

- **Operating voltages up to 12 kVDC**
- **Operating current 30 A**
- **Up to 9 HV contacts**
- **Configurations with LV contacts available**
- **Versions available with contacts in lead for safety interlock circles**

- 1** *Series-M connectors already include contacts.*
  
- 2** *We offer two types of cable mount connectors:  
1) with symmetric cable gland included  
2) with an open connecting thread for individual use such as screwed cable glands (not included) et al.*
  
- 3** *Suitable screwed cable glands and adapters on page 127-128. You can also use own cable glands.*

Housing	
Locking system	threaded coupling
Mounting type (panel mount connector)	4-hole flange
Housing material	aluminium (Al)
Surface plating	nickel (Ni)
Protection class (mated connector)	IP54
Operating temperature	- 30 °C to +80 °C

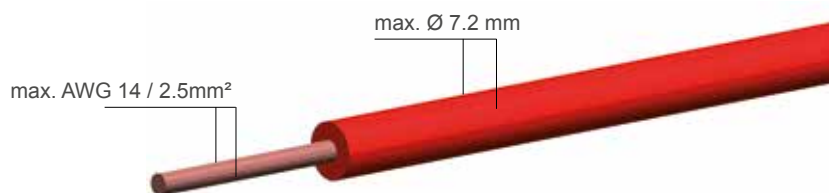
HV-Contact 2.7 mm	
Termination method	solder
Rated current	30 A
Max. operating current	40 A
Pulse current	3000 A
Contact resistance	300 µΩ
Contact diameter	2.7 mm
Wire size (AWG / cross section)	AWG 14 / 2.5 mm <sup>2</sup>
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Insertion / Withdrawal force	5.5 N / 4.0 N
Mating cycles	≥ 100,000
Rated temperature	+120 °C














I-Contact (LV) 1.5 mm	
Termination method	solder
Rated current	25 A
Max. operating current	35 A
Pulse current	1500 A
Contact resistance	500 µΩ
Contact diameter	1.5 mm
Wire size (AWG / cross section)	AWG 16 / 1.5 mm <sup>2</sup>
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Insertion / Withdrawal force	2 N / 1,5 N
Mating cycles	≥ 100,000
Rated temperature	+120 °C

E-Contact (LV) 2.5 mm	
Termination method	solder
Rated current	30 A
Max. operating current	40 A
Pulse current	3000 A
Contact resistance	300 µΩ
Contact diameter	2.5 mm
Wire size (AWG / cross section)	AWG 14 / 2.5 mm <sup>2</sup>
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Insertion / Withdrawal force	5.5 N / 4.0 N
Mating cycles	≥ 100,000
Rated temperature	+120 °C

Insulation inserts	
Number of HV-contacts	2, 3, 5, 7, 9
Number of LV-contacts 1.5mm (optional)	0, 1, 2
Number of Earthing contacts (optional)	0, 1
Insulation material	PTFE / POM
Flammability class PTFE	UL94 V-0
Flammability class POM	UL94 HB
Operating temperature PTFE	-50 °C to +200 °C
Operating temperature POM	-30 °C to +120 °C
Insulating material group PTFE / POM	I (DIN IEC 60664)

### Suitable cable dimensions (single wire)



Housing size	Contact arrangements
<p><b>M3</b></p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>M215 Page 71</p> </div> <div style="text-align: center;">  <p>M215/1E Page 72</p> </div> <div style="text-align: center;">  <p>M215/2I/1E Page 73</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <div style="text-align: center;">  <p>M315 Page 74</p> </div> <div style="text-align: center;">  <p>M315/2E Page 75</p> </div> <div style="text-align: center;">  <p>M315/2I Page 76</p> </div> </div>
	<p><b>M5</b></p>
<p><b>M7</b></p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>M715 Page 81</p> </div> <div style="text-align: center;">  <p>M715/1E Page 82</p> </div> <div style="text-align: center;">  <p>M715/1I/1E Page 83</p> </div> </div>
<p><b>M9</b></p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>M915 Page 85</p> </div> <div style="text-align: center;">  <p>M915/1E Page 86</p> </div> <div style="text-align: center;">  <p>M915/2I Page 87</p> </div> <div style="text-align: center;">  <p>M915/2I/1E Page 88</p> </div> </div>

## Overview size M3

P/N	Type / Description	Plug	Recep- tacle	Cable Mount		Panel mount	Insulation material		Number of contacts		
				Standard housing connecting thread M20	Symmetric cable gland		POM	PTFE	HV 2.7mm	LV 1.5mm	LV 2.5 mm
7743051	GB 215 POM		•			•	•		2		
7743041	GS 215 POM	•				•	•		2		
7743038	KB 215 POM Sym KV		•		•		•		2		
7743072	KB 215/M20 POM		•	•			•		2		
7743021	KS 215 POM Sym KV	•			•		•		2		
7743023	KS 215/M20 POM	•		•			•		2		
7743071	GB 215 PTFE		•			•		•	2		
7743077	GS 215 PTFE	•				•		•	2		
7743078	KB 215 PTFE Sym KV		•		•			•	2		
7743079	KB 215/M20 PTFE		•	•				•	2		
7743022	KS 215 PTFE Sym KV	•			•			•	2		
7743069	KS 215/M20 PTFE	•		•				•	2		
7743053	GB 215/1E POM		•			•	•		2		1
7743055	GS 215/1E POM	•				•	•		2		1
7743056	KB 215/1E POM Sym KV		•		•		•		2		1
7743076	KB 215/1E/M20 POM		•	•			•		2		1
7743054	KS 215/1E POM Sym KV	•			•		•		2		1
7743073	KS 215/1E/M20 POM	•		•			•		2		1
7743094	GB 215/1E PTFE		•			•		•	2		1
7743048	GS 215/1E PTFE	•				•		•	2		1
7743095	KB 215/1E PTFE Sym KV		•		•			•	2		1
7743096	KB 215/1E/M20 PTFE		•	•				•	2		1
7743097	KS 215/1E PTFE Sym KV	•			•			•	2		1
7743064	KS 215/1E/M20PTFE	•		•				•	2		1
7743052	GB 215/2I/1E POM		•			•	•		2	2	1
7743057	GS 215/2I/1E POM	•				•	•		2	2	1
7743098	KB 215/2I/1E POM Sym KV		•		•		•		2	2	1
7743058	KB 215/2I/1E/M20 POM		•	•			•		2	2	1
7743099	KS 215/2I/1E POM Sym KV	•			•		•		2	2	1
7743059	KS 215/2I/1E/M20 POM	•		•			•		2	2	1
7743070	GB 215/2I/1E PTFE		•			•		•	2	2	1
7743075	GS 215/2I/1E PTFE	•				•		•	2	2	1
7743101	KB 215/2I/1E PTFE Sym KV		•		•			•	2	2	1
7743080	KB 215/2I/1E/M20 PTFE		•	•				•	2	2	1
7743100	KS 215/2I/1E PTFE Sym KV	•			•			•	2	2	1
7743085	KS 215/2I/1E/M20 PTFE	•		•				•	2	2	1

\*HV = High Voltage  
\*LV = Low Voltage

# M3

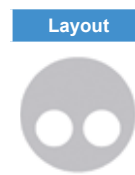
## Overview size M3

Part No.	Type / Description	Plug	Receptacle	Cable Mount		Panel mount	Insulation material		Number of contacts		
				Standard housing connecting thread M20	Symmetric cable gland		POM	PTFE	HV 2.7 mm	LV 1.5 mm	LV 2.5 mm
7430100	GB 315 POM		•			•	•		3		
7430200	GS 315 POM	•				•	•		3		
7430310	KB 315/M20 POM		•	•			•		3		
7430400	KS 315 POM Sym KV	•			•		•		3		
7430410	KS 315/M20 POM	•		•			•		3		
7430600	GB 315 PTFE		•			•		•	3		
7430700	GS 315 PTFE	•				•		•	3		
7430810	KB 315/M20 PTFE		•	•				•	3		
7430900	KS 315 PTFE Sym KV	•			•			•	3		
7430910	KS 315/M20 PTFE	•		•				•	3		
7743060	GB 315/2E POM		•			•	•		3		2
7743061	GS 315/2E POM	•				•	•		3		2
7743033	KB 315/2E/M20 POM		•	•			•		3		2
7743034	KS 315/2E POM Sym KV	•			•		•		3		2
7743102	KS 315/2E/M20 POM	•		•			•		3		2
7743036	GB 315/2I POM		•			•	•		3	2	
7743043	GS 315/2I POM	•				•	•		3	2	
7743042	KB 315/2I/M20 POM		•	•			•		3	2	
7743035	KS 315/2I POM Sym KV	•			•		•		3	2	
7743103	KS 315/2I/M20 POM	•		•			•		3	2	

\*HV = High Voltage  
\*LV = Low Voltage

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV
Rated current	30 A

Characteristics	
Number of pins high voltage (HV)	2
Number of pins E-contact 2.5 mm (LV)	-
Number of pins I-contact 1.5 mm (LV)	-
Insulation material	POM or PTFE



Type / Version / Part number	Drawing
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<p>Type: receptacle, panel mount</p> <p>Version: GB 215/POM Part no. 7743051</p> <p>Version: GB 215 PTFE Part no. 7743071</p>	
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<p>Type: plug, panel mount</p> <p>Version: GS 215/POM Part no. 7743041</p> <p>Version: GS 215/PTFE Part no. 7743077</p>	
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<p>Type: receptacle, cable mount, with symmetric cable gland</p> <p>Version: KB 215 POM/Sym KV Part no. 7743038</p> <p>Version: KB 215 PTFE/Sym KV Part no. 7743078</p>	
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<p>Type: receptacle, cable mount, without cable gland</p> <p>Version: KB 215/M20/POM Part no. 7743072</p> <p>Version: KB 215/M20/PTFE Part no. 7743079</p> <p>(order cable gland separately)</p>	
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<p>Type: plug, cable mount, with symmetric cable gland</p> <p>Version: KS 215/POM/Sym KV Part no. 7743021</p> <p>Version: KS 215/PTFE/Sym KV Part no. 7743022</p>	
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<p>Type: plug, cable mount, without cable gland</p> <p>Version: KS 215/M20/POM Part no. 7743023</p> <p>Version: KS 215/M20/PTFE Part no. 7743069</p> <p>(order cable gland separately)</p>	
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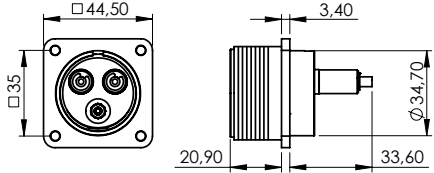

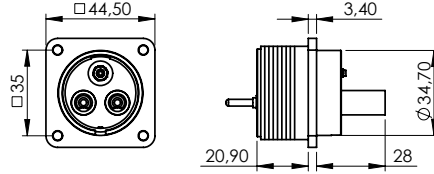

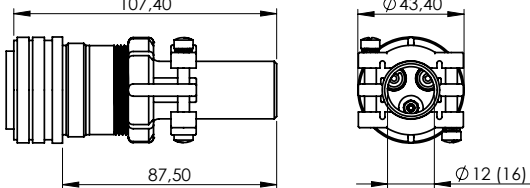

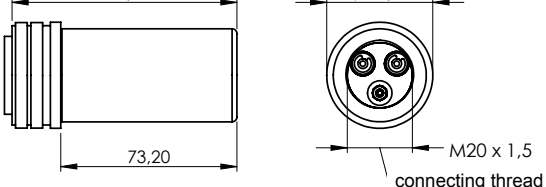

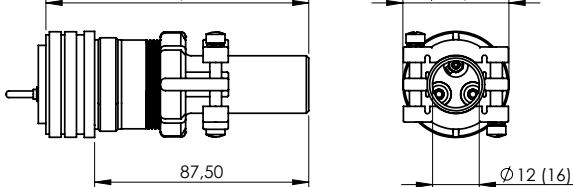

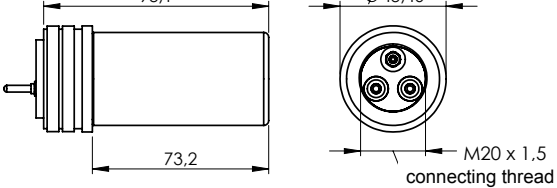
drawing - dimensions in mm

→ *Contacts, cable glands and accessories on pages 125-128*  
*Mounting instructions on pages 129-134*

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV
Rated current	30 A

Characteristics	
Number of pins high voltage (HV)	2
Number of pins E-contact 2.5 mm (LV)	1
Number of pins I-contact 1.5 mm (LV)	-
Insulation material	POM or PTFE



Type / Version / Part number	Drawing	
<p>Type: receptacle, panel mount</p> <p>Version: GB 215/1E/POM Part no. 7743053</p> <p>Version: GB 215/1E/PTFE Part no. 7743094</p>		
<p>Type: plug, panel mount</p> <p>Version: GS 215/1E/POM Part no. 7743055</p> <p>Version: GS 215/1E/PTFE Part no. 7743048</p>		
<p>Type: receptacle, cable mount, with symmetric cable gland</p> <p>Version: KB 215/1E/POM/Sym KV Part no. 7743056</p> <p>Version: KB 215/1E/PTFE/Sym KV Part no. 7743095</p>		
<p>Type: receptacle, cable mount, without cable gland</p> <p>Version: KB 215/1E/M20/POM Part no. 7743076</p> <p>Version: KB 215/1E/M20/PTFE Part no. 7743096</p> <p>(order cable gland separately)</p>		
<p>Type: plug, cable mount, with symmetric cable gland</p> <p>Version: KS 215/1E/POM/Sym KV Part no. 7743054</p> <p>Version: KS 215/1E/PTFE/Sym KV Part no. 7743097</p>		
<p>Type: plug, cable mount, without cable gland</p> <p>Version: KS 215/1E/M20/POM Part no. 7743073</p> <p>Version: KS 215/1E/M20/PTFE Part no. 7743064</p> <p>(order cable gland separately)</p>		

drawing - dimensions in mm

→ [Contacts, cable glands and accessories on pages 125-128](#)  
[Mounting instructions on pages 129-134](#)



Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV
Rated current	30 A

Characteristics	
Number of pins high voltage (HV)	2
Number of pins E-contact 2.5 mm (LV)	1
Number of pins I-contact 1.5 mm (LV)	2
Insulation material	POM or PTFE



Type / Version / Part number	Drawing
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<p>Type: receptacle, panel mount</p> <p>Version: GB 215/2I/1E/POM Part no. 7743052</p> <p>Version: GB 215/2I/1E/PTFE Part no. 7743070</p>	
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<p>Type: plug, panel mount</p> <p>Version: GS 215/2I/1E/POM Part no. 7743057</p> <p>Version: GS 215/2I/1E/PTFE Part no. 7743075</p>	
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<p>Type: receptacle, cable mount, with symmetric cable gland</p> <p>Version: KB 215/2I/1E/POM/Sym KV Part no. 7743098</p> <p>Version: KB 215/2I/1E/PTFE/Sym KV Part no. 7743101</p>	
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<p>Type: receptacle, cable mount, without cable gland</p> <p>Version: KB 215/2I/1E/M20/POM Part no. 7743058</p> <p>Version: KB 215/2I/1E/M20/PTFE Part no. 7743080</p> <p>(order cable gland separately)</p>	
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<p>Type: plug, cable mount, with symmetric cable gland</p> <p>Version: KS 215/2I/1E/POM/Sym KV Part no. 7743099</p> <p>Version: KS 215/2I/1E/PTFE/Sym KV Part no. 7743100</p>	
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<p>Type: plug, cable mount, without cable gland</p> <p>Version: KS 215/2I/1E/M20/POM Part no. 7743059</p> <p>Version: KS 215/2I/1E/M20/PTFE Part no. 7743085</p> <p>(order cable gland separately)</p>	
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→ *Contacts, cable glands and accessories on pages 125-128*  
*Mounting instructions on pages 129-134*

drawing - dimensions in mm

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV
Rated current	30 A

Characteristics	
Number of pins high voltage (HV)	3
Number of pins E-contact 2.5 mm (LV)	-
Number of pins I-contact 1.5 mm (LV)	-
Insulation material	POM or PTFE



Type / Version / Part number	Drawing	
<p>Type: receptacle, panel mount</p> <p>Version: GB 315/POM Part no. 7430100</p> <p>Version: GB 315/PTFE Part no. 7430600</p>		
<p>Type: plug, panel mount</p> <p>Version: GS 315/POM Part no. 7430200</p> <p>Version: GS 315/PTFE Part no. 7430700</p>		
<p>Type: receptacle, cable mount, without cable gland</p> <p>Version: KB 315/M20/POM Part no. 7430310</p> <p>Version: KB 315/M20/PTFE Part no. 7430810</p> <p>(order cable gland separately)</p>		
<p>Type: plug, cable mount, with symmetric cable gland</p> <p>Version: KS 315/POM/Sym KV Part no. 7430400</p> <p>Version: KS 315/PTFE/Sym KV Part no. 7430900</p>		
<p>Type: plug, cable mount, without cable gland</p> <p>Version: KS 315/M20/POM Part no. 7430410</p> <p>Version: KS 315/M20/PTFE Part no. 7430910</p> <p>(order cable gland separately)</p>		


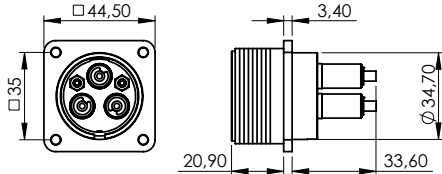

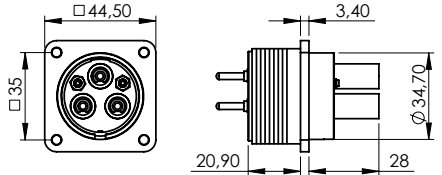

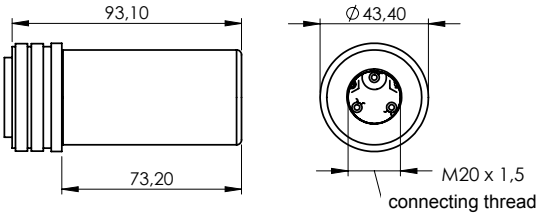

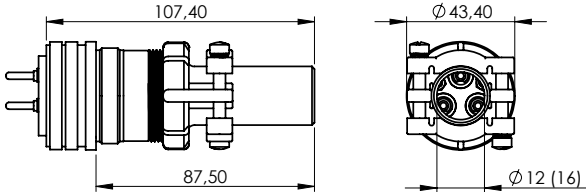

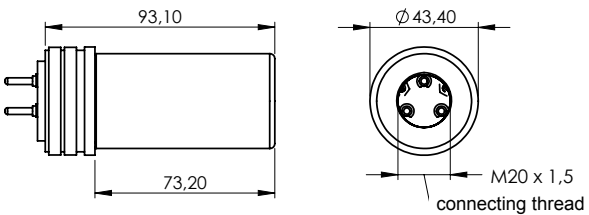
drawing - dimensions in mm

→ **Contacts, cable glands and accessories on pages 125-128**  
**Mounting instructions on pages 129-134**

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV
Rated current	30 A

Characteristics	
Number of pins high voltage (HV)	3
Number of pins E-contact 2.5 mm (LV)	2
Number of pins I-contact 1.5 mm (LV)	-
Insulation material	POM



Type / Version / Part number	Drawing	
Type: receptacle, panel mount Version: GB 315/2E/POM Part no. 7743060		
Type: plug, panel mount Version: GS 315/2E/POM Part no. 7743061		
Type: receptacle, cable mount, without cable gland Version: KB 315/2E/M20/POM Part no. 7743033 <i>(order cable gland separately)</i>		
Type: plug, cable mount, with symmetric cable gland Version: KS 315/2E/POM/Sym KV Part no. 7743034		
Type: plug, cable mount, without cable gland Version: KS 315/2E/M20 /POM Part no. 7743102 <i>(order cable gland separately)</i>		

→ *Contacts, cable glands and accessories on pages 125-128*  
*Mounting instructions on pages 129-134*

drawing - dimensions in mm

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV
Rated current	30 A

Characteristics	
Number of pins high voltage (HV)	3
Number of pins E-contact 2.5 mm (LV)	-
Number of pins I-contact 1.5 mm (LV)	2
Insulation material	POM



Type / Version / Part number	Drawing	
Type: receptacle, panel mount Version: GB 315/2I/POM Part no. 7743036		
Type: plug, panel mount Version: GS 315/2I/POM Part no. 7743043		
Type: receptacle, cable mount, without cable gland Version: KB 315/2I/M20/POM Part no. 7743042 <i>(order cable gland separately)</i>		
Type: plug, cable mount, with symmetric cable gland Version: KS 315/2I/POM/Sym KV Part no. 7743035		
Type: plug, cable mount, without cable gland Version: KS 315/2I/M20 /POM Part no. 7743103 <i>(order cable gland separately)</i>		

drawing - dimensions in mm

→ [Contacts, cable glands and accessories on pages 125-128](#)  
[Mounting instructions on pages 129-134](#)

## Overview size M5

Part no.	Type / Description	Plug	Receptacle	Cable Mount			Panel mount	Insulation material		Number of contacts		
				Standard housing connecting thread M25	Standard housing connecting thread M32	Symmetric cable gland		POM	PTFE	HV standard 2.7 mm	HV interlock 2.7 mm	LV 2.5 mm
7450100	GB 515 POM		•				•	•		5		
7450200	GS 515 POM	•					•	•		5		
7450312	KB 515/M25 POM		•	•				•		5		
7450313	KB 515/M32 POM		•		•			•		5		
7450400	KS 515 POM Sym KV	•				•		•		5		
7450419	KS 515/M25 POM	•		•				•		5		
7450414	KS 515/M32 POM	•			•			•		5		
7450600	GB 515 PTFE		•				•	•		5		
7450700	GS 515 PTFE	•					•	•		5		
7450821	KB 515/M25 PTFE		•	•				•		5		
7450819	KB 515/M32 PTFE		•		•			•		5		
7450900	KS 515 PTFE Sym KV	•				•		•		5		
7450914	KS 515/M25 PTFE	•		•				•		5		
7450916	KS 515/M32 PTFE	•			•			•		5		
7745010	GS 515/1E PTFE interlock	•					•	•		2	2	1
7745011	GB 515/1E PTFE		•				•	•		4		1
7745027	KB 515/1E/M25 PTFE		•	•				•		4		1
7745028	KB 515/1E/M32 PTFE		•		•			•		4		1
7745025	KS 515/1E PTFE Sym KV interlock	•				•		•		2	2	1
7745029	KS 515/1E/M25 PTFE interlock	•		•				•		2	2	1
7745032	KS 515/1E/M32 PTFE interlock	•			•			•		2	2	1

\*HV = High Voltage  
\*LV = Low Voltage

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV
Rated current	30 A

Characteristics	
Number of pins high voltage (HV)	5
Number of pins E-contact 2.5 mm (LV)	-
Number of pins I-contact 1.5 mm (LV)	-
Insulation material	POM or PTFE



Type / Version / Part number	Drawing	
<p>Type: receptacle, panel mount</p> <p>Version: GB 515/POM Part no. 7450100</p> <p>Version: GB 515/PTFE Part no. 7450600</p>		
<p>Type: plug, panel mount</p> <p>Version: GS 515/POM Part no. 7450200</p> <p>Version: GS 515/PTFE Part no. 7450700</p>		
<p>Type: receptacle, cable mount, without cable gland</p> <p>Version: KB 515/M25/POM Part no. 7450312</p> <p>Version: KB 515/M32/POM Part no. 7450313</p> <p>Version: KB 515/M25/PTFE Part no. 7450821</p> <p>Version: KB 515/M32/PTFE Part no. 7450819</p> <p><i>(order cable gland separately)</i></p>		
<p>Type: plug, cable mount, with symmetric cable gland</p> <p>Version: KS 515/POM/Sym KV Part no. 7450400</p> <p>Version: KS 515/PTFE/Sym KV Part no. 7450900</p>		
<p>Type: plug, cable mount, without cable gland</p> <p>Version: KS 515/M25/POM Part no. 7450419</p> <p>Version: KS 515/M32/POM Part no. 7450414</p> <p>Version: KS 515/M25/PTFE Part no. 7450914</p> <p>Version: KS 515/M32/PTFE Part no. 7450916</p> <p><i>(order cable gland separately)</i></p>		


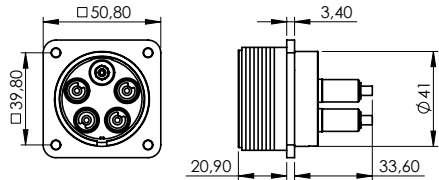

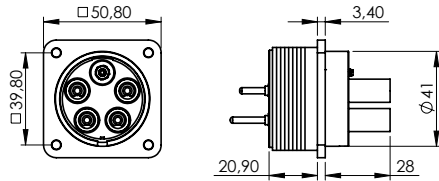

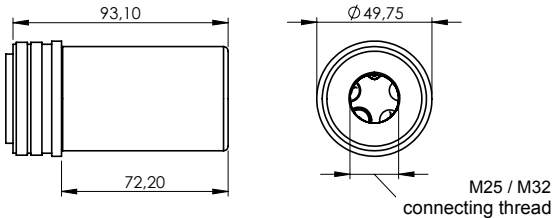

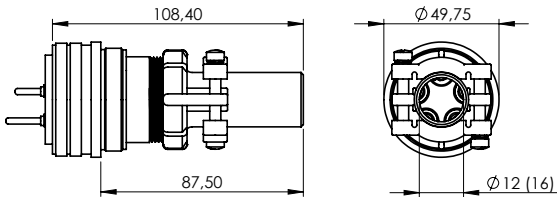

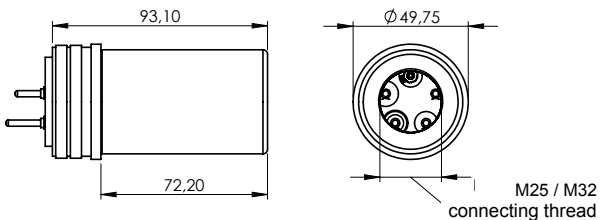
drawing - dimensions in mm

→ [Contacts, cable glands and accessories on pages 125-128](#)  
[Mounting instructions on pages 129-134](#)

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV
Rated current	30 A

Characteristics	
Number of pins high voltage (HV)	4
Number of pins E-contact 2.5 mm (LV)	1
Number of pins I-contact 1.5 mm (LV)	-
Insulation material	PTFE



Type / Version / Part number	Drawing	
<p>Type: receptacle, panel mount</p> <p>Version: GB 515/1E/PTFE</p> <p>Part no. 7745011</p>		
<p>Type: plug, panel mount</p> <p>Version: GS 515/1E/PTFE interlock</p> <p>Part no. 7745010</p>		
<p>Type: receptacle, cable mount, without cable gland</p> <p>Version: KB 515/1E/M25/PTFE Part no. 7745027</p> <p>Version: KB 515/1E/M32/PTFE Part no. 7745028</p> <p>(order cable gland separately)</p>		
<p>Type: plug, cable mount, with symmetric cable gland</p> <p>Version: KS 515/1E/PTFE/ Sym KV interlock</p> <p>Part no. 7745025</p>		
<p>Type: plug, cable mount, without cable gland</p> <p>Version: KS 515/1E/M25/ PTFE interlock - Part no. 7745029</p> <p>Version: KS 515/1E/M32/ PTFE interlock - Part no. 7745032</p> <p>(order cable gland separately)</p>		

→ *Contacts, cable glands and accessories on pages 125-128*  
*Mounting instructions on pages 129-134*

drawing - dimensions in mm

# M7

## Overview size M7

Part no.	Type / Description	Plug	Receptacle	Cable Mount		Panel mount	Insulation material	Number of contacts		
				Standard housing connecting thread M25	Symmetric cable gland			HV 2.7 mm	LV 1.5 mm	LV 2.5 mm
7470411	KS 715 PTFE Sym KV	•			•		•	7		
7470414	KS 715/M25 PTFE	•		•			•	7		
7470812	KB 715/M25 PTFE		•	•			•	7		
7470600	GB 715 PTFE		•			•	•	7		
7470200	GS 715 PTFE	•				•	•	7		
7470416	KS 715/1E/M25 PTFE	•			•		•	6		1
7470417	KS 715/1E PTFE Sym KV	•		•			•	6		1
7747022	KB 715/1E/M25 PTFE		•	•			•	6		1
7747011	GB 715/1E PTFE		•			•	•	6		1
7470701	GS 715/1E PTFE	•				•	•	6		1
7470706	KS 715/2I/1E PTFE Sym KV	•			•		•	4	2	1
7470704	KS 715/2I/1E/M25 PTFE	•		•			•	4	2	1
7470705	KB 715/2I/1E/M25 PTFE		•	•			•	4	2	1
7470707	GB 715/2I/1E PTFE		•			•	•	4	2	1
7470702	GS 715/2I/1E PTFE	•				•	•	4	2	1

\*HV = High Voltage  
\*LV = Low Voltage



Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV
Rated current	30 A

Characteristics	
Number of pins high voltage (HV)	7
Number of pins E-contact 2.5 mm (LV)	-
Number of pins I-contact 1.5 mm (LV)	-
Insulation material	PTFE



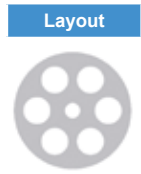
Type / Version / Part number	Drawing	
Type: receptacle, panel mount Version: GB 715/PTFE Part no. 7470600		
Type: plug, panel mount Version: GS 715/PTFE Part no. 7470200		
Type: receptacle, cable mount, without cable gland Version: KB 715/M25/PTFE Part no. 7470812 <i>(order cable gland separately)</i>		
Type: plug, cable mount, symmetric cable gland Version: KS 715/PTFE/Sym KV Part no. 7470411		
Type: plug, cable mount, without cable gland Version: KS 715/M25/PTFE Part no. 7470414 <i>(order cable gland separately)</i>		

→ *Contacts, cable glands and accessories on pages 125-128*  
*Mounting instructions on pages 129-134*

drawing - dimensions in mm

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV
Rated current	30 A

Characteristics	
Number of pins high voltage (HV)	6
Number of pins E-contact 2.5 mm (LV)	1
Number of pins I-contact 1.5 mm (LV)	-
Insulation material	PTFE



Type / Version / Part number	Drawing	
Type: receptacle, panel mount Version: GB 715/1E/PTFE Part no. 7747011		
Type: plug, panel mount Version: GS 715/1E/PTFE Part no. 7470701		
Type: receptacle, cable mount, without cable gland Version: KB 715/1E/M25/PTFE Part no. 7747022 <i>(order cable gland separately)</i>		
Type: plug, cable mount, symmetric cable gland Version: KS 715/1E/PTFE/Sym KV Part no. 7470417		
Type: plug, cable mount, without cable gland Version: KS 715/1E/M25/PTFE Part no. 7470416 <i>(order cable gland separately)</i>		

drawing - dimensions in mm

→ *Contacts, cable glands and accessories on pages 125-128*  
*Mounting instructions on pages 129-134*

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV
Rated current	30 A

Characteristics	
Number of pins high voltage (HV)	4
Number of pins E-contact 2.5 mm (LV)	1
Number of pins I-contact 1.5 mm (LV)	2
Insulation material	PTFE



Type / Version / Part number	Drawing
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<p>Type: receptacle, panel mount</p> <p>Version: GB 715/2I/1E/PTFE</p> <p>Part no. 7470707</p>	
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<p>Type: plug, panel mount</p> <p>Version: GS 715/2I/1E/PTFE</p> <p>Part no. 7470702</p>	
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<p>Type: receptacle, cable mount, without cable gland</p> <p>Version: KB 715/2I/1E/M25/PTFE</p> <p>Part no. 7470705</p> <p><i>(order cable gland separately)</i></p>	
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<p>Type: plug, cable mount, symmetric cable gland</p> <p>Version: KS 715/2I/1E/PTFE/Sym KV</p> <p>Part no. 7470706</p>	
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<p>Type: plug, cable mount, without cable gland</p> <p>Version: KS 715/2I/1E/M25/PTFE</p> <p>Part no. 7470704</p> <p><i>(order cable gland separately)</i></p>	
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→ *Contacts, cable glands and accessories on pages 125-128*  
*Mounting instructions on pages 129-134*

drawing - dimensions in mm

# M9

## Overview size M9

Part no.	Type / Description	Plug	Receptacle	Cable Mount		Panel mount	Number of contacts		
				Standard housing M32	Symmetric cable gland		HV 2.7 mm	LV 1.5 mm	LV 2.5 mm
7490600	GB 915 PTFE		•			•	9	-	-
7490200	GS 915 PTFE	•				•	9	-	-
7490811	KB 915/M32 PTFE		•	•			9	-	-
7490400	KS 915 PTFE Sym KV	•			•		9	-	-
7490416	KS 915/M32 PTFE	•		•			9	-	-
7749011	GB 915/1E PTFE		•			•	8	-	1
7749010	GS 915/1E PTFE interlock	•				•	8	-	1
7749023	KB 915/1E/M32 PTFE		•	•			8	-	1
7490417	KS 915/1E PTFE Sym KV	•			•		8	-	1
7490415	KS 915/1E/M32 PTFE	•		•			8	-	1
7749088	GB 915/2I PTFE		•			•	7	2	-
7749082	GS 915/2I PTFE	•				•	7	2	-
7749057	KB 915/2I/M32 PTFE		•	•			7	2	-
7749053	KS 915/2I PTFE Sym KV	•			•		7	2	-
7749058	KS 915/2I/M32 PTFE	•		•			7	2	-
7749070	GB 915/2I/1E PTFE		•			•	6	2	1
7749080	GS 915/2I/1E PTFE	•				•	6	2	1
7749059	KB 915/2I/1E/M32 PTFE		•	•			6	2	1
7749087	KS 915/2I/1E PTFE Sym KV	•			•		6	2	1
7749090	KS 915/2I/1E/M32 PTFE	•		•			6	2	1

\*HV = High Voltage  
\*LV = Low Voltage

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV
Rated current	30 A

Characteristics	
Number of pins high voltage (HV)	9
Number of pins E-contact 2.5 mm (LV)	-
Number of pins I-contact 1.5 mm (LV)	-
Insulation material	PTFE



Type / Version / Part number	Drawing	
Type: receptacle, panel mount Version: GB 915/PTFE Part no. 7490600		
Type: plug, panel mount Version: GS 915/PTFE Part no. 7490200		
Type: receptacle, cable mount, without cable gland Version: KB 915/M32/PTFE Part no. 7490811 <i>(order cable gland separately)</i>		
Type: plug, cable mount, symmetric cable gland Version: KS 915/PTFE/Sym KV Part no. 7490400		
Type: plug, cable mount, without cable gland Version: KS 915/M32/PTFE Part no. 7490416 <i>(order cable gland separately)</i>		

→ *Contacts, cable glands and accessories on pages 125-128*  
*Mounting instructions on pages 129-134*

drawing - dimensions in mm

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV
Rated current	30 A

Characteristics	
Number of pins high voltage (HV)	8
Number of pins E-contact 2.5 mm (LV)	1
Number of pins I-contact 1.5 mm (LV)	-
Insulation material	PTFE



Type / Version / Part number	Drawing	
Type: receptacle, panel mount Version: GB 915/1E/PTFE Part no. 7749011		
Type: plug, panel mount Version: GS 915/1E/PTFE interlock Part no. 7749010		
Type: receptacle, cable mount, without cable gland Version: KB 915/1E/M32/PTFE Part no. 7749023 <i>(order cable gland separately)</i>		
Type: plug, cable mount, symmetric cable gland Version: KS 915/1E/PTFE/Sym KV Part no. 7490417		
Type: plug, cable mount, without cable gland Version: KS 915/1E/M32/PTFE Part no. 7490415 <i>(order cable gland separately)</i>		

drawing - dimensions in mm

→ **Contacts, cable glands and accessories on pages 125-128**  
**Mounting instructions on pages 129-134**

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV
Rated current	30 A

Characteristics	
Number of pins high voltage (HV)	7
Number of pins E-contact 2.5 mm (LV)	-
Number of pins I-contact 1.5 mm (LV)	2
Insulation material	PTFE



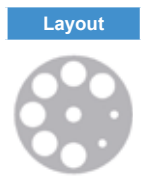
Type / Version / Part number	Drawing	
Type: receptacle, panel mount Version: GB 915/2I/PTFE Part no. 7749088		
Type: plug, panel mount Version: GS 915/2I/PTFE Part no. 7749082		
Type: receptacle, cable mount, without cable gland Version: KB 915/2I/M32/PTFE Part no. 7749057 <i>(order cable gland separately)</i>		
Type: plug, cable mount, symmetric cable gland Version: KS 915/2I/PTFE/Sym KV Part no. 7749053		
Type: plug, cable mount, without cable gland Version: KS 915/2I/M32/PTFE Part no. 7749058 <i>(order cable gland separately)</i>		

→ *Contacts, cable glands and accessories on pages 125-128*  
*Mounting instructions on pages 129-134*

drawing - dimensions in mm

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV
Rated current	30 A

Characteristics	
Number of pins high voltage (HV)	6
Number of pins E-contact 2.5 mm (LV)	1
Number of pins I-contact 1.5 mm (LV)	2
Insulation material	PTFE





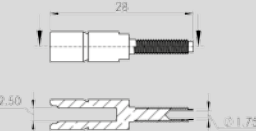

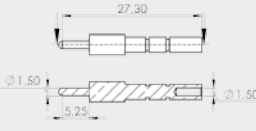

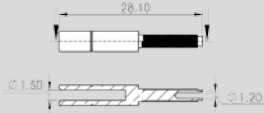

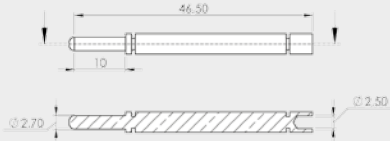

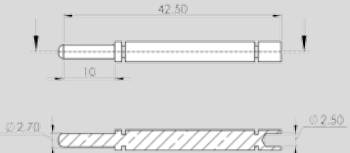

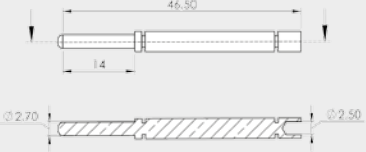

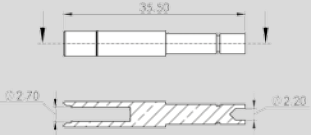

Type / Version / Part number	Drawing	
Type: receptacle, panel mount Version: GB 915/2I/1E/PTFE Part no. 7749070		
Type: receptacle, panel mount Version: GS 915/2I/1E/PTFE Part no. 7749080		
Type: receptacle, cable mount, without cable gland Version: KB 915/2I/1E/M32/PTFE Part no. 7749059 <i>(order cable gland separately)</i>		
Type: plug, cable mount, symmetric cable gland Version: KS 915/2I/1E/PTFE/Sym KV Part no. 7749087		
Type: plug, cable mount, without cable gland Version: KS 915/2I/1E/M32/PTFE Part no. 7749090 <i>(order cable gland separately)</i>		

drawing - dimensions in mm

→ *Contacts, cable glands and accessories on pages 125-128*  
*Mounting instructions on pages 129-134*

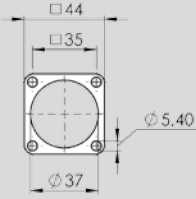
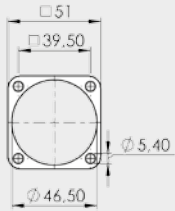
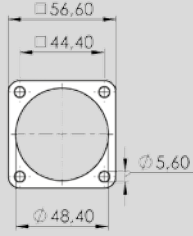
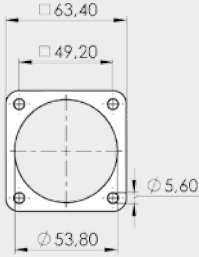


Contacts

Part no.	Description	Drawing	Picture
6574015	LV male contact 3/5 (E) 2.5 mm nickel plated for connector size M3 / M5		
6572005	LV female contact 3/5 (E) 2.5 mm nickel plated for connector size M3 / M5		
6574020	LV male contact 3/5 (I) 1.5 mm nickel plated for connector size M3 / M5		
6574002	LV female contact 3/5 (I) 1.5 mm nickel plated for connector size M3 / M5		
6571012	HV male contact 2.7 mm standard for connector size M7 / M9, silver plated		
6571013	HV standard male contact 2.7 mm for connectors Size M3 / M5, male inter- lock contact for size M9 silver plated		
6571014	HV male interlock contact 2.7 mm for connectors Size M5, silver plated		
6571002	HV female contact 2.7 mm standard for connectors Size M3 / M5 / M7 / M9, silver plated		

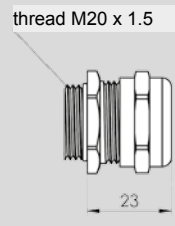
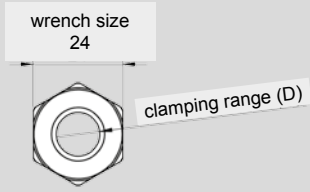
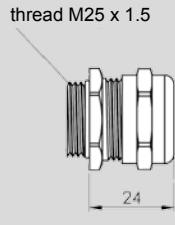
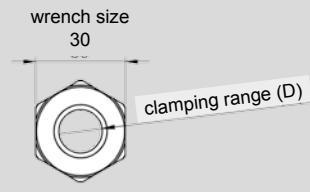
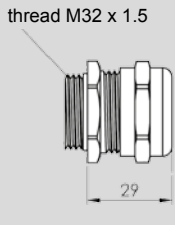
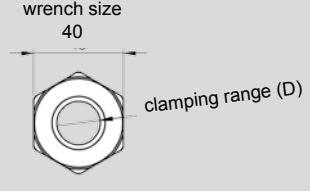
drawing - dimensions in mm

## Gaskets

Part no.	Description	Drawing
6572050	flat gasket Size M3	
6572051	flat gasket Size M5	
6572052	flat gasket Size M7	
6572053	flat gasket Size M9	

drawing - dimensions in mm

**Screwed cable glands**

Part no.	Description	Clamping range (D) in mm	Drawing	
1674111	screwed cable gland M20 x 1.5, 7-12 mm	7-12	 <p>thread M20 x 1.5</p> <p>23</p>	 <p>wrench size 24</p> <p>clamping range (D)</p>
1674110	screwed cable gland M20 x 1.5, 10-14 mm	10-14		
1674119	screwed cable gland M25 x 1.5, 9-16 mm	9-16	 <p>thread M25 x 1.5</p> <p>24</p>	 <p>wrench size 30</p> <p>clamping range (D)</p>
1674117	screwed cable gland M25 x 1.5, 13-18 mm	13-18		
1674082	screwed cable gland M32 x 1.5, 13-20 mm	13-20	 <p>thread M32 x 1.5</p> <p>29</p>	 <p>wrench size 40</p> <p>clamping range (D)</p>
1674078	screwed cable gland M32 x 1.5, 18-25 mm	18-25		

drawing - dimensions in mm

## Thread reductions

Part no.	Description
1674045	Reduction PG29 to PG21
1674046	Reduction PG29 to PG16
1674047	Reduction M25 to M20
1674063	Reduction M25 to M16
1674057	Reduction M32 to M25
1674084	Reduction M32 to M20

## Thread extensions

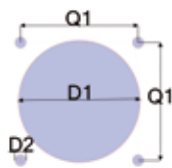
Part no.	Description
1674062	Extension PG21 to PG29
1674106	Extension M20 to M25
1674108	Extension M25 to M32

1.



Part as supplied

2.



Panel cut out

Connector size	Q1 [mm]	D1 [mm]	D2 [mm]
M3	34.90	35.90	3.75
M5	39.65	42.20	3.75
M7	44.45	49.30	4.40
M9	49.25	54.90	4.40

3.



Carefully remove cable jacket  
(L1 = min. 65mm)  
⚠ Do not damage metal shield braid

4.



Fold back shield braid.

5.



Remove any filling elements from cable  
⚠ Do not damage dielectric insulations

6.



Remove dielectric insulation of single wires  
(L2 = 5mm)  
⚠ Do not damage conductors

7.



Slide one shrinking tube on each single wire.

8.



Solder one conductor on each female contact

9.



Slide shrinking tubes on insulation parts and shrink tubes - shrinking temperature 100° C

10.



Assembly finished.

# Assembly Instructions Series M (plug, panel mount)

1.



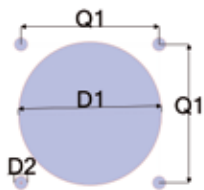
Part as supplied

2.



Remove snap rings (1) and take out male contacts (2)

3.



Panel cut out

Connector size	Q1 [mm]	D1 [mm]	D2 [mm]
M3	34.90	35.90	3.75
M5	39.65	42.20	3.75
M7	44.45	49.30	4.40
M9	49.25	54.90	4.40

4.



Carefully remove cable jacket (L1 = min. 65mm)  
⚠ Do not damage metal shield braid

5.



Fold back shield braid.

6.



Remove any filling elements from cable  
⚠ Do not damage dielectric insulations

7.



Remove dielectric insulation of single wires (L2 = 5mm)  
⚠ Do not damage conductors

8.



Solder one male contact (2) on each conductor

9.



Slide single wires completely into insulation tubes

10.



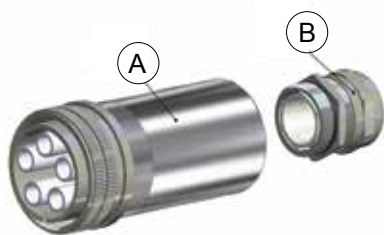
Fix male contacts (2) with snap rings (1)

11.



Assembly finished.

1.



**Part as supplied**  
Connector housing (A)  
Optional: Screwed cable gland (B)

2.



**Components**  
Screwed cable gland (B): cap (1), sealing insert (2), cable gland basis (3)  
  
Connector housing (A): housing adapter (4), shrinking tubes (5), housing basis (6)

3.



**Screw cable gland basis (3) to housing adapter (4)**

Screwed cable gland size	Wrench size (SW 1)	Tightening torque [Nm]
M16	20	6
M20	24	10
M25	30	14
M32	40	24

4.



**Place cap (1), sealing insert (2) and housing adapter (4) on cable.**  
⚠️ Respect correct order of parts (see picture)

5.



**Remove cable jacket**  
⚠️ Do not damage shield braid

Connector size	L1 [mm]
M3 / M5 / M7	45
M9	60

6.



**Fold back shield braid over jacket**

7.



**Fix shield braid with tape**

8.



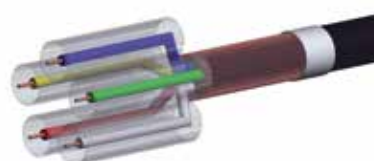
**Remove any filling elements from cable**

9.



**Remove dielectric insulation (L2 = min. 5 mm)**

10.



**Place shrinking tubes on single wires.**

# Assembly Instructions Series M (receptacle, cable mount)

11.



Solder one conductor each on a female contact  
 ⚠ Tin-solder should not remain on contact surface  
 Do not damage shrinking tubes

12.



Place shrinking tubes on insulators. Tubes shall cover both insulators and wires. Then shrink tubes. Shrinking temperature 100° C

13.



Screw adapter (4) to housing basis (6)

14.



Remove tape

15.



Completely widen shield braid

16.



Completely slide seal insert (2) under shield braid into cable gland basis (3)

17.



Cut overlapping shield braid  
 ⚠ Carefully remove shield strands. Loose strands can cause electrical break down

18.



Screw cable gland cap (1) to cable gland basis (3)

Screwed cable gland size	Wrench size (SW)	Tightening torque [Nm]
M16	20	5
M20	24	8
M25	30	12
M32	40	20

19.



Assembly finished



1.



**Part as supplied**  
Connector housing (A)  
Optional: Screwed cable gland (B)

2.



**Components**  
Screwed cable gland (B): cap (1), sealing insert (2), cable gland basis (3)

Connector housing (A): housing adapter (4), housing basis (5)

3.



**Remove contacts if supplied mounted**  
Remove snap rings (6) and take out male contacts (7)

4.



**Screw cable gland basis (3) to housing adapter (4)**

Screwed cable gland size	Wrench size (SW 1)	Tightening torque [Nm]
M16	20	5
M20	24	8
M25	30	12
M32	40	20

5.



**Place cap (1), sealing insert (2) and housing adapter (4) on cable.**  
⚠ Respect correct order of parts (see picture)

6.



**Fold back shield braid over jacket**  
⚠ Do not damage shield braid

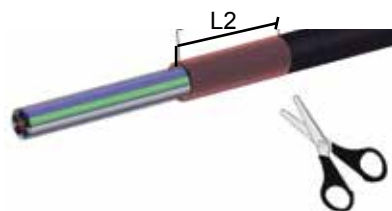
Connector size	L1 [mm]
M3 / M5 / M7	70
M9	85

7.



**Fold back shield braid over jacket**

8.



**Shorten shield braid to length L2 = 40 mm**

9.



**Fix shield braid with tape**

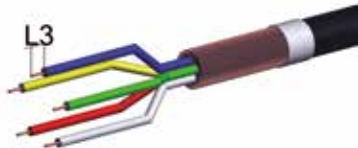
10.



**Remove any filling elements from cable**

# Assembly Instructions Series M (plug, cable mount)

11.



Remove dielectric insulation  
(L3 = min. 5mm)

12.



Solder male contacts (7) on conductor  
⚠ Tin-solder must not remain on contact surface

13.



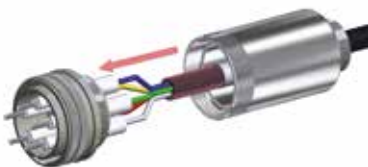
Slide contacts (7) completely into insulation tubes (5)

14.



Fix contacts (7) with snap rings (6)

15.



Screw adapter (4) to housing basis (5)

16.



Remove tape

17.



Completely widen shield braid

18.



Completely slide seal insert (2) under shield braid into cable gland basis (3)

19.



Cut overlapping shield braid  
⚠ Carefully remove shield strands. Loose strands can cause electrical break down

20.



Screw cable gland cap (1) to cable gland basis (3)

Screwed cable gland size	Wrench size (SW)	Tightening torque [Nm]
M16	20	5
M20	24	8
M25	30	12
M32	40	20

21.



Assembly finished