 3625/165

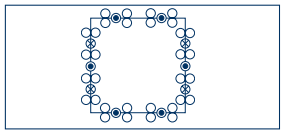
Outer dimensions, mm	361x 254 x 111
Weight, g	1167
Outer dimensions, mm	361 x 254 x 165
Weight, g	1550

Threaded drill hole options

Without knock-outs



With metric knock-outs



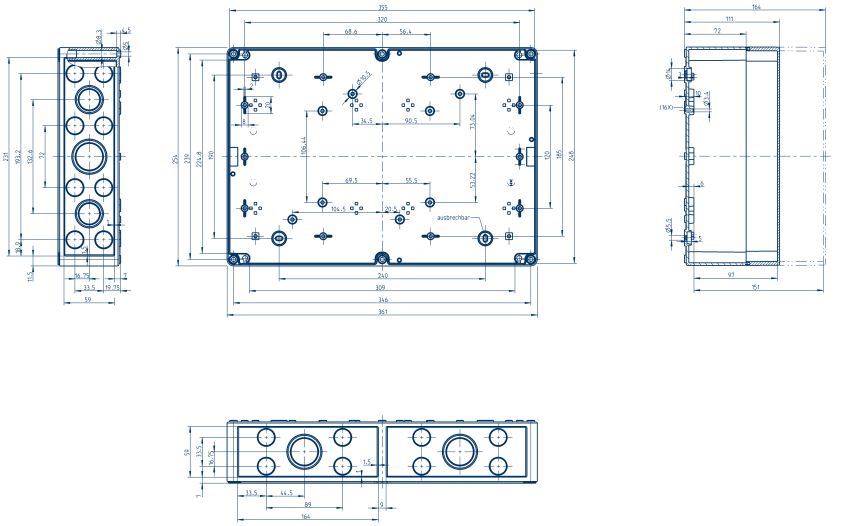
M	A/B	C/D
12	42	33
16	24	18
20	16	14
25	8	11
32	6	5
40	4	4
50	4	3

Knock-outs	A/B	C/D
M20	8	8
M25/30	-	2
M32/40	2	1
-	-	-
-	-	-
-	-	-
-	-	-

Accessories		Qty.
DIN rail section TS 15 **Cat. no.**		
DIN rail section TS 35 **Cat. no.**	TS 35 / 336 mm long **4559.8**	1
Mounting plate MP **Cat. no.**	MP /CK 3625 **4512.0**	1
Wall brackets WL **Cat. no.**	WL /CK **4512.1**	1
External joints (pair) AG **Cat. no.**	AG/CK 1811-CK 3625 **4512.3**	1

Knock-outs: ● =M12/16 ⊘ =M16/20 ○ =M20
◎ =M20/25 ⊗ =M25/32 ◉ =M32/40

Dimension diagram

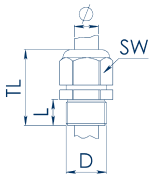


CONTA-BOX Housing-Systems

Metric cable gland systems

Metric cable gland system

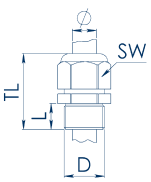
Plastic cable glands / metric threading



Material: Polyamide UL94-V0, protection: IP 68-5-bar,
colour: RAL 7035 bright grey, colour variants (.4) RAL 9005 black
EPDM seal, temperature range -20°C to +120°C
VDE certified: acc. to DIN EN 50626

Type	Cat. no.	Qty.	For cable ø mm	Thread length L, mm	Spanner width AF, mm	TL, mm
KV/M 12 x 1.5	**4573.2**	100	3...7	9	16	29-34
KV/M 16 x 1.5	**4574.2**	100	4.5...10	9	20	31-37
KV/M 20 x 1.5	**4575.2**	100	6...13	10	24	36-45
KV/M 25 x 1.5	**4576.2**	50	9...17	10	29	38-47
KV/M 32 x 1.5	**4577.2**	25	13...21	12	36	42-51
KV/M 40 x 1.5	**4578.2**	10	16...28	12	46	52-65
KV/M 50 x 1.5	**4579.2**	5	21...35	14	55	59-72
KV/M 63 x 1.5	**4580.2**	5	34...48	15	68	64-78

Plastic cable glands / long metric threading



Material: Polyamide UL94-V0, protection: IP 68-5-bar,
colour: RAL 7035 bright grey,
EPDM seal,
Temperature range: -20°C to +120°C

Type	Cat. no.	Qty.	For cable ø mm	Thread length L, mm	Spanner width AF, mm	TL, mm
KV/M-L 12 x 1.5	**17599.2**	50	3...7	15	16	35-40
KV/M-L 16 x 1.5	**17600.2**	50	4.5...10	15	20	37-43
KV/M-L 20 x 1.5	**17601.2**	50	6...13	15	24	41-50
KV/M-L 25 x 1.5	**17602.2**	50	9...17	15	29	43-52
KV/M-L 32 x 1.5	**17603.2**	25	13...21	15	36	45-54
KV/M-L 40 x 1.5	**17604.2**	10	16...28	18	46	58-71
KV/M-L 50 x 1.5	**17605.2**	10	21...35	18	55	63-76
KV/M-L 63 x 1.5	**17606.2**	10	34...48	18	68	67-81

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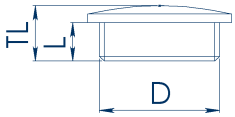
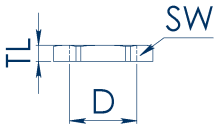
Plastic screw plugs / metric threading



Material: glass-fibre reinforced polyamide, protection: IP 56,
colour: RAL 7035 bright grey,
Temperature range: -40°C to +100°C

Type	Cat. no.	Qty.	Head ø mm	Thread length L, mm	TL, mm
V/M 12 x 1.5	**4589.2**	100	15	6	8
V/M 16 x 1.5	**4590.2**	100	20	6	9
V/M 20 x 1.5	**4591.2**	100	24	6	9.5
V/M 25 x 1.5	**4592.2**	100	30	8	11.5
V/M 32 x 1.5	**4593.2**	100	37	8	12
V/M 40 x 1.5	**4594.2**	50	46	8	13
V/M 50 x 1.5	**4595.2**	50	56	10	15
V/M 63 x 1.5	**4596.2**	50	70	12	17

Plastic counter nuts / metric threading



Material: glass-fibre reinforced polyamide
Colour variant (.4)RAL 9005 black
Temperature range: -40°C to +100°C

Type	Cat. no.	Qty.	TL, mm	Spanner width AF, mm
S/M 12 x 1.5	**4140.2**	100	5	18
S/M 16 x 1.5	**4141.2**	100	5	22
S/M 20 x 1.5	**4142.2**	100	5	27
S/M 25 x 1.5	**4143.2**	100	6	32
S/M 32 x 1.5	**4144.2**	100	6	40
S/M 40 x 1.5	**4145.2**	50	7	50
S/M 50 x 1.5	**4146.2**	50	7	60
S/M 63 x 1.5	**4147.2**	50	7	75

Adjustable nipple for metric threading

Material: Thermo-plastic elastomer
Protection: IP 55
colour: grey

Type	Cat. no.	Qty.	For cable ø mm	Wall thickness, mm
SN/M20	**4148.2**	100	5...16	1.5...4.5
SN/M25	**4149.2**	50	5...21	1.5...4.5
SN/M32	**4150.2**	25	13...26.5	1.5...4.5
SN/M40	**4151.2**	20	13...34	1.5...4.5

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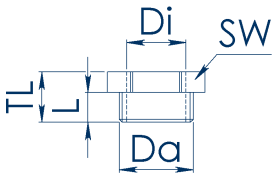
Double-membrane brackets, metric threading

Material: Thermo-plastic elastomer
Protection: IP 66
colour: grey

Type	Cat. no.	Qty.	For cable ø mm	Wall thickness, mm
DM/M16	**4160.2**	50	5...9	1.5...4.5
DM/M20	**4161.2**	50	7...12	1.5...4.5
DM/M25	**4162.2**	50	9...16	1.5...4.5
DM/M32	**4163.2**	25	14...21	1.5...4.5

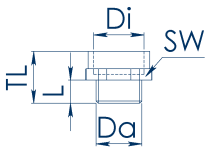
Plastic reducing sleeves / metric - metric



Material: glass-fibre reinforced polyamide
colour: RAL 7035 bright grey,
Temperature range: -40°C to +100°C

Type	Cat. no.	Qty.	Outer ø - Inner ø, mm	Thread length L, mm	Spanner width AF, mm	TL, mm
VRM 16/12	**17614.2**	1001	16x1.5 - 12x1.5	9	20	16
VRM 20/12	**17615.2**	0010	20x1.5 - 12x1.5	9	24	16
VRM 20/16	**17616.2**	0100	20x1.5 - 16x1.5	9	24	27
VRM 25/12	**17617.2**	100	25x1.5 - 12x1.5	10	29	17
VRM 25/16	**17618.2**	100	25x1.5 - 16x1.5	10	29	17
VRM 25/20	**17619.2**	50	25x1.5 - 20x1.5	10	29	17
VRM 32/16	**17620.2**	50	32x1.5 - 16x1.5	12	36	19
VRM 32/20	**17621.2**	50	32x1.5 - 20x1.5	12	36	19
VRM 32/25	**17622.2**		32x1.5 - 25x1.5	12	36	19
VRM 40/20	**17623.2**	25	40x1.5 - 25x1.5	12	46	19
VRM 40/25	**17624.2**	25	40x1.5 - 25x1.5	12	46	19
VRM 40/32	**17625.2**	25	40x1.5 - 32x1.5	12	46	19
VRM 50/25	**17626.2**	5	50x1.5 - 25x1.5	14	55	21
VRM 50/32	**17627.2**	5	50x1.5 - 32x1.5	14	55	21
VRM 50/40	**17628.2**	5	50x1.5 - 40x1.5	14	55	21
VRM 63/32	**17629.2**	5	63x1.5 - 32x1.5	15	65	22
VRM 63/40	**17630.2**	5	63x1.5 - 40x1.5	15	65	22
VRM 63/50	**17631.2**	5	63x1.5 - 50x1.5	15	65	22

Extension - plastic / metric - metric



Material: glass-fibre reinforced polyamide
colour: RAL 7035 bright grey,
Temperature range: -40°C to +100°C

Type	Cat. no.	Qty.	Outer ø - Inner ø, mm	Thread length L, mm	Spanner width AF, mm	TL, mm
VEM 12/16	**17607.2**	100	12x1.5 - 16x1.5	9	20	27
VEM 16/20	**17608.2**	100	16x1.5 - 20x1.5	9	24	27
VEM 20/25	**17609.2**	100	20x1.5 - 25x1.5	9	29	27
VEM 25/32	**17610.2**	100	25x1.5 - 32x1.5	10	36	28
VEM 32/40	**17611.2**	50	32x1.5 - 40x1.5	12	46	30
VEM 40/50	**17612.2**	25	40x1.5 - 50x1.5	12	55	30
VEM 50/63	**17613.2**	5	50x1.5 - 63x1.5	14	68	32

Reducing seal insert for metric cable glands

Material: Thermo-plastic elastomer, protection: IP 68
colour: black, temperature range: -40°C to +100°C
Fits with all metric-sized plastic and brass cable glands.

Type	Cat. no.	Qty.	For cable ø mm	For cable glands
VRDE 12	**17639.4**	50	1...3	M12
VRDE 16	**17640.4**	50	2...6	M16
VRDE 20	**17641.4**	50	4...8	M20
VRDE 25	**17642.4**	25	7...12	M25
VRDE 32	**17643.4**	25	9...14	M32
VRDE 40	**17644.4**	10	12...20	M40
VRDE 50	**17645.4**	10	16...25	M50
VRDE 63	**17646.4**	10	28...38	M63

Metric cable gland system

Seal plugs for metric threading

Material: Polyethylene
Protection: IP 54
colour: grey

Type	Cat. no.	Qty.	For cable ø mm	Wall thickness, mm
VS/M16	**4164.2**	100	6...10	1.5...4.0
VS/M20	**4165.2**	100	8...13.5	1.5...4.0
VS/M25	**4166.2**	50	9...16	1.5...4.0
VS/M32	**4167.2**	50	11...23	1.5...4.0
VS/M40	**4168.2**	25	17...30	1.5...4.0

Material: EPDM, 55° shore A, protection: IP 66/67,
colour: RAL 7001 silver-grey, colour variant (.4) RAL 9005 black
Temperature range: -40°C to +110°C

Type	Cat. no.	Qty.	For cable ø mm	Wall thickness, mm	Drill holes ø mm	TL, mm
FDM 12 GR	**17632.6**	50	4...7	0.5...2	12 - 13	13
FDM 16 GR	**17633.6**	50	5...10	1...4	15 - 17	18
FDM 20 GR	**17634.6**	50	8...13	1...4	18 - 19	20
FDM 25 GR	**17635.6**	50	11...17	1...4	25 - 26	21.5
FDM 32 GR	**17636.6**	50	15...21	1...4	32 - 33	25
FDM 40 GR	**17637.6**	50	19...28	1...4	40 - 41	30
FDM 50 GR	**17638.6**	10	27...35	1...4	50 - 51	35

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CONTA-BOX Housing-Systems

Metric cable gland systems

Metric cable gland system

Multiple seal insert for metric cable glands

Material: Thermo-plastic elastomer, protection: IP 66,
colour: black, temperature range: -40°C to +100°C
Fits with all metric-sized plastic and brass cable glands.

Type	Cat. no.	Qty.	For cable ø mm	Number of cables	For cable glands	Type	Cat. no.	Qty.	For cable ø mm	Number of cables	For cable glands
VMD 12/04/020	**17647.4**	25	0...2	4	M12	VMD 25/03/070	**17656.4**	25	5...7	3	**M25**
VMD 16/02/040	**17648.4**	25	2...4	2	M16	VMD 25/04/060	**17657.4**	25	4...6	4	**M25**
VMD 20/02/060	**17649.4**	25	4...6	2	M20	VMD 32/04/070	**17658.4**	25	5...7	4	**M32**
VMD 20/02/065	**17650.4**	25	5...6.5	2	M20	VMD 32/04/080	**17659.4**	25	6...8	4	**M32**
VMD 20/03/040	**17651.4**	25	2.5...4	3	M20	VMD 32/04/060	**17660.4**	25	5...6	6	**M32**
VMD 25/01/065	**17652.4**	25	4...6.5	1	M25	VMD 40/07/070	**17661.4**	25	5...7	7	**M40**
VMD 25/02/060	**17653.4**	25	4...6	2	M25	VMD 40/07/080	**17662.4**	25	6...8	7	**M40**
VMD 25/02/070	**17654.4**	25	5...7	2	M25	VMD 40/08/060	**17663.4**	25	5...6	8	**M40**
VMD 25/02/080	**17655.4**	25	6...8	2	M25	VMD 50/09/080	**17664.4**	25	6...8	9	**M50**

Dummy plug

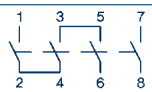
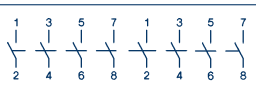
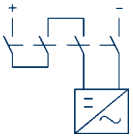
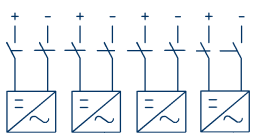
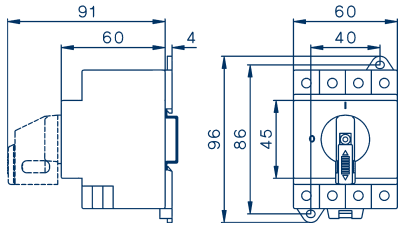
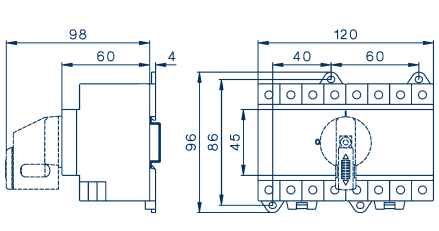
Material: polyamide, colour: red,
Temperature range: -40°C to +100°C
For sealing off unused cable and wire feed-ins with multiple seal inserts

Type	Cat. no.	Qty.	Diameter mm	Length, mm
VBS 2 RD	**17665.9**	50	2	12
VBS 3 RD	**17666.9**	50	3	12
VBS 4 RD	**17667.9**	50	4	12
VBS 5 RD	**17668.9**	50	5	12
VBS 6 RD	**17669.9**	50	6	16
VBS 7 RD	**17670.9**	50	7	16
VBS 8 RD	**17671.9**	50	8	16
VBS 9 RD	**17672.9**	50	9	16
VBS 10 RD	**17673.9**	50	10	16
VBS 12 RD	**17674.9**	50	12	22
VBS 13 RD	**17675.9**	50	13	22
VBS 14 RD	**17676.9**	50	14	22
VBS 17 RD	**17677.9**	25	17	17
VBS 20 RD	**17678.9**	25	20	22
VBS 21 RD	**17679.9**	25	21	30
VBS 25 RD	**17680.9**	25	25	30
VBS 28 RD	**17681.9**	25	28	30
VBS 35 RD	**17682.9**	10	35	35
VBS 38 RD	**17683.9**	10	38	35
VBS 48 RD	**17684.9**	10	48	35
VBS 63 RD	**17685.9**	5	63	35

DC load break switches for Photovoltaic

DC load break switches to isolate the inverter

- High DC switching capacity 1000V DC / 25A
- Self-cleaning, vibration proof blade contacts
- Oxidation proof contacts
- Ultimate contact reliability
- Lockable handle
- High switching speed, independent on the operation speed of the handle
- Available with 4 poles, including bridges, or 8 poles
- Input from the top, output at the bottom
- Protection: IP40

	PVS-LT-V 1000 V DC	**PVS-LT-8 1000 V DC**
		
	DC load break switches for Photovoltaic	DC load break switches for Photovoltaic
Connection type	**Screw connection**	**Screw connection**
Dimensions (L x W x H) mm	96 x 60 x 95	96 x 120 x 95
Dimensions (L x W x H) mm with TS 35x7.5	96 x 60 x 98.5	96 x 120 x 98.5
Weight, g	230	460
TYPE	**Qty.**	**Qty.**
Type	PVS-LT-V 1000 V DC	PVS-LT-8 1000 V DC
Cat. no.	**17320.2** 1	**17321.2** 1
Type		
Cat. no.		
Technical data		
Rated voltage V DC	1000	1000
Rated current, A	25	25*
Separation of contacts, per pole, mm	8	8
Separation requirements met to V	1000	1000
Rated short-circuit current kAeff	5	5
Maximum back-up fuse A	63	63
Rated impulse voltage, kV | Contamination	8 | 3	8 | 3
degreeOvervoltage category | Protection class	1-3 | IP 40	1-3 | IP 40
Temperature range:		
Open use	-40°C to +65°C	-40°C to +65°C
Enclosed use	-40°C to +45°C	-40°C to +45°C
Storage	-40°C to +90°C	-40°C to +90°C
Connection data		
Single wire (solid) / Stranded mm^2	4-16	4-16
Flexible|Flexible (w/ferrules acc. to DIN 46 228/1) mm^2	4-10	4-10
Torque, Nm | Screw	1.2-1.8 | Pz2 M 4	1.2-1.8 | Pz2 M 4
Circuit diagram		
Type of contact		
Example application		
		
Dimension diagram		
		

* switch dependent

CONTA-TOOL Tool-Systems

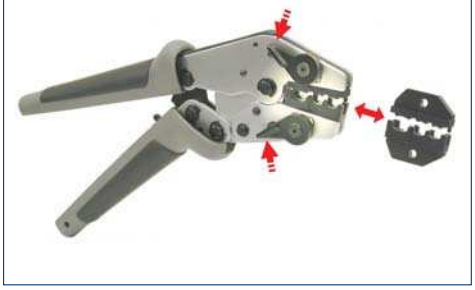
Crimping and cutting tool set for photovoltaic and solar connectors

CONTA-CLIP offers tools for working on solar cables and connectors in the form of the **PVS-PZ TF plus** Crimping and cutting tool set for photovoltaic and solar connectors, these come in a practical box.

- Basic crimping tool with “easy-change” quick interlock
- All crimp inserts are easy to swap out – without knurled screws and without tools
- Basic crimping tool with automatic locking and unlocking mechanisms to ensure complete crimps
- Crimping pressure can be adjusted
- Dual-component hand grip
- Nickel-plated, matt tool frame
- Many different crimp inserts available for the basic crimping tool

PVS- PZ TF plus Set

Type	
Type	PVS- PZ TF plus Set
Cat. no.	**17097.0**
Scope of delivery	
Set with 4 tools in a case	



Basic crimping tool “PZ TF plus” with quick interlock, without crimping inserts

Cable cutter “EKS 10 eco” for copper cables up to 25 mm²

Type	PZ TF plus	EKS 10 eco
Cat. no.	**17094.0**	**17086.0**

Insert MC3 for MC3 plugs 4.0 + 6.0 mm²

Cable stripping tool “**Stripfix**” for most standard PV Cables

Type	Insert MC3	Stripfix-V
Cat. no.	**17096.6**	**3166.0**

Insert MC4 for MC4 plugs 4.0 + 6.0 mm²

Universal cutting and stripping tool for problematic PV cables (adjustable cutting depth)

Type	Insert MC4	**Universal cutting and stripping tool**
Cat. no.	**17096.7**	

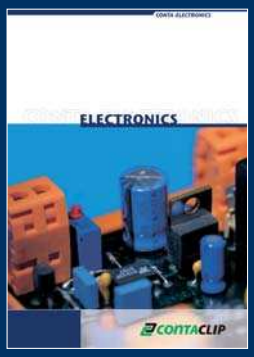
Stripping tools

	Stripfix	Stripfix-V	Stripfix-16	
				
	Stripping tool 10 mm²	Stripping tool 6 mm²	Stripping tool 16 mm²	
Type				
Type	Stripfix	Stripfix-V	Stripfix-16	
Cat. no.	**1074.0** 1	**3166.0** 1	**3167.0** 1	
Size / Weight				
Length, mm	191	191	191	
Weight, g	136	136	136	
Max. stripping range, copper cable				
Solid wire (max. cross-section), mm² / AWG	0.02-10 / 34-8	0.02-6 / 34-10	6-16 / 10-6	
Stranded (max. cross-section), mm² / AWG	0.02-10 / 34-8	0.02-6 / 34-10	6-16 / 10-6	
Finely stranded (max. cross-section), mm² / AWG	0.02-10 / 34-8	0.02-6 / 34-10	6-10 / 10-6	
Max. cutting lead, copper cable				
Solid wire (max. cross-section), mm² / AWG	1.5 / 16	1.5 / 16	1.5 / 16	
Stranded (max. cross-section), mm² / AWG	-	-	-	
Finely stranded (max. cross-section), mm²	10 / 8	10 / 8	10 / 8	
Description / Features				
	For stripping CU and AL wires: PVC-insulated wire from 0.02-10 mm² (AWG 34-8) Cutting range: up to 10 mm² finely stranded (AWG 8)	For stripping CU and AL wires: Insulated wire from 0.02-6 mm² (AWG 34- 10) Cutting range: up to 10 mm² finely stranded (AWG 8)	For stripping CU and AL wires: PVC-insulated wire from 6-16 mm² (AWG 10-6) Cutting range: up to 10 mm² finely stranded (AWG 8)	
Spare parts				
Type of replacement blade	EKGK	EKVK	EKVK/16	
Cat. no.	**1076.0** 1	**1077.0** 1	**1408.0** 1	

	KM 25	KM 35		
				
	Stripping blade Ø 25 mm	Stripping blade Ø 35 mm		
Type				
Type	KM 25	KM 35		
Cat. no.	**17092.0** 1	**17093.0** 1		
Size / Weight				
Length, mm	152	168		
Weight, g	161	166		
Technical data Max. cutting lead, copper cable				
Solid wire (max. cross-section), mm² / AWG	-	-		
Stranded (max. cross-section), mm² / AWG	-	-		
Finely stranded (max. cross-section), mm² / AWG	-	-		
Max. wire diameter, mm	25	35		
Description / Features				
	Professional stripping tools for large round cables up to Ø 25 mm. Can cut circular, spiral and lengthwise. Stripping blade can be adjusted for thickness of insulation.	Professional stripping tools for large round cables up to Ø 35 mm. Can cut circular, spiral and lengthwise. Stripping blade can be adjusted for thickness of insulation.		

CONTA-CONNECT
[Connection Systems]

CONTA-ELECTRONICS
[Electronics]



CONTA-CON
[PCB Connectors]

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