



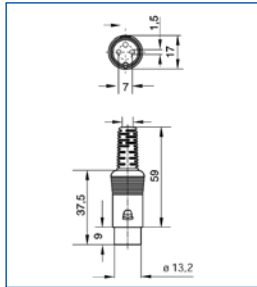
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DIN Connectors with insulated Handle : MAS / MAK Series



Shielded multipole connectors with strain relief and solder terminals.



MASxx

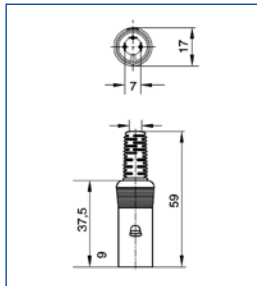
MASxx

Application:

- ▶ connecting devices for measurement and consumer electronics
- ▶ in medical technology
- ▶ in communication engineering
- ▶ for office communication
- ▶ for pc and peripherals

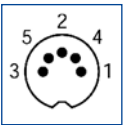
▶ Specification:

**Operating voltage:** 34 V AC / DC  
**Working current:** 4 A  
**Breakdown voltage:** 1 kV  
**Insulation resistance:** 100 GΩ  
**Termination:** solder

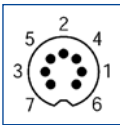


MAKxx

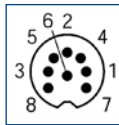
MAKxx



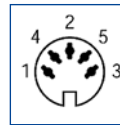
MAS50S



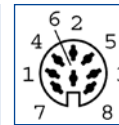
MAS70S



MAS80S



MAK50S



MAK80S

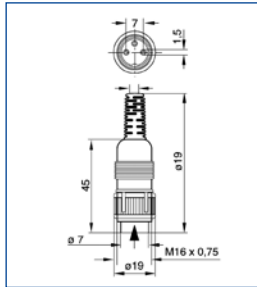
Item:	Type:	Type of contact:	No. of contacts:	Colour:	≥ 1	≥ 10	≥ 50
930131500	MAS 50 S	plug	5	black	0,91	0,83	0,79
930131517	MAS 50 S	plug	5	grey	0,91	0,83	0,79
930356517	MAS 70 S	plug	7	grey	1,01	0,92	0,88
930298500	MAS 80 S	plug	8	black	1,26	1,15	1,10
930172517	MAK 50 S	jack	5	grey	1,10	1,00	0,95
930348517	MAK 80 S	jack	8	grey	1,80	1,64	1,57



DIN Connectors with Locking Screw : MAS / MAK Series



Shielded multipole connectors with strain relief and solder terminals.



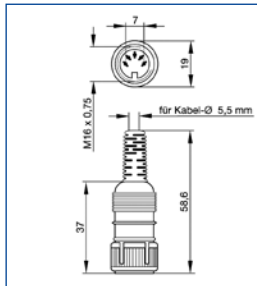
MASxx

MASxx

► Safe connection of plugs, jacks and chassis sockets with screw locking

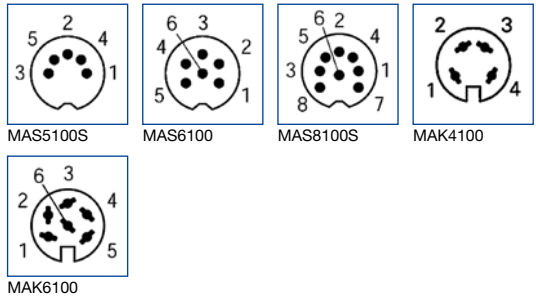
► Specification:

- Operating voltage:** 34 V AC / DC
- Working current:** 4 A
- Breakdown voltage:** 1 kV
- Insulation resistance:** 100 GΩ
- Termination:** solder



MAKxx

MAKxx

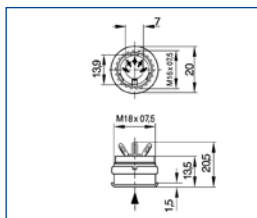


Item:	Type:	Type of contact:	No. of contacts:	Colour:	≥ 1	≥ 10	≥ 50
930965517	MAS 5100 S	plug	5	grey	1,33	1,21	1,16
930966517	MAS 6100	plug	6	grey	1,41	1,29	1,23
930539517	MAS 8100 S	plug	8	grey	1,57	1,42	1,36
930959517	MAK 4100	jack	4	grey	1,44	1,30	1,25
930962517	MAK 6100	jack	6	grey	1,73	1,57	1,51

DIN Panel-Mounted with Locking Screw : MAB Series



Shielded multipole sockets with solder terminals.



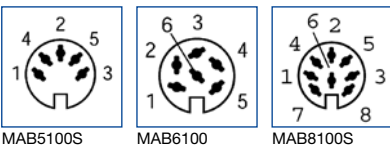
MABxx

MABxx

► Safe connection of plugs, jacks and chassis sockets with screw locking

► Specification:

- Operating voltage:** 34 V AC / DC
- Working current:** 4 A
- Breakdown voltage:** 1 kV
- Insulation resistance:** 100 GΩ
- Termination:** solder



Item:	Type:	No. of contacts:	Colour:	≥ 1	≥ 10	≥ 50
930953517	MAB 5100 S	5	grey	1,23	1,12	1,07
930954517	MAB 6100	6	grey	1,47	1,33	1,27
930537517	MAB 8100 S	8	grey	1,44	1,30	1,25

**Information**

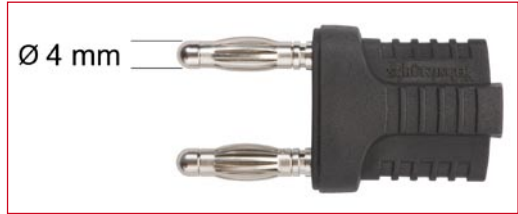
**4 mm Product Range**

Single-pole plug connectors for the transmission of voltage, currents and electrical measurement data.

**Characteristics**

- ▶ robust assembly by crush-proof insulation
- ▶ wide range, universal applications
- ▶ the range is intended for use with extra-low voltages

**Max. voltage for direct contact with bare parts = 30V AC / 60V DC**



SCHÜTZINGER

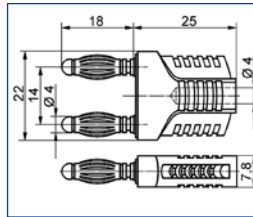
**Connecting Plugs insulated**

Moulded insulation with rear socket Ø 4 mm.

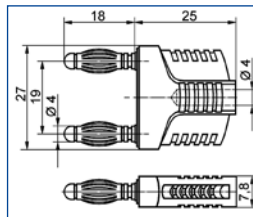
**Specification:**

- Contact part:** nickel plated
- Insulation:** PA 6
- Transition resistance:** 3 mΩ
- Rated voltage:** 30V AC / 60V DC
- Rated current:** 12 A
- Temperature range:** -25°C up to 90°C

**Dimensions (mm)**



KURZ144MBSW



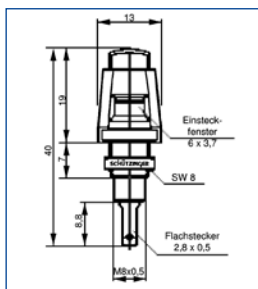
KURZ194MBSW

Item:	Description:	Colour:	Schützing order no.:	≥ 1	≥ 5	≥ 10
KURZ144MBSW	Connecting plug with rear socket	black	KURZ 14-4 IG MB / SW	2,49	2,19	2,05
KURZ194MBSW	Connecting plug with rear socket	black	KURZ 19-4 IG MB / SW	2,49	2,19	2,05

## Quick-Release Terminals



ESD4323RT



Fully insulated

## Functional description

Wire and strands are connected between the spring jaws by pressing on the head of the terminal post. The quick-release terminals are particularly suitable for quick connection and testing of series appliances.

## ► Specification:

<b>Contact part:</b>	nickel plated
<b>Insulation:</b>	PA 6.6
<b>Panel thickness:</b>	0.8 - 4 mm
<b>Terminal:</b>	Quick connect 2.8x0.5 or soldering
<b>Transition resistance:</b>	3 mΩ
<b>Rated voltage:</b>	30V AC / 60V DC
<b>Rated current:</b>	5 A
<b>Temperature range:</b>	-25°C up to +90°C
<b>Pressure of compression spring:</b>	19 N
<b>Max. torque for nuts:</b>	85 Ncm

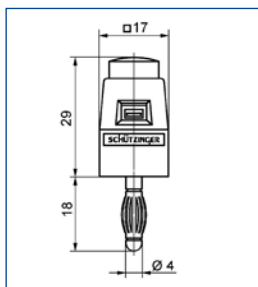
## Dimensions (mm)

Item:	Description:	Colour:	Schützing order no.:	≥ 1	≥ 5	≥ 10
ESD4323SW	Quick-release terminal	black	ESD 4323 / SW	1,74	1,53	1,43
ESD4323RT	Quick-release terminal	red	ESD 4323 / RT	1,74	1,53	1,43

## Quick-Release Terminals



SDK502RT



To plug in a Ø 4 mm socket

## Functional description

Wire and strands are connected between the spring jaws by pressing on the head of the terminal post. The quick-release terminals are particularly suitable for quick connection and testing of series appliances.

## ► Specification:

<b>Contact part:</b>	nickel plated
<b>Insulation:</b>	PA 6.6
<b>Terminal:</b>	plug
<b>Transition resistance:</b>	3 mΩ
<b>Rated voltage:</b>	30V AC / 60V DC
<b>Rated current:</b>	16 A
<b>Temperature range:</b>	-25°C up to +90°C
<b>Pressure of compression spring:</b>	19 N

## Dimensions (mm)

Item:	Description:	Colour:	Schützing order no.:	≥ 1	≥ 5	≥ 10
SDK502SW	Quick-release terminal	black	SDK 502 / SW	3,52	3,10	2,90
SDK502RT	Quick-release terminal	red	SDK 502 / RT	3,52	3,10	2,90

**Information**

**4 mm Safety Product Range**

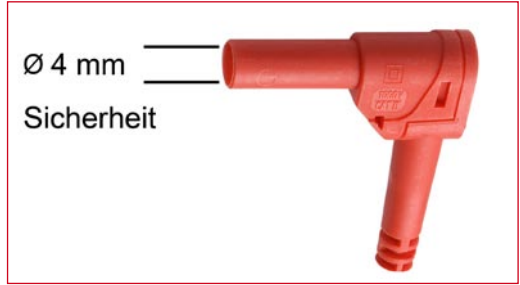
Safety laboratory programme up to 1000 V in accordance with IEC 1010-2-031.

1000V  
Safety



**Characteristics**

- ▶ rigid plug insulation sleeve
- ▶ robust assembly by crush-proof insulation
- ▶ wide range, universal applications
- ▶ additional safety is attained by means of an insulating protective cap placed on the contact pin
- ▶ reliable and touchproof connections



**Safety Test Lead Set 1**

Set consisting of:

- ▶ 2 pcs. of safety test leads 100cm (1 x black, 1 x red) each with tip protection head SSK 2002
- ▶ 2 pcs. of test probe PRÜF 2013
- ▶ 2 pcs. of test probe PRÜF 2015
- ▶ 2 pcs. of test probe PRÜF 2017
- ▶ premium plastic box

1000V  
Safety

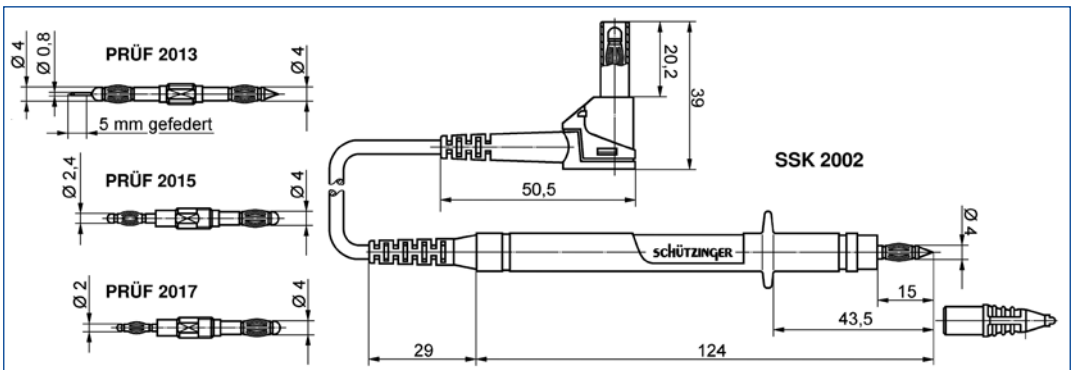


**Specification:**

- Lead:** PVC 2.5 mm<sup>2</sup> with tension relief
- Contact part:** nickel plated
- Tip:** Steel
- Insulation:** PA 6.6
- Transition resistance:** 20 mΩ
- Rated voltage:** 1000 V CAT II
- Rated current:** 32 A
- Temperature range:** -10°C up to +70°C



SPL2400

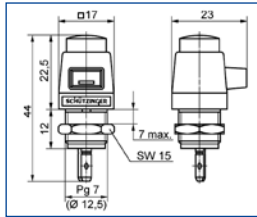


Item:	Description:	Colour:	Schützing order no.:	≥ 1	≥ 5	≥ 10
SPL2400	Set safety test lead	1 x black, 1 x red	SET SPL 2400	14,87	14,37	13,87

## Safety Quick-Release Terminals

1000V  
Safety

ESD798RT



Fully insulated

## Functional description

Wire and strands are connected between the spring jaws by pressing on the head of the terminal post. The quick-release terminals are particularly suitable for quick connection and testing of series appliances.

## ► Specification:

<b>Contact part:</b>	nickel plated
<b>Insulation:</b>	PA 6.6
<b>Panel thickness:</b>	0.8 - 7 mm
<b>Terminal:</b>	Quick connect 6.3x0.5 or soldering
<b>Transition resistance:</b>	3 mΩ
<b>Rated voltage:</b>	300 V CAT II
<b>Rated current:</b>	16 A
<b>Temperature range:</b>	-25°C up to +90°C
<b>Pressure of compression spring:</b>	19 N
<b>Max. torque for nuts:</b>	85 Ncm

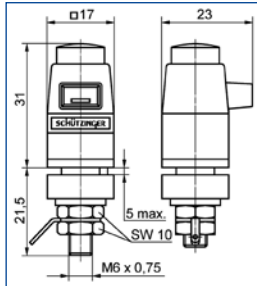
## Dimensions (mm)

Item:	Description:	Colour:	Schützinger order no.:	≥ 1	≥ 5	≥ 10
ESD798SW	Safety quick-release terminal	black	ESD 798 / SW	2,38	2,09	1,96
ESD798RT	Safety quick-release terminal	red	ESD 798 / RT	2,38	2,09	1,96

## Safety Quick-Release Terminal for Metal Panels

1000V  
Safety

SDK800RT



Fully insulated for metal panels

## Functional description

Wire and strands are connected between the spring jaws by pressing on the head of the terminal post. The quick-release terminals are particularly suitable for quick connection and testing of series appliances.

## ► Specification:

<b>Contact part:</b>	nickel plated
<b>Insulation:</b>	PA 6.6
<b>Panel thickness:</b>	0.8 - 5 mm
<b>Terminal:</b>	plug
<b>Transition resistance:</b>	3 mΩ
<b>Rated voltage:</b>	300 V CAT II
<b>Rated current:</b>	16 A
<b>Temperature range:</b>	-25°C up to +90°C
<b>Pressure of compression spring:</b>	19 N
<b>Max. torque for nuts:</b>	120 Ncm

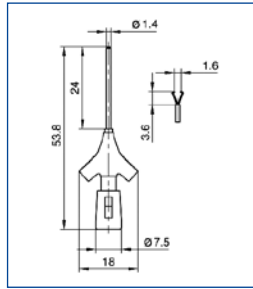
## Dimensions (mm)

Item:	Description:	Colour:	Schützinger order no.:	≥ 1	≥ 5	≥ 10
SDK800SW	Safety quick-release terminal	black	SDK 800 / SW	4,24	3,72	3,49
SDK800RT	Safety quick-release terminal	red	SDK 800 / RT	4,24	3,72	3,49



**Miniature Clamp-Type Test Probe : MICRO-KLEPS**

Miniature clamp-type test probe with rotation grip jaws (SMD technology). The insulated shaft can be bent up to 35°. Suitable for very thin wire and densely packed contacts points (1.27 mm IC spacing pitch). Connects with MKL... and MAL...

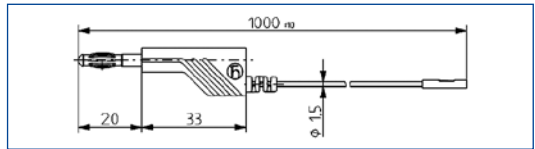


- **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 2 A
- Contact resistance:** 10 mΩ
- Temperature range:** -25°C up to +100°C
- Termination:** 2 x pin Ø 0,64mm
- Clamping range:** Ø 2mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
973972100	MICRO-KLEPS	black	3,11	2,83	2,71
973972101	MICRO-KLEPS	red	3,11	2,83	2,71

**Injection-Moulded Measuring Leads : MAL N 4-0.64**

Injection-moulded measuring lead with sprung 4 mm diameter plug and 4 mm diameter socket for further connection and unsulated socket for 0.64 mm square-pillar. Highly flexible 0.25 qmm stranded wire.

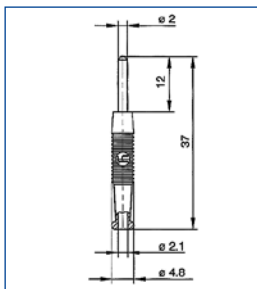


- **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 3 A
- Contact resistance:** 70 mΩ
- Temperature range:** -15°C up to +70°C
- Termination:** Plug 4mm and jack 0.64mm

Dimensions (mm)

Item:	Description:	Colour:	≥ 1	≥ 10	≥ 50
934160100	MAL N-4-0,64/100-0,25	black	3,09	2,81	2,69
934160101	MAL N-4-0,64/100-0,25	red	3,09	2,81	2,69

## Miniature Connector : MST 3

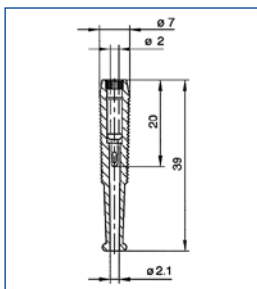


2 mm diameter miniature connector, nickel-plated brass pin with solder connection. Flexible, shatter-proof insulating sleeve. For making up connecting leads with a maximum external diameter of 1.9 mm.

- **Specification:**
- Operating voltage:** 60 V DC
  - Working current:** 6 A
  - Contact resistance:** 6 mΩ
  - Temperature range:** -25°C up to +60°C
  - Termination:** solder

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
973509100	MST 3	black	0,31	0,28	0,27
973509101	MST 3	red	0,31	0,28	0,27
973509102	MST 3	blue	0,31	0,28	0,27

## Miniature Coupling : MKU 1



2 mm diameter miniature coupling, insulated, nickel-plated copper beryllium contact spring with solder connection. Flexible, shatter-proof insulating sleeve. For making up connecting leads with a maximum external diameter of 2 mm.

- **Specification:**
- Operating voltage:** 60 V DC
  - Working current:** 6 A
  - Contact resistance:** 6 mΩ
  - Temperature range:** -20°C up to +60°C
  - Termination:** solder

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930320100	MKU 1	black	0,60	0,55	0,53
930320101	MKU 1	red	0,60	0,55	0,53

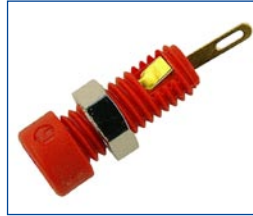
**Miniature Panel-Mounted Socket : MBI 1**

2 mm diameter miniature socket, insulated, copper beryllium contact spring, with solder connection. Suitable for installation in equipment chassis and switchpanels up to a maximum wall thickness of 5 mm.



► **Specification:**

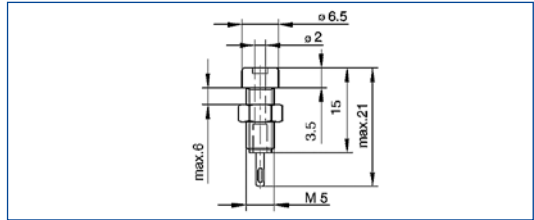
- Operating voltage:** 60 V DC
- Working current:** 6 A
- Contact resistance:** 6 mΩ
- Temperature range:** -20°C up to +60°C
- Termination:** solder



930308701



930308100



Item:	Type:	Colour:	Contact material:	IV 1	≥ 10	≥ 50
930308100	MBI 1	black	beryllium copper tin plated	0,50	0,45	0,43
930308101	MBI 1	red	beryllium copper tin plated	0,50	0,45	0,43
930308102	MBI 1	blue	beryllium copper tin plated	0,50	0,45	0,43
930308103	MBI 1	yellow	beryllium copper tin plated	0,50	0,45	0,43
930308700	MBI 1 AU	black	beryllium copper gold plated	0,68	0,62	0,59
930308701	MBI 1 AU	red	beryllium copper gold plated	0,68	0,62	0,59

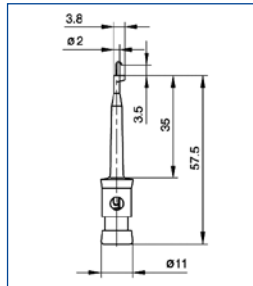
**Miniature Clamp-Type Test Probes : KLEPS 2**

Miniature clamp-type test probe with solder connection. Gold-plated sprung bronze contact hook for wires up to a maximum diameter of 2 mm. Remove actuator button for soldering, when cable is connected, press back on until it engages.



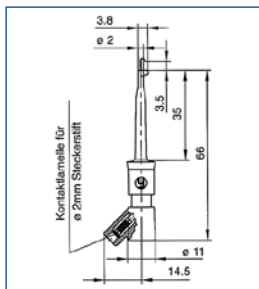
► **Specification:**

- Operating voltage:** 60 V DC
- Working current:** 6 A
- Contact resistance:** 15 mΩ
- Temperature range:** -25°C up to +100°C
- Termination:** solder
- Clamping range:** Ø 2mm
- Clamp type:** Contact hook



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
931467100	KLEPS 2	black	1,51	1,37	1,31
931467101	KLEPS 2	red	1,51	1,37	1,31

Miniature Test Probes : KLEPS 2 BU

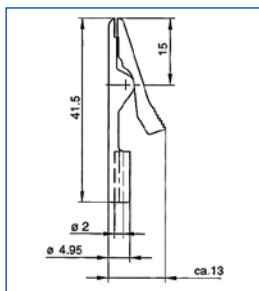


Miniature clamp-type test probe with 2 mm diameter socket connection. Gold-plated copper beryllium contact spring. Gold-plated sprung bronze contact hook for wires up to a maximum diameter of 2 mm. Suitable for connection to wrap posts up to a maximum of 1x1 mm.

- **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 6 A
- Contact resistance:** 15 mΩ
- Temperature range:** -25°C up to +100°C
- Termination:** solder
- Clamping range max.:** Ø 2mm
- Clamp type:** Contact hook

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
973501100	KLEPS 2 BU	black	2,66	2,42	2,32
973501101	KLEPS 2 BU	red	2,66	2,42	2,32

Miniature Alligator Clips : MA 1

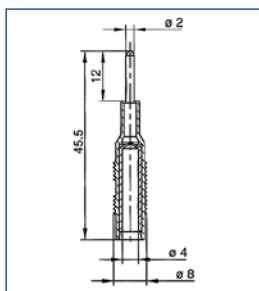


Miniature crocodile clip with unbreakable insulation. Nickel-plated brass jaws. The flat part of the jaws (fine wire section) allows a secure contact to be made when clamping even the thinnest wires. Capable of clamping flat components (soldering eyes) and wires up to a maximum diameter of 4 mm.

- **Specification:**
- Operating voltage:** 60 V DC
- Contact resistance:** 5 mΩ
- Temperature range:** -25°C up to +100°C
- Termination:** 2mm jack
- Clamping range:** up to 4mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930317100	MA 1	black	0,84	0,76	0,73
930317101	MA 1	red	0,84	0,76	0,73

Injection-Moulded Adapter Plugs : MZS 2



Injection-moulded adapter plug from 2 mm diameter plug to 4 mm diameter socket.

- **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 6 A
- Contact resistance:** 6 mΩ
- Temperature range:** -20°C up to +60°C
- Termination:** pin Ø 2mm + jack Ø 4mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
973600100	MZS 2	black	0,97	0,88	0,84
973600101	MZS 2	red	0,97	0,88	0,84

**Safety Connector : MST S WS 30**

Safety connector for tower construction with soldering connection for leads from 0.5 sqmm to 1.0 sqmm, outer diameter of lead max. 2.9 mm. Plug 2 mm with caged spring, 1000 V-system, IEC 61010.

1000V  
Safety



**NEW**

► **Specification:**

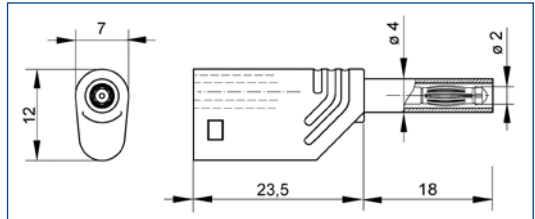
- Contact material:** Copper beryllium, gold plated
- Operating voltage:** 1000 V AC/DC
- Working current:** 10 A
- Contact resistance:** 2 mΩ
- Temperature range:** -25°C up to +70°C
- Termination:** solder



975090704



975090702



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
975090700	MST S WS 30 Au	black	1,22	1,11	1,06
975090701	MST S WS 30 Au	red	1,22	1,11	1,06
975090702	MST S WS 30 Au	blue	1,22	1,11	1,06
975090703	MST S WS 30 Au	yellow	1,22	1,11	1,06
975090704	MST S WS 30 Au	green	1,22	1,11	1,06

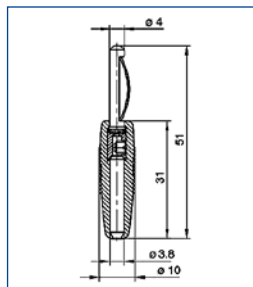
**Fully Mating Connector : VON 20**

Fully mating connector, shatter-proof, flexible insulating sleeve. The tapering sleeve end also serves as kinking protection for the lead. Screw connection up to maximum cable cross-section of 1.5 mm<sup>2</sup>. Nickel-plated brass contact material.



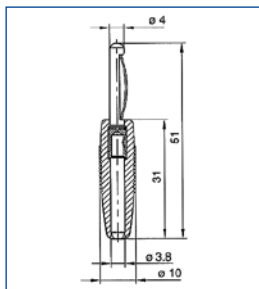
► **Specification:**

- Operating voltage:** 60 V DC
- Working current:** 16 A
- Contact resistance:** 3 mΩ
- Temperature range:** -25°C up to +70°C
- Termination:** screw



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930046100	VON 20	black	0,52	0,47	0,45
930046101	VON 20	red	0,52	0,47	0,45
930046103	VON 20	yellow	0,52	0,47	0,45

Fully Mating Connector : VON 30

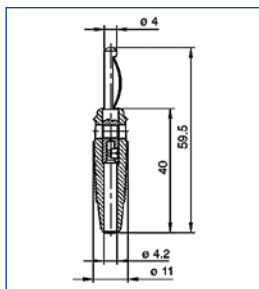


Fully mating connector, shatter-proof, flexible insulating sleeve. The tapering sleeve end also serves as kinking protection for the lead. Solder connection up to maximum cable cross-section of 2.5 mm<sup>2</sup>. Nickel-plated brass contact material.

- **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 30 A
- Contact resistance:** 3 mΩ
- Temperature range:** -25°C up to +70°C
- Termination:** solder

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930047100	VON 30	black	0,48	0,43	0,42
930047101	VON 30	red	0,48	0,43	0,42
930047102	VON 30	blue	0,48	0,43	0,42

Fully Mating Connector with Transverse Hole : VQ 20

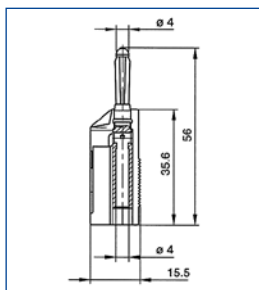


Fully mating connector, shatter-proof, flexible insulating sleeve with transverse hole. The tapering sleeve end also serves as kinking protection for the lead. Screw connection up maximum cable cross-section of 1.5 mm<sup>2</sup>. Nickel-plated brass contact material.

- **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 16 A
- Contact resistance:** 3 mΩ
- Temperature range:** -25°C up to +70°C
- Termination:** screw

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930058100	VQ 20	black	0,59	0,54	0,52
930058101	VQ 20	red	0,59	0,54	0,52
930058102	VQ 20	blue	0,59	0,54	0,52

Multiple-Spring Wire Plug : BSB 20 K



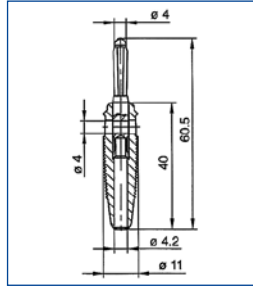
Multiple-spring wire plug with longitudinal or transverse cable entry in tower construction. Screw connection up to maximum cable cross-section for 2.5 qmm and external diameter of 4 mm. Nickel-plated brass contact material.

- **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 30 A
- Contact resistance:** 3 mΩ
- Temperature range:** -25°C up to +100°C
- Termination:** screw

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930729100	BSB 20 K	black	0,91	0,83	0,80
930729101	BSB 20 K	red	0,91	0,83	0,80
930729102	BSB 20 K	blue	0,91	0,83	0,80
930729103	BSB 20 K	yellow	0,91	0,83	0,80
930729104	BSB 20 K	green	0,91	0,83	0,80

**Multiple-Spring Wire Plug : BÜLA 20 K**

Multiple-spring wire plug, shatter-proof, flexible insulating sleeve with transverse hole. The tapering sleeve end also serves as kinking protection for the lead. Screw connection up to maximum cable cross-section of 1.5 qmm. Nickel-plated brass contact material.



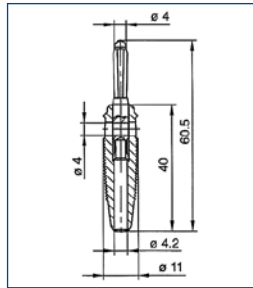
► **Specification:**

- Operating voltage:** 60 V DC
- Working current:** 16 A
- Contact resistance:** 3 mΩ
- Temperature range:** -25°C up to +70°C
- Termination:** screw

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930726100	BÜLA 20 K	black	0,58	0,53	0,51
930726101	BÜLA 20 K	red	0,58	0,53	0,51
930726102	BÜLA 20 K	blue	0,58	0,53	0,51
930726103	BÜLA 20 K	yellow	0,58	0,53	0,51
930726104	BÜLA 20 K	green	0,58	0,53	0,51

**Multiple-Spring Wire Plug : BÜLA 30 K**

Multiple-spring wire plug, shatter-proof, flexible insulating sleeve with transverse hole. The tapering sleeve end also serves as kinking protection for the lead. Screw connection up to maximum cable cross-section of 2.5 qmm. Nickel-plated brass contact material.

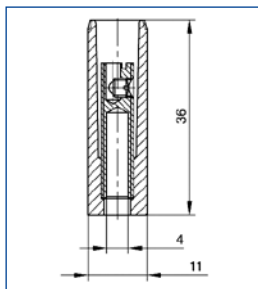


► **Specification:**

- Operating voltage:** 60 V DC
- Working current:** 30 A
- Contact resistance:** 3 mΩ
- Temperature range:** -25°C up to +70°C
- Termination:** solder

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930727100	BÜLA 30 K	black	0,54	0,49	0,47
930727101	BÜLA 30 K	red	0,54	0,49	0,47
930727102	BÜLA 30 K	blue	0,54	0,49	0,47
930727103	BÜLA 30 K	yellow	0,54	0,49	0,47
930727104	BÜLA 30 K	green	0,54	0,49	0,47

Insulated Couplings : KUN 10



Insulated coupling for a 4 mm diameter plug and screw connection up to cable cross-section of 1.5<sup>2</sup>. Tin-plated brass socket. The socket is screwed into the insulated handle.

- **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 16 A
- Contact resistance:** 3 mΩ
- Temperature range:** -25°C up to +70°C
- Termination:** Ø 4mm plug, screw

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930189100	KUN 10	black	0,67	0,61	0,58
930189101	KUN 10	red	0,67	0,61	0,58

Couplings : KUN 30

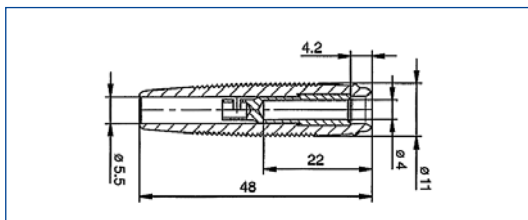


931804100

931804702

Shatter-proof, flexible, insulated coupling for a 4 mm diameter plug and solder connection up to a cable cross-section of 2.5 qmm.

- **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 16 A
- Contact resistance:** 3 mΩ
- Temperature range:** -25°C up to +70°C
- Termination:** Ø 4mm plug, solder



Item:	Type:	Colour:	Contact material:	≥ 1	≥ 10	≥ 50
931804100	KUN 30	black	brass tin plated	0,50	0,45	0,43
931804101	KUN 30	red	brass tin plated	0,50	0,45	0,43
931804102	KUN 30	blue	brass tin plated	0,50	0,45	0,43
931804103	KUN 30	yellow	brass tin plated	0,50	0,45	0,43
931804104	KUN 30	green	brass tin plated	0,50	0,45	0,43
931804700	KUN 30 Au	black	brass gold plated	0,90	0,82	0,79
931804701	KUN 30 Au	red	brass gold plated	0,90	0,82	0,79
931804702	KUN 30 Au	blue	brass gold plated	0,90	0,82	0,79
931804703	KUN 30 Au	yellow	brass gold plated	0,90	0,82	0,79
931804704	KUN 30 Au	green	brass gold plated	0,90	0,82	0,79



**Sockets with insulated Head : BIL 20**

Socket with insulated head and ring for installation in equipment chassis and switchpanels with a wall thickness up to 2 mm. 4 mm diameter socket, with solder connection.



► **Specification:**

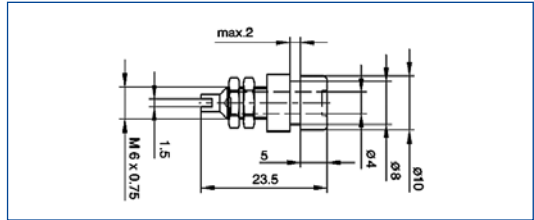
- Operating voltage:** 60 V DC
- Working current:** 32 A
- Contact resistance:** 5 mΩ
- Temperature range:** -25°C up to +85°C
- Termination:** solder
- Installation hole:** Ø 8mm



930176700



930176103



Item:	Type:	Colour:	Contact material:	≥ 1	≥ 10	≥ 50
930176100	BIL 20	black	brass tin plated	0,55	0,50	0,48
930176101	BIL 20	red	brass tin plated	0,55	0,50	0,48
930176102	BIL 20	blue	brass tin plated	0,55	0,50	0,48
930176103	BIL 20	yellow	brass tin plated	0,55	0,50	0,48
930176104	BIL 20	green	brass tin plated	0,55	0,50	0,48
930176700	BIL 20 Au	black	brass gold plated	1,20	1,09	1,05
930176701	BIL 20 Au	red	brass gold plated	1,20	1,09	1,05
930176702	BIL 20 Au	blue	brass gold plated	1,20	1,09	1,05
930176703	BIL 20 Au	yellow	brass gold plated	1,20	1,09	1,05
930176704	BIL 20 Au	green	brass gold plated	1,20	1,09	1,05

**Sockets with insulated Head : BIL 30**

Socket with insulated head and ring for installation in equipment chassis and switchpanels with a wall thickness up to 4 mm. 4 mm diameter socket, with solder connection.



► **Specification:**

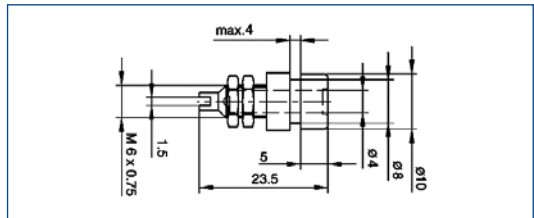
- Operating voltage:** 60 V DC
- Working current:** 32 A
- Contact resistance:** 5 mΩ
- Temperature range:** -25°C up to +85°C
- Termination:** solder
- Installation hole:** Ø 8mm



930166701



930166100



Item:	Type:	Colour:	Contact material:	≥ 1	≥ 10	≥ 50
930166100	BIL 30	black	brass tin plated	0,57	0,52	0,50
930166101	BIL 30	red	brass tin plated	0,57	0,52	0,50
930166700	BIL 30 Au	black	brass gold plated	1,19	1,08	1,04
930166701	BIL 30 Au	red	brass gold plated	1,19	1,08	1,04

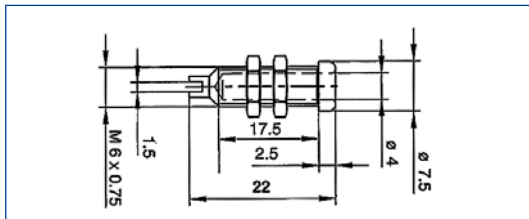
**Sockets : BU 10**



930147000



930147700

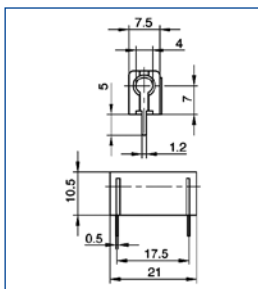


Bright metal 4 mm diameter socket with solder connection.

- **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 16 A
- Contact resistance:** 5 mΩ
- Temperature range:** -25°C up to +100°C
- Termination:** solder
- Installation hole:** Ø 6mm

Item:	Type:	Contact material:	≥ 1	≥ 10	≥ 50
930147000	BU 10	brass tin plated	0,50	0,45	0,43
930147700	BU 10 Au	brass gold plated	1,21	1,10	1,05

**Test Sockets : PB 4**



4 mm diameter test socket for measuring and testing printed boards during operation. The test socket may also be mounted on the printed board using a BZ 2.2 DIN 7971 pan-head, self-tapping screw. Tin-plated brass through-hole 4 mm diameter socket.

- **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 16 A
- Contact resistance:** 5 mΩ
- Temperature range:** -25°C up to +85°C
- Termination:** solder

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
973582100	PB 4	black	0,93	0,85	0,81
973582101	PB 4	red	0,93	0,85	0,81

**Pole Clamps : PKI 10 A**

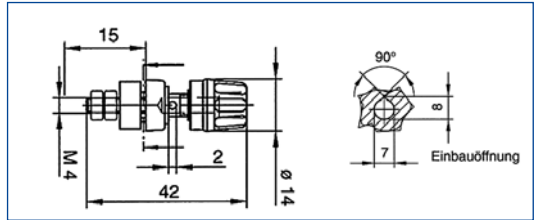
Pole terminal with claw edge and captive insulated head and insulating ring. 4 mm diameter brass threaded bolt with 2 mm diameter transverse hole. For insulated, non-rotating installation in equipment chassis and switchpanels with a wall thickness up to 2 mm.



930103701



930103103



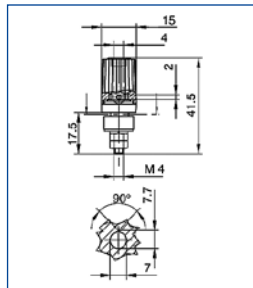
► **Specification:**

- Operating voltage:** 60 V DC
- Working current:** 35 A
- Contact resistance:** 2 mΩ
- Temperature range:** -25°C up to +100°C
- Termination:** M4 thread
- Installation hole:** see diagram

Item:	Type:	Colour:	Contact material:	≥ 1	≥ 10	≥ 50
930103100	PKI 10 A	black	brass tin plated	1,71	1,55	1,49
930103101	PKI 10 A	red	brass tin plated	1,71	1,55	1,49
930103102	PKI 10 A	blue	brass tin plated	1,71	1,55	1,49
930103103	PKI 10 A	yellow	brass tin plated	1,71	1,55	1,49
930103700	PKI 10 A Au	black	brass gold plated	2,62	2,39	2,28
930103701	PKI 10 A Au	red	brass gold plated	2,62	2,39	2,28
930103702	PKI 10 A Au	blue	brass gold plated	2,62	2,39	2,28
930103703	PKI 10 A Au	yellow	brass gold plated	2,62	2,39	2,28

**Pole Clamps : PKI 100**

Pole terminal with captive insulating head, which is held under constant pressure against the insulating rings by a spring. 4 mm diameter nickel-plated, brass threaded bolt with 2 mm diameter transverse hole. For non-rotating installation in switchpanels and equipment chassis with wall thicknesses up to 3.5 mm.

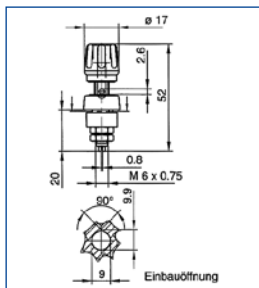


► **Specification:**

- Operating voltage:** 600 V AC/DC
- Working current:** 35 A
- Contact resistance:** 2 mΩ
- Temperature range:** -25°C up to +100°C
- Termination:** M4 Thread
- Installation hole:** see diagram

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930757100	PKI 100	black	1,38	1,26	1,20
930757102	PKI 100	blue	1,38	1,26	1,20

**Pole Clamps : PKNI 10 B**

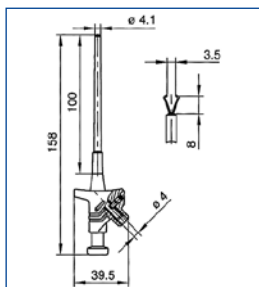


Pole terminal with claw edge and captive insulated head and insulating ring. 4 mm diameter nickel-plated brass threaded bolt with 2.6 mm diameter transverse hole. For insulated, non-rotating installation in equipment chassis and switchpanels with a wall thickness up to 3.6 mm.

- Operating voltage:** 60 V DC
- Working current:** 63 A
- Contact resistance:** 2 mΩ
- Temperature range:** -25°C up to +100°C
- Termination:** M6 thread
- Installation hole:** see diagram

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930136100	PKNI 10 B	black	2,96	2,69	2,58
930136101	PKNI 10 B	red	2,96	2,69	2,58

**Clamp-Type Test Probes : KLEPS 30**

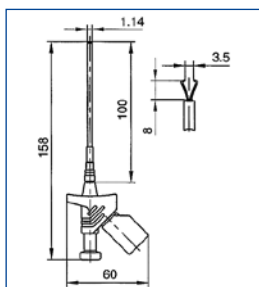


Clamp-type test probe with rotating grip jaws and flexible shaft. The special form of the grip jaws allows clamping of pins and wires up to a maximum of 4 mm diameter. 4 mm diameter brass socket connection with side screw, grip jaws additionally nickel-plated.

- ▶ **Specification:**
- Operating voltage:** 60 V DC
- Contact resistance:** 50 mΩ
- Temperature range:** -25°C up to +80°C
- Termination:** Ø 4mm jack, screw
- Clamping range max.:** Ø 4mm
- Clamp type:** rotating grip jaws

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930113100	KLEPS 30	black	3,30	3,00	2,88
930113101	KLEPS 30	red	3,30	3,00	2,88

**Clamp-Type Test Probes : KLEPS 250**



Contact-protected clamp-type test probe with rotating grip jaws and flexible shaft. The grip jaws allows clamping of pins and wires up to a max. 4 mm diameter. Brass 4 mm diameter contact-protected socket connection. Connects with sliding sleeve measuring leads.

- ▶ **Specification:**
- Operating voltage:** 300 V AC/DC
- Pollution severity:** 2
- Contact resistance:** 100 mΩ
- Temperature range:** -25°C up to +80°C
- Termination:** Ø 4mm jack
- Clamping range max.:** Ø 4mm
- Clamp type:** rotating grip jaws

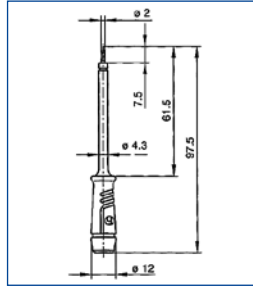
Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
973528100	KLEPS 250	black	5,24	4,77	4,57
973528101	KLEPS 250	red	5,24	4,77	4,57

**Test Probes : PRÜF 2**

Test probe with elastic, shatter-proof insulating sleeve. Insulation and oxide layers can be penetrated by the slender stainless steel tip. 4 mm diameter brass socket connection.



- **Specification:**
- Operating voltage:** 60 V DC
- Contact resistance:** 50 mΩ
- Temperature range:** -25°C up to +80°C
- Termination:** Ø 4mm jack
- Test probe:** rigid



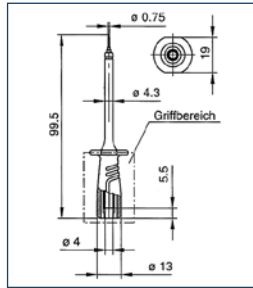
Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
973368100	PRÜF 2	black	0,92	0,84	0,80
973368101	PRÜF 2	red	0,92	0,84	0,80

**Test Probes : PRÜF 2610 FT**

Test probe with elastic, shatter-proof insulating sleeve and slender, sprung stainless steel tip. This means that a constant pressure is ensured without the probe slipping off, even on the smallest measuring points. Connects with 4 mm standard laboratory equipments and safety laboratory equipment.



- **Specification:**
- Operating voltage:** 1000 V AC/DC (1500 V AC/DC / 8 kV)
- Overvoltage category:** 3
- Pollution severity:** 2
- Contact resistance:** 50 mΩ
- Temperature range:** -25°C up to +80°C
- Termination:** Ø 4mm jack
- Test probe:** sprung



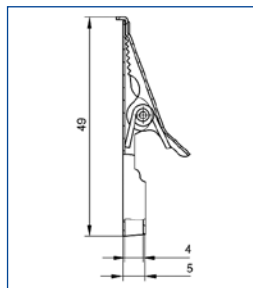
Item:	Bezeichnung:	Colour:	≥ 1	≥ 10	≥ 50
972318100	PRÜF 2610 FT	black	3,89	3,54	3,39
972318101	PRÜF 2610 FT	red	3,89	3,54	3,39

**Alligator Clips : AGF 20**

Nickel-plated steel crocodile clip. The special shape allows clamping of both extremely fine and thick wires. Maximum bolt diameter 10 mm. 4 mm diameter socket connection and solder connection possible.

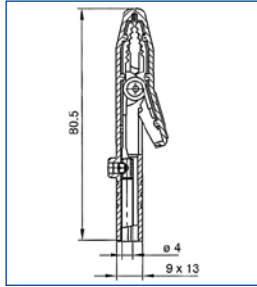


- **Specification:**
- Operating voltage:** 60 V DC
- Contact resistance:** 15 mΩ
- Temperature range:** -25°C up to +100°C
- Termination:** 4mm jack, solder
- Test probe:** 10 mm



Item:	Type:	≥ 1	≥ 10	≥ 50
930120000	AGF 20	0,46	0,42	0,40

Alligator Clips : AK 2 S

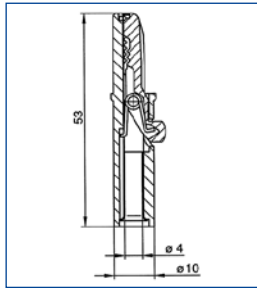


Insulated, unbreakable crocodile clip. Clamping range up to 9.5 mm bolt diameter. The flat part of the jaws (fine wire section) allows even the finest wires to be clamped. 4 mm diameter socket connection and screw connection up to 1.5 qmm.

- **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 25 A
- Contact resistance:** 10 mΩ
- Temperature range:** -25°C up to +80°C
- Termination:** Ø 4mm jack, screw
- Clamping range max.:** 9.5mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932146100	AK 2 S	black	1,45	1,32	1,27
932146101	AK 2 S	red	1,45	1,32	1,27

Alligator Clips : AK 10



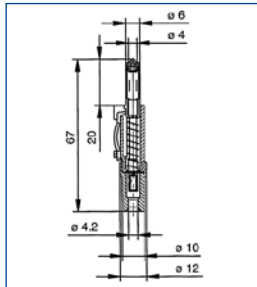
Insulated crocodile clip. Clamping range up to 6 mm bolt diameter. Fine wire section for very thin wires. Only the lower part of the clip has a tin-plated, brass contact insert. 4 mm diameter socket connection.

- **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 6 A
- Contact resistance:** 15 mΩ
- Temperature range:** -25°C up to +60°C
- Termination:** Ø 4mm jack
- Clamping range max.:** 6 mm

930126103

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930126100	AK 10	black	0,55	0,50	0,48
930126101	AK 10	red	0,55	0,50	0,48
930126103	AK 10	yellow	0,55	0,50	0,48

Laboratory Plug : SLS 10 B



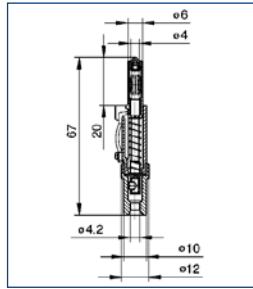
Laboratory plug, protected against contact, may be made up into cables with solder connection for cross-sections up to 2.5 qmm, insulated by latching and sprung insulating sleeve which is only released by pressure on the side-mounted locking spring. 4 mm diameter.

- **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 30 A
- Contact resistance:** 5 mΩ
- Temperature range:** -25°C up to +80°C
- Termination:** solder

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
931824100	SLS 10 B	black	1,94	1,77	1,69

**Laboratory Plug : SLS 20 B**

Laboratory plug, protected against contact, may be made up into cables with screw connection for cross-sections up to 1.5 qmm, insulated by latching and sprung insulating sleeve which is only released by pressure on the side-mounted locking spring. 4 mm diameter.



► **Specification:**

- Operating voltage:** 300 V
- Overvoltage category:** 2
- Pollution severity:** 2
- Working current:** 16 A
- Contact resistance:** 5 mΩ
- Temperature range:** -25°C up to +80°C
- Termination:** screw

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
931825100	SLS 20 B	black	2,21	2,01	1,92
931825101	SLS 20 B	red	2,21	2,01	1,92

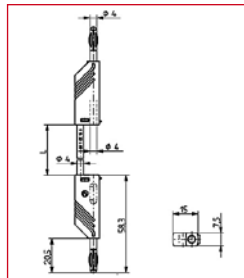
SKS Laboratory Program

4 mm Measuring Leads MLN-Series

**Information**

**4 mm Measuring Leads MLN-Series**

Injection-moulded measuring lead, at either end: 4 mm diameter plug with caged spring and 4 mm diameter socket for tower construction. Nickel-plated copper beryllium contact spring. Highly flexible, double insulated stranded lead, grip and lead shatter-proof.



MLNxx

**Measuring Leads : MLN 25 / 1**

Cross-section: 1.0 qmm / Length: 25 cm / PVC

► **Specification:**

- Operating voltage:** 60 V DC
- Working current:** 16 A
- Contact resistance:** 8.5 mΩ
- Temperature range:** -15°C up to +70°C
- Termination:** pin and jack 4mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934058100	MLN 25/1	black	1,86	1,69	1,62
934058101	MLN 25/1	red	1,86	1,69	1,62
934058102	MLN 25/1	blue	1,86	1,69	1,62
934058104	MLN 25/1	green	1,86	1,69	1,62

**Measuring Leads : MLN 50 / 1**

Cross-section: 1.0 qmm / Length: 50 cm / PVC

- ▶ **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 16 A
- Contact resistance:** 13 mΩ
- Temperature range:** -15°C up to +70°C
- Termination:** pin and jack 4mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934060100	MLN 50/1	black	2,10	1,91	1,83
934060101	MLN 50/1	red	2,10	1,91	1,83
934060102	MLN 50/1	blue	2,10	1,91	1,83
934060103	MLN 50/1	yellow	2,10	1,91	1,83
934060104	MLN 50/1	green	2,10	1,91	1,83

**Measuring Leads : MLN 100 / 1**

Cross-section: 1.0 qmm / Length: 100 cm / PVC

- ▶ **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 16 A
- Contact resistance:** 22 mΩ
- Temperature range:** -15°C up to +70°C
- Termination:** pin and jack 4mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934062100	MLN 100/1	black	2,35	2,14	2,05
934062101	MLN 100/1	red	2,35	2,14	2,05
934062102	MLN 100/1	blue	2,35	2,14	2,05
934062103	MLN 100/1	yellow	2,35	2,14	2,05
934062104	MLN 100/1	green	2,35	2,14	2,05

**Measuring Leads : MLN 150 / 1**

Cross-section: 1.0 qmm / Length: 150 cm / PVC

- ▶ **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 16 A
- Contact resistance:** 34 mΩ
- Temperature range:** -15°C up to +70°C
- Termination:** pin and jack 4mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934064100	MLN 150/1	black	2,66	2,42	2,32
934064101	MLN 150/1	red	2,66	2,42	2,32
934064102	MLN 150/1	blue	2,66	2,42	2,32

**Measuring Leads : MLN 200 / 1**

Cross-section: 1.0 qmm / Length: 200 cm / PVC

- ▶ **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 16 A
- Contact resistance:** 40 mΩ
- Temperature range:** -15°C up to +70°C
- Termination:** pin and jack 4mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934065100	MLN 200/1	black	2,99	2,72	2,61
934065101	MLN 200/1	red	2,99	2,72	2,61



**Measuring Leads : MLN 100 / 2.5**

Cross-section: 2.5 qmm / Length: 100 cm / PVC

► **Specification:**

**Operating voltage:** 60 V DC  
**Working current:** 32 A  
**Contact resistance:** 12 mΩ  
**Temperature range:** -15°C up to +70°C  
**Termination:** pin and jack 4mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934063100	MLN 100/2,5	black	2,44	2,22	2,13
934063101	MLN 100/2,5	red	2,44	2,22	2,13
934063102	MLN 100/2,5	blue	2,44	2,22	2,13

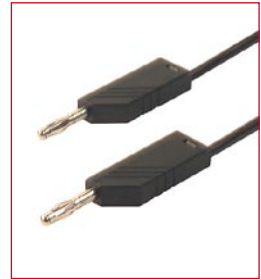
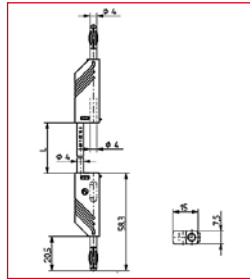
**SKS Laboratory Program**

4 mm Measuring Leads MLN SIL-Series

**Information**

**4 mm Measuring Leads MLN SIL-Series**

Injection-moulded silicon measuring lead, at either end: 4 mm diameter plug with caged spring and 4 mm diameter socket for tower construction. Nickel-plated copper beryllium contact spring. Highly flexible, double insulated stranded lead, short-term resistance to soldering iron grip and lead shatter-proof.



MLN SILxx

**Silicone Measuring Leads : MLN SIL 100 / 1**

Cross-section: 1.0 qmm / Length: 100 cm / Silicon

► **Specification:**

**Operating voltage:** 60 V DC  
**Working current:** 16 A  
**Contact resistance:** 22 mΩ  
**Temperature range:** -15°C up to +70°C  
**Termination:** pin and jack 4mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934092100	MLN SIL 100/1	black	3,03	2,76	2,64
934092101	MLN SIL 100/1	red	3,03	2,76	2,64

**Silicone Measuring Leads : MLN SIL 150 / 1**

Cross-section: 1.0 qmm / Length: 150 cm / Silicon

► **Specification:**

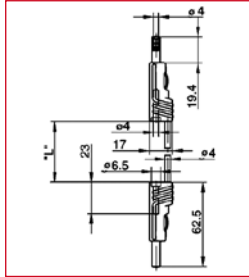
**Operating voltage:** 60 V DC  
**Working current:** 16 A  
**Contact resistance:** 34 mΩ  
**Temperature range:** -15°C up to +70°C  
**Termination:** pin and jack 4mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934093100	MLN SIL 150/1	black	3,31	3,01	2,89
934093101	MLN SIL 150/1	red	3,31	3,01	2,89

**Information**



MLBxx



**4 mm Measuring Leads MLB-Series**

Contact-protected measuring lead, at either end: 4 mm diameter plug, insulated by latching and sprung insulating sleeve which is only released by pressure on the side-mounted locking spring. 4 mm diameter nickel-plated copper beryllium contact spring. Highly flexible, double insulated stranded conductor.

**Contact-Protected Measuring Leads : MLB 100 / 1 V**

Cross-section: 1.0 qmm / length: 100 cm / PVC

- ▶ **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 16 A
- Contact resistance:** 22 mΩ
- Temperature range:** -15°C up to +70°C
- Termination:** pin and jack Ø 4mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
973646100	MLB 100/1 V	black	5,51	5,01	4,80
973646101	MLB 100/1 V	red	5,51	5,01	4,80
973646103	MLB 100/1 V	yellow	5,51	5,01	4,80

**Contact-Protected Measuring Leads : MLB 200 / 1 V**

Cross-section: 1.0 qmm / length: 200 cm / PVC

- ▶ **Specification:**
- Operating voltage:** 60 V DC
- Working current:** 16 A
- Contact resistance:** 40 mΩ
- Temperature range:** -15°C up to +70°C
- Termination:** pin and jack Ø 4mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
973647100	MLB 200/1 V	black	6,07	5,52	5,29
973647101	MLB 200/1 V	red	6,07	5,52	5,29
973647102	MLB 200/1 V	blue	6,07	5,52	5,29

**Safety Built-In Sockets : SEB 2600 G M4**

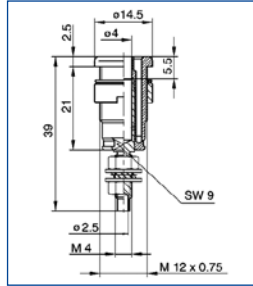
1000V  
Safety



Safety built-in socket, 4 mm diameter, contact-protected, with M4 threaded connection and soldering hole, gold-plated brass. For installation into switchpanels with wall thick-nesses up to 6 mm. Connects with safety measuring leads.

► **Specification:**

- Operating voltage:** 1000 V AC/DC
- Overvoltage category:** 2
- Pollution severity:** 2
- Working current:** 32 A
- Contact resistance:** 5 mΩ
- Temperature range:** -40°C up to +80°C
- Termination:** Screw mount terminal, M4, solder
- Installation hole:** Ø 12.2 mm
- Tightening torque:** 50 Ncm



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
972354100	SEB 2600 G M4	black	1,43	1,30	1,25
972354101	SEB 2600 G M4	red	1,43	1,30	1,25
972354102	SEB 2600 G M4	blue	1,43	1,30	1,25
972354103	SEB 2600 G M4	yellow	1,43	1,30	1,25
972354188	SEB 2600 G M4	yellow/green	1,61	1,47	1,41

**Safety Built-In Sockets : SEB 2610 F 4.8**

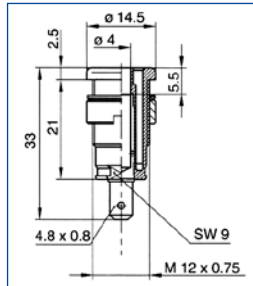
1000V  
Safety



Safety built-in socket, 4 mm diameter, contact-protected, with 4.8 x 0.8 tab connector complying with DIN46244, gold-plated brass. For installation into switchpanels with wall thick-nesses up to 6 mm.

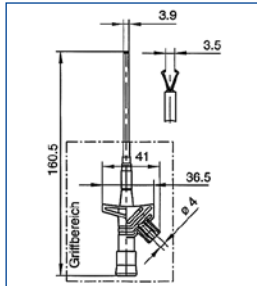
► **Specification:**

- Operating voltage:** 1000 V AC/DC
- Overvoltage category:** 2
- Pollution severity:** 2
- Working current:** 24 A
- Contact resistance:** 5 mΩ
- Temperature range:** -40°C up to +80°C
- Termination:** Flachsteck 4.8 x 0.8
- Installation hole:** Ø 12,2mm
- Tightening torque:** 50 Ncm



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
972355100	SEB 2610 F 4.8	black	0,88	0,80	0,77
972355101	SEB 2610 F 4.8	red	0,88	0,80	0,77
972355102	SEB 2610 F 4.8	blue	0,88	0,80	0,77

## Clamp-Type Test Probes : KLEPS 2600

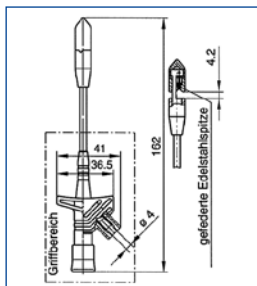
1000V  
Safety

Safety clamp-type test probe with rotating grip jaws and flexible shaft. Wires and pins with up to a maximum diameter of 4 mm can be clamped thanks to the special form of the grip jaws. 4 mm diameter brass socket connection.

- **Specification:**
- Operating voltage:** 1000 V AC/DC
- Overvoltage category:** 3
- Pollution severity:** 2
- Contact resistance:** 50 mΩ
- Temperature range:** -25°C up to +80°C
- Termination:** Ø 4mm jack
- Clamping range max.:** Ø 4mm
- Clamp type:** rotating grip jaws

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
972306100	KLEPS 2600	black	5,01	4,56	4,37
972306101	KLEPS 2600	red	5,01	4,56	4,37

## Clamp-Type Test Probes : KLEPS 2700

1000V  
Safety

Safety clamp-type test probe with split test clamp. The sprung stainless steel tip can contact insulated leads with cross-sections between 0.25 qmm and 1.5 qmm (diameter 3.5 mm) without the need to strip them. 4 mm diameter brass socket connection.

- **Specification:**
- Operating voltage:** 1000 V AC/DC
- Overvoltage category:** 3
- Pollution severity:** 2
- Working current:** 10 A
- Contact resistance:** 100 mΩ
- Temperature range:** -25°C up to +80°C
- Termination:** 4mm jack
- Clamping range max.:** 1,5mm<sup>2</sup>
- Clamp type:** Stainless steel tip

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
972307100	KLEPS 2700	black	6,98	6,35	6,09
972307101	KLEPS 2700	red	6,98	6,35	6,09

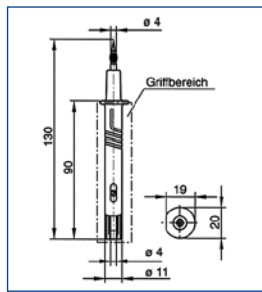
**Test Probes : PRÜF 2700**

1000V  
Safety



Safety test probe with dual function. Tip for penetrating insulation and oxide layers and 4 mm diameter pin for insertion in sockets. 4 mm diameter brass socket connection. Connects with safety measuring leads.

- **Specification:**
- Operating voltage:** 1000 V AC/DC (1500 V AC/DC / 8 kV)
- Overvoltage category:** 3
- Pollution severity:** 2
- Duchgangswiderstand:** 2 mΩ
- Temperature range:** -25°C up to +80°C
- Termination:** Ø 4mm jack
- Test probe:** Ø 4mm pin



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
972319100	PRÜF 2700	black	2,94	2,67	2,56
972319101	PRÜF 2700	red	2,94	2,67	2,56

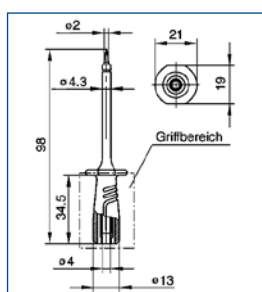
**Test Probes with insulated Sleeve : PRÜF 2600**

1000V  
Safety



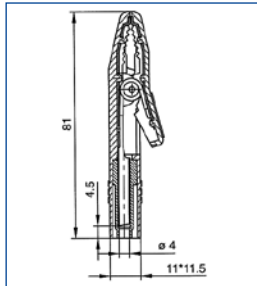
Test probe with elastic, shatter-proof insulating sleeve and slender stainless steel tip. Tip for penetration of insulation and oxide layers. 4 mm diameter brass socket connection. Connects with safety measuring leads.

- **Specification:**
- Operating voltage:** 1000 V AC/DC (1500 V AC/DC / 8 kV)
- Overvoltage category:** 3
- Pollution severity:** 2
- Contact resistance:** 50 mΩ
- Temperature range:** -25°C up to +80°C
- Termination:** Ø 4mm jack
- Test probe:** rigid



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
972317100	PRÜF 2600	black	2,02	1,83	1,76
972317101	PRÜF 2600	red	2,02	1,83	1,76

## Alligator Clips : AK 2 B

1000V  
Safety

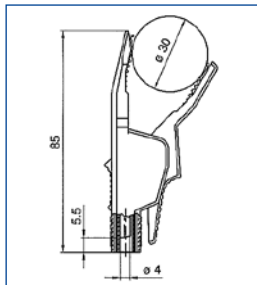
Contact-protected, unbreakable crocodile clip. Clamping range up to a bolt diameter of 9.5 mm. The flat section of the clamping jaws allows extremely fine wires to be clamped. 4 mm diameter brass socket connection.

## ► Specification:

<b>Operating voltage:</b>	300 V AC/DC
<b>Overvoltage category:</b>	2
<b>Pollution severity:</b>	2
<b>Working current:</b>	25 A
<b>Contact resistance:</b>	10 mΩ
<b>Temperature range:</b>	-25°C up to +80°C
<b>Termination:</b>	4mm jack
<b>Clamping range:</b>	Ø 9,5mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932435100	AK 2 B	black	1,84	1,67	1,60
932435101	AK 2 B	red	1,84	1,67	1,60

## Alligator Clips : AK 2 B 2540

1000V  
Safety

Contact-protected, unbreakable, wide-opening crocodile clip. Clamping range up to a bolt diameter of 30 mm. Solid wire clip, U-shaped, fine wire face; 4 mm diameter brass socket connection, suitable for use with safety-type measuring leads.

## ► Specification:

<b>Operating voltage:</b>	1000 V
<b>Overvoltage category:</b>	2
<b>Pollution severity:</b>	2
<b>Working current:</b>	34 A
<b>Contact resistance:</b>	10 mΩ max.
<b>Temperature range:</b>	-30°C up to +90°C
<b>Termination:</b>	4mm jack
<b>Clamping range:</b>	Ø 30mm

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
972405100	AK 2 B 2540	black	2,58	2,35	2,25
972405101	AK 2 B 2540	red	2,58	2,35	2,25

**Service Set Electronic**



**NEW**

Plastic suitcase with high valued measurement equipment for all responsibilities of development, service and schooling.

- ▶ space saving
- ▶ time saving handling
- ▶ flexible in application
- ▶ from professionals to professionals

▶ **Basic schedule:**

- 972318100 PRÜF 2610 FT black
- 972318101 PRÜF 2610 FT red
- 973995101 MICRO-PRUEF MPS 2 0.64 FT black
- 973995100 MICRO-PRUEF MPS 2 0.64 FT red
- 973972100 MICRO-KLEPS black
- 973972101 MICRO-KLEPS red
- 972416100 MICRO-SMD Clip
- 974201100 KLEPS 064 PCH black
- 974201101 KLEPS 064 PCH red
- 974201102 KLEPS 064 PCH blue
- 974201103 KLEPS 064 PCH yellow
- 974201104 KLEPS 064 PCH green
- 974201106 KLEPS 064 PCH white
- 974201107 KLEPS 064 PCH grey
- 973599100 MZS 4 black
- 973599101 MZS 4 red
- 973889100 MA 260 SH black
- 973889101 MA 260 SH red
- 932435188 AK 2 B yellow/green
- 974401000 TKO Pos 2
- 934160100 MAL N 4-0.64/100-0.25 black
- 934160101 MAL N 4-0.64/100-0.25 red
- 973604100 MKL 0.64/25-0.25 black
- 973604101 MKL 0.64/25-0.25 red
- 934087100 MLS WS 50/2.5 black
- 934087101 MLS WS 50/2.5 red
- 934087188 MLS WS 50/2.5 green/yellow
- 933844001 BNC AL 0.64 black
- 974312000 TKO 5-PMS 221A



Item:	Description:	≥ 1	≥ 3	≥ 5
932791001	Service set „electronic“	202,88	184,31	172,38



Service Set Electric Installation

**NEW**



Plastic suitcase with high valued measurement equipment for all responsibilities of industrial installation, service, home automation and schooling.

- ▶ space saving
- ▶ time saving handling
- ▶ flexible in application
- ▶ from professionals to professionals

▶ **Basic schedule:**

- |                  |                             |
|------------------|-----------------------------|
| <b>973501100</b> | KLEPS 2 BU black            |
| <b>973501101</b> | KLEPS 2 BU red              |
| <b>972317100</b> | PRUEF 2600 black            |
| <b>972317101</b> | PRUEF 2600 red              |
| <b>972319100</b> | PRUEF 2700 black            |
| <b>972319101</b> | PRUEF 2700 red              |
| <b>972308100</b> | KLEPS 2800 black            |
| <b>972308101</b> | KLEPS 2800 red              |
| <b>973599100</b> | MZS 4 black                 |
| <b>973599101</b> | MZS 4 red                   |
| <b>934086100</b> | MLS WS 25/2.5 black         |
| <b>934086101</b> | MLS WS 25/2.5 red           |
| <b>934089100</b> | MLS WS 200/2.5 black        |
| <b>934089101</b> | MLS WS 200/2.5 red          |
| <b>934089188</b> | MLS WS 200/2.5 yellow/green |
| <b>972405188</b> | AK 2 B 2540 I yellow/green  |
| <b>973595100</b> | MVL 2/50 black              |
| <b>973595101</b> | MVL 2/50 red                |
| <b>973600100</b> | MZS 2 black                 |
| <b>973600101</b> | MZS 2 red                   |

Item:	Description:	≥ 1	≥ 3	≥ 5
932792001	Service set „electrical installation“	92,60	84,12	78,68



**Information**

**SunCon**

Whether you want to connect individual solar panels or multiple module installations, SunCon makes quick and easy connections for photovoltaic equipment that must withstand all weather conditions and ensure practically maintenance free, highly reliable, efficient operation and outstanding low-loss power transmission features. Examples include off grid applications, in private houses and farms, for outdoor use - static or tracking - or incorporated into the building design of business premises and industrial production plants.

The Hirschmann SunCon connector system is not only impressive due to its extremely quick and easy plug assembly - sensibly you only need a standard crimping tool for its installation. The SunCon connector is also impressive because of its slim design which only consists of one plastic housing and a contact element that has outstanding mechanical and electrical features.

- Pin diameter:** 5mm
- No. of contacts:** 1
- Suitable solar cable cross-section:** 2,5qmm - 4qmm
- Termination:** crimping
- Nominal voltage:** 1000 V DC
- Nominal current:** 30 A at 70°C
- Contact resistance:** < 5mΩ
- Contact plating:** tin plated
- Protection class:** IP 68
- Pollution severity:** 2
- Temperature range:** -40°C up to +110°C
- Inflammability class:** 94 V-0
- TÜV certification:** Yes



**Cable Plug : SunCon BM5258**

Cable plug, robust, elastic insulating body with locking

- Specification:**
- Suitable cables (Ø):** 5mm - 6mm
- Type of contact:** Stamp roll contact
- Contact material:** CuZn
- Housing material:** PP/TPE



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934517100	BM5258	black	1,22	1,11	1,06

**Cable Socket : SunCon BF5258**

Cable socket, robust, elastic insulating body with locking

- ▶ **Specification:**
- Suitable cables (Ø):** 5mm - 6mm
- Type of contact:** Cage contact
- Contact material:** Cu alloy
- Housing material:** PP/TPE

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934518100	BF5258	black	1,22	1,11	1,06

**Appliance Plug : SunCon BMI**

Appliance plug with locking for DC input to the inverter. Suitable for BM/BF cable plug and cable socket, including crimping contact and hexagonal nut M12 x 1.5.

- ▶ **Specification:**
- Suitable cables (Ø):** up to 6mm
- Type of contact:** Stamp roll contact
- Contact material:** CuZn
- Housing material:** PA

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934519100	BMI	black	1,37	1,25	1,19

**Appliance Socket : SunCon BFI**

Appliance socket with locking for DC input to the inverter. Suitable for BM/BF cable plug and cable socket, including crimping contact and hexagonal nut M12 x 1.5.

- ▶ **Specification:**
- Suitable cables (Ø):** up to 6mm
- Type of contact:** Cage contact
- Contact material:** Cu alloy
- Housing material:** PA

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934520100	BFI	black	1,37	1,25	1,19

**Crimping Tool : SunCon Base XZC40**

Multi-tool for cutting and stripping of solar cables (6mm) and for crimping of SunCon contacts.

- ▶ **Specification:**
- Suitable solar cable cross-section:** 4qmm with changing template

Item:	Type:	Colour:	≥ 1	≥ 3	≥ 5
934528100	Base XZC 40	black/blue	102,51	93,13	89,11

**Information**

**CA-Series**

The general-purpose CA series circular connectors easily handle tough everyday use. Dust, submersion and vibration do not adversely affect the performance for these connectors in hydraulic, pneumatic and special machinery applications. They also meet the need for metal-free housings in chemical industry.

IP67



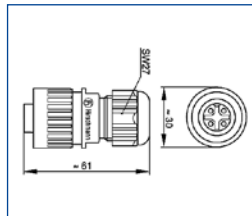
<b>Protection class (IEC 60529):</b>	IP 67
<b>Pollution severity:</b>	3
<b>Cable diameter:</b>	6mm - 12mm
<b>Cable gland:</b>	M 22 x 2
<b>Contact plating:</b>	Ag
<b>Contact bearer material:</b>	PA 66-GF 25
<b>Housing material:</b>	PA 66-GF 25
<b>O-ring:</b>	NBR
<b>Temperature range:</b>	-40°C up to +90°C
<b>Approvals:</b>	UL, VDE

**Straight Cable Sockets : CA 3 LD**

Straight cable socket, integrated strain relief

► **Specification:**

<b>No. of contacts:</b>	3 + Grounding screw
<b>Termination:</b>	screw
<b>Cable diameter:</b>	max. 2,5mm <sup>2</sup>
<b>Nominal voltage:</b>	250 V DC / 400 V AC
<b>Working current:</b>	10 A DC / 16 A AC
<b>Contact resistance:</b>	≤ 3 mΩ



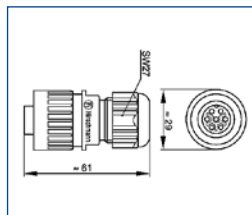
Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934125100	CA 3 LD	black	4,14	3,76	3,60

**Straight Cable Sockets : CA 6 LD**

Straight cable socket, integrated strain relief

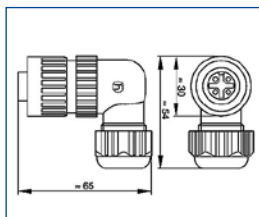
► **Specification:**

<b>No. of contacts:</b>	6 + Grounding solder
<b>Termination:</b>	solder
<b>Cable diameter:</b>	max. 0,75mm <sup>2</sup>
<b>Operating voltage:</b>	250 V AC/DC
<b>Working current:</b>	10 A AC/DC
<b>Contact resistance:</b>	≤ 5 mΩ



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934127100	CA 6 LD	black	5,12	4,65	4,45

**Angled Cable Sockets : CA 3 W LD**

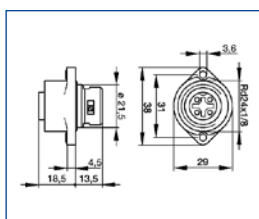


Angle cable socket with integrated strain relief

- ▶ **Specification:**
- No. of contacts:** 3 + Grounding
- Termination:** screw
- Cable diameter:** max. 2,5mm<sup>2</sup>
- Nominal voltage:** 250 V DC / 400 V AC
- Working current:** 10 A DC / 16 A AC
- Contact resistance:** ≤ 3 mΩ

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934129100	CA 3 W LD	black	5,60	5,09	4,87

**Panel-Mounted Sockets : CA 3 GD**

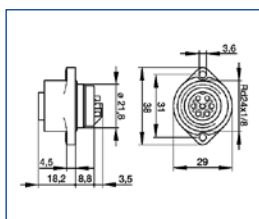


Panel-mount socket with flange

- ▶ **Specification:**
- No. of contacts:** 3 + Grounding
- Termination:** screw
- Cable diameter:** max. 2,5mm<sup>2</sup>
- Nominal voltage:** 250 V DC / 400 V AC
- Working current:** 10 A DC / 16 A AC
- Contact resistance:** ≤ 3 mΩ

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932321100	CA 3 GD	black	2,68	2,43	2,33

**Panel-Mounted Sockets : CA 6 GD**

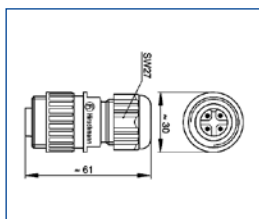


Panel-mounted socket with flange

- ▶ **Specification:**
- No. of contacts:** 6 + Grounding
- Termination:** solder
- Cable diameter:** max. 0,75mm<sup>2</sup>
- Nominal voltage:** 250 V AC/DC
- Working current:** 10 A AC/DC
- Contact resistance:** ≤ 5 mΩ

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932325100	CA 6 GD	black	3,65	3,32	3,17

**Straight Cable Plugs : CA 3 LS**



Straight cable plug, integrated strain relief

- ▶ **Specification:**
- No. of contacts:** 3 + Grounding
- Termination:** screw
- Cable diameter:** max. 2,5mm<sup>2</sup>
- Nominal voltage:** 250 V DC / 400 V AC
- Working current:** 10 A DC / 16 A AC
- Contact resistance:** ≤ 3 mΩ

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934124100	CA 3 LS	black	3,84	3,49	3,34

**Straight Cable Plugs : CA 6 LS**

Straight cable plug, integrated strain relief

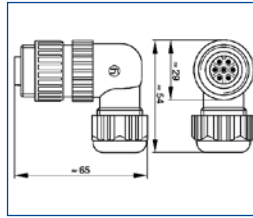
- **Specification:**
- No. of contacts:** 6 + Grounding
- Termination:** solder
- Cable diameter:** max. 0,75mm<sup>2</sup>
- Nominal voltage:** 250 V AC/DC
- Working current:** 10 A AC/DC
- Contact resistance:** ≤ 5 mΩ

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934126100	CA 6 LS	black	3,84	3,49	3,34

**Straight Cable Plugs : CA 6 W LS**

Angled cable plug, integrated strain relief

- **Specification:**
- No. of contacts:** 6 + Grounding
- Termination:** solder
- Cable diameter:** max. 0,75mm<sup>2</sup>
- Nominal voltage:** 250 V AC/DC
- Working current:** 10 A AC/DC
- Contact resistance:** ≤ 5 mΩ

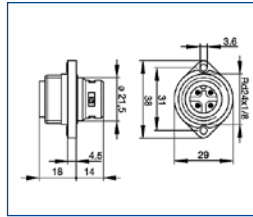


Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
934130100	CA 6 W LS	black	5,31	4,82	4,62

**Panel-Mounted Connector : CA 3 GS**

Panel-mounted connector with flange

- **Specification:**
- No. of contacts:** 3 + Grounding
- Termination:** screw
- Cable diameter:** max. 2,5mm<sup>2</sup>
- Nominal voltage:** 250 V DC / 400 V AC
- Working current:** 10 A DC / 16 A AC
- Contact resistance:** ≤ 3 mΩ



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932322100	CA 3 GS	black	2,39	2,17	2,08

**Panel-Mounted Connector : CA 6 GS**

Panel-mounted connector with flange

- **Specification:**
- No. of contacts:** 6 + Grounding
- Termination:** solder
- Cable diameter:** max. 0,75mm<sup>2</sup>
- Nominal voltage:** 250 V AC/DC
- Working current:** 10 A AC/DC
- Contact resistance:** ≤ 5 mΩ

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932326100	CA 6 GS	black	2,39	2,17	2,08

**Protection Cap : CA 00 SD 1**



Protection cap for cable plugs with variable loop.

- ▶ **Specification:**
- No. of contacts:** 3 + Grounding and 6 + Grounding
- Housing material:** PA 66-GF 25

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
831530400	CA 00 SD 1	black	2,09	1,90	1,82

**Protection Cap : CA 00 SD 2**



Protection cap for panel-mounted connectors with fixed loop

- ▶ **Specification:**
- No. of contacts:** 3 + Grounding and 6 + Grounding
- Housing material:** PA 66-GF 25

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
831529100	CA 00 SD 2	black	2,09	1,90	1,82

**Protection Cap : CA 00 SD 4**



Protection cap for panel-mounted sockets with fixed loop

- ▶ **Specification:**
- No. of contacts:** 3 + Grounding and 6 + Grounding
- Housing material:** PA 66-GF 25

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
831531100	CA 00 SD 4	black	2,09	1,90	1,82

**Information**



**ST-Series**

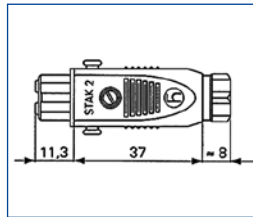
When the power is always on, you need components that can handle the load. Hirschmann's compact ST-series rectangular connectors are a very good solution for interior and exterior building automation, power distribution, signal transmission and machine manufacturing applications. The ST-series is also suitable for very demanding power distribution applications such as medical equipment and instrumentation.

- Operating voltage:** 250 V AC/DC (400 V AC 3pin)
- Working current:** 10 A AC / DC (16 A AC 3pin)
- Protection class:** IP 54
- Pollution severity:** 3
- Cable diameter:** 6mm - 12mm
- Contact plating:** Sn / 5pin Ag
- Termination:** screw / crimp
- Terminal diameter:** max. 1,5mm<sup>2</sup>
- Temperature range:** -30°C up to +90°C

**Cable Sockets : STAK 2**

Cable socket without strain relief

- **Specification:**
- Working current:** 16 A AC / 10 A DC
- No. of contacts:** 2 + PE
- Approvals:** UL

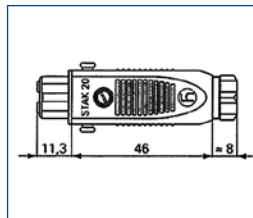


Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930621106	STAK 2	grey	2,73	2,48	2,37

**Cable Sockets : STAK 20**

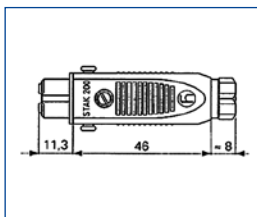
Cable socket with strain relief

- **Specification:**
- Working current:** 16 A AC / 10 A DC
- No. of contacts:** 2 + PE
- Approvals:** UL



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
931264106	STAK 20	grey	3,36	3,05	2,92

**Cable Sockets : STAK 200**

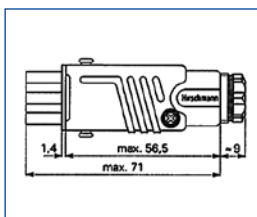


Cable socket with strain relief and coding fin

- ▶ **Specification:**
- Operating voltage:** UC 250 V
- Working current:** 16 A AC / 10 A DC
- No. of contacts:** 2 + PE
- Cable diameter:** 4mm - 6,5mm
- Termination:** screw
- Approvals:** VDE, UL

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932037106	STAK 200	grey	3,64	3,31	3,16

**Cable Sockets : STAK 3 N**



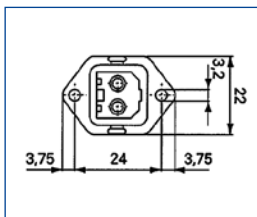
Cable socket with strain relief

- ▶ **Specification:**
- Working current:** 16 A AC / 10 A DC
- No. of contacts:** 3 + PE
- Approvals:** VDE, UL

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932140106	STAK 3 N	grey	3,27	2,97	2,84

Also available in black!

**Panel-Mounted Sockets : STAKEI 2**

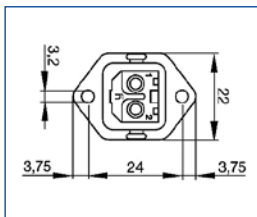


Panel-mounted socket, added gasket

- ▶ **Specification:**
- Working current:** 16 A AC / 10 A DC
- No. of contacts:** 2 + PE
- Approvals:** UL

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930647106	STAKEI 2	grey	2,58	2,35	2,25

**Panel-Mounted Sockets : STAKEI 200**



Panel-mounted socket with coding slot and added gasket

- ▶ **Specification:**
- Working current:** 16 A AC / 10 A DC
- No. of contacts:** 2 + PE
- Approvals:** UL, VDE, SEV

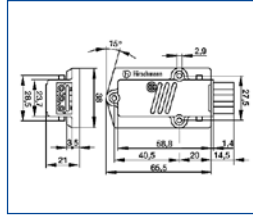
Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932047106	STAKEI 200	grey	2,64	2,40	2,30



**Surface Mounted Socket : STAKAP 3 N**

Surface mounted socket

- ▶ **Specification:**
- No. of contacts:** 3 + PE
- Approvals:** UL, VDE, SEV

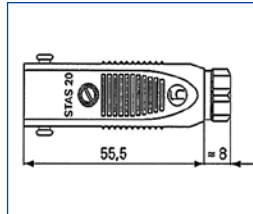


Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932513106	STAKAP 3 N	grey	4,52	4,11	3,93

**Cable Plug : STAS 20**

Cable plug with strain relief

- ▶ **Specification:**
- No. of contacts:** 2 + PE
- Cable gland:** PG 7
- Termination:** screw
- Approvals:** UL

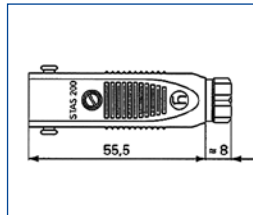


Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
931265106	STAS 20	grey	3,05	2,78	2,66

**Cable Plug : STAS 200**

Cable plug with strain relief and coding fin

- ▶ **Specification:**
- No. of contacts:** 2 + PE
- Cable gland:** PG 7
- Termination:** screw
- Approvals:** VDE, UL

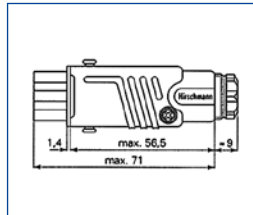


Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932038106	STAS 200	grey	3,28	2,98	2,85

**Cable Plug : STAS 3 N**

Cable plug with strain relief

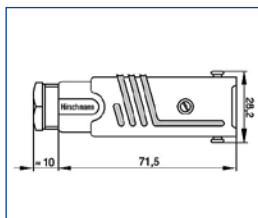
- ▶ **Specification:**
- No. of contacts:** 3 + PE
- Cable gland:** PG 11
- Termination:** screw
- Approvals:** VDE, UL



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932143106	STAS 3 N	grey	3,09	2,80	2,68

Also available in black!

**Cable Plug : STAS 5**

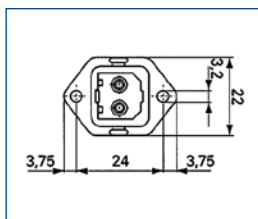


Cable plug with strain relief, not assembled with additional contacts

- **Specification:**
- No. of contacts:** 5 + PE
- Cable gland:** PG 11
- Approvals:** VDE, SEV

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
931692106	STAS 5	grey	3,87	3,52	3,37

**Panel-Mounted Connector : STASEI 2**

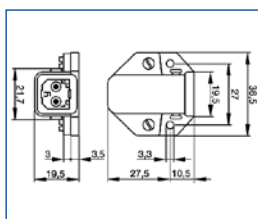


Panel-mounted connector with added gasket

- **Specification:**
- No. of contacts:** 2 + PE
- Termination:** screw
- Approvals:** UL

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930622106	STASEI 2	grey	2,23	2,03	1,94

**Surface Mounted Connector : STASAP 2 B**

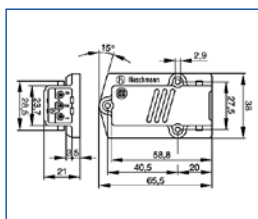


Surface mounted connector with cast base-plate, additional sealing for IP 54 necessary

- **Specification:**
- No. of contacts:** 2 + PE
- Termination:** screw
- Approvals:** UL

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
930822106	STASAP 2 B	grey	3,96	3,59	3,44

**Surface Mounted Connector : STASAP 3 N**



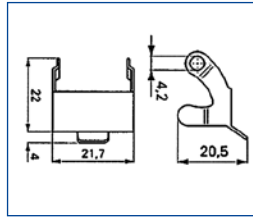
Surface mounted connector

- **Specification:**
- No. of contacts:** 3 + PE
- Termination:** screw
- Approvals:** UL, VDE, SEV

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932514106	STASAP 3 N	grey	4,08	3,71	3,55

**Safety Brackets : STASI 2**

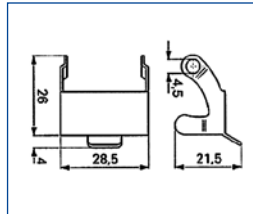
Safety brackets for 2 + PE - versions



Item:	Type:	≥ 1	≥ 10	≥ 50
732044000	STASI 2	0,29	0,26	0,25

**Safety Brackets : STASI 3**

Safety brackets for 3 + PE and 5 + PE - versions



Item:	Type:	≥ 1	≥ 10	≥ 50
732045001	STASI 3	0,34	0,31	0,29

**Hirschmann Industrial Connectors**  
GDM Cable Sockets Construction Type A

**Information**

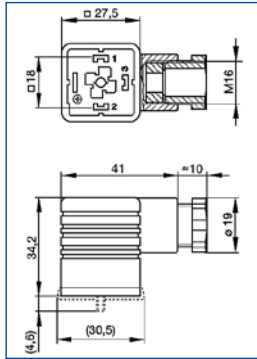
**GDM Cable Sockets Construction Type A**

The GDM-series rugged rectangular connectors are designed to withstand high loads. The molded versions now offer even greater variety. They are dust-proof and hose-proof, and the tailored versatile industrial connectors are ideal for nearly any application where hydraulic, pneumatic and electro-magnetic actuators have to deliver dependable service.

- Cable diameter:** max. 1,5mm<sup>2</sup>
- Pin dimensions:** 6,3 mm x 0,8 mm, 4,8 mm x 0,8 mm
- Operating voltage:** UC max. 250 V
- Pollution severity:** 3
- Working current max.:** 16 A
- Contact resistance:** ≤ 4 mΩ
- Contact plating:** Sn
- Contact bearer material:** PA
- Housing material:** PA
- Protection class (IEC 60529):** IP 65 (gasket necessary)
- Temperature range:** -40°C up to +125°C



**Cable Sockets : GDM 2016**

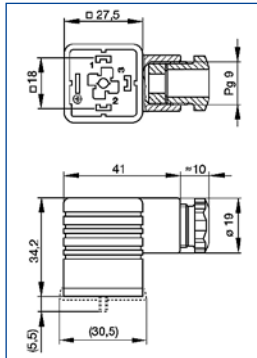


Cable socket with central screw M3 x 35

- **Specification:**
- No. of contacts:** 2 + Grounding
- Cable gland:** M 16
- Termination:** screw
- Suitable cables:** Ø 4.5 ... 10mm
- Approvals:** VDE

<b>Item:</b>	<b>Type:</b>	<b>Colour:</b>	<b>≥ 1</b>	<b>≥ 10</b>	<b>≥ 50</b>
934393100	GDM 2016	black	0,82	0,75	0,71

**Cable Sockets : GDM 2009**

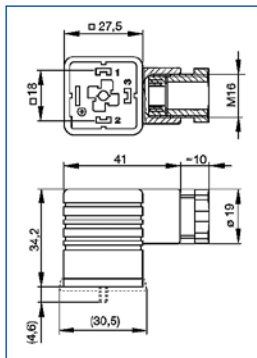


Cable socket with central screw M3 x 35

- **Specification:**
- No. of contacts:** 2 + Grounding
- Cable gland:** Pg 9
- Termination:** screw
- Suitable cables:** Ø 4.5 ... 7mm
- Approvals:** VDE, SEV, CSA

<b>Item:</b>	<b>Type:</b>	<b>Colour:</b>	<b>≥ 1</b>	<b>≥ 10</b>	<b>≥ 50</b>
931965100	GDM 2009	black	0,78	0,71	0,68

**Cable Sockets : GDM 3016**



Cable socket with central screw M3 x 35

- **Specification:**
- No. of contacts:** 3 + Grounding
- Cable gland:** M 16
- Termination:** screw
- Suitable cables:** Ø 4.5 ... 10mm
- Approvals:** VDE

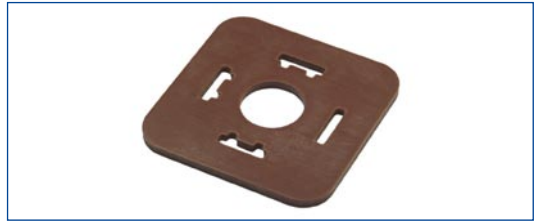
<b>Item:</b>	<b>Type:</b>	<b>Colour:</b>	<b>≥ 1</b>	<b>≥ 10</b>	<b>≥ 50</b>
934395100	GDM 3016	black	0,91	0,83	0,79

**Gaskets for Cable Sockets : GDM 3 -7**

Flat gasket for cable socket GDM

► **Specification:**

**Material:** NBR  
**Temperature range:** -30°C up to +90°C



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
730801002	GDM 3-7 NBR	brown	0,154	0,140	0,134

**Gaskets for Cable Sockets : GDM 3 -21**

Flat gasket for cable socket GDM

► **Specification:**

**Material:** EPDM  
**Temperature range:** -40°C up to +125°C



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
731739004	GDM 3-21 EPDM	brown	0,164	0,149	0,143

**Gaskets for Cable Sockets : GDM 3 -16**

Profiled gasket for GDM

► **Specification:**

**Material:** NBR  
**Temperature range:** -30°C up to +90°C



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
731531002	GDM 3-16 NBR	black	0,123	0,112	0,107

**Gaskets for Cable Sockets : GDM 3-17 VMQ**

Flat gasket for cable socket GDM

► **Specification:**

**Material:** VMQ (silicon)  
**Temperature range:** -40°C up to +125°C



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
731740002	GDM 3-17 VMQ	red	0,185	0,168	0,160

### Gaskets for Appliance Connector : GSA 200-4 NBR



Flat gasket for appliance connector GSA

- ▶ **Specification:**
- Material:** NBR
- Temperature range:** -30°C up to +90°C

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
730843002	GSA 200-4 NBR	brown	0,144	0,130	0,125

### Hirschmann Industrial Connectors

GDM Cable Sockets Sonstruction Type A with Electronic Insert



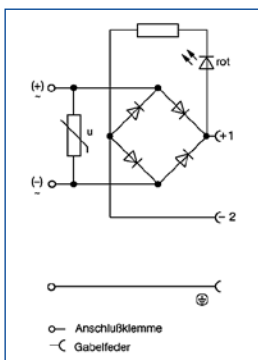
IP65

#### GDM Cable Sockets Sonstruction Type A with Electronic Insert

Rugged rectangular connectors with several electronic inserts

- Cable diameter:** max. 1,5mm<sup>2</sup>
- Pin dimensions:** 6.3 mm x 0.8 mm, 4.8 mm x 0.8 mm
- Pollution severity:** 3
- Contact resistance:** ≤ 4 mΩ
- Contact plating:** Sn
- Contact bearer material:** PA
- Housing material:** PA
- Protection class (IEC 60529):** IP 65 (gasket necessary)
- Temperature range:** -40°C up to +90°C

### Cable Sockets with Electronic Insert : GDML 2011 GB 1 LED 24



Bridge-type rectifier with protective circuit (varistor) and function indicator (LED)

- ▶ **Specification:**
- No. of contacts:** 2 + Grounding
- Cable gland:** PG 11
- Nominal voltage:** UC max. 24 V
- Nominal current:** 2 A
- Termination:** screw
- Suitable cables:** Ø 4.5 ... 11mm

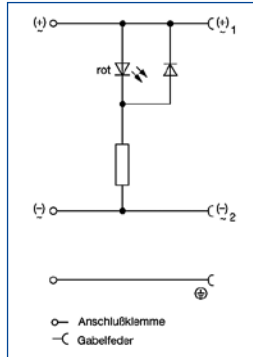
Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932446002	GDML 2011 GB1 LED 24	black	5,98	5,43	5,20

**Cable Sockets with Electronic Insert : GDML 2011 LED 24**

Funktion indicator (LED) with freewheeling diode

**Specification:**

- No. of contacts:** 2 + Grounding
- Cable gland:** PG 11
- Nominal voltage:** UC max. 24 V
- Nominal current:** 8 A
- Termination:** screw
- Suitable cables:** Ø 4.5 ... 11mm



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932332002	GDML 2011 LED 24	black	4,81	4,37	4,18

Hirschmann Industrial Connectors

GDM Appliance Connector Type A



**GDM Appliance Connector Type A**

- Nominal voltage:** UC max. 400 V
- Nominal current:** 16 A
- Contact resistance:** ≤ 4 mΩ
- Mounting:** screw
- Contact plating:** Sn
- Contact bearer material:** PA
- Housing material:** PA
- Pollution severity:** 3
- Protection class (IEC 60529):** IP 65 (gasket necessary) (mated)
- Temperature range:** -40°C up to +125°C

IP65

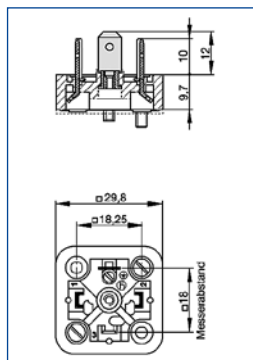


**Appliance Connectors : GSA 2000**

Appliance connector with retaining nut, 2 screws M3 x 10 and 1 screw M3 x 5, longitudinal slots, open nut

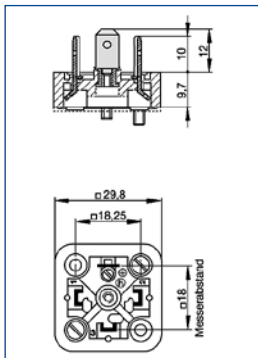
**Specification:**

- No. of contacts:** 2 + Grounding
- Termination:** solder, holes for possibility of soldering on both sides
- Grounding:** screw
- Approvals:** UR, VDE, SEV, CSA



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932591100	GSA 2000	black	0,56	0,51	0,49

Appliance Connectors : GSA 3000



Appliance connector with retaining nut, 2 screws M3 x 10 and 1 screw M3 x 4, longitudinal slot, open nut

- **Specification:**
- No. of contacts:** 3 + Grounding
- Termination:** solder, holes for possibility of soldering on both sides
- Grounding:** screw
- Approvals:** UR, VDE, CSA

Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
932597100	GSA 3000	black	0,73	0,66	0,63



**Information**

**GDMF Cable Sockets**

**Hirschmann™ GDMF Connectors**, new generation of Hirschmann brand field attachable valve connectors in a flat and ergonomic design with compact dimensions as well as ultimate resistance to vibration and shock.

**Features**

- ▶ Flat design (26 mm)
- ▶ Non-slip surfaces on both sides
- ▶ Electronic inserts with function display and/or protective circuitry
- ▶ Patented combi-contact
- ▶ Captive seal
- ▶ UL version with strain relief

**Benefits**

- ▶ Space-saving and application-tailored design
- ▶ Time-saving ease of handling during assembly and disassembly
- ▶ Flexible use for optimum safety and monitoring of applications
- ▶ Familiar GDM connection technology in new GDMF design
- ▶ Global fit supported by international approvals

▶ **Specification:**

<b>Cable diameter:</b>	max. 1,5mm <sup>2</sup>
<b>Connection:</b>	M16
<b>Operating voltage:</b>	w/o circuitry max. 250 V AC/DC
<b>Rated current:</b>	
<b>w/o circuitry:</b>	16 A
<b>with circuitry:</b>	8 A (DG 1A)
<b>Seal:</b>	NBR, preassembled
<b>Center screw:</b>	Steel, Phillips recessed head
<b>Thread:</b>	M3
<b>Contact bearer material:</b>	94 V0
<b>Housing material:</b>	94 HB (UL 94 V0)
<b>Protection class:</b>	IP 65 / IP 67
<b>Temperature range:</b>	-40°C up to +85°C
<b>Approvals:</b>	VDE, UL, CSA

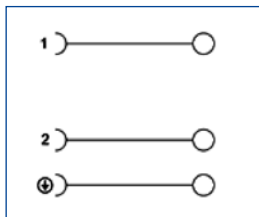
IP67

IP65

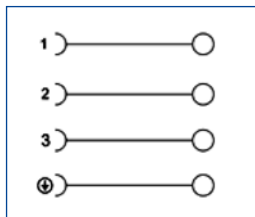


Cable Sockets without Electronic Insert

**NEW**



2 + PE

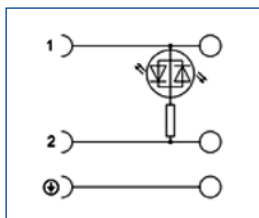


3 + PE

Item:	Description:	No. of pins:	Strain relief:	Circuitry:	≥ 1	≥ 10	≥ 50
934618001	GDMF 2016 DAAA	2 + PE	without	without	0,98	0,89	0,85
934618002	GDMF 3016 DAAA	3 + PE	without	without	1,07	0,97	0,93
934618010	GDMF 2116 DAAA	2 + PE	with (UL-Version)	without	1,07	0,97	0,93
934618011	GDMF 3116 DAAA	3 + PE	with (UL-Version)	without	1,16	1,06	1,01

Cable Sockets with LED

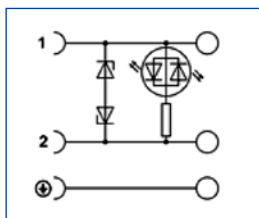
**NEW**



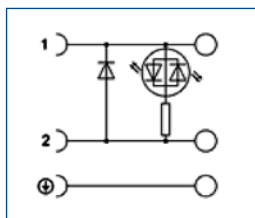
Item:	Description:	No. of pins:	Strain relief:	Circuitry:	≥ 1	≥ 10	≥ 50
934618003	GDMF 2016 DBAA	2 + PE	without	LED yellow 24 V	4,22	3,84	3,67
934618004	GDMF 2016 DCAA	2 + PE	without	LED yellow 120 V	4,33	3,93	3,76
934618005	GDMF 2016 DEAA	2 + PE	without	LED yellow 250 V	4,22	3,84	3,67

Cable Sockets with LED and Diode

**NEW**



LED + suppressor diode

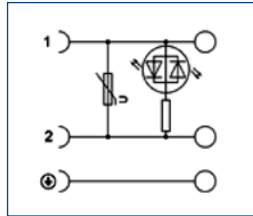


LED + recovery diode

Item:	Description:	No. of pins:	Strain relief:	Circuitry:	≥ 1	≥ 10	≥ 50
934618006	GDMF 2016 DFAA	2 + PE	without	LED yellow 24 V + suppressor diode	4,57	4,16	3,98
934618007	GDMF 2016 DGAA	2 + PE	without	LED yellow 24 V + recovery diode	4,61	4,18	4,00

Cable Sockets with LED and Varistor

**NEW**



Item:	Description:	No. of pins:	Strain relief:	Circuitry:	≥ 1	≥ 10	≥ 50
934618008	GDMF 2016 DLAA	2 + PE	without	LED yellow 250 V + varistor	4,33	3,93	3,76
934618009	GDMF 2016 DRAA	2 + PE	without	LED yellow 120 V + varistor	4,33	3,93	3,76

Hirschmann Industrial Connectors  
E-Series M 8

**Information**

**E-Series M 8**

Hirschmann M8 sensor connectors can be supplied in molded or customized versions. Innovative design and a wide range of cables ensure maximum flexibility and variety in any application.

- Cable gland:** M 9.5 x 1, ∅ max. 5.5mm
- Nominal voltage:** 60 V AC/DC
- Nominal current:** 4 A (2 A at 0.14mm<sup>2</sup>)
- Termination:** Pin penetration
- Suitable cables:** ∅ 4 ... 5mm / 0.14mm<sup>2</sup> ... 0.34mm<sup>2</sup>
- Contact plating:** Au
- Contact bearer material:** PA
- Pollution severity:** 3

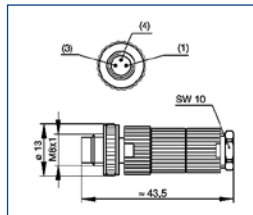


**Cable Plug M8 : ELST 3008 V**

MiniQuick, fast connection, straight cable plug, unassembled, strain relief by means of clamping cage

► **Specification:**

- No. of contacts:** 3
- Contact material:** Cu Zn
- Protection class (IEC 60529):** IP 67
- Temperature range:** -25°C up to +70°C



Item:	Type:	Colour:	≥ 1	≥ 10	≥ 50
933406100	ELST 3008 V	black	4,84	4,40	4,21

## Information



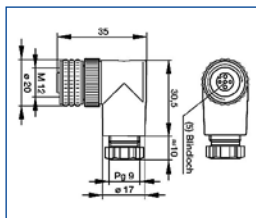
IP67

## E-Series M 12

To be a real sensor expert, you have to keep a couple of key issues in mind. Clearly identifiable gripping surfaces ensure that users can quickly connect the Hirschmann E-series M12 round connectors to proximity switches, light barriers, flow sensors and fieldbus components. These connectors meet all of the requirements for sensors and actuators in automation systems.

<b>Nominal current:</b>	4 A
<b>Termination:</b>	screw
<b>Contact material:</b>	Cu Zn
<b>Contact plating:</b>	Sn
<b>Contact bearer material:</b>	PA
<b>Housing material:</b>	PA
<b>Protection class (IEC 60529):</b>	IP 67
<b>Pollution severity:</b>	3
<b>Temperature range:</b>	-25°C up to +90°C
<b>Approvals:</b>	UL in preparation

## Cable Sockets M12 : ELWIKA 4012 PG9



Angled cable socket, unassembled, strain relief by means of clamping cage

► <b>Specification:</b>	
<b>Type of contact:</b>	Cage contact
<b>No. of contacts:</b>	4
<b>Cable gland:</b>	PG 9
<b>Nominal voltage:</b>	250 V AC/DC
<b>Suitable cables:</b>	Ø 6 ... 8mm

<b>Item:</b>	<b>Type:</b>	<b>Colour:</b>	<b>≥ 1</b>	<b>≥ 10</b>	<b>≥ 50</b>
933174100	ELWIKA 4012 PG9	black	3,38	3,07	2,94