

Connect
with GES

GES

We connect High Voltage

基易斯连接器（上海）有限公司

T:150 210 98804

www.ges-highvoltage.cn

高压连接器

德国制造





DIN EN ISO 9001
DIN EN ISO 14001

certified quality management system according
ISO 9001.

The implemented quality control measures are
described in a quality management manual.

Since December 2015 GES has a certified environ-
mental management system according ISO 14001.

All GES products are in compliance with EU
directives 2002/95/EG (RoHS), 2002/96/EG,
2003/11/EG and 2011/65/EU.

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General information

For the use of high voltage connectors please see the
specific equipment regulations and standards with its
particular requirements.

It is the users responsibility to check whether the
components illustrated in this catalogue comply with
different regulations from those stated in special fields
of application which we are unable to foresee.

We reserve the right to modify designs in order to
improve quality, keep pace with technological advance-
ment or meet particular requirements in production. All
technical data, dimensions or characteristics are stated
with the proviso of error or modification. With the data
given in this catalogue the components are specified
but no properties are guaranteed.

High voltage connectors are under no EU-Directive and
therefore must not bear the CE marking.

Safety Instructions

Do not mate or unmate High Voltage Connectors under
load. Protection against electric shock has to be ensured
by correct mounting according the mounting type of the
connector. The connectors may be used only within
the technical ratings. Please be aware that design,
installation and inspection of machinery and devices
carrying high voltage urgently require accordingly
trained and qualified personnel. Improper handling of
high voltage can cause severe injuries or even death
and may cause serious collateral damage!

Testing advice

Ratings listed in this catalogue apply to clean connector
pairs (pollution degree 1) in standard atmospheric
conditions. No warranty or merchantability or fitness for
a particular purpose is made and all customers must
test each component to determine that it meets their
operating and reliability requirements. When connectors
are used in an adverse environment, other than stated
- such as high temperature, humidity, pollution content,
extreme mechanical exposure etc. – the connector
should be derated.

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The indicated dimension with the panel cut-outs repre-
sent reference values and are in the concrete applica-
tion with products to be co-ordinated. This catalogue
must not be used in any form or manner without our
prior approval in writing (Copyright Law, Fair Trade Law,
Civil Code).

Catalogue Vers.: 23.07

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MC Series

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M Series

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MOD Series

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ABOUT GES

GES is a specialized manufacturer of highly reliable premium high voltage connectors. Transmitting voltages up to 100 kV DC in precision equipment and facilities, GES is established in high-technology markets from the semiconductor industry to particle physics.

Providing a large variety in diverse configurations as well as applications-specific customizations GES products are favored by demanding customers worldwide and are deemed as solid and well-engineered solutions for sensitive applications in industry and science.

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For inquiries from other countries than stated above
please refer to the according regional representative at

GES

MAKE or BUY?

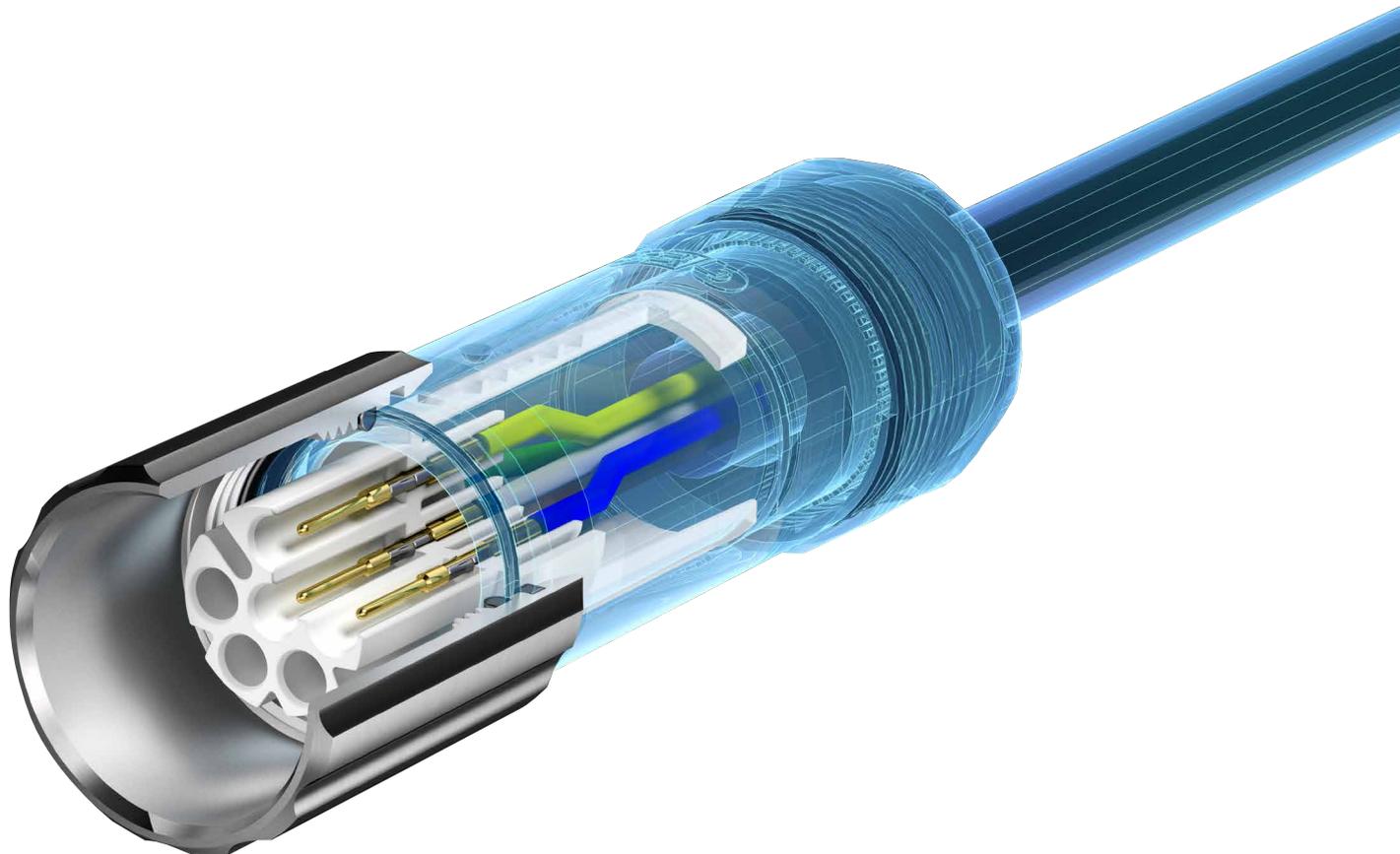
Growing competitive pressure and accelerated innovation cycles demand flexibility and cost optimization at increased market dynamics. Many companies must ask themselves the question: shall we produce it, or have it produced?

- **STRENGTHENED INNOVATION DYNAMICS AND INCREASE SOLUTION COMPETENCE**

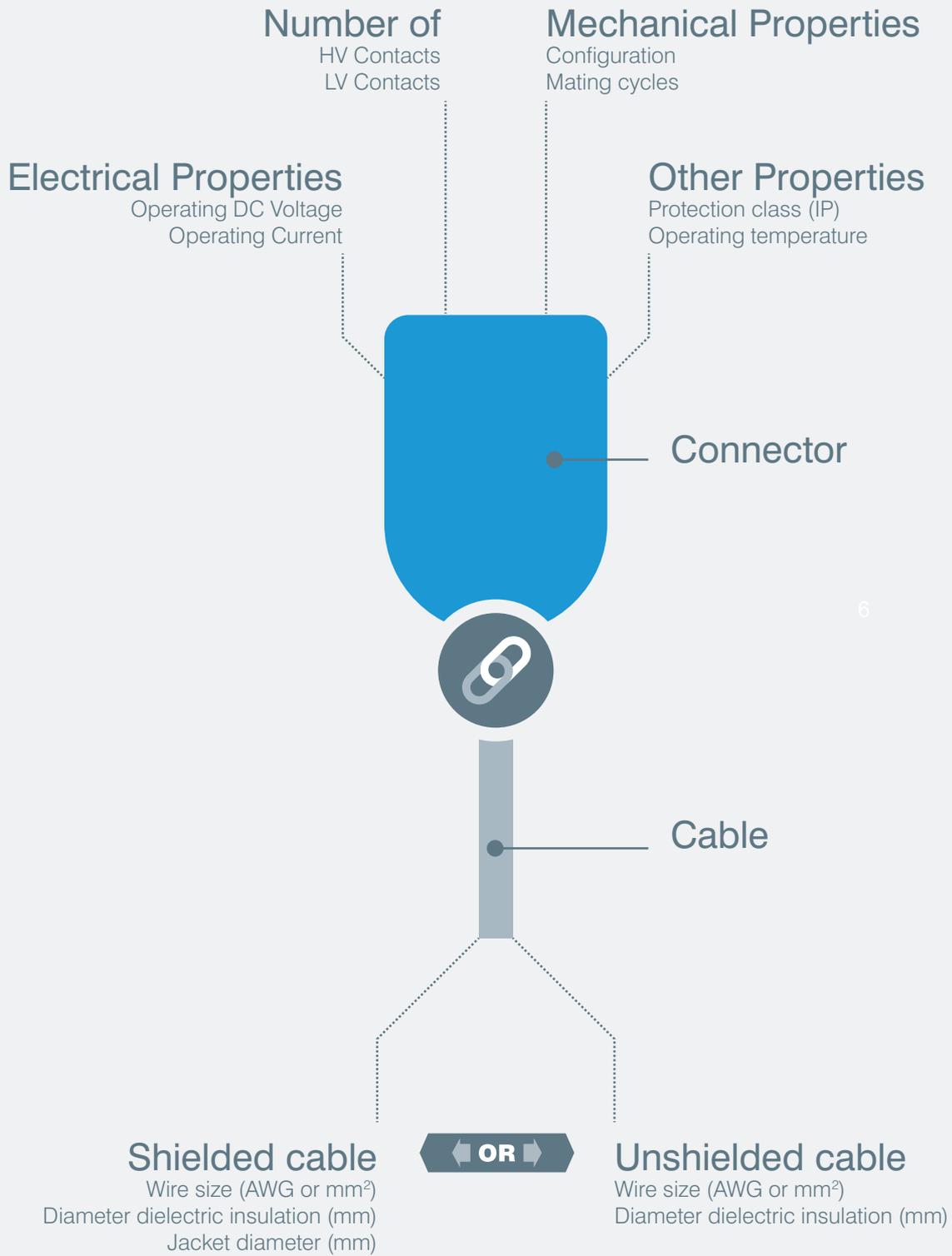
As a specialized company we have a high innovation momentum, from which you can profit **directly**. State-of-the-art construction IT, 3D prototyping and the latest measurement technology enable us to keep pace with the growing demands of our customers and to realize customized development projects in a timely manner. In addition, our standard products are continually being modernized to provide our customers with an optimal and solid solution.

- **VALUE CREATION AND COST REDUCTION**

Bundle your resources and focus on your core competencies. Costs for development, production, assembly, testing, warehousing, quality management and administration of high voltage connectors are obstacles for your lean production and can be handled by us more efficiently due to composite effects. With short and reliable delivery times (even for small quantities) and blanked orders, we can also supply you just-in-time.



Product Finder – Check List



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Product Overview High Voltage Connectors

Single pin connectors



	Series S	Series 100	Series 200
Operating voltage (DC)	10 - 40 kV	10 - 100 kV	10 - 100 kV
Operating current	30 A	30 / 80 A	30 / 80 A
Max. diameter of dielectric cable insulation	5.0 mm	10.0 mm	see data sheet
Max. jacket diameter of cable	6.5 mm	14.0 mm	see data sheet
Wire sizes	AWG 22 - 14	AWG 22 - 8	AWG 22 - 14

VarioPro full plastic connectors



	VarioPro CL	VarioPro CL-B	VarioPro Basic	VarioPro SB10
Operating voltage DC	13 kV	13 kV	8 kV	10 kV
Operating current	13 A	13 A	13 A	30 A
Number of poles	1 - 3	1 - 3	1 - 2	1
Max. diameter of dielectric cable insulation	4.0 mm	4.0 mm	4.0 mm	7.2 mm
Wire sizes	AWG 26 - 14	AWG 20 - 12	AWG 26 - 14	AWG 14

Multi pin circular connectors



	Series MCS	Series MC	Series M
Operating voltage (DC)	5 kV	10 – 15 kV	12 kV
Operating current	4.5 A	13 A	30 A
Number of pins	2 - 6	2 - 5	2 - 9
Max. diameter of dielectric cable insulation	1.6 mm	4.0 mm	7.0 mm
Wire sizes	AWG 26 - 22	AWG 26 - 14	AWG 22 - 14

Multi pin modular connectors



	MOD-HP	MOD-T
Operating voltage (DC)	12 kV	12 kV
Operating current	25 A	30 A
Number of pins	2 - 14	2 - 14
Max. diameter of dielectric cable insulation	6.2 mm	7.0 mm
Wire sizes	AWG 20 - 12	AWG 22 - 14

Hardwired or plugged?

The decision whether to design a high voltage connection hardwired or pluggable primarily depends on the application. Hardwired connections certainly have their advantages: they transfer more lossless, are cheap to implement, lower the production costs and can therefore initially generate a price advantage in sales.

However, besides the expected maintenance cycles, attention should also be drawn to service and application friendliness. High voltage equipment and systems must be decoupled for maintenance or repair; If the HV connection cannot be

detached quick and easy, the service costs will increase considerably. What was saved on the purchase, will then subsequently return fast.

Devices and systems with plugged solutions do not have to be disconnected or even rewired in the field. One hand is enough, and the maintenance or system engineer can continue with his actual task. System components can quickly be exchanged and replaced, costs are not transferred to the after-sales of the device manufacturer or even to the customer.

"Relocated over the entire lifecycle, HV connectors are often the cheaper solution."

"Significantly shortening downtimes, your customers will."

Modification or development?

Modifications are individual problem solutions that can be implemented relatively quick, even with small quantities, since they are based on standard products and components. By modifying suitable existing types, we can implement application-specific adaptations to unusual requirements. In discussion with you, we work out the optimal configuration for your application.

Exclusive developments are not only functionally advantageous but also a real competitive advantage!

We implement an optimal and tailor-made solution for your problem. Together we work out specifications, feasibility study and preliminary costing and accompany you through your project. Due to high complexity, difficult environmental and operating conditions or special properties, a new development might just be your step ahead...

"Whether modification or development, a solution tailored to the problem guarantees the best possible functionality and economic viability."



Perfect-fit or wangled?

Even with our wide range of high-voltage connectors, we cannot always fulfill all the desired functions. The "suit off the rack" doesn't always fit. But especially in high-voltage applications, the unusual is the everyday. Over the years, we have implemented several customer-specific projects for industry and research, from exclusive developments to

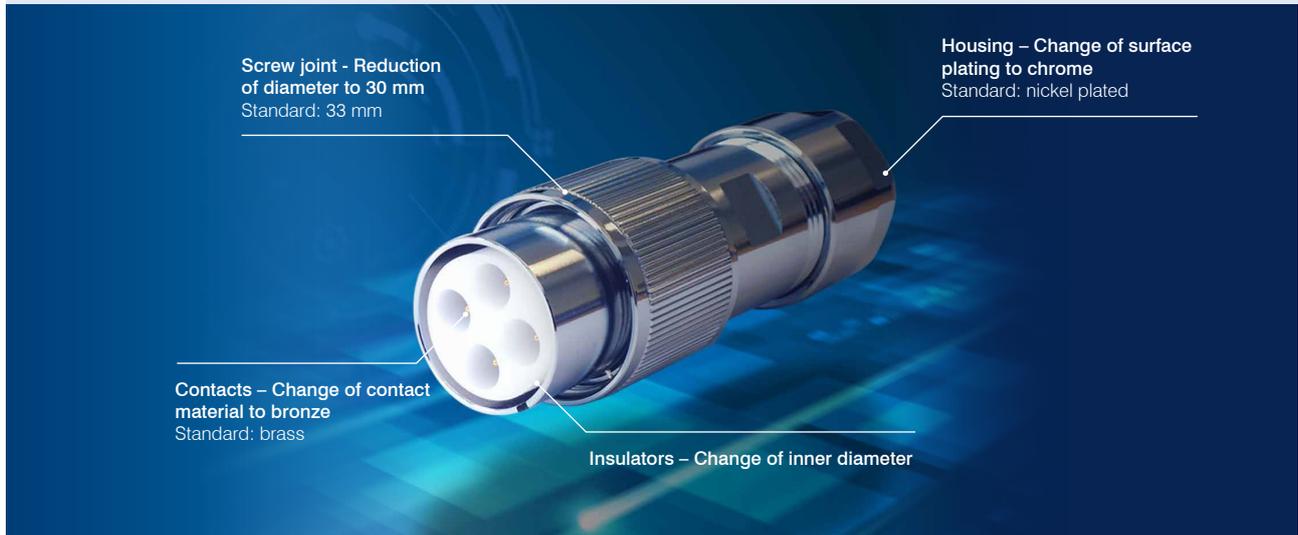
application-specific modifications. Customized solutions often are not as effortful and expensive as presumed and there are a variety of solutions! Let us help to create your perfect-fit high voltage connector and a solid solution for your problem.

"The best and most functional solution is usually also the most cost-effective and sustainable in the long term."



Modification example (CERN):

4-pin, 10 kV DC | *Power Trigger Units for Large Hadron Collider (LHC)*



Exclusive development example (IMS Messsysteme):

2-pin, 1,6 kV pulsed voltage | *NDT in steel industry*

Environmental requirements:
Lubricant, Gamma Ray & UV resistance

Development:
Custom made insulator PFA





Serie S



- Operating voltages up to 40 kVDC
- Operating current up to 30 Amps
- Advanced contact technology
- Silver plated and gold plated contacts available
- High performance insulation material

General characteristics and technical data Series S

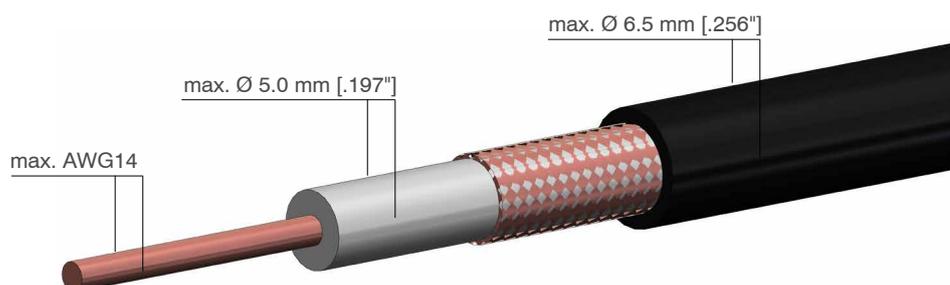
Housing	
Locking system	threaded coupling
Mounting type (panel mount connector)	round flange / 4-hole flange
Housing material	brass (CuZn)
Surface plating	nickel (Ni)
Protection class (mated connector)	IP50
Operating temperature	-30°C to +80°C

Contacts	
Termination method	solder / screw
Rated current	30 A
Max. operating current	40 A
Pulse current	3000 A
Contact resistance	300 $\mu\Omega$
Contact diameter	2.5 mm [.098"]
Max. wire size	AWG 14 / 2.5 mm ²
Contact material	brass (CuZn)
Contact plating	silver (Ag) / gold (Au)
Insertion / Withdrawal force	5.5 N / 1.0 N
Mating cycles	100 K
Rated temperature	+120°C

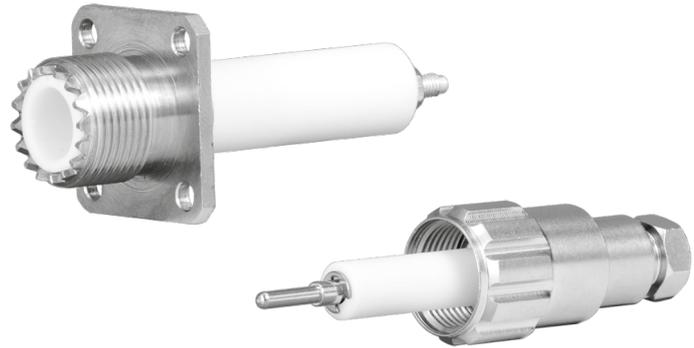
弗尤格（上海）电气设备有限公司

Insulation inserts	
Number of contacts	1
Insulation material	PTFE or POM
Flammability class PTFE	UL94 V-0
Flammability class POM	UL94 HB
CTI value	600
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)

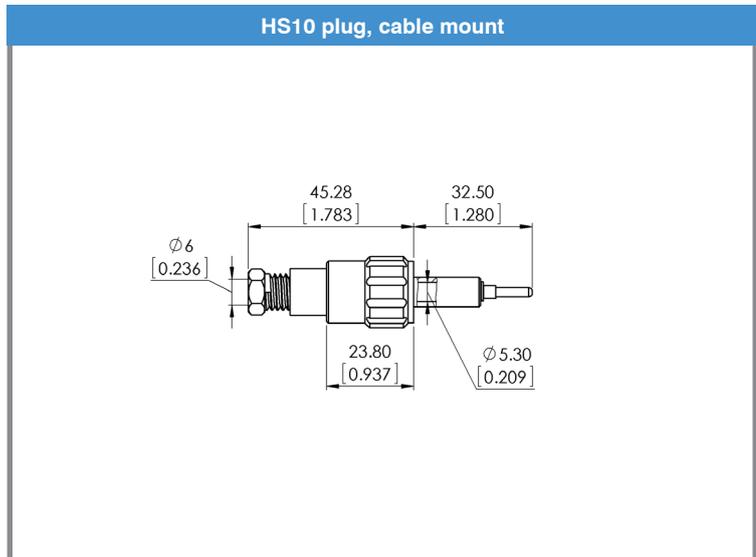
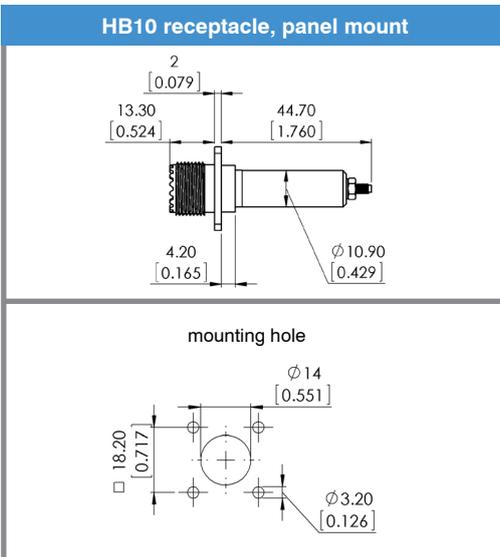
Suitable cable dimensions



Electrical values	
Operating voltage (DC)	10 kV
Test voltage (DC)	15 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Insulation material	PTFE
Mounting type receptacle	4-hole flange
Contact plating	silver (Ag) or gold (Au)



HB10 receptacle, panel mount HS10 plug, cable mount



drawing - dimensions in mm [inch]

Part No.	Description	Plug, cable mount	Receptacle, panel mount	Contact silver plated	Contact gold plated
7310001	HS10 PTFE	•		•	
7310003	HS10/Au PTFE	•			•
7311001	HB10 PTFE		•	•	
7311003	HB10/Au PTFE		•		•

Suitable HV cable, shielded

Part No.	Operating Voltage	Wire size	Outer diameter	Min. bend radius	Temperature range
3330007	30 kVDC	AWG22 (0.35 mm ²)	5.40 mm [.213"]	54 mm [2.126"]	-25 °C / +90 °C

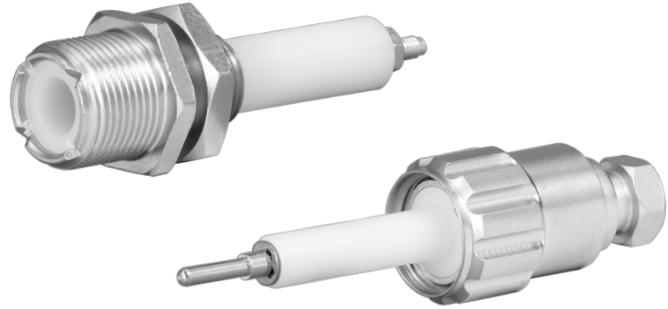
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Electrical values

Operating voltage (DC)	10 kV
Test voltage (DC)	15 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A

Characteristics

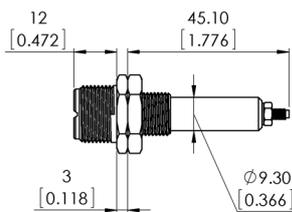
Insulation material	PTFE
Mounting type receptacle	roundflange
Contact plating	silver (Ag) or gold (Au)



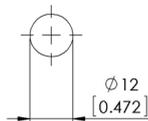
HB11 receptacle, panel mount

HS11 plug, cable mount

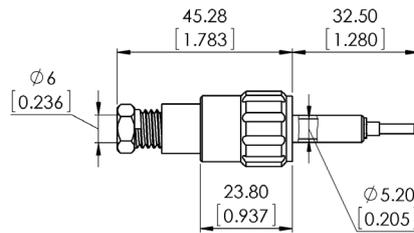
HB11 receptacle, panel mount



mounting hole



HS11 plug, cable mount



drawing - dimensions in mm [inch]

Part No.	Description	Plug, cable mount	Receptacle, panel mount	Contact silver plated	Contact gold plated
7310020	HS11 PTFE	•		•	
7310021	HS11/Au PTFE	•			•
7311020	HB11 PTFE		•	•	
7311021	HB11/Au PTFE		•		•

Suitable HV cable, shielded

Part No.	Operating Voltage	Wire size	Outer diameter	Min. bend radius	Temperature range
3330007	30 kVDC	AWG22 (0.35 mm ²)	5.40 mm [.213"]	54 mm [2.126"]	-25 °C / +90 °C

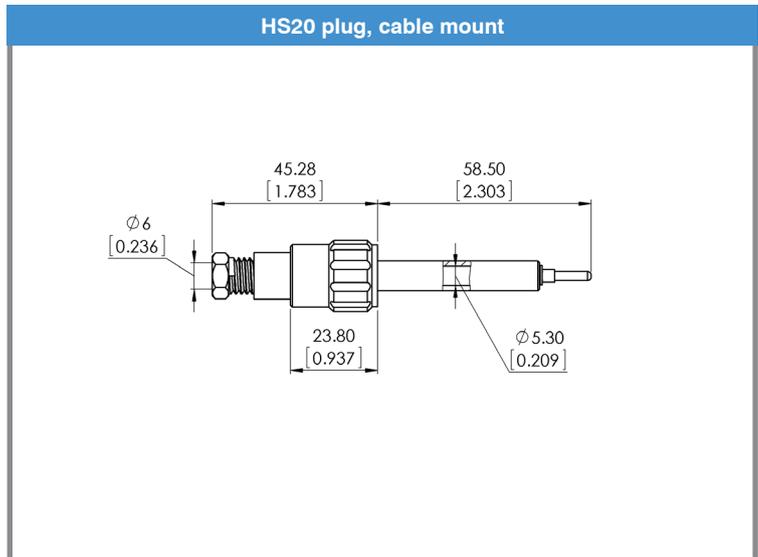
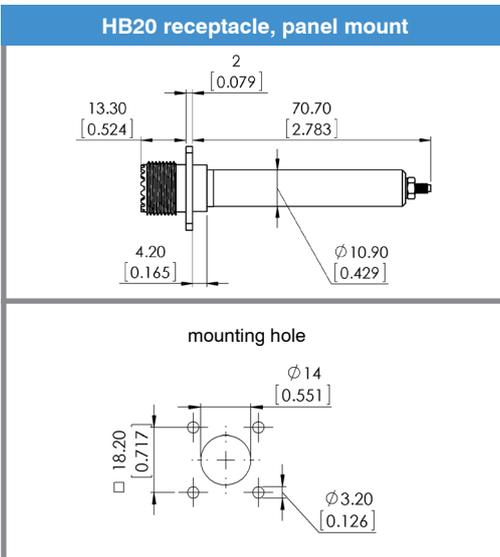


More information: page 26

Electrical values	
Operating voltage (DC)	20 kV
Test voltage (DC)	30 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Insulation material	PTFE
Mounting type receptacle	4-hole flange
Contact plating	silver (Ag) or gold (Au)



HSB20 receptacle, panel mount HS20 plug, cable mount



drawing - dimensions in mm [inch]

Part No.	Description	Plug, cable mount	Receptacle, panel mount	Contact silver plated	Contact gold plated
7320005	HS20 PTFE	•		•	
7320006	HS20/Au PTFE	•			•
7321005	HSB20 PTFE		•	•	
7321006	HSB20/Au PTFE		•		•

Suitable HV cable, shielded

Part No.	Operating Voltage	Wire size	Outer diameter	Min. bend radius	Temperature range
3330007	30 kVDC	AWG22 (0.35 mm ²)	5.40 mm [.213"]	54 mm [2.126"]	-25 °C / +90 °C

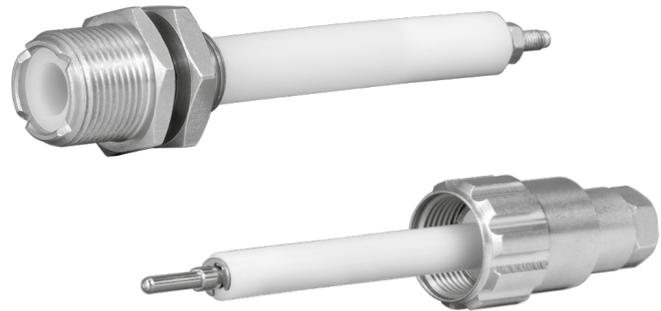
More information: page 26

Electrical values

Operating voltage (DC)	20 kV
Test voltage (DC)	30 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A

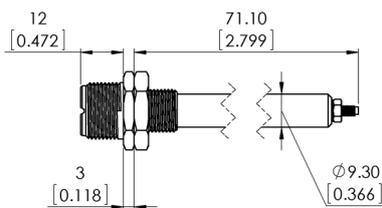
Characteristics

Insulation material	PTFE or POM
Mounting type receptacle	roundflange
Contact plating	silver (Ag) or gold (Au)

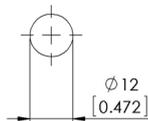


HB21 receptacle, panel mount HS21 plug, cable mount

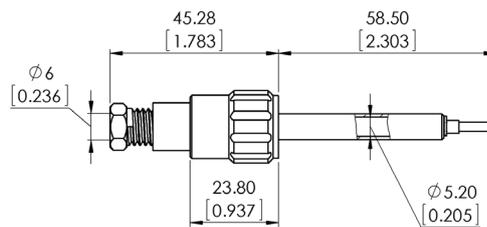
HB21 receptacle, panel mount



mounting hole



HS21 plug, cable mount



drawing - dimensions in mm [inch]

Part No.	Description	Plug, cable mount	Receptacle, panel mount	Insulation PTFE	Insulation POM	Contact silver plated	Contact gold plated
7320010	HS21 POM	•			•	•	
7320013	HS21/Au POM	•			•		•
7320020	HS21 PTFE	•		•		•	
7320023	HS21/Au PTFE	•		•			•
7321010	HB21 POM		•		•	•	
7321013	HB21/Au POM		•		•		•
7321020	HB21 PTFE		•	•		•	
7321022	HB21/Au PTFE		•	•			•

Suitable HV cable, shielded

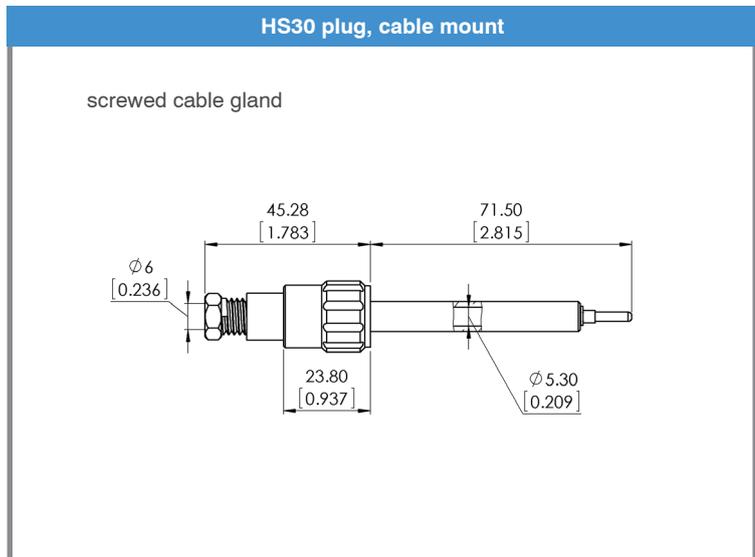
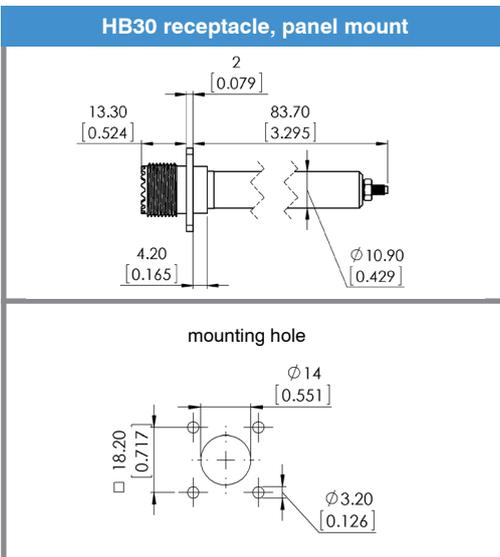
Part No.	Operating Voltage	Wire size	Outer diameter	Min. bend radius	Temperature range
3330007	30 kVDC	AWG22 (0.35 mm ²)	5.40 mm [0.213"]	54 mm [2.126"]	-25 °C / +90 °C

More information: page 26

Electrical values	
Operating voltage (DC)	30 kV
Test voltage (DC)	45 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Insulation material	PTFE
Mounting type receptacle	4-hole flange
Contact plating	silver (Ag) or gold (Au)



HSB30 receptacle, panel mount HS30 plug, cable mount



drawing - dimensions in mm [inch]

Part No.	Description	Plug, cable mount	Receptacle, panel mount	Contact silver plated	Contact gold plated
7331050	HS30 PTFE	•		•	
7331051	HB30 PTFE		•	•	
7331150	HS30/Au PTFE	•			•
7331151	HB30/Au PTFE		•		•

Suitable HV cable, shielded

Part No.	Operating Voltage	Wire size	Outer diameter	Min. bend radius	Temperature range
3330007	30 kVDC	AWG22 (0.35 mm ²)	5.40 mm [.213"]	54 mm [2.126"]	-25 °C / +90 °C

More information: page 26

Electrical values

Operating voltage (DC)	30 kV
Test voltage (DC)	45 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A

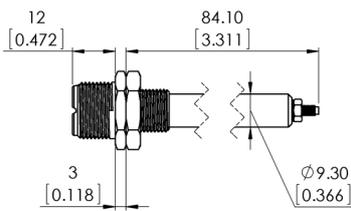
Characteristics

Insulation material	PTFE
Mounting type receptacle	roundflange
Contact plating	silver (Ag) or gold (Au)

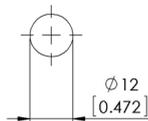


HB31 receptacle, panel mount HS31 plug, cable mount

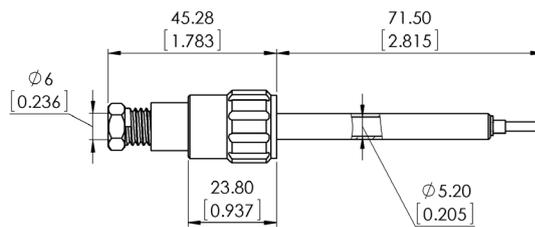
HB31 receptacle, panel mount



mounting hole



HS31 plug, cable mount



drawing - dimensions in mm [inch]

Part No.	Description	Plug, cable mount	Receptacle, panel mount	Contact silver plated	Contact gold plated
7331052	HS31 PTFE	•		•	
7331053	HB31 PTFE		•	•	
7331152	HS31/Au PTFE	•			•
7331153	HB31/Au PTFE		•		•

Suitable HV cable, shielded

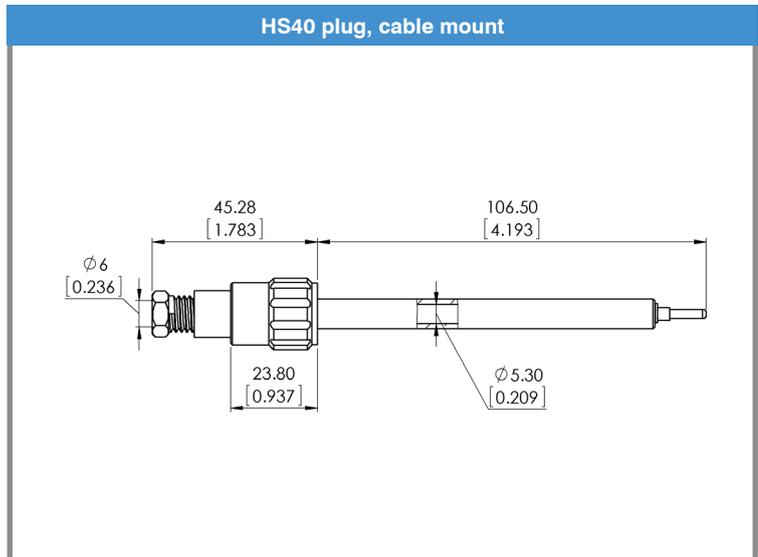
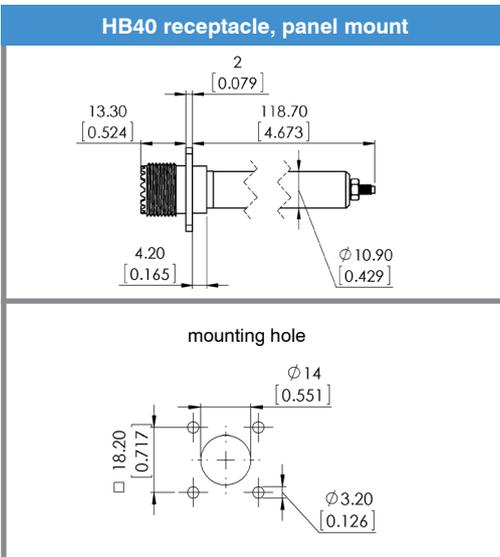
Part No.	Operating Voltage	Wire size	Outer diameter	Min. bend radius	Temperature range
3330007	30 kVDC	AWG22 (0.35 mm ²)	5.40 mm [.213"]	54 mm [2.126"]	-25 °C / +90 °C

More information: page 26

Electrical values	
Operating voltage (DC)	40 kV
Test voltage (DC)	60 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Insulation material	PTFE
Mounting type receptacle	4-hole flange
Contact plating	silver (Ag) or gold (Au)



HB40 receptacle, panel mount HS40 plug, cable mount



drawing - dimensions in mm [inch]

Part No.	Description	Plug, cable mount	Receptacle, panel mount	Contact silver plated	Contact gold plated
7332020	HS40 PTFE	•		•	
7332021	HS40/Au PTFE	•			•
7332030	HB40 PTFE		•	•	
7332031	HB40/Au PTFE		•		•

Electrical values

Operating voltage (DC)	40 kV
Test voltage (DC)	60 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A

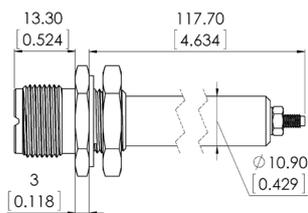
Characteristics

Insulation material	PTFE
Mounting type receptacle	roundflange
Contact plating	silver (Ag) or gold (Au)

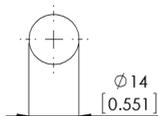


HB41 receptacle, panel mount HS41 plug, cable mount

HB41 receptacle, panel mount

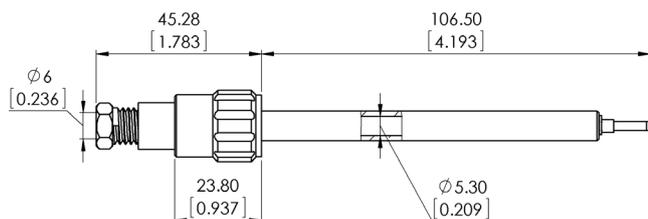


mounting hole



HS41 plug, cable mount

screwed cable gland



drawing - dimensions in mm [inch]

Part No.	Description	Plug, cable mount	Receptacle, panel mount	Contact silver plated	Contact gold plated
7332050	HS41 PTFE	•		•	
7332051	HS41/Au PTFE	•			•
7332040	HB41 PTFE		•	•	
7332041	HB41/Au PTFE		•		•

Contacts

Part No.	Description	Drawing
6572001	male contact 2.5 mm silver plated (Ag)	
6572005	female contact 2.5 mm silver plated (Ag)	
6571025	male contact 2.5 mm gold plated (Au)	
6571027	female contact 2.5 mm gold plated (Au)	

drawing - dimensions in mm [inch]

Gaskets

Part No.	Description	Drawing
6572092	flat gasket, 4-hole mount, NBR, black, for receptacle types HBx0	
6572093	flat gasket, roundflange, NBR, black, for receptacle types HBx1	

drawing - dimensions in mm [inch]

Assembly instructions HS (plug, cable mount)

1.



Part as supplied

2.



Parts included

Screw joint (1), screw (2), washer (3), clamping rubber (4), outer cone (5), basic part (6), snap ring (7), male contact (8).

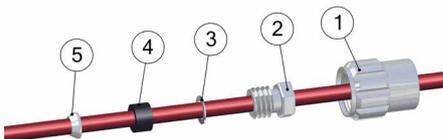
3.



Remove male contact

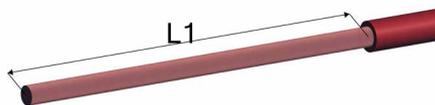
Loose snap ring (7) and take out male contact (8).

4.



Place screw joint (1), screw (2), washer (3), clamping rubber (4), outer cone (5) on cable
 ⚠ Respect correct order of parts (see picture)

5.



Remove cable jacket

Type	L1 mm [inch]
HS 10/11	31 [1.220"]
HS 20/21	56 [2.205"]
HS 30/31	69 [2.717"]
HS 40	104 [4.094"]

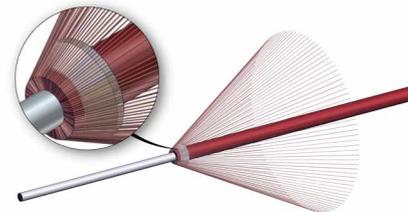
⚠ Do not damage metal shield. Do not damage dielectric insulation. Respect correct order of parts (see picture)

6.



Fold back shield braid over jacket

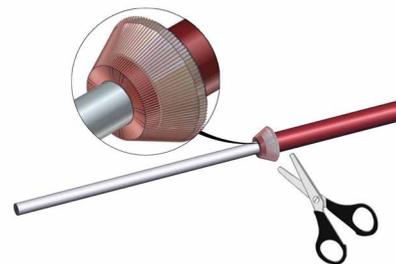
7.



Prepare shield braid for cutting

Completely widen braid. Push outer cone (5) completely under shield braid.

8.



Cut overlapping shield

⚠ Carefully remove shield parts. Loose shield parts can cause electrical break down.

9.



Remove dielectric insulation (L2 = 5mm [.197"])

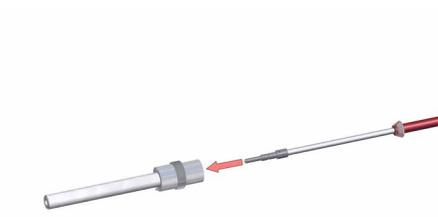
10.



Solder contact (8) on conductor

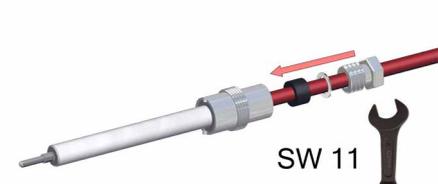
⚠ Tin-solder must not remain on contact surface

11.



Completely insert cable in basic part (6)

12.



Completely slide clamping rubber (4) and washer (3) into basic part (6). Close housing with screw (2) (tightening torque = 3 Nm)

13.



Fix male contact (8) with snap ring (7)

14.



Put screw joint (1) on basic part (6)

15.



Assembly finished



Note – important!

1. Please carefully read assembly instructions before cable assembly.
2. Cable assembly must only be done by trained and qualified personnel.

Assembly instructions GB (plug, cable mount)

1.



Part as supplied

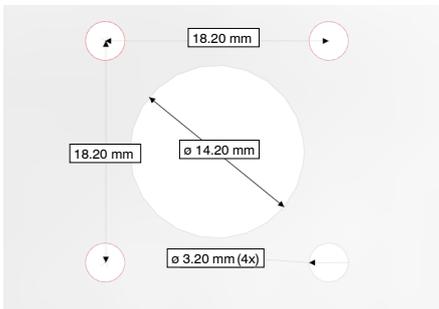
5.



Solder contact (8) on conductor

⚠ Tin-solder must not remain on contact surface

2.



Panel cut out

6.



💡 It is recommended to protect solder point with a shrinking tube (shrinking tube not included).

3.



⚠ For shielded cables: Fold back shield and make sure shield is insulated from solder point (conductor to contact - see step 5.)

4.



Remove dielectric insulation



Note – important!

1. Please carefully read assembly instructions before cable assembly.
2. Cable assembly must only be done by trained and qualified personnel.

Cable assemblies - plugs



Cable characteristics:	Value
Operating voltage	30 kVDC
Wire size	AWG 22 (0.35 mm ²)
Conductor construction	tinned copper
Shield construction	tinned copper braid
Operating temperature	-25 °C to +90 °C
Outer diameter	5.40 mm [.213"]
Color	RED

How to order (Example):		
7310001	007	01000
P/N plug	Cable code	Cable length in mm

Plug cable assemblies type HS10

P/N	Description	Cable length in mm	Contact silver plated	Contact gold plated
7310001.007.xxxxx	HSC10-007 PTFE (length) mm	(xxxxx)	•	
7310003.007.xxxxx	HSC10-007/Au PTFE (length) mm	(xxxxx)		•

Plug cable assemblies type HS11

P/N	Description	Cable length in mm	Contact silver plated	Contact gold plated
7310020.007.xxxxx	HSC11-007 PTFE (length) mm	(xxxxx)	•	
7310021.007.xxxxx	HSC11-007/Au PTFE (length) mm	(xxxxx)		•

Plug cable assemblies type HS20

P/N	Description	Cable length in mm	Contact silver plated	Contact gold plated
7320005.007.xxxxx	HSC20-007 PTFE (length) mm	(xxxxx)	•	
7320006.007.xxxxx	HSC20-007/Au PTFE (length) mm	(xxxxx)		•

Plug cable assemblies type HS21

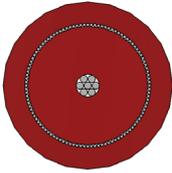
P/N	Description	Cable length in mm	Contact silver plated	Contact gold plated
7320010.007.xxxxx	HSC21-007 POM (length) mm	(xxxxx)	•	
7320013.007.xxxxx	HSC21-007/Au POM (length) mm	(xxxxx)		•
7320020.007.xxxxx	HSC21-007 PTFE (length) mm	(xxxxx)	•	
7320023.007.xxxxx	HSC21-007/Au PTFE (length) mm	(xxxxx)		•

Plug cable assemblies type HS30

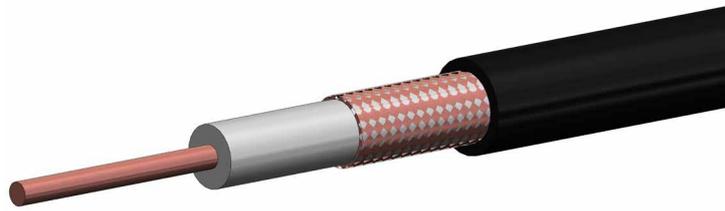
P/N	Description	Cable length in mm	Contact silver plated	Contact gold plated
7331050.007.xxxxx	HSC30-007 PTFE (length) mm	(xxxxx)	•	
7331150.007.xxxxx	HSC30-007/Au PTFE (length) mm	(xxxxx)		•

Plug cable assemblies type HS31

P/N	Description	Cable length in mm	Contact silver plated	Contact gold plated
7331052.007.xxxxx	HSC31-007 PTFE (length) mm	(xxxxx)	•	
7331152.007.xxxxx	HSC31-007/Au PTFE (length) mm	(xxxxx)		•



Cross section



Cable construction

HV cable for connector types HSB10 – HSB31 (10 – 30 kVDC)

Part No. 3330007	
Description	HV cable 30 kVDC, coaxial cable
Operating voltage	30 kVDC
Test voltage	60 kVDC
Capacitance	82.7 pF/m
Conductor resistance	58.7 Ω/km
Insulation resistance	5.000 MΩ x km
Temperature	-25°C to +90°C

Dimensions	
Wire size	AWG22 (0.35 mm ²)
Wire material	CuSn
Wire structure	7 x 0.25 mm [.010"]
Dielectric insulation material	PE, red
- diameter	3.9 mm [.154"]
Screen material	CuSn
- diameter	4.4 mm [.173"]
Jacket material	PVC, red
- diameter	5.4 mm [.213"]

100 Series



MOD Series
M Series
MC Series
MCS Series
VP Series
200 Series
100 Series
S Series

- Operating voltage up to 100 kVDC
- Operating current up to 80 Amps
- Advanced contact technology
- Oil tight receptacles available
- High performance insulation materials thermoplast

General characteristics and technical data Series 100

100 Series

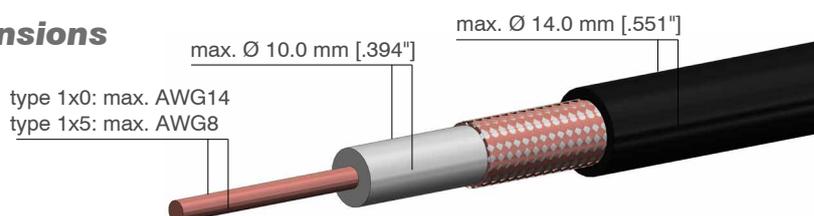
Housing	
Locking system	threaded coupling
Mounting type (panel mount connector)	round flange
Housing material	brass (CuZn)
Surface plating	nickel (Ni)
Protection class (mated connector)	IP67
Operating temperature	-30°C to +80°C

Contacts 2.5 mm (connector types SB1x0)	
Termination method	solder (male contact), solder / screw (female contact)
Rated current	30 A
Max. operating current	40 A
Pulse current	3000 A
Contact resistance	300 $\mu\Omega$
Contact diameter	2.5 mm [.173"]
Contact diameter	AWG 14 / 2.5 mm ²
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Insertion / Withdrawal force	5.5 N / 4.0 N
Mating cycles	100000
Rated temperature	+120°C

Contacts 5 mm (connector types SB1x5)	
Termination method	solder (male contact), solder / screw (female contact)
Rated current	80 A
Max. operating current	110 A
Pulse current	10000 A
Contact resistance	150 $\mu\Omega$
Contact diameter	5 mm [.197"]
Max. wire size	AWG 8 / 10 mm ²
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Insertion / Withdrawal force	15 N / 10 N
Mating cycles	100000
Rated temperature	+120°C

Insulation inserts	
Number of contacts	1
Insulation material	thermoplast
CTI value	600
Flammability class thermoplast	UL94 V-0
Operating temperature thermoplast	-50°C to +200°C
Insulating material group thermoplast / POM	I (DIN IEC 60664)

Suitable cable dimensions



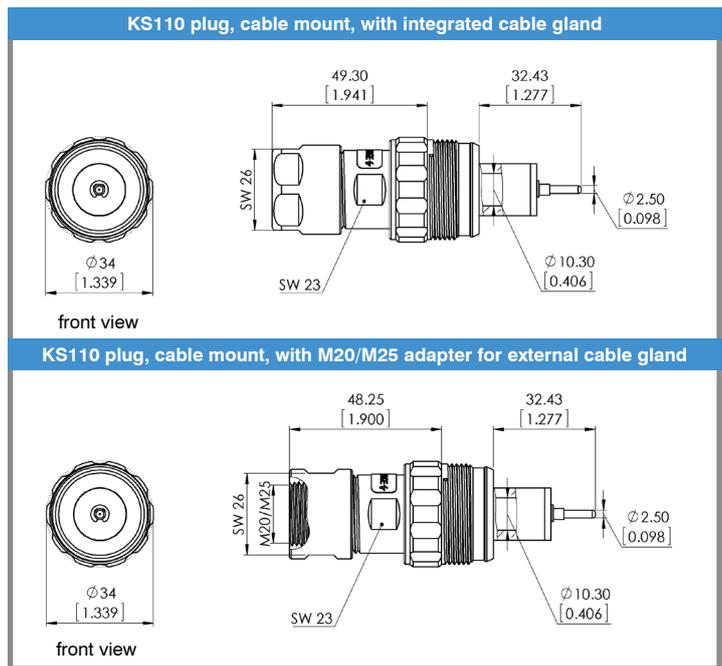
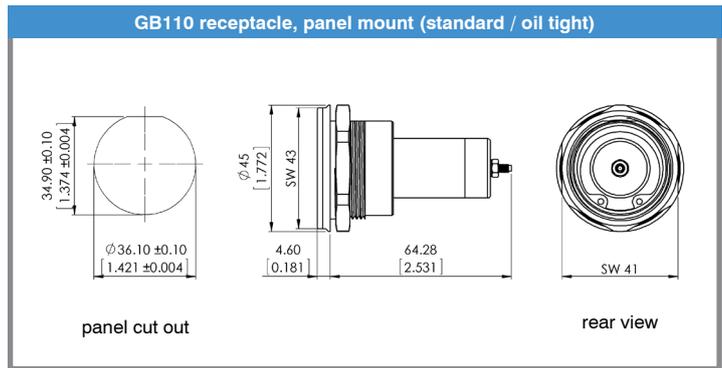


GB110 receptacle, panel mount



KS110 plug, cable mount

Electrical values	
Operating voltage (DC)	10 kV
Test voltage (DC)	15 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Contact size	2.5 mm [.173"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)



drawing - dimensions in mm [inch]

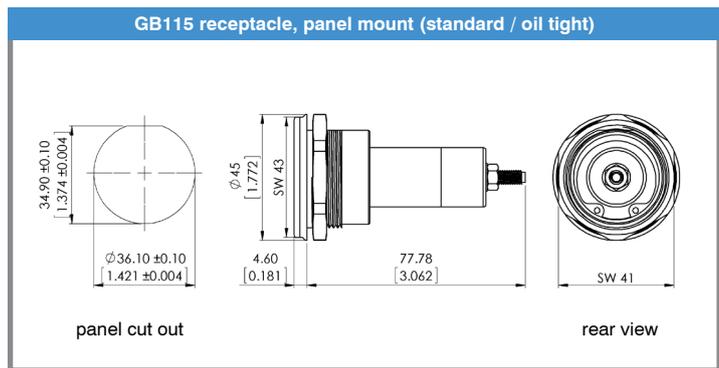
P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200101	KS110/6.5-8 PTFE	•		•					
7200100	KS110/8-9.5 PTFE	•			•				
7200102	KS110/9.5-11 PTFE	•				•			
7200104	KS110/11-12.5 PTFE	•					•		
7200103	KS110/12.5-14 PTFE	•						•	
7200105	KS110/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200106	KS110/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200107	GB110 PTFE		•						
7200108	GB110/Ö PTFE		•						•

*KV = screwed cable gland

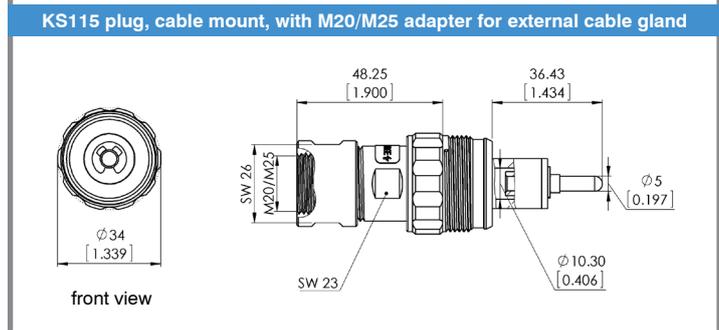
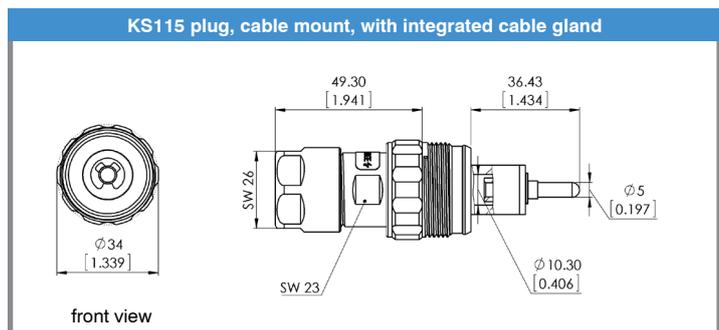
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Mounting instructions: pages 46-49
Cables: pages 50-51



GB115 receptacle, panel mount



KS115 plug, cable mount



Electrical values	
Operating voltage (DC)	10 kV
Test voltage (DC)	15 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A
Characteristics	
Contact size	5 mm [.197"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)

drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200151	KS115/6.5-8 PTFE	•		•					
7200150	KS115/8-9.5 PTFE	•			•				
7200152	KS115/9.5-11 PTFE	•				•			
7200154	KS115/11-12.5 PTFE	•					•		
7200153	KS115/12.5-14 PTFE	•						•	
7200155	KS115/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200156	KS115/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200157	GB115 PTFE		•						
7200158	GB115/Ö PTFE		•						•

*KV = screwed cable gland

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Cables: pages 50-51

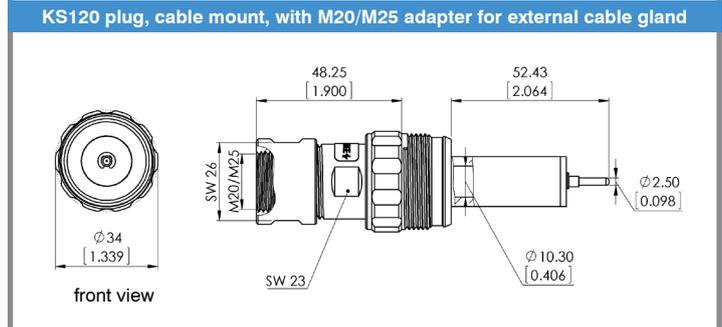
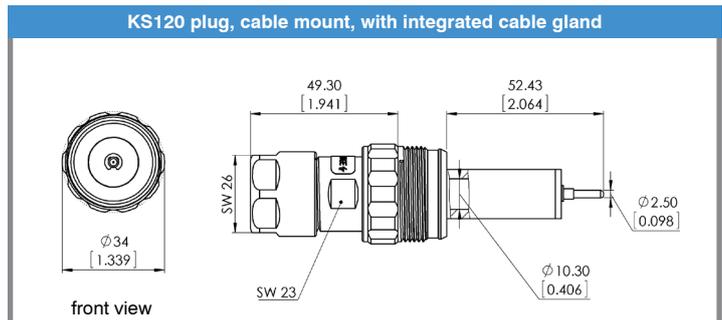
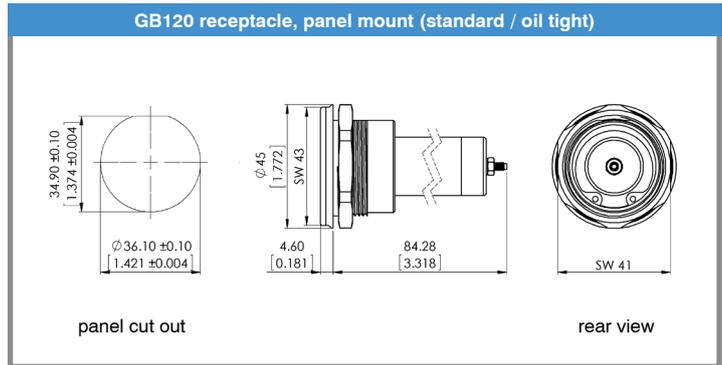


GB120 receptacle, panel mount



KS120 plug, cable mount

Electrical values	
Operating voltage (DC)	20 kV
Test voltage (DC)	30 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Contact size	2.5 mm [.173"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200201	KS120/6.5-8 PTFE	•		•					
7200200	KS120/8-9.5 PTFE	•			•				
7200202	KS120/9.5-11 PTFE	•				•			
7200204	KS120/11-12.5 PTFE	•					•		
7200203	KS120/12.5-14 PTFE	•						•	
7200205	KS120/M20 PTFE	•				with adapter M20x1.5 for external cable gland			
7200206	KS120/M25 PTFE	•				with adapter M25x1.5 for external cable gland			
7200207	GB120 PTFE		•						
7200208	GB120/Ö PTFE		•						•

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Cables: pages 50-51

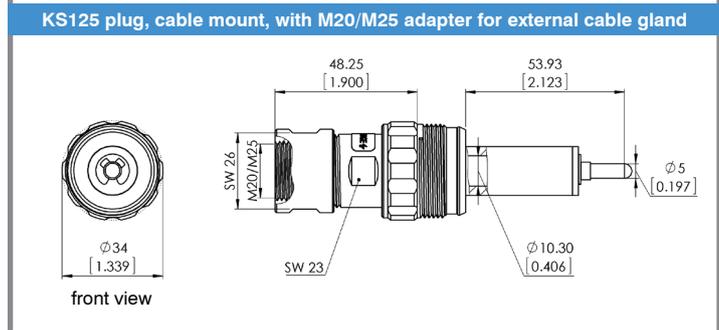
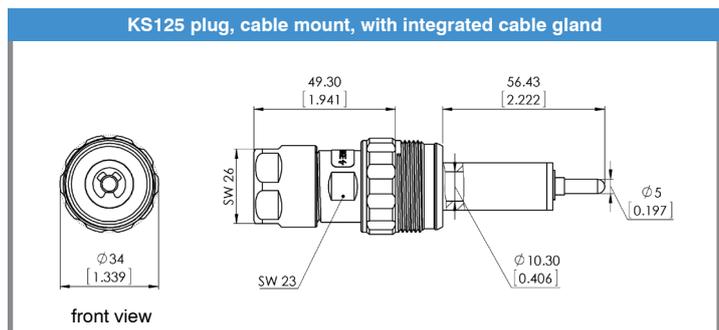
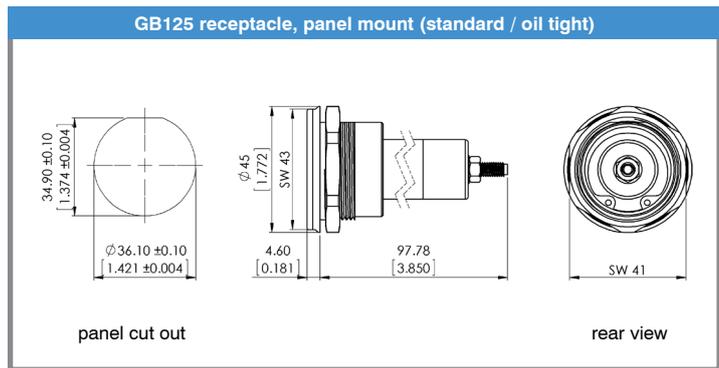
*KV = screwed cable gland



GB125 receptacle, panel mount



KS125 plug, cable mount



drawing - dimensions in mm [inch]

Electrical values	
Operating voltage (DC)	20 kV
Test voltage (DC)	30 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A
Characteristics	
Contact size	5 mm [.197"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200251	KS125/6.5-8 PTFE	•		•					
7200250	KS125/8-9.5 PTFE	•			•				
7200252	KS125/9.5-11 PTFE	•				•			
7200254	KS125/11-12.5 PTFE	•					•		
7200253	KS125/12.5-14 PTFE	•						•	
7200255	KS125/M20 PTFE	•				with adapter M20x1.5 for external cable gland			
7200256	KS125/M25 PTFE	•				with adapter M25x1.5 for external cable gland			
7200257	GB125 PTFE		•						
7200258	GB125/Ö PTFE		•						•

*KV = screwed cable gland

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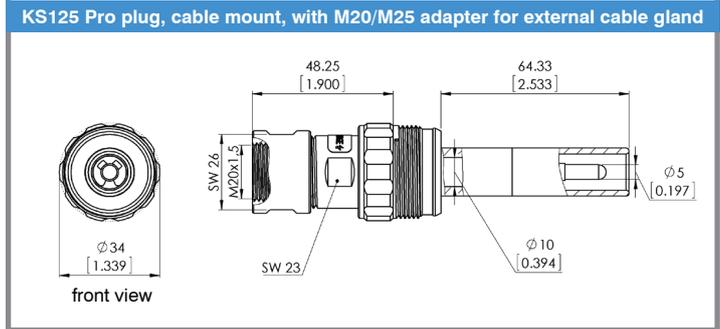
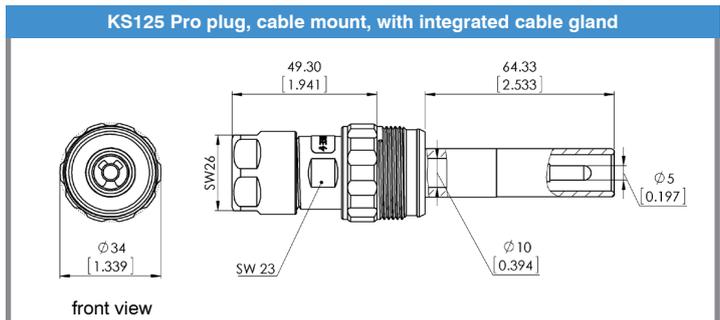
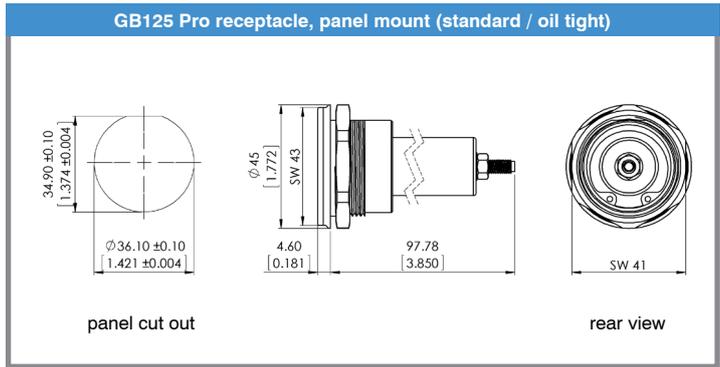


GB125 Pro receptacle, panel mount



KS125 Pro plug, cable mount

Electrical values	
Operating voltage (DC)	20 kV
Test voltage (DC)	30 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A
Characteristics	
Contact size	5 mm [.197"]
Male contact (plug)	finger-proof
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200261	KS125Pro/6.5-8 PTFE	•		•					
7200260	KS125Pro/8-9.5 PTFE	•			•				
7200262	KS125Pro/9.5-11 PTFE	•				•			
7200264	KS125Pro/11-12.5 PTFE	•					•		
7200263	KS125Pro/12.5-14 PTFE	•						•	
7200265	KS125Pro/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200266	KS125Pro/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200267	GB125Pro PTFE		•						
7200268	GB125Pro/Ö PTFE		•						•

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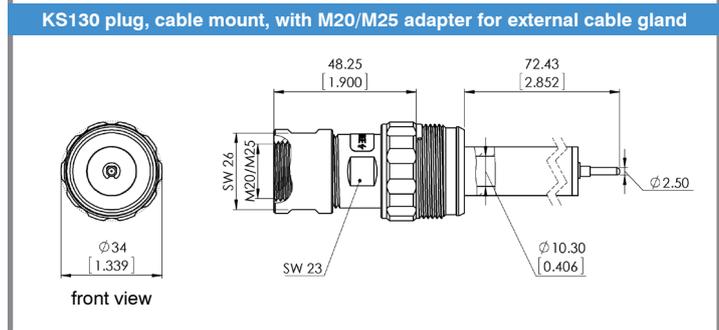
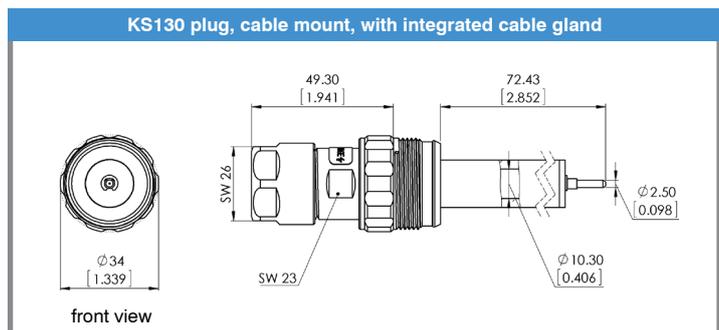
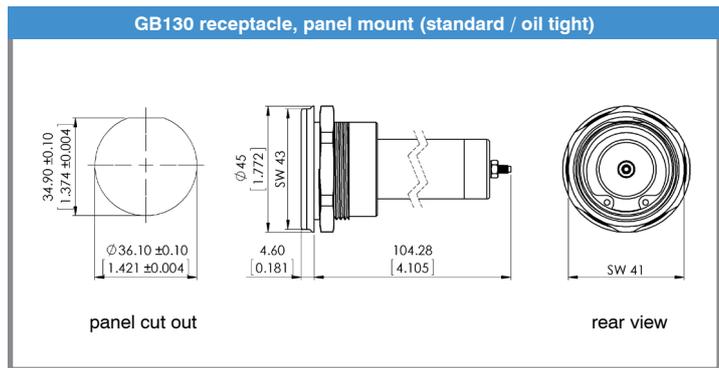
*KV = screwed cable gland



GB130 receptacle, panel mount



KS130 plug, cable mount



Electrical values	
Operating voltage (DC)	30 kV
Test voltage (DC)	45 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Contact size	2.5 mm [.173"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)

drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200301	KS130/6.5-8 PTFE	•		•					
7200300	KS130/8-9.5 PTFE	•			•				
7200302	KS130/9.5-11 PTFE	•				•			
7200304	KS130/11-12.5 PTFE	•					•		
7200303	KS130/12.5-14 PTFE	•						•	
7200305	KS130/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200306	KS130/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200307	GB130 PTFE		•						
7200308	GB130/Ö PTFE		•						•

*KV = screwed cable gland

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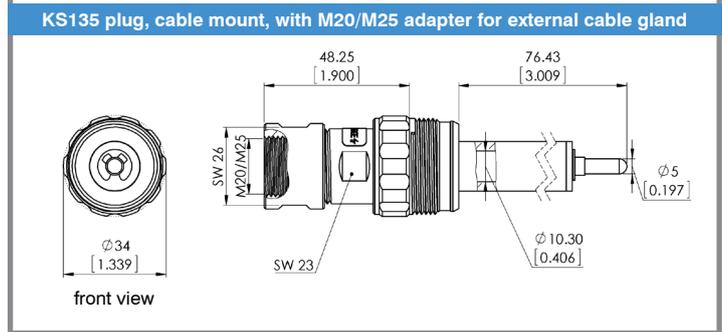
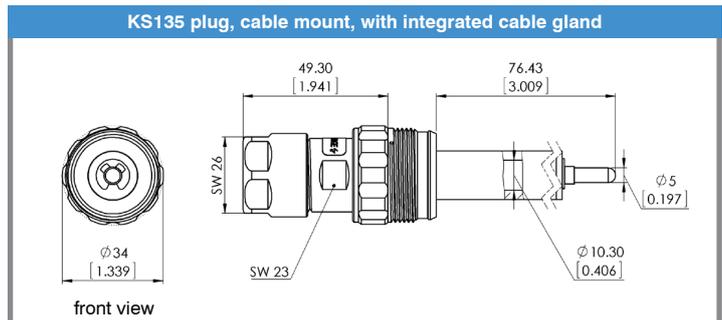
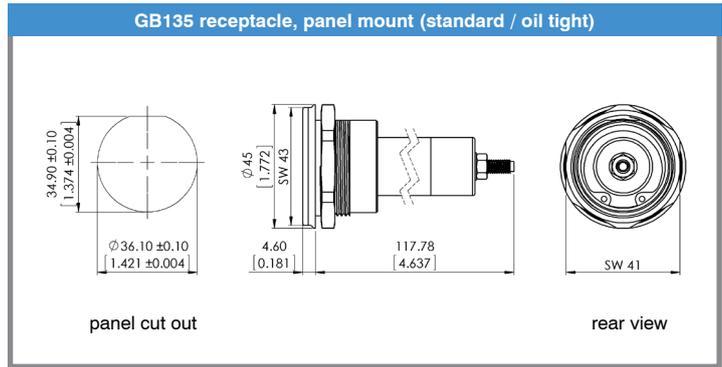


GB135 receptacle, panel mount



KS135 plug, cable mount

Electrical values	
Operating voltage (DC)	30 kV
Test voltage (DC)	45 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A
Characteristics	
Contact size	5 mm [.197"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200351	KS135/6.5-8 PTFE	•		•					
7200350	KS135/8-9.5 PTFE	•			•				
7200352	KS135/9.5-11 PTFE	•				•			
7200354	KS135/11-12.5 PTFE	•					•		
7200353	KS135/12.5-14 PTFE	•						•	
7200355	KS135/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200356	KS135/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200357	GB135 PTFE		•						
7200358	GB135/Ö PTFE		•						•

*KV = screwed cable gland

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Mounting instructions: pages 46-49
Cables: pages 50-51

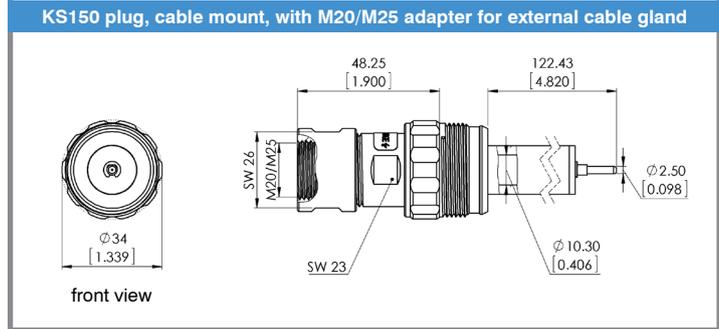
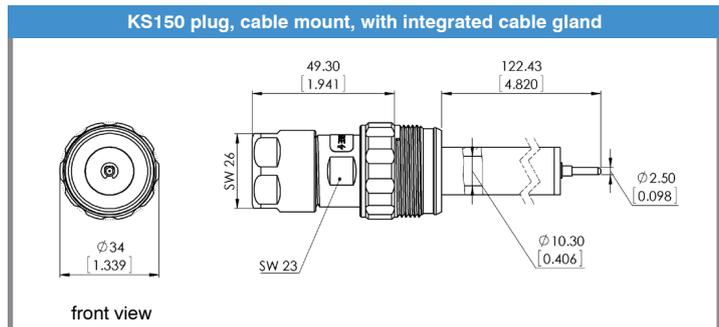
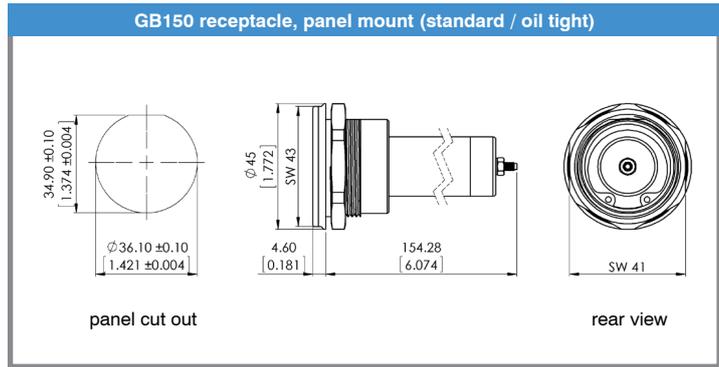


GB150 receptacle, panel mount



KS150 plug, cable mount

Electrical values	
Operating voltage (DC)	50 kV
Test voltage (DC)	75 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Contact size	2.5 mm [.173"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200501	KS150/6.5-8 PTFE	•		•					
7200500	KS150/8-9.5 PTFE	•			•				
7200502	KS150/9.5-11 PTFE	•				•			
7200504	KS150/11-12.5 PTFE	•					•		
7200503	KS150/12.5-14 PTFE	•						•	
7200505	KS150/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200506	KS150/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200507	GB150 PTFE		•						
7200508	GB150/Ö PTFE		•						•

*KV = screwed cable gland

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Mounting instructions: pages 46-49
Cables: pages 50-51

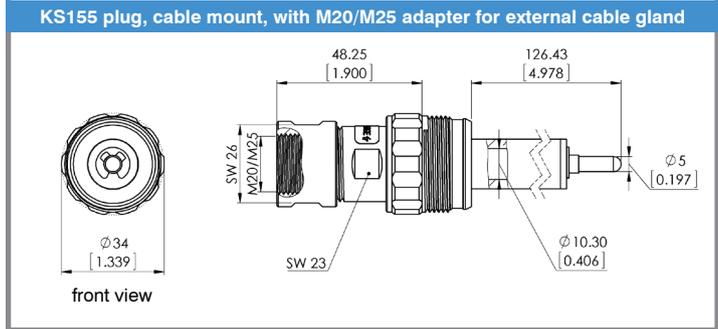
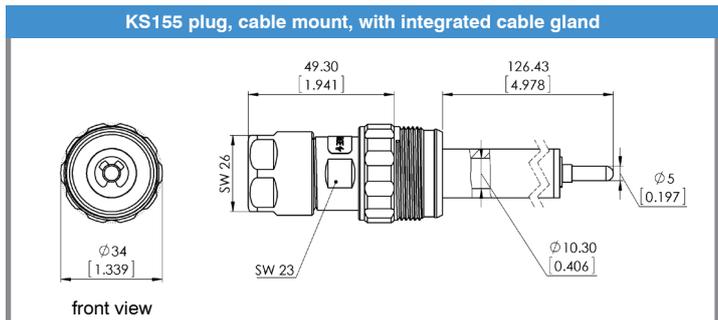
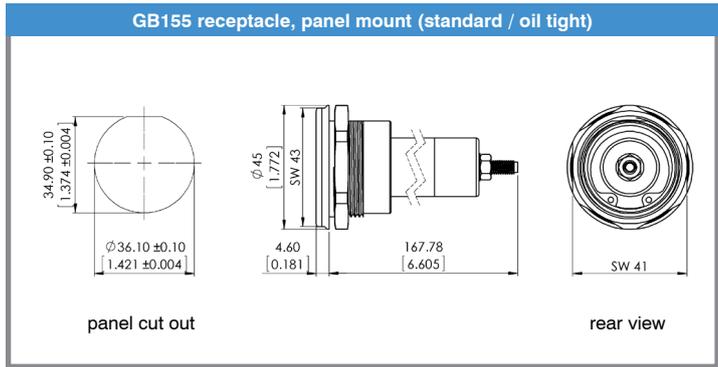


GB155 receptacle, panel mount



KS155 plug, cable mount

Electrical values	
Operating voltage (DC)	50 kV
Test voltage (DC)	75 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A
Characteristics	
Contact size	5 mm [.197"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200551	KS155/6.5-8 PTFE	•		•					
7200550	KS155/8-9.5 PTFE	•			•				
7200552	KS155/9.5-11 PTFE	•				•			
7200554	KS155/11-12.5 PTFE	•					•		
7200553	KS155/12.5-14 PTFE	•						•	
7200555	KS155/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200556	KS155/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200557	GB155 PTFE		•						
7200558	GB155/Ö PTFE		•						•

*KV = screwed cable gland

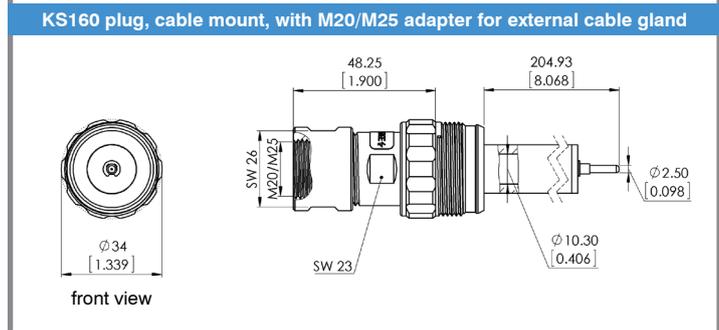
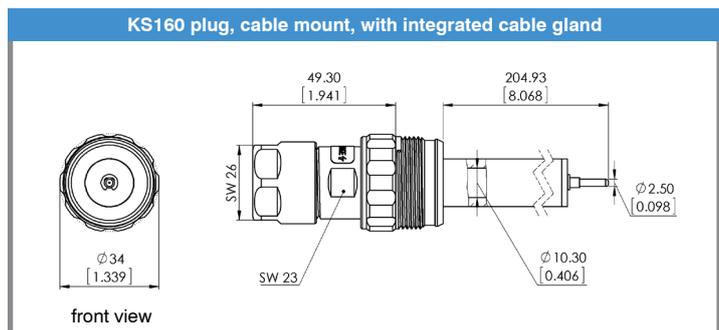
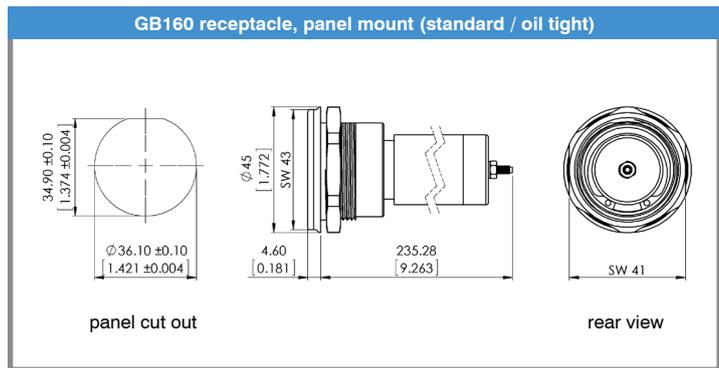
Accessories: page 44
Mounting instructions: pages 46-49
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GB160 receptacle, panel mount



KS160 plug, cable mount



drawing - dimensions in mm [inch]

Electrical values	
Operating voltage (DC)	60 kV
Test voltage (DC)	90 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Contact size	2.5 mm [.173"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200601	KS160/6.5-8 PTFE	•		•					
7200600	KS160/8-9.5 PTFE	•			•				
7200602	KS160/9.5-11 PTFE	•				•			
7200604	KS160/11-12.5 PTFE	•					•		
7200603	KS160/12.5-14 PTFE	•						•	
7200605	KS160/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200609	KS160/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200607	GB160 PTFE		•						
7200608	GB160/Ö PTFE		•						•

*KV = screwed cable gland

Accessories: page 44
Mounting instructions: pages 46-49
Cables: pages 50-51

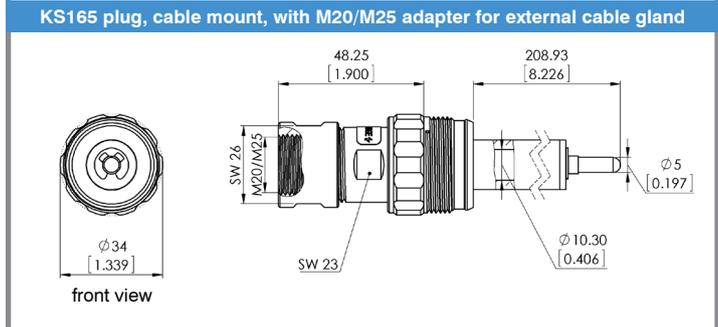
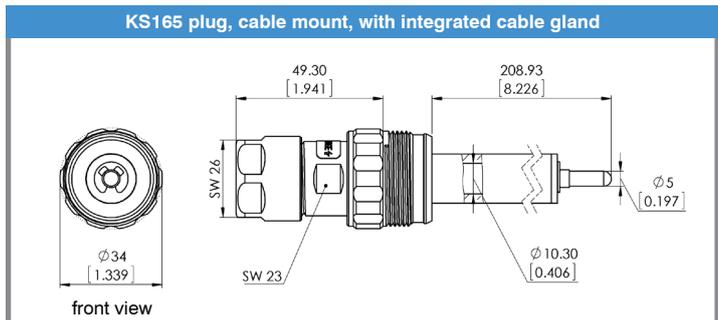
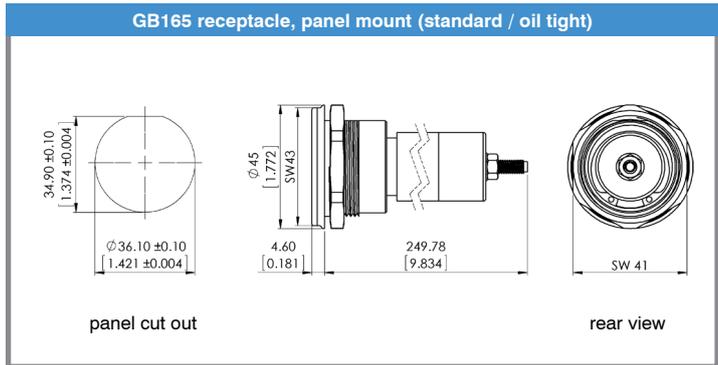


GB165 receptacle, panel mount



KS165 plug, cable mount

Electrical values	
Operating voltage (DC)	60 kV
Test voltage (DC)	90 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A
Characteristics	
Contact size	5 mm [.197"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)

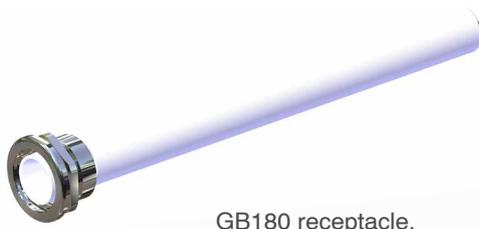


drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables $\phi 6.5 - 8$ mm [.256" - .315"]	clamping range for cables $\phi 8 - 9.5$ mm [.315" - .374"]	clamping range for cables $\phi 9.5 - 11$ mm [.374" - .433"]	clamping range for cables $\phi 11 - 12.5$ mm [.433" - .492"]	clamping range for cables $\phi 12.5 - 14$ mm [.492" - .551"]	oil tight version
7200651	KS165/6.5-8 PTFE	•		•					
7200650	KS165/8-9.5 PTFE	•			•				
7200652	KS165/9.5-11 PTFE	•				•			
7200654	KS165/11-12.5 PTFE	•					•		
7200653	KS165/12.5-14 PTFE	•						•	
7200655	KS165/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200656	KS165/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200657	GB165 PTFE		•						
7200658	GB165/Ö PTFE		•						•

*KV = screwed cable gland

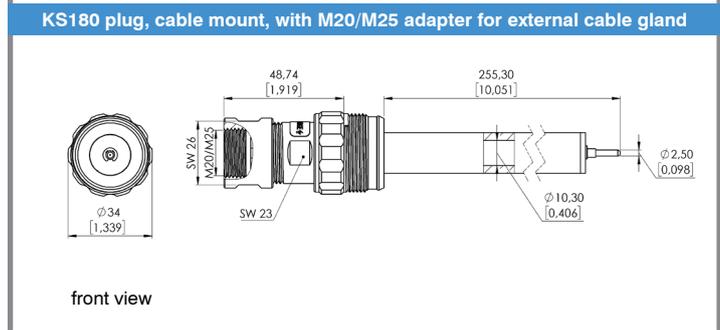
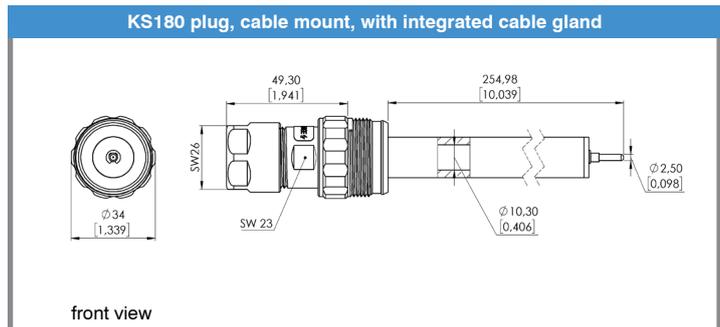
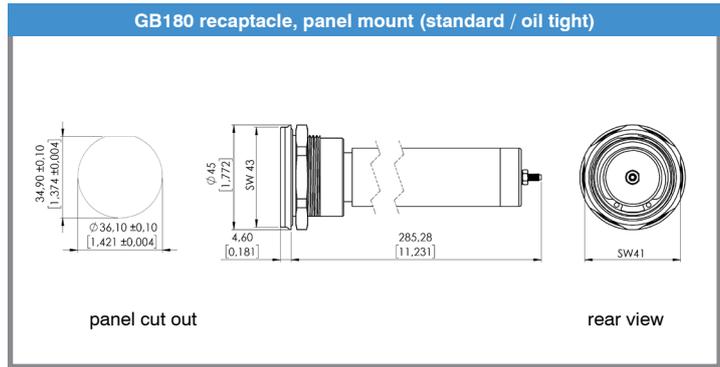
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GB180 receptacle,
panel mount



KS180 plug,
cable mount



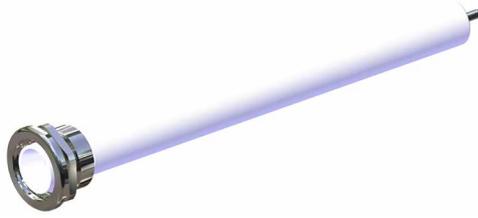
Electrical values	
Operating voltage (DC)	80 kV
Test voltage (DC)	120 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Contact size	2.5 mm [.173"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)

drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200800	KS180/6,5-8 PTFE	•		•					
7200801	KS180/8-9,5 PTFE	•			•				
7200802	KS180/9,5-11 PTFE	•				•			
7200803	KS180/11-12,5 PTFE	•					•		
7200804	KS180/12,5-14 PTFE	•						•	
7200805	KS180/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200806	KS180/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200807	GB180 PTFE		•						
7200808	GB180/Ö PTFE		•						•

*KV = screwed cable gland

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Mounting instructions: pages 46-49
Cables: pages 50-51

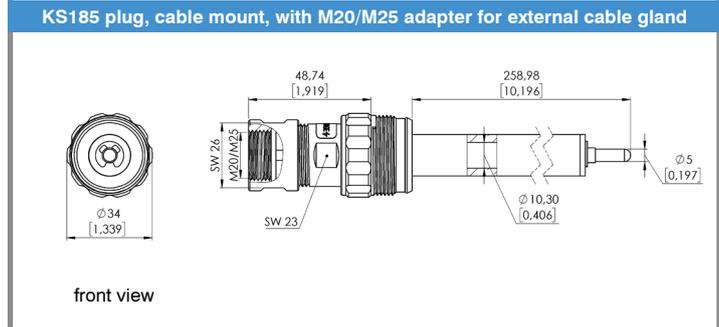
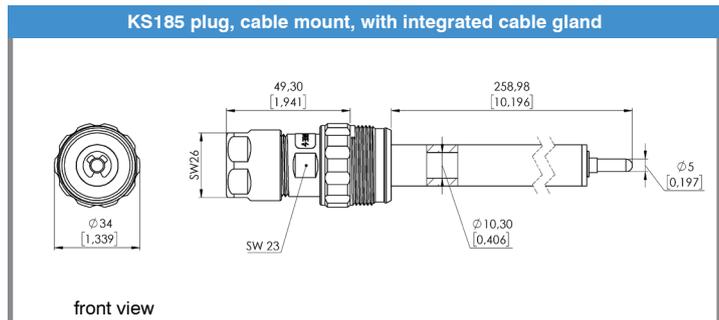
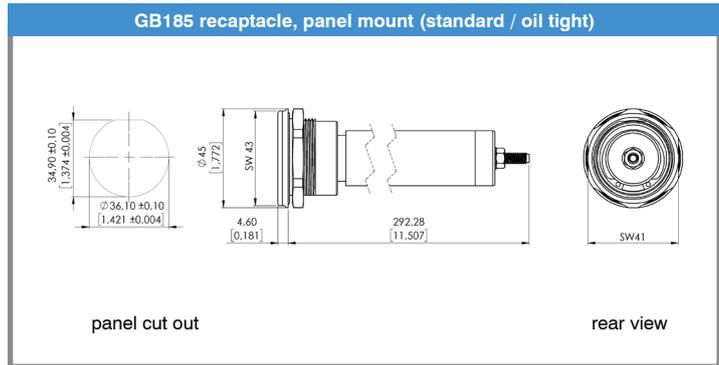


GB185 receptacle, panel mount



KS185 plug, cable mount

Electrical values	
Operating voltage (DC)	80 kV
Test voltage (DC)	120 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A
Characteristics	
Contact size	5 mm [.197"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200850	KS185/6,5-8 PTFE	•		•					
7200851	KS185/8-9,5 PTFE	•			•				
7200852	KS185/9,5-11 PTFE	•				•			
7200853	KS185/11-12,5 PTFE	•					•		
7200854	KS185/12,5-14 PTFE	•						•	
7200855	KS185/M20 PTFE	•				with adapter M20x1.5 for external cable gland			
7200856	KS185/M25 PTFE	•				with adapter M25x1.5 for external cable gland			
7200857	GB185 PTFE		•						
7200858	GB185/Ö PTFE		•						•

*KV = screwed cable gland

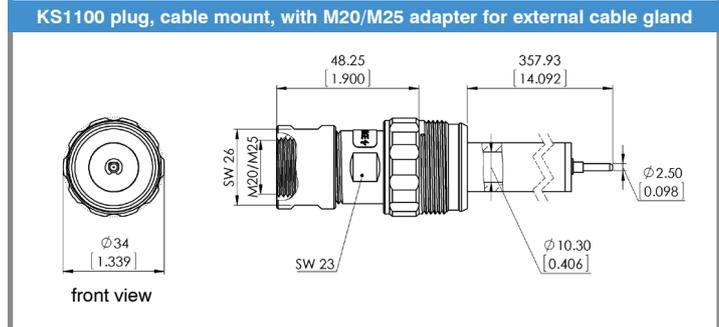
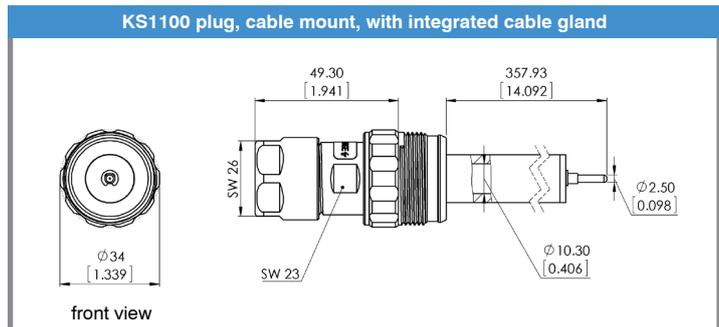
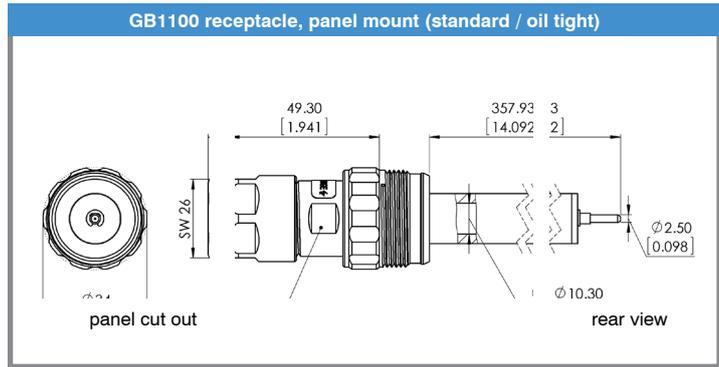
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GB1100 receptacle, panel mount



KS1100 plug, cable mount



Electrical values	
Operating voltage (DC)	100 kV
Test voltage (DC)	150 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Contact size	2.5 mm [.173"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)

drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7201001	KS1100/6.5-8 PTFE	•		•					
7201000	KS1100/8-9.5 PTFE	•			•				
7201002	KS1100/9.5-11 PTFE	•				•			
7201004	KS1100/11-12.5 PTFE	•					•		
7201003	KS1100/12.5-14 PTFE	•						•	
7201005	KS1100/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7201006	KS1100/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7201007	GB1100 PTFE		•						
7201008	GB1100/Ö PTFE		•						•

*KV = screwed cable gland

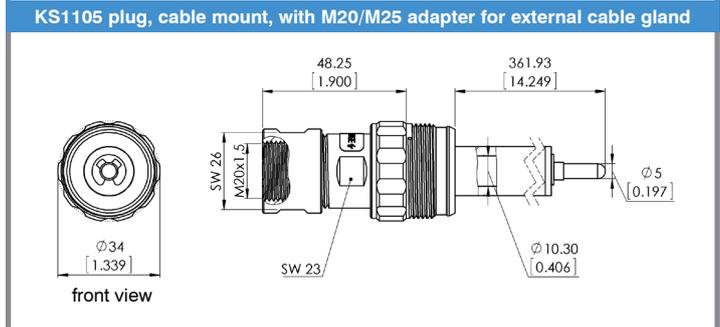
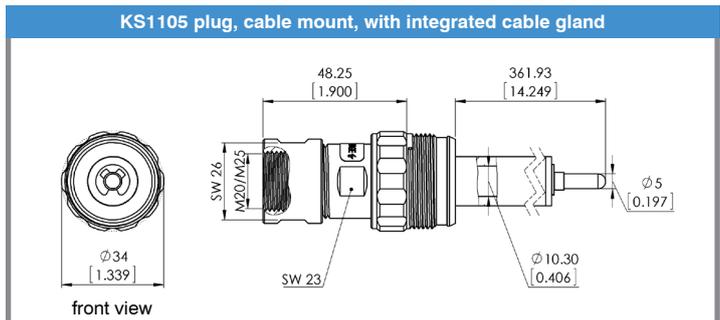
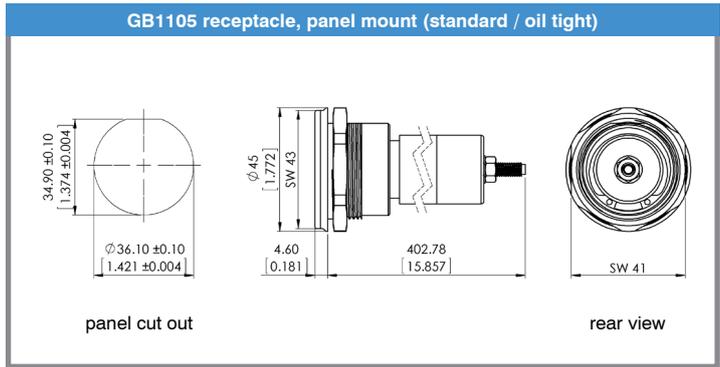
Accessories: page 44
Mounting instructions: pages 46-49
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GB1105 receptacle, panel mount



KS1105 plug, cable mount



Electrical values	
Operating voltage (DC)	100 kV
Test voltage (DC)	150 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Contact size	5.0 mm [.197"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)

drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7201051	KS1105/6.5-8 PTFE	•		•					
7201050	KS1105/8-9.5 PTFE	•			•				
7201052	KS1105/9.5-11 PTFE	•				•			
7201054	KS1105/11-12.5 PTFE	•					•		
7201053	KS1105/12.5-14 PTFE	•						•	
7201055	KS1105/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7201056	KS1105/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7201057	GB1105 PTFE		•						
7201058	GB1105/Ö PTFE		•						•

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*KV = screwed cable gland

Contacts

P/N	Description	Drawing
6572001	male contact 2.5 mm silver plated (Ag)	
6572005	female contact 2.5 mm silver plated (Ag)	
6672050	male contact 5 mm silver plated (Ag)	
6572007	female contact 5 mm silver plated (Ag)	

Covering

P/N	Description
6671011	Threaded covering with chain for receptacles Series 100

Drawing

length of chain approx. 135 mm

drawing - dimensions in mm [inch]



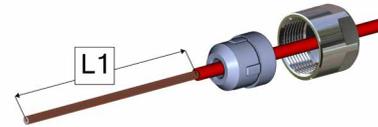
Assembly Instructions Series 100 (plug, cable mount)

1.



Part as delivered

5.



Remove cable jacket
⚠ Do not damage shield braid

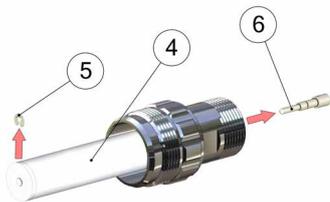
2.



Components
Cap (1), sealing insert (2), housing (3),
insulator (4)

Types	min. L1 mm [inch]
S110 / S115	52 [2.037"]
S120 / S125 / S125 Pro	72 [2.824"]
S130 / S135	92 [3.611"]
S150 / S155	142 [5.580"]
S160 / S165	224 [8.828"]
S1100 / S1105	377 [14.852"]

3.



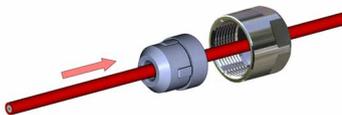
Remove snap ring (5) and take out male contact (6)

6.



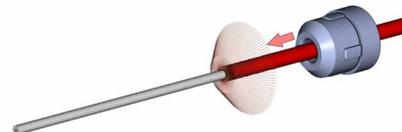
Cut shield braid roughly about 30 mm [=L2]
⚠ Carefully remove shield parts. Loose shield parts can cause electrical break down

4.



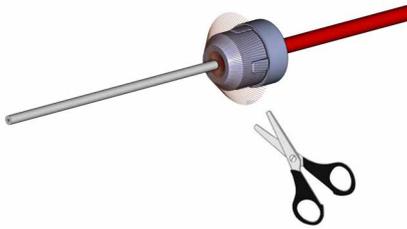
Place cap (1) and sealing insert (2) on cable
⚠ Respect correct order of parts (see picture)

7.



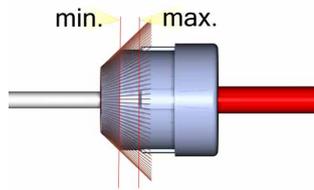
Completely widen shield braid. Push seal insert (2) under shield braid

8.



Cut shield to length.
⚠ For length see step 9.

9.



Make sure shield length is between min. and max. mark.

10.

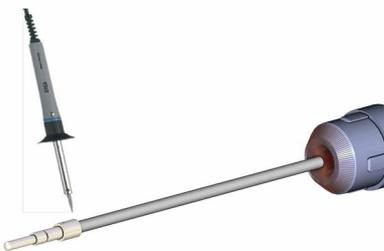


Remove dielectric insulation

Types	min. L3 mm [inch]
KS 110/120/130/150/160/1100	5 [.197"]
KS 115/125/125 Pro/135/155/165/1105	8 [.315"]

⚠ Do not damage conductor

11.



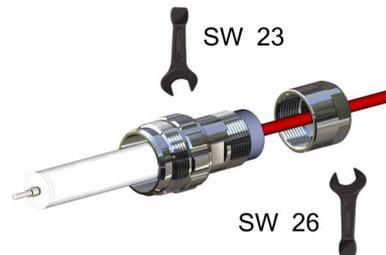
Solder contact (6) on conductor
⚠ Tin-solder must not remain on contact surface

12.



Completely insert cable in insulation part (4) until seal insert (2) plugs in housing (3)

13.



Screw cap (1) onto housing (3)
⚠ Wrench size housing SW23, Wrench size cap SW26, tightening torque 10 Nm

14.



Secure contact (6) with snap ring (5)

15.



Assembly finished

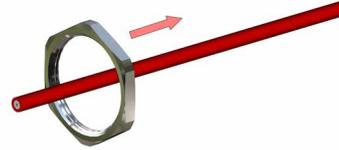
Assembly Instructions Series 100 (receptacle, panel mount)

1.



Part as supplied

4.



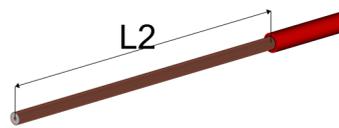
Place counter nut (1) on cable

2.



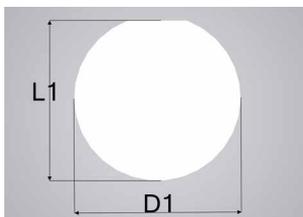
Remove counter nut (1) from housing (2)

5.



⚠ ONLY when using shielded cable:
Remove cable jacket

3.



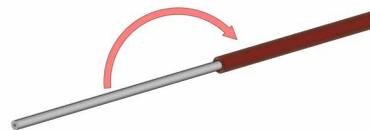
Panel cut out

Dimension	Value mm [inch]
D1	36.10 [1.421"]
L1	34.90 [1.374"]

Type	min. L2 mm [inch]
B 110 / 115	40 [1.575"]
B 120 / 125	80 [3.150"]
B 130 / 135	120 [4.724"]
B 150 / 155	200 [7.874"]
B 160 / 165	240 [9.449"]
B 1100 / 1105	400 [15.748"]

⚠ Do not damage shield braid

6.



Fold back shield braid over jacket

7.



Remove dielectric insulation

Type	min. L3 mm [inch]
B 110 / 120 / 130 / 150 / 160 / 1100	5 [.197"]
B 115 / 125 / 135 / 155 / 165 / 1105	8 [.315"]

⚠ Do not damage conductor.

10.



Assembly finished

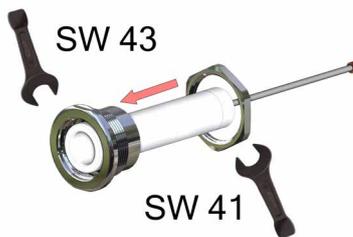
8.



Solder conductor on female contact or use a cable lug to connect conductor with contact

⚠ Tin-solder must not remain on contact surface

9.



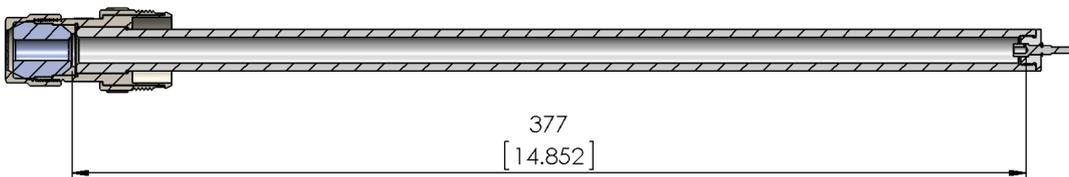
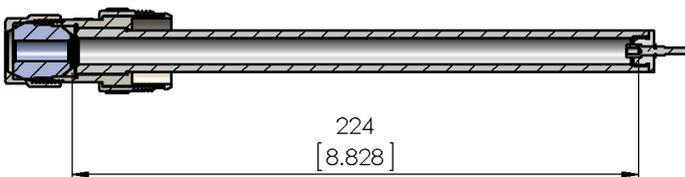
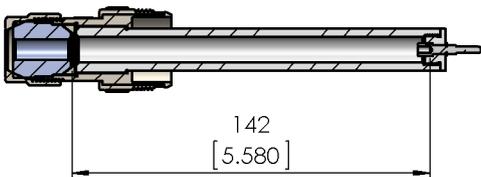
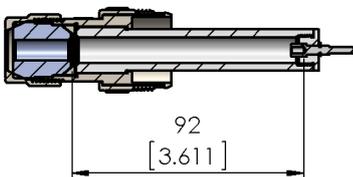
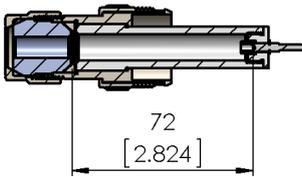
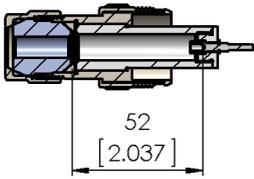
Screw on counter nut and tighten



Note – important!

1. Please carefully read assembly instructions before cable assembly.
2. Cable assembly must only be done by trained and qualified personnel.

IMPORTANT – PLEASE NOTE:
Stated stripping lengths are referring ONLY to jackets of shielded cables!



	Part No. 3330039	Part No. 3330049	Part No. 3330050
Operating voltage DC	60 kVDC	100 kVDC	100 kVDC
Operating voltage AC rms	20 kVAC	30 kVAC	
Conductor size			
AWG	AWG 18	AWG 16	AWG 16
Strands	19 x AWG 30	19 x AWG 29	19 x AWG 29
Cross section	0.97 mm ²	1.2 mm ²	1.2 mm ²
Diameter	1.24 mm [.049"]	1.25 mm [.049"]	1.25 mm [.049"]
Semicon	YES	YES	YES
Diameter	2.0 mm [.079"]	2.5 mm [.098"]	2.5 mm [.098"]
Material	Semiconductive PE	Semiconductive PE	Semiconductive PE
Dielectric			
Diameter	5.8 mm [.228"] (± 0.25 mm)	9.4 mm [.370"] (± 0.25 mm)	9.4 mm [.370"] (± 0.25 mm)
Material	LDHMMW PE	LDHMMW PE	LDHMMW PE
Screen (Shield)	YES	NO	YES
Diameter	6.9 mm [.272"]	x	9.8 mm [.386"]
Material	Cu/Sn (AWG 34 t.p.c.) 85% coverage	x	Cu/Sn (AWG 34 t.p.c.) 90% coverage
Jacket			
Diameter	7.7 mm [.303"] (± 0.3 mm)	x	11.2 mm [.441"] (± 0.25 mm)
Material	TPE-U	x	PVC
Impedance	x	x	61 Ω
Capacitance	typ. 121pF/m	x	98 pF/m
Min. bend radius	90 mm [3.543"] (fixed)	127 mm [5"] (fixed)	152 mm [5.984"] (fixed)
Temperature range	-40°C to +60°C	-51°C to +60°C	-51°C to +60°C
Weight	0.077 kg/m	0.075 kg/m	0.149 kg/m
Color	red	transparent	black
Fits connector types	SB110 SB115 SB120 SB125 SB125Pro SB130 SB135 SB150 SB155 SB160 SB165	SB110 SB115 SB120 SB125 SB125Pro SB130 SB135 SB150 SB155 SB160 SB165 SB1100 SB1105	SB110 SB115 SB120 SB125 SB125Pro SB130 SB135 SB150 SB155 SB160 SB165 SB1100 SB1105

200 Series



- Operating voltage up to 100 kVDC
- Operating current up to 80 Amps
- Advanced contact technology
- Oil tight receptacles
- High performance insulation materials thermoplast

General characteristics and technical data Series 200

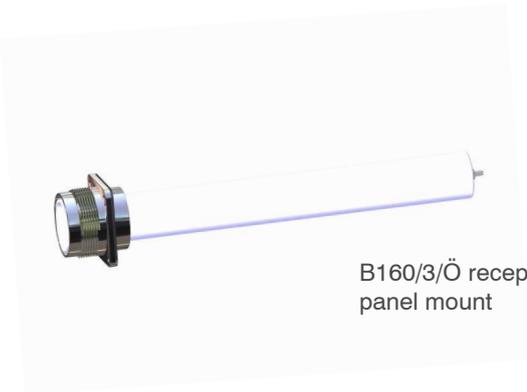
200 Series

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

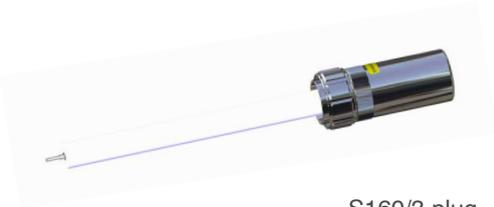
Contacts 2.5 mm (connector types SB1x0)	
Termination method	solder (male contact), solder / screw (female contact)
Rated current	30 A
Max. operating current	40 A
Pulse current	3000 A
Contact resistance	300 $\mu\Omega$
Contact diameter	2.5 mm [.173"]
Contact diameter	AWG 14 / 2.5 mm ²
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Insertion / Withdrawal force	5.5 N / 4.0 N
Mating cycles	100000
Rated temperature	+120°C

Contacts 5 mm (connector types SB1x5)	
Termination method	solder (male contact), solder / screw (female contact)
Rated current	80 A
Max. operating current	110 A
Pulse current	10000 A
Contact resistance	150 $\mu\Omega$
Contact diameter	5 mm [.197"]
Max. wire size	AWG 8 / 10 mm ²
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Insertion / Withdrawal force	15 N / 10 N
Mating cycles	100000
Rated temperature	+120°C

Insulation inserts	
Number of contacts	1
Insulation material	thermoplast
CTI value	600
Flammability class thermoplast	UL94 V-0
Operating temperature thermoplast	-50°C to +200°C
Insulating material group thermoplast / POM	I (DIN IEC 60664)

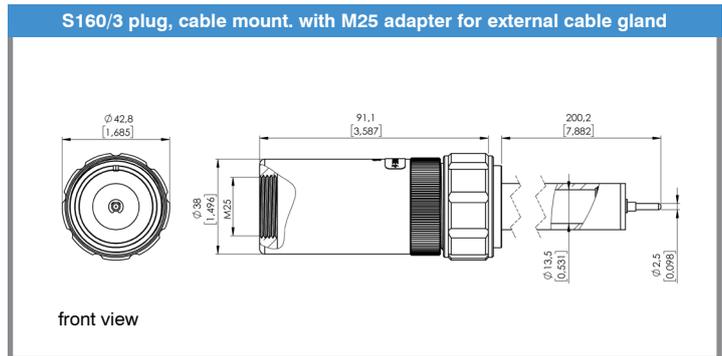
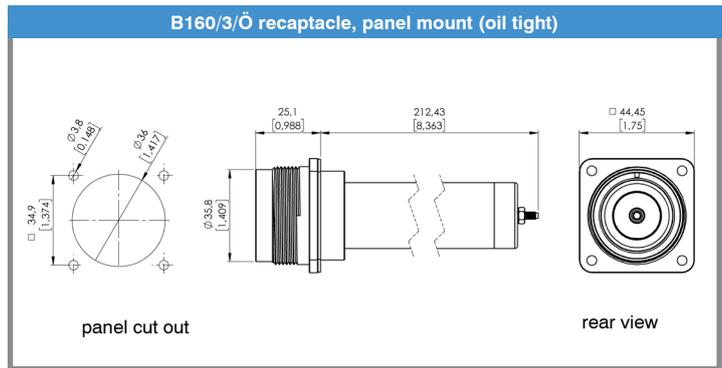


B160/3/Ö receptacle, panel mount



S160/3 plug, cable mount

Electrical values	
Operating voltage (DC)	60 kV
Test voltage (DC)	90 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Contact size	2.5 mm [.173"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)

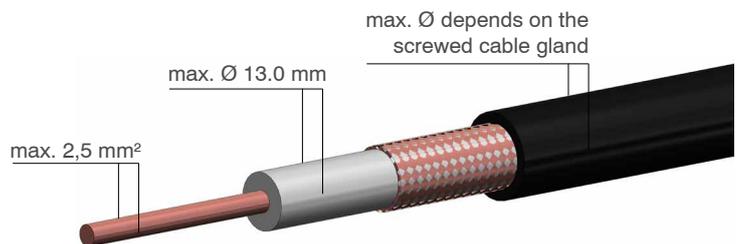


drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	Cable entry M25 for ext. KV	Oil tight
7391993	S160/3/PTFE/M25	•		•	
7391991	B160/3/Ö PTFE		•		•

*KV = screwed cable gland

Suitable cable dimensions

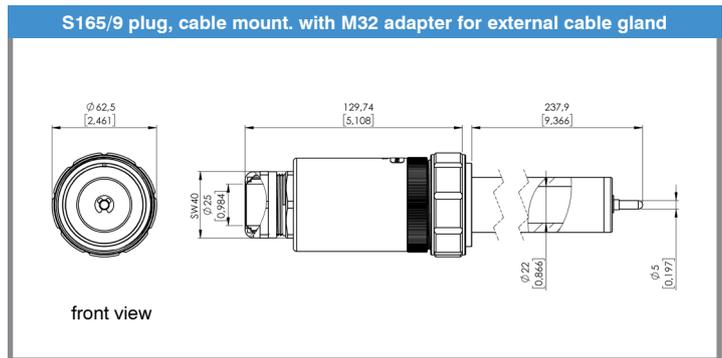
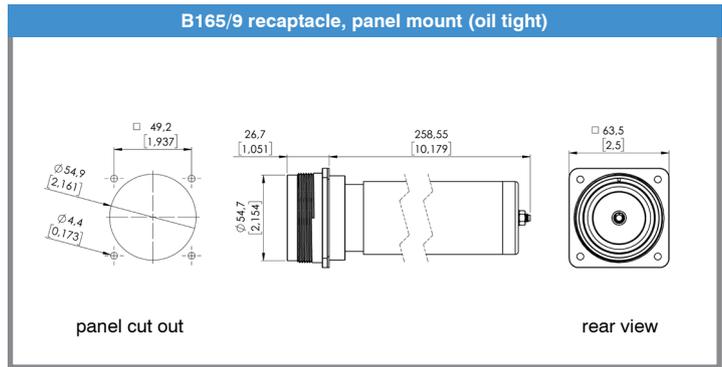




B 165/9 receptacle, panel mount



S 165/9 plug, cable mount



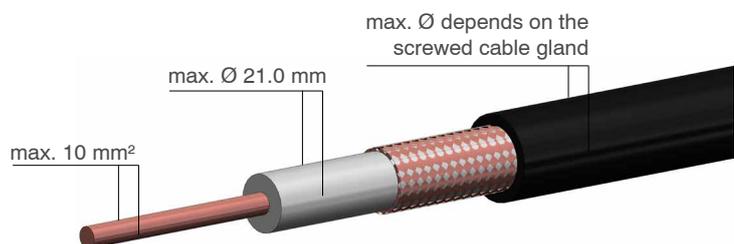
drawing - dimensions in mm [inch]

Electrical values	
Operating voltage (DC)	60 kV
Test voltage (DC)	90 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A
Characteristics	
Contact size	5 mm [.197"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)

P/N	Description	Plug, cable mount	Receptacle, panel mount	Cable entry M25 for ext. KV	Oil tight
7392027	S165/9/PTFE/M32	•		•	
7392028	B165/9/Ö PTFE		•		•

*KV = screwed cable gland

Suitable cable dimensions



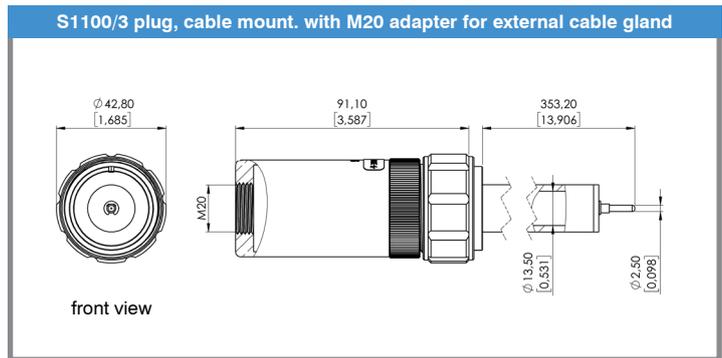
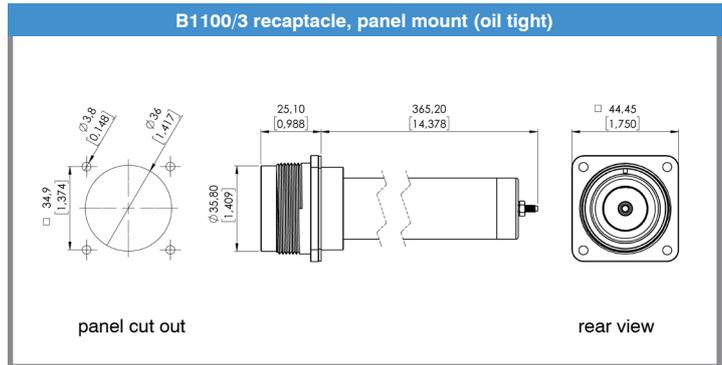


B1100/3 receptacle, panel mount



S1100/3 plug, cable mount

Electrical values	
Operating voltage (DC)	100 kV
Test voltage (DC)	150 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Contact size	2.5 mm [.173"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)

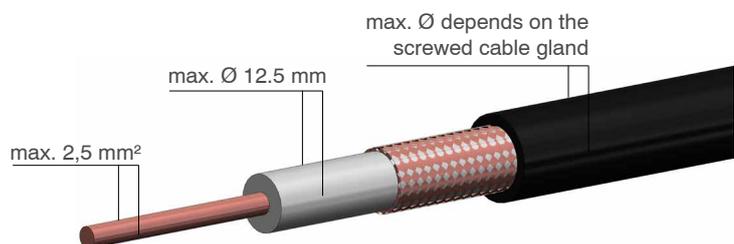


drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	Cable entry M25 for ext. KV	Oil tight
7392005	S1100/3/PTFE/M20	•		•	
7392006	B1100/3/Ö PTFE		•		•

*KV = screwed cable gland

Suitable cable dimensions

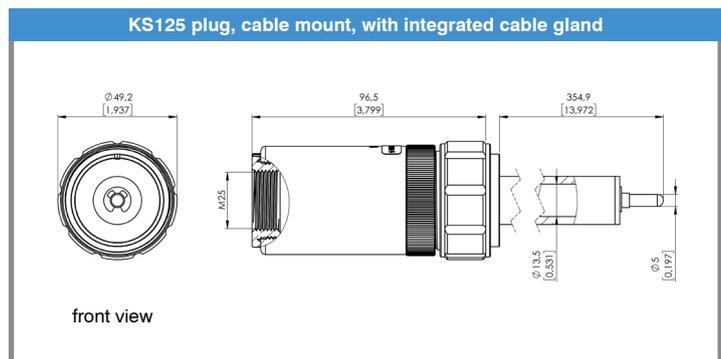
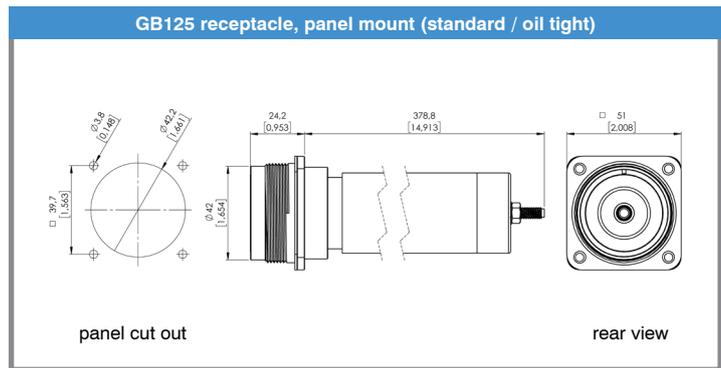




B1105/5 receptacle, panel mount



S1105/5 plug, cable mount



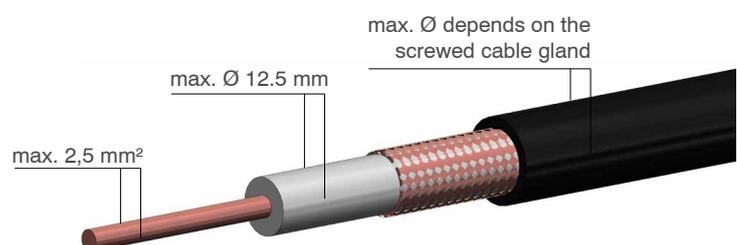
drawing - dimensions in mm [inch]

Electrical values	
Operating voltage (DC)	100 kV
Test voltage (DC)	150 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A
Characteristics	
Contact size	5 mm [.197"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)

P/N	Description	Plug, cable mount	Receptacle, panel mount	Cable entry M25 for ext. KV	Oil tight
7392040	S1105/5/PTFE/M25	•		•	
7392041	B1105/5/Ø PTFE		•		•

*KV = screwed cable gland

Suitable cable dimensions



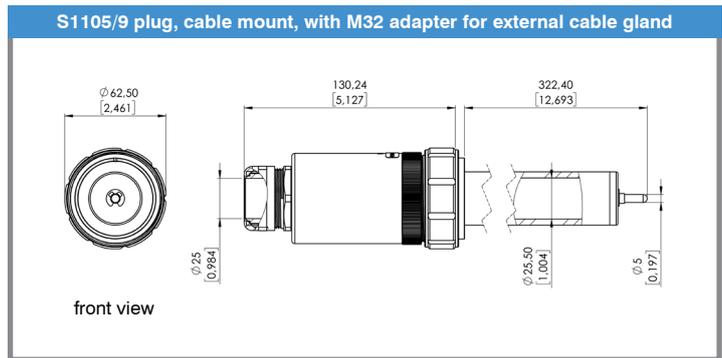
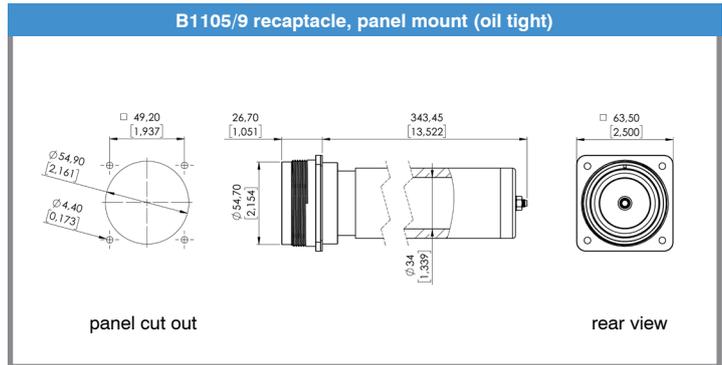


B1105/9 receptacle, panel mount



S1105/9 plug, cable mount

Electrical values	
Operating voltage (DC)	100 kV
Test voltage (DC)	150 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A
Characteristics	
Contact size	5 mm [.197"]
Insulation material	thermoplast
Mounting type receptacle	round flange
Contact plating	silver (Ag)

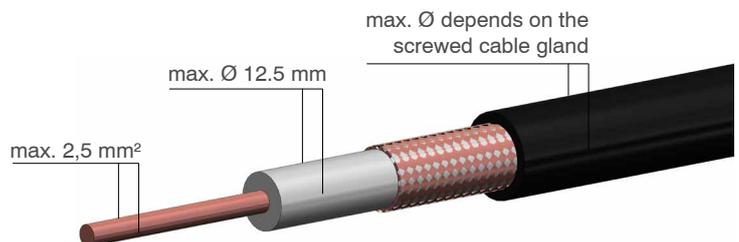


drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	Cable entry M25 for ext. KV	Oil tight
7392069	S1105/5/PTFE/M32	•		•	
7392039	B1105/5/Ø PTFE		•		•

*KV = screwed cable gland

Suitable cable dimensions





Series



MOD Series M Series MC Series MCS Series VP Series 200 Series 100 Series S Series

- Operating voltages up to 13 kVDC
- Operating current 13 Amps / 30 Amps
- Ideal for internal cabling
- Quick assembly
- Several mounting options offering enhanced flexibility

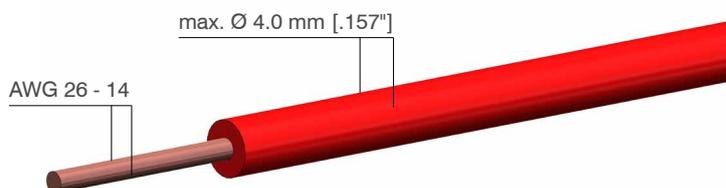
General characteristics and technical data Series VarioPro CL

Electrical values	
Operating voltage (DC)	13 kV
Test voltage (DC)	20 kV

Housing	
Number of HV contacts	1 - 3
Insulation material	Thermoplast
Flammability class	UL94 V-0
Operating temperature	-40°C to +150°C
Insulating material group	I (DIN IEC 60664)

Contacts 1.6 mm	
Termination method	crimp
Rated current	13 A
Contact resistance	≤ 5 mΩ
Contact diameter	1.6 mm [.063"]
Wire size (AWG / cross section)	AWG 26 - 14 (0.14 - 2.5 mm ²)
Contact material	brass (CuZn)
Contact plating	silver (Ag), gold (Au)
Mating cycles	≥ 1,000
Rated temperature	+120°C

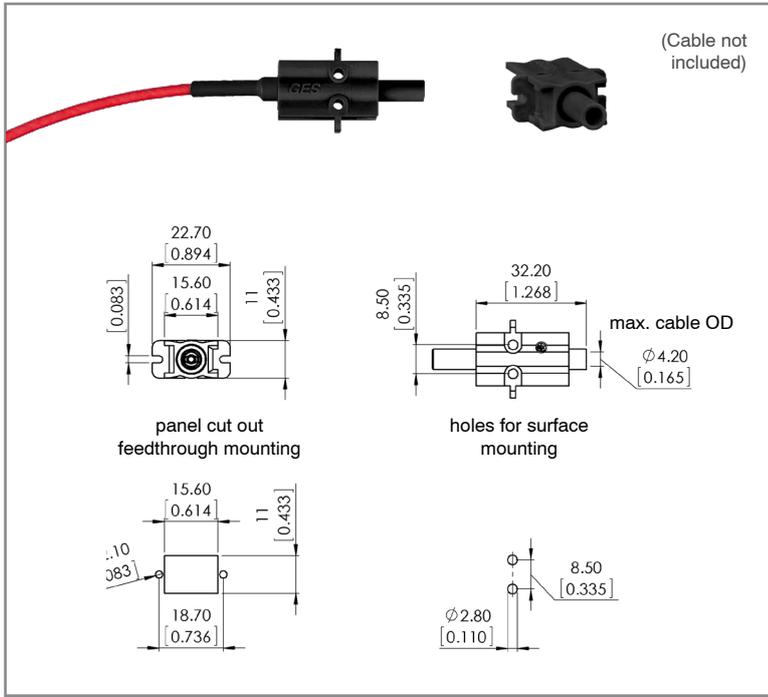
Suitable cable dimensions



1-pole 13 kVDC/1.6 mm contacts

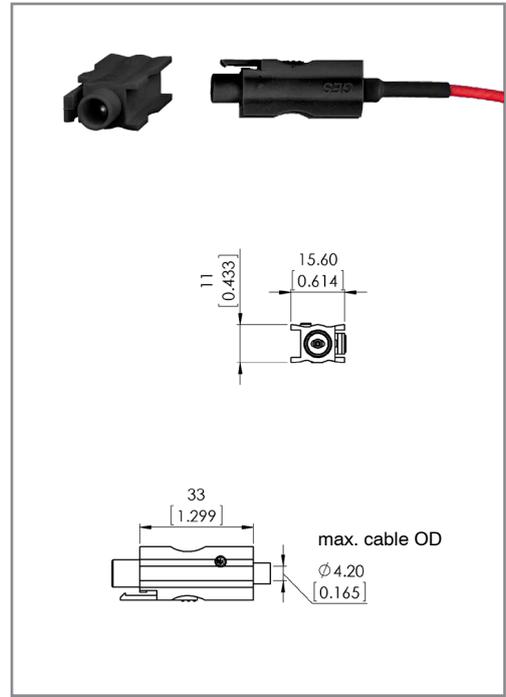
VarioPro CL1 - receptacle

Drawing



VarioPro CL1 - plug

Drawing



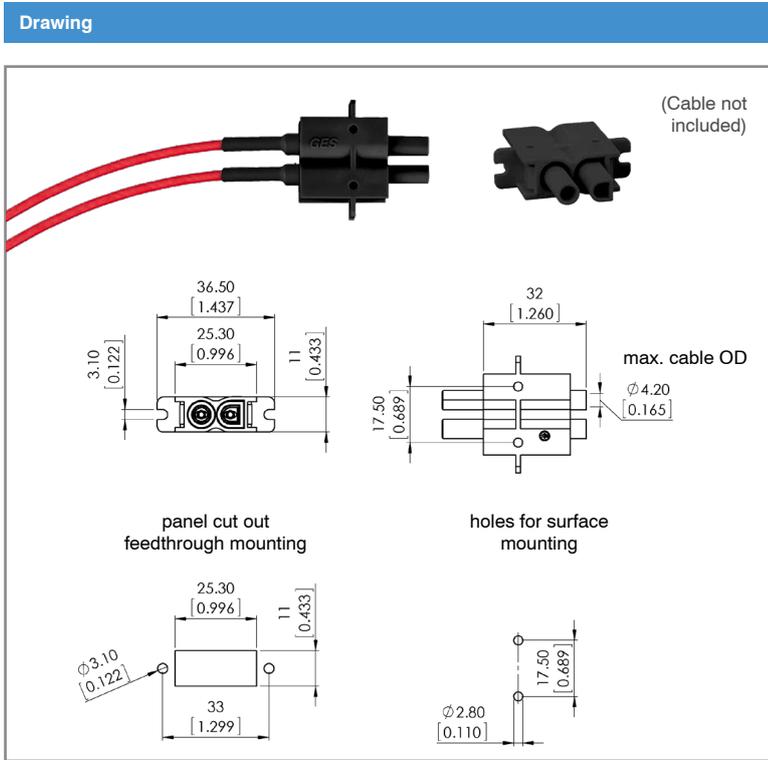
drawing - dimensions in mm [inch]

P/N	Description	Plug male contact	Receptacle female contact	Number of contacts	Including contacts	Contacts silver plated	Contacts gold plated
5000440	VP-CL-1HV-BU AWG 26 - 22 Ag		•	1	•	•	
5000441	VP-CL-1HV-BU AWG 20 Ag		•	1	•	•	
5000442	VP-CL-1HV-BU AWG 20 - 16 Ag		•	1	•	•	
5000443	VP-CL-1HV-BU AWG 16 - 15 Ag		•	1	•	•	
5000444	VP-CL-1HV-BU AWG 14 Ag		•	1	•	•	
5000445	VP-CL-1HV-BU AWG 26 - 22 Au		•	1	•		•
5000446	VP-CL-1HV-BU AWG 20 Au		•	1	•		•
5000447	VP-CL-1HV-BU AWG 20 - 16 Au		•	1	•		•
5000448	VP-CL-1HV-BU AWG 16 - 15 Au		•	1	•		•
5000449	VP-CL-1HV-BU AWG 14 Au		•	1	•		•
5000450	VP-CL-1HV-ST AWG 26 - 22 Ag	•		1	•	•	
5000451	VP-CL-1HV-ST AWG 20 Ag	•		1	•	•	
5000452	VP-CL-1HV-ST AWG 20 - 16 Ag	•		1	•	•	
5000453	VP-CL-1HV-ST AWG 16 - 15 Ag	•		1	•	•	
5000454	VP-CL-1HV-ST AWG 14 Ag	•		1	•	•	
5000455	VP-CL-1HV-ST AWG 26 - 22 Au	•		1	•		•
5000456	VP-CL-1HV-ST AWG 20 Au	•		1	•		•
5000457	VP-CL-1HV-ST AWG 20 - 16 Au	•		1	•		•
5000458	VP-CL-1HV-ST AWG 16 - 15 Au	•		1	•		•
5000459	VP-CL-1HV-ST AWG 14 Au	•		1	•		•

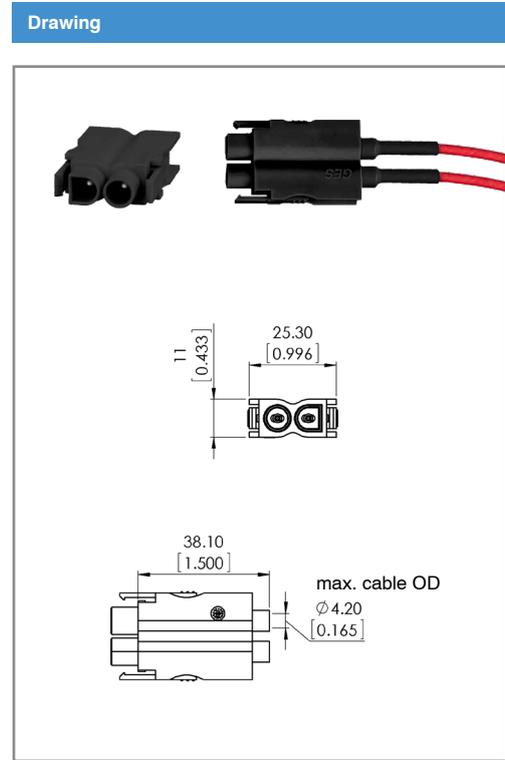
 **Cables and tools: page 84**

2-pole 13 kVDC/1.6 mm contacts

VarioPro CL2 - receptacle



VarioPro CL2 - plug



drawing - dimensions in mm [inch]

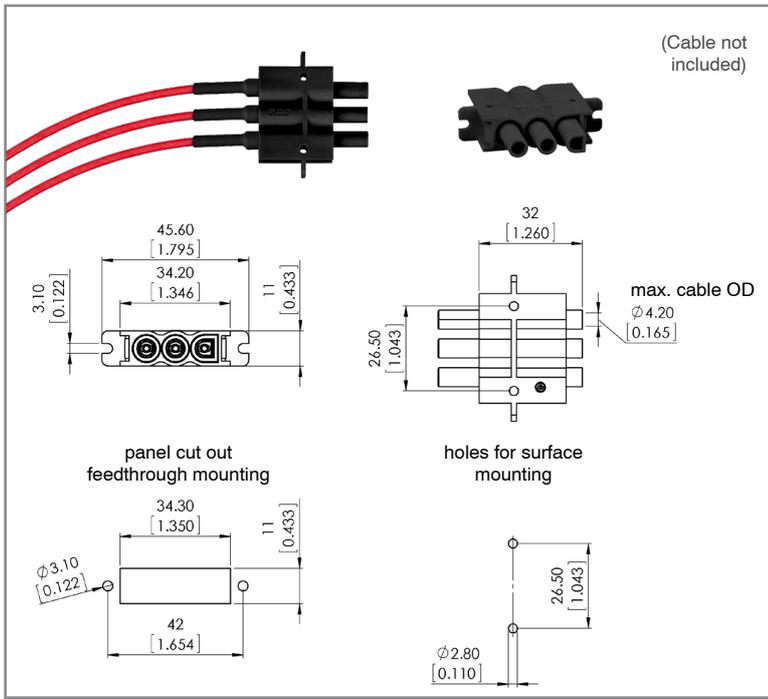
P/N	Description	Plug male contact	Receptacle female contact	Number of contacts	Including contacts	Contacts silver plated	Contacts gold plated
5000460	VP-CL-2HV-BU AWG 26 - 22 Ag		•	2	•	•	
5000461	VP-CL-2HV-BU AWG 20 Ag		•	2	•	•	
5000462	VP-CL-2HV-BU AWG 20 - 16 Ag		•	2	•	•	
5000463	VP-CL-2HV-BU AWG 16 - 15 Ag		•	2	•	•	
5000464	VP-CL-2HV-BU AWG 14 Ag		•	2	•	•	
5000465	VP-CL-2HV-BU AWG 26 - 22 Au		•	2	•		•
5000466	VP-CL-2HV-BU AWG 20 Au		•	2	•		•
5000467	VP-CL-2HV-BU AWG 20 - 16 Au		•	2	•		•
5000468	VP-CL-2HV-BU AWG 16 - 15 Au		•	2	•		•
5000469	VP-CL-2HV-BU AWG 14 Au		•	2	•		•
5000470	VP-CL-2HV-ST AWG 26 - 22 Ag	•		2	•	•	
5000471	VP-CL-2HV-ST AWG 20 Ag	•		2	•	•	
5000472	VP-CL-2HV-ST AWG 20 - 16 Ag	•		2	•	•	
5000473	VP-CL-2HV-ST AWG 16 - 15 Ag	•		2	•	•	
5000474	VP-CL-2HV-ST AWG 14 Ag	•		2	•	•	
5000475	VP-CL-2HV-ST AWG 26 - 22 Au	•		2	•		•
5000476	VP-CL-2HV-ST AWG 20 Au	•		2	•		•
5000477	VP-CL-2HV-ST AWG 20 - 16 Au	•		2	•		•
5000478	VP-CL-2HV-ST AWG 16 - 15 Au	•		2	•		•
5000479	VP-CL-2HV-ST AWG 14 Au	•		2	•		•

Cables and tools: page 84

3-pole 13 kVDC/1.6 mm contacts

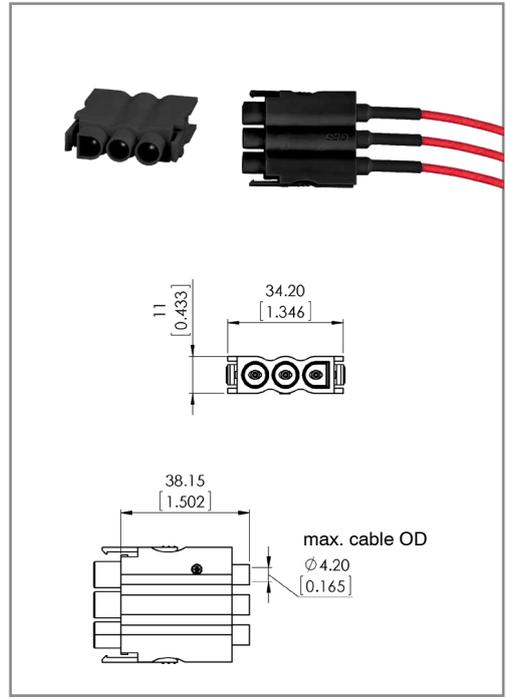
VarioPro CL3 - receptacle

Drawing



VarioPro CL3 - plug

Drawing



drawing - dimensions in mm [inch]

P/N	Description	Plug male contact	Receptacle female contact	Number of contacts	Including contacts	Contacts silver plated	Contacts gold plated
5000480	VP-CL-3HV-BU AWG 26 - 22 Ag		•	3	•	•	
5000481	VP-CL-3HV-BU AWG 20 Ag		•	3	•	•	
5000482	VP-CL-3HV-BU AWG 20 - 16 Ag		•	3	•	•	
5000483	VP-CL-3HV-BU AWG 16 - 15 Ag		•	3	•	•	
5000484	VP-CL-3HV-BU AWG 14 Ag		•	3	•	•	
5000485	VP-CL-3HV-BU AWG 26 - 22 Au		•	3	•		•
5000486	VP-CL-3HV-BU AWG 20 Au		•	3	•		•
5000487	VP-CL-3HV-BU AWG 20 - 16 Au		•	3	•		•
5000488	VP-CL-3HV-BU AWG 16 - 15 Au		•	3	•		•
5000489	VP-CL-3HV-BU AWG 14 Au		•	3	•		•
5000490	VP-CL-3HV-ST AWG 26 - 22 Ag	•		3	•	•	
5000491	VP-CL-3HV-ST AWG 20 Ag	•		3	•	•	
5000492	VP-CL-3HV-ST AWG 20 - 16 Ag	•		3	•	•	
5000493	VP-CL-3HV-ST AWG 16 - 15 Ag	•		3	•	•	
5000494	VP-CL-3HV-ST AWG 14 Ag	•		3	•	•	
5000495	VP-CL-3HV-ST AWG 26 - 22 Au	•		3	•		•
5000496	VP-CL-3HV-ST AWG 20 Au	•		3	•		•
5000497	VP-CL-3HV-ST AWG 20 - 16 Au	•		3	•		•
5000498	VP-CL-3HV-ST AWG 16 - 15 Au	•		3	•		•
5000499	VP-CL-3HV-ST AWG 14 Au	•		3	•		•

 **Cables and tools: page 84**

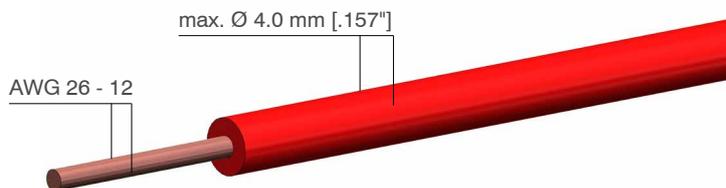
General characteristics and technical data Series VarioPro CL

Electrical values	
Operating voltage (DC)	13 kV
Test voltage (DC)	20 kV

Housing	
Number of HV contacts	1 - 3
Insulation material	Thermoplast
Flammability class	UL94 V-0
Operating temperature	-40°C to +150°C
Insulating material group	I (DIN IEC 60664)

Contacts 1.6 mm	
Termination method	crimp
Rated current	20 A
Contact resistance	≤ 5 mΩ
Contact diameter	2.5 mm [.063"]
Wire size (AWG / cross section)	AWG 26 - 12 (0.5 - 4 mm ²)
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Mating cycles	≥ 1,000
Rated temperature	+120°C

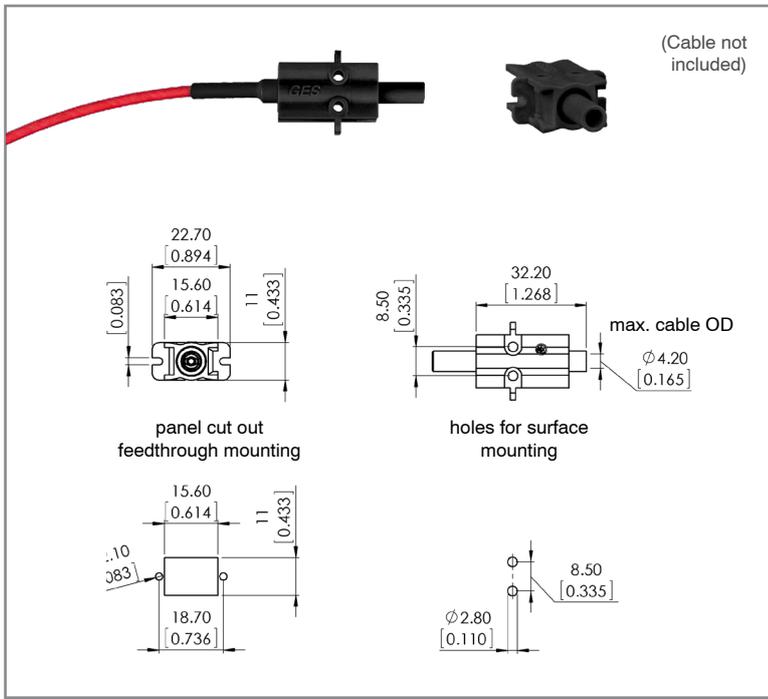
Suitable cable dimensions



1-pole 13 kVDC/2.5 mm contacts

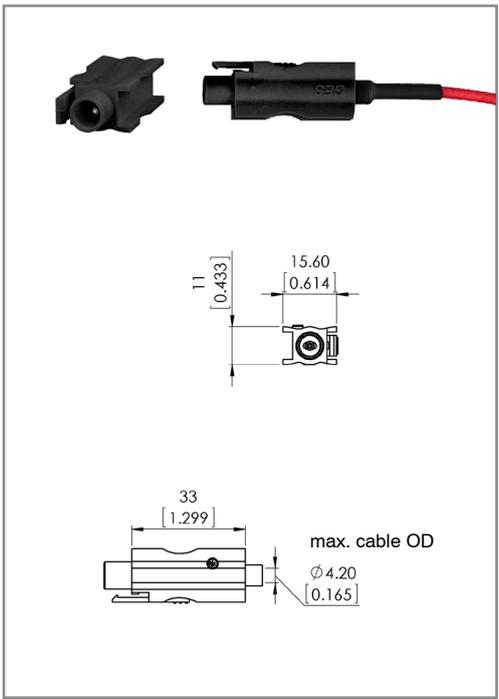
VarioPro CL1-B - receptacle

Drawing



VarioPro CL1-B - plug

Drawing



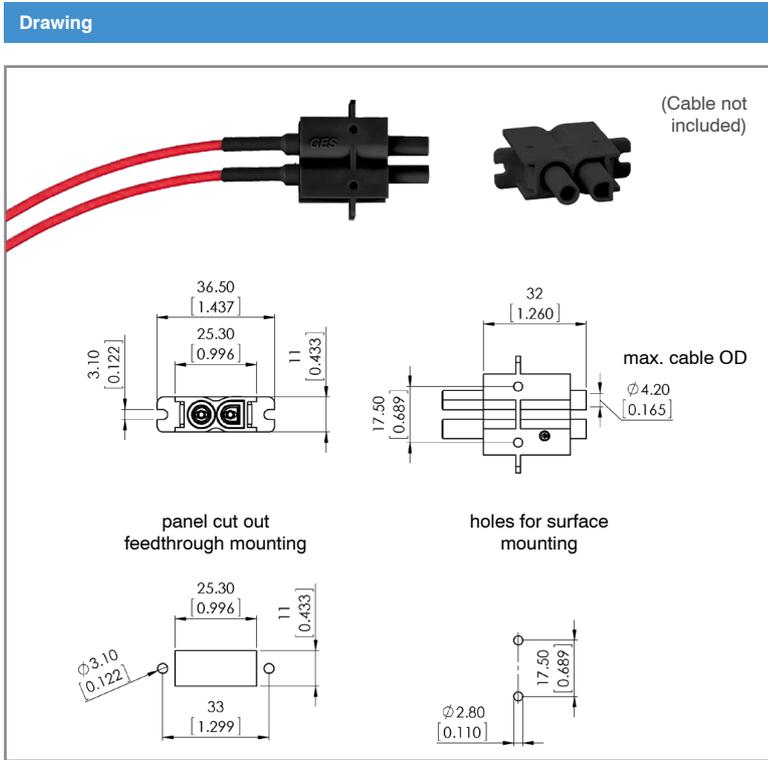
drawing - dimensions in mm [inch]

P/N	Description	Plug male contact	Receptacle female contact	Number of contacts	Including contacts	Contacts silver plated	Contacts gold plated
5000540	VP-CL-B-1HV-BU 0,5 mm ²		•	1	•	•	
5000541	VP-CL-B-1HV-BU 0,75-1 mm ²		•	1	•	•	
5000542	VP-CL-B-1HV-BU 1,5 mm ²		•	1	•	•	
5000543	VP-CL-B-1HV-BU 2,5 mm ²		•	1	•	•	
5000544	VP-CL-B-1HV-BU 4 mm ²		•	1	•	•	
5000550	VP-CL-B-1HV-ST 0,5 mm ²	•		1	•	•	
5000551	VP-CL-B-1HV-ST 0,75-1 mm ²	•		1	•	•	
5000552	VP-CL-B-1HV-ST 1,5 mm ²	•		1	•	•	
5000553	VP-CL-B-1HV-ST 2,5 mm ²	•		1	•	•	
5000554	VP-CL-B-1HV-ST 4 mm ²	•		1	•	•	

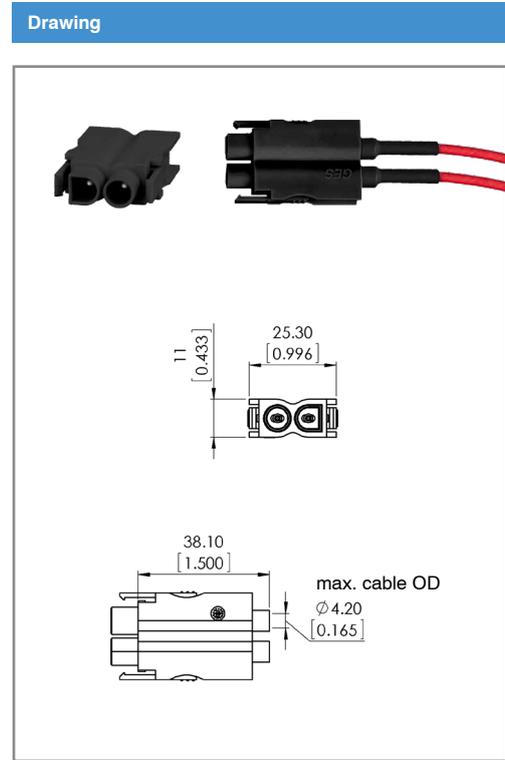
Cables and tools: page 84

2-pole 13 kVDC/2.5 mm contacts

VarioPro CL2-B - receptacle



VarioPro CL2-B - plug



drawing - dimensions in mm [inch]

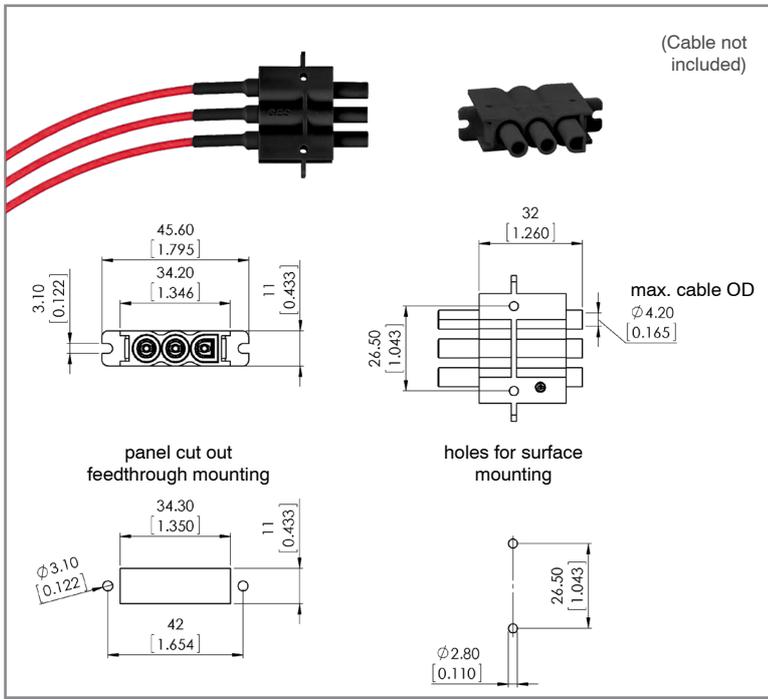
P/N	Description	Plug male contact	Receptacle female contact	Number of contacts	Including contacts	Contacts silver plated	Contacts gold plated
5000560	VP-CL-B-2HV-BU 0,5 mm ²		•	2	•	•	
5000561	VP-CL-B-2HV-BU 0,75-1 mm ²		•	2	•	•	
5000562	VP-CL-B-2HV-BU 1,5 mm ²		•	2	•	•	
5000563	VP-CL-B-2HV-BU 2,5 mm ²		•	2	•	•	
5000564	VP-CL-B-2HV-BU 4 mm ²		•	2	•	•	
5000570	VP-CL-B-2HV-ST 0,5 mm ²	•		2	•	•	
5000571	VP-CL-B-2HV-ST 0,75-1 mm ²	•		2	•	•	
5000572	VP-CL-B-2HV-ST 1,5 mm ²	•		2	•	•	
5000573	VP-CL-B-2HV-ST 2,5 mm ²	•		2	•	•	
5000574	VP-CL-B-2HV-ST 4 mm ²	•		2	•	•	

 **Cables and tools:** page 84

3-pole 13 kVDC/2.5 mm contacts

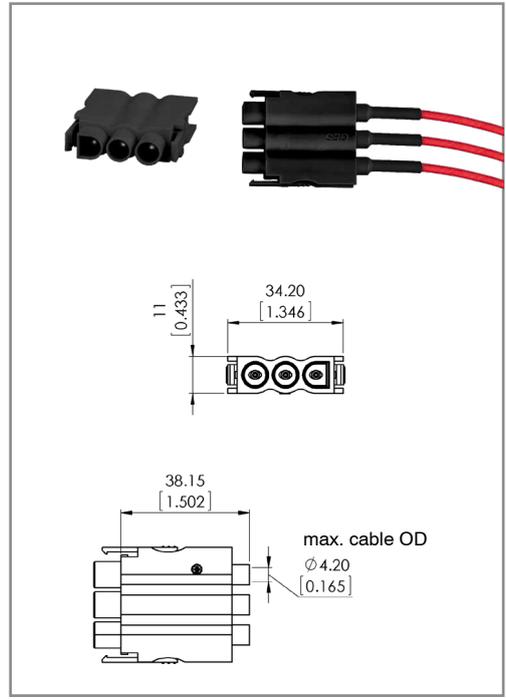
VarioPro CL3-B - receptacle

Drawing



VarioPro CL3-B - plug

Drawing

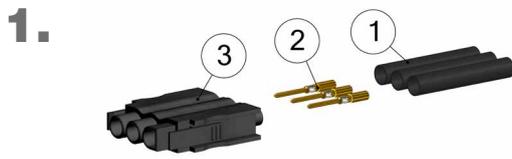


drawing - dimensions in mm [inch]

P/N	Description	Plug male contact	Receptacle female contact	Number of contacts	Including contacts	Contacts silver plated	Contacts gold plated
5000580	VP-CL-B-3HV-BU 0,5 mm ²		•	3	•	•	
5000581	VP-CL-B-3HV-BU 0,75-1 mm ²		•	3	•	•	
5000582	VP-CL-B-3HV-BU 1,5 mm ²		•	3	•	•	
5000583	VP-CL-B-3HV-BU 2,5 mm ²		•	3	•	•	
5000584	VP-CL-B-3HV-BU 4 mm ²		•	3	•	•	
5000590	VP-CL-B-3HV-ST 0,5 mm ²	•		3	•	•	
5000591	VP-CL-B-3HV-ST 0,75-1 mm ²	•		3	•	•	
5000592	VP-CL-B-3HV-ST 1,5 mm ²	•		3	•	•	
5000593	VP-CL-B-3HV-ST 2,5 mm ²	•		3	•	•	
5000594	VP-CL-B-3HV-ST 4 mm ²	•		3	•	•	

Cables and tools: page 84

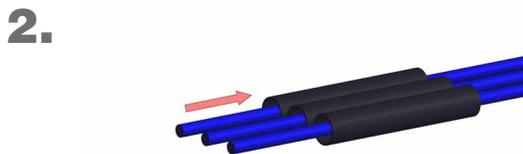
Assembly Instructions Series VP ClipLock - plug



Part as supplied
Shrinking tube (1), male contact (2),
connector shell (3)



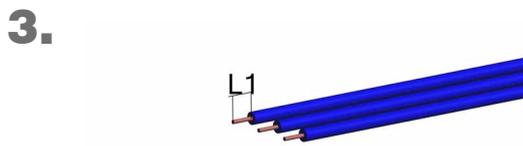
Slide contact (2) completely into connector shell (3) until contact snaps
Pull gently to check that contact is correctly located and remains in position



Place shrinking tube (1) on cable



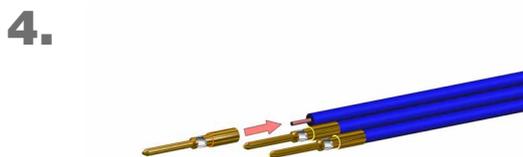
Slide shrinking tube (1) on connector shell (3)



Remove dielectric insulation (L1 = 5-8 mm)



Shrink tube - shrinking temperature 110°C



Solder or crimp contact (2) on conductor
Please notice for soldering: Tin-solder must not remain on contact surface



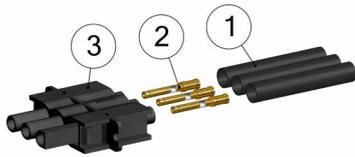
Assembly finished



1. Please carefully read assembly instructions before cable assembly.

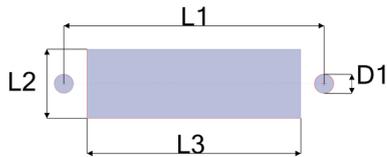
2. Cable assembly must only be done by trained and qualified personnel.

1.



Part as supplied
Shrinking tube (1), female contact (2), connector shell (3)

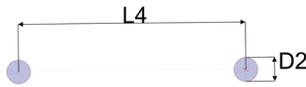
2.



Panel cut out – feedthrough mounting

Type	D1 mm [inch]	L1 mm [inch]	L2 mm [inch]	L3 mm [inch]
VP-CL-1HV-BU	2.10 [.083"]	18.70 [.736"]	11.20 [.441"]	15.80 [.622"]
VP-CL-2HV-BU	3.10 [.122"]	33.00 [.1299"]	11.20 [.441"]	25.50 [1.004"]
VP-CL-3HV-BU	3.10 [.122"]	42.00 [1.654"]	11.20 [.441"]	34.50 [1.358"]

3.



Panel cut out – surface mounting

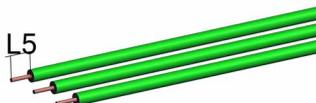
Type	D2 mm [inch]	L4 mm [inch]
VP-CL-1HV-BU	2.80 [.110"]	8.50 [.335"]
VP-CL-2HV-BU	2.80 [.110"]	17.50 [.689"]
VP-CL-3HV-BU	2.80 [.110"]	26.50 [1.043"]

4.



Place shrinking tube (1) on cable

5.



Remove dielectric insulation
(L5 = 5-8 mm [.197" - .315"])

6.



Solder or crimp contact (2) on conductor
⚠ Please notice for soldering: Tin-solder must not remain on contact surface

7.



Slide contact (2) completely into connector shell (3) until contact snaps
🗨 Pull gently to check that contact is correctly located and remains in position

8.



Slide shrinking tube (1) on connector shell (3)

9.



Shrink tubes - shrinking temperature 110°C

10.



Assembly finished



1. Please carefully read assembly instructions before cable assembly.

2. Cable assembly must only be done by trained and qualified personnel.

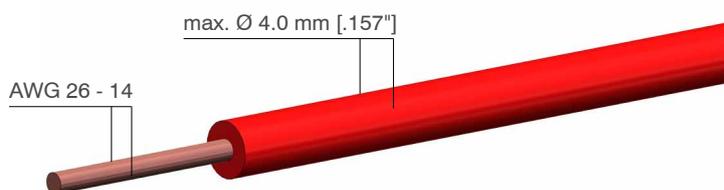
General characteristics and technical data Series VarioPro Basic

Electrical values	
Operating voltage (DC)	8 kV
Test voltage (DC)	12 kV

Housing	
Number of HV-contacts	1 - 2
Insulation material	POM
Flammability class	UL94 HB
Operating temperature	-30°C to +120°C
Insulating material group	I (DIN IEC 60664)

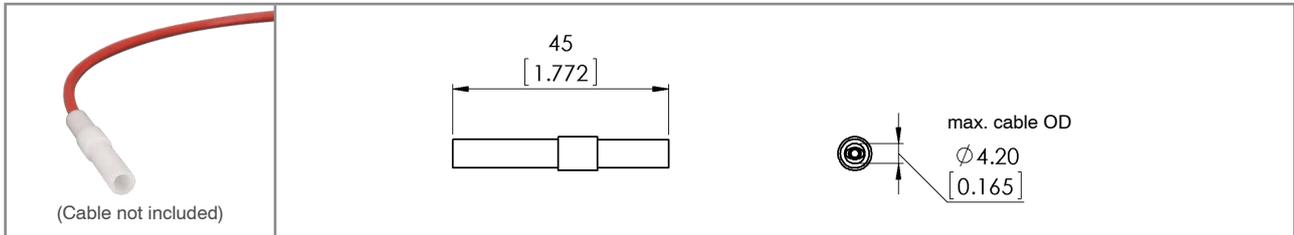
Contacts 1.6 mm	
Termination method	crimp
Rated current	13 A
Contact resistance	≤ 5 mΩ
Contact diameter	1.6 mm [.063"]
Wire size (AWG / cross section)	AWG 26 - 14 (0.14 - 2.5 mm ²)
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Mating cycles	≥ 1,000
Rated temperature	+120°C

Suitable cable dimensions



VarioPro Basic - receptacle, single pole (VP-1HV-BU)

Picture / Drawing

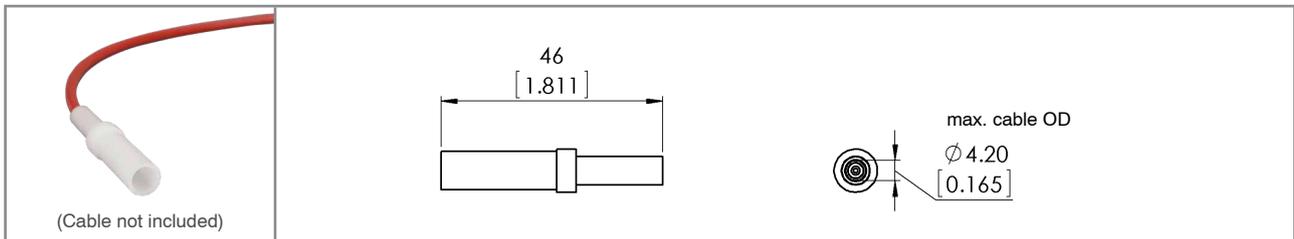


drawing - dimensions in mm [inch]

P/N	Description	Receptacle	Number of contacts	Including contacts	Panel mount
5000010	VP-1HV-BU POM AWG 26 - 22	•	1	•	•
5000011	VP-1HV-BU POM AWG 20	•	1	•	•
5000012	VP-1HV-BU POM AWG 20 - 16	•	1	•	•
5000013	VP-1HV-BU POM AWG 16 - 15	•	1	•	•
5000014	VP-1HV-BU POM AWG 14	•	1	•	•

VarioPro Basic - Stecker, 1-polig (VP-1HV-ST)

Picture / Drawing



drawing - dimensions in mm [inch]

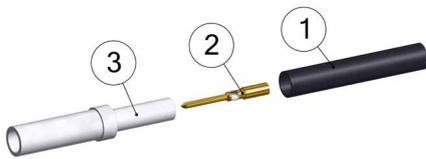
P/N	Description	Plug	Number of contacts	Including contacts	Panel mount
5000020	VP-1HV-ST POM AWG 26 - 22	•	1	•	•
5000021	VP-1HV-ST POM AWG 20	•	1	•	•
5000022	VP-1HV-ST POM AWG 20 - 16	•	1	•	•
5000023	VP-1HV-ST POM AWG 16 - 15	•	1	•	•
5000024	VP-1HV-ST POM AWG 14	•	1	•	•

 **Cables and tools:** page 84

Assembly Instructions Series VP

Basic - plug

1.



Part as supplied
Shrinking tube (1), male contact (2),
connector shell (3)

5.



Slide contact (2) completely into connector shell (3) until contact snaps
Pull gently to check that contact is correctly located and remains in position

2.



Place shrinking tube (1) on cable.

6.



Slide shrinking tube (1) on connector shell (3)

3.



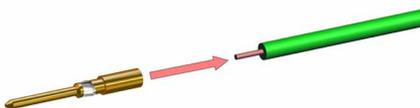
Remove dielectric insulation (L1 = 5-8 mm
[.197" - .315"])

7.



Shrink tube - shrinking temperature 110°C

4.



Solder or crimp contact (2) on conductor
Please notice for soldering: Tin-solder must not remain on contact surface

8.



Assembly finished



1. Please carefully read assembly instructions before cable assembly.

2. Cable assembly must only be done by trained and qualified personnel.

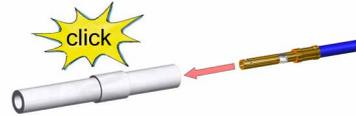
1.



Part as supplied

Shrinking tube (1), female contact (2), connector shell (3)

5.



Slide contact (2) completely into connector shell (3) until contact snaps

Pull gently to check that contact is correctly located and remains in position

2.



Place shrinking tube (1) on cable.

6.



Slide shrinking tube (1) on connector shell (3)

3.



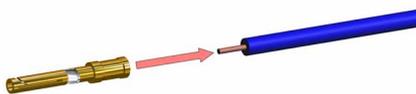
Remove dielectric insulation (L1 = 5-8 mm)
[.197" - .315"]

7.



Shrink tube - shrinking temperature 110°C

4.



Solder or crimp contact (2) on conductor

Please notice for soldering: Tin-solder must not remain on contact surface

8.



Assembly finished



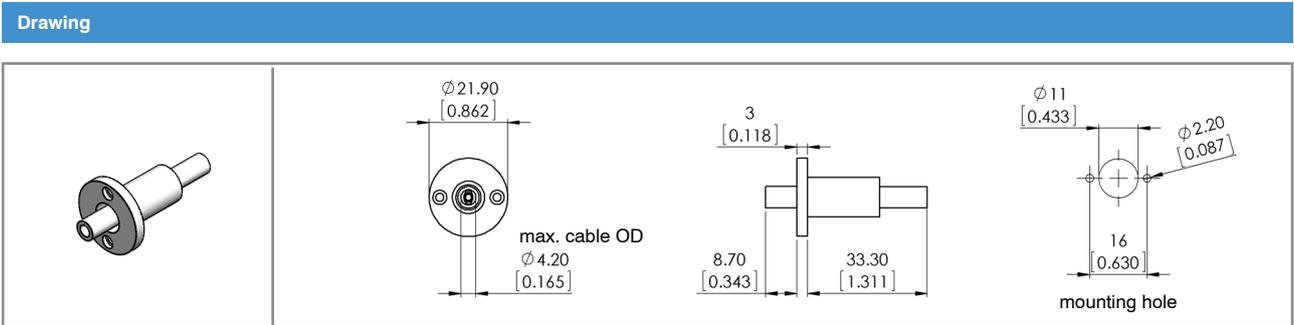
1. Please carefully read assembly instructions before cable assembly.

2. Cable assembly must only be done by trained and qualified personnel.

Type VarioPro Basic DF

1-pole 8 kVDC

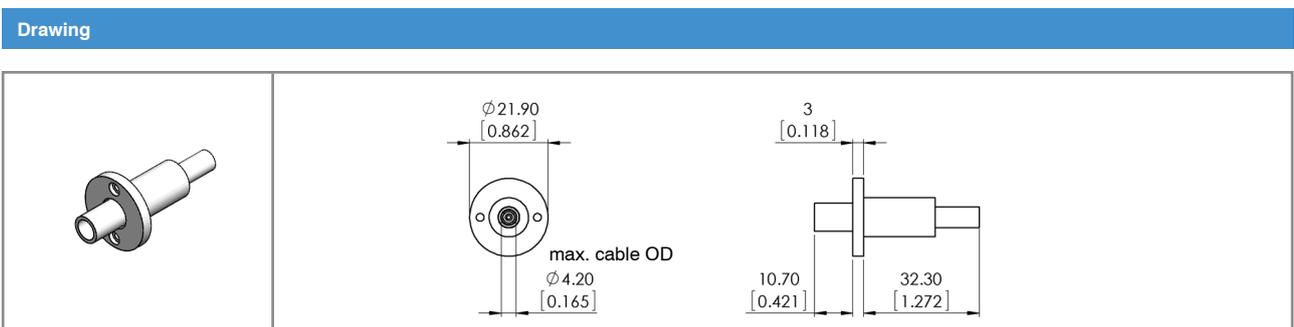
VarioPro Basic DF (feedthrough) - receptacle, single pole (VP-DF-1HV-BU)



drawing - dimensions in mm [inch]

P/N	Description	Receptacle	Number of contacts	Including contacts	Panel mount
5000200	VP-DF-1HV-BU POM AWG 20 Ag	•	1	•	•
5000201	VP-DF-1HV-BU POM AWG 20 - 16 Ag	•	1	•	•
5000202	VP-DF-1HV-BU POM AWG 26 - 22 Ag	•	1	•	•
5000203	VP-DF-1HV-BU POM AWG 16 - 15 Ag	•	1	•	•
5000204	VP-DF-1HV-BU POM AWG 14 Ag	•	1	•	•

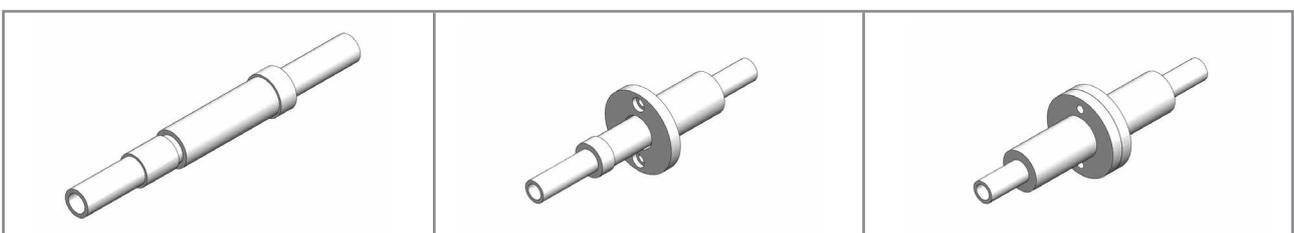
VarioPro Basic DF (feedthrough) - plug, single pole (VP-DF-1HV-ST)



drawing - dimensions in mm [inch]

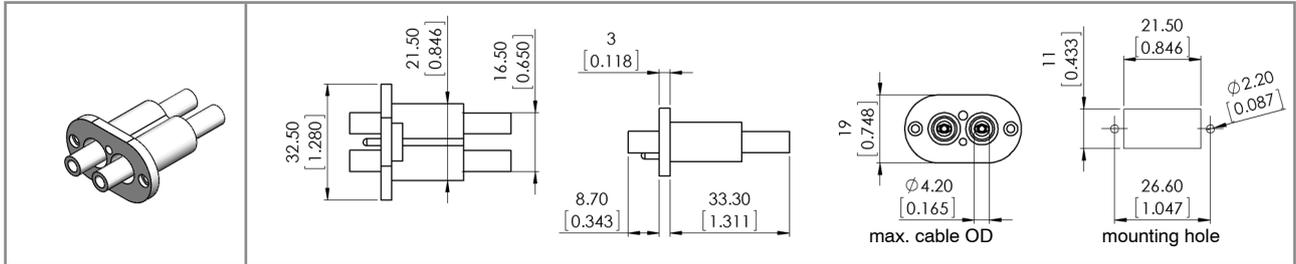
P/N	Description	Plug	Number of contacts	Including contacts	Panel mount
5000210	VP-DF-1HV-ST POM AWG 20 Ag	•	1	•	•
5000211	VP-DF-1HV-ST POM AWG 20 - 16 Ag	•	1	•	•
5000212	VP-DF-1HV-ST POM AWG 26 - 22 Ag	•	1	•	•
5000213	VP-DF-1HV-ST POM AWG 16 - 15 Ag	•	1	•	•
5000214	VP-DF-1HV-ST POM AWG 14 Ag	•	1	•	•

Possible combinations



VarioPro Basic DF (feedthrough) - receptacle, 2-pole (VP-DF-2HV-BU)

Drawing

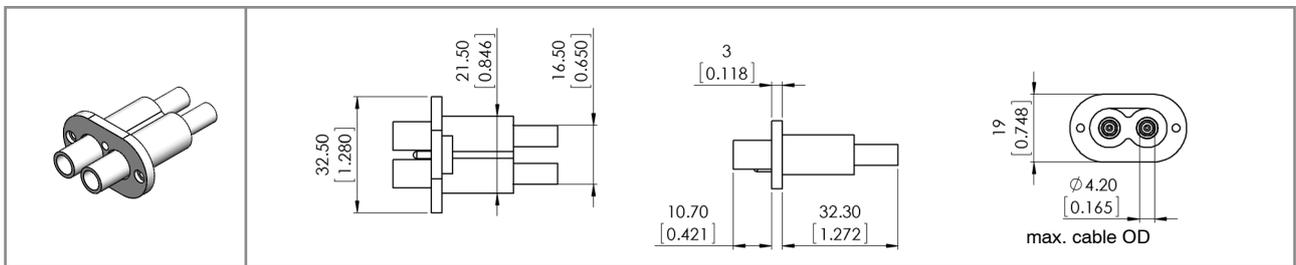


drawing - dimensions in mm [inch]

P/N	Description	Receptacle	Number of contacts	Including contacts	Panel mount
5000220	VP-DF-2HV-BU POM AWG 26 - 22 Ag	•	2	•	•
5000221	VP-DF-2HV-BU POM AWG 20 Ag	•	2	•	•
5000222	VP-DF-2HV-BU POM AWG 20 - 16 Ag	•	2	•	•
5000223	VP-DF-2HV-BU POM AWG 16 - 15 Ag	•	2	•	•
5000224	VP-DF-2HV-BU POM AWG 14 Ag	•	2	•	•

VarioPro Basic DF (feedthrough) - plug, 2-pole (VP-DF-2HV-ST)

Drawing



drawing - dimensions in mm [inch]

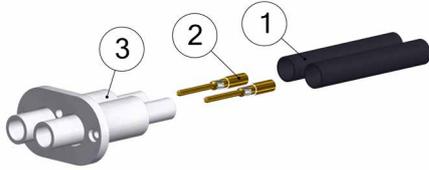
P/N	Description	Plug	Number of contacts	Including contacts	Panel mount
5000230	VP-DF-2HV-ST POM AWG 26 - 22 Ag	•	2	•	•
5000231	VP-DF-2HV-ST POM AWG 20 Ag	•	2	•	•
5000232	VP-DF-2HV-ST POM AWG 20 - 16 Ag	•	2	•	•
5000233	VP-DF-2HV-ST POM AWG 16 - 15 Ag	•	2	•	•
5000234	VP-DF-2HV-ST POM AWG 14 Ag	•	2	•	•

 **Cables and tools:** page 84

Assembly Instructions Series-VP

Basic Feedthrough - plug

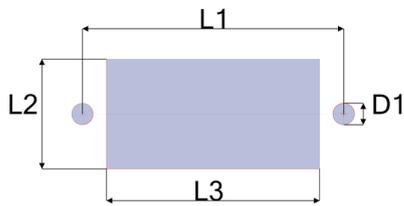
1.



Part as supplied

Shrinking tube (1), male contact (2), connector shell (3)

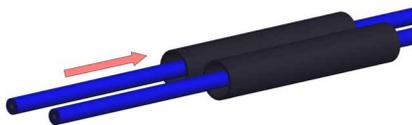
2.



Panel cut out

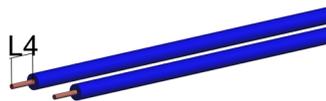
Type	D1 mm [inch]	L1 mm [inch]	L2 mm [inch]	L3 mm [inch]
VP-DF-2HV-ST	2.20 [.087"]	26.60 [1.047"]	11.20 [.441"]	21.70 [.854"]

3.



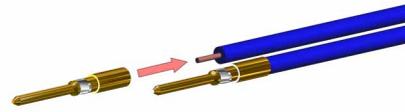
Place shrinking tube (1) on cable

4.



Remove dielectric insulation (L4 = 5-8 mm)
[.197" - .315"]

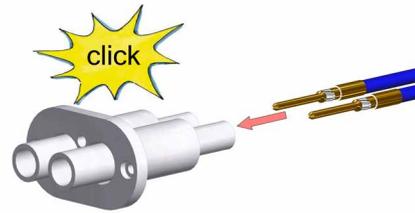
5.



Solder or crimp contact (2) on conductor

⚠ Please notice for soldering: Tin-solder must not remain on contact surface

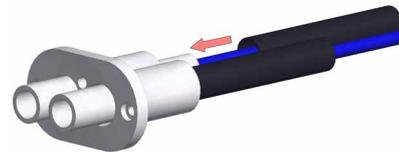
6.



Slide contact (2) completely into connector shell (3) until contact snaps

🗨 Pull gently to check that contact is correctly located and remains in position

7.



Slide shrinking tube (1) on connector shell (3)

8.



Shrink tubes - shrinking temperature 110°C

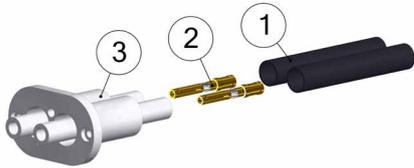
9.



Assembly finished

Assembly Instructions Series-VP Basic Feedthrough - receptacle

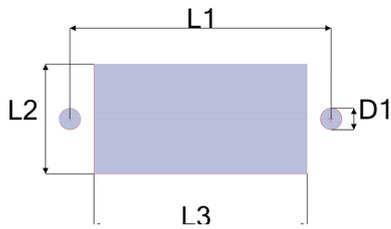
1.



Part as supplied

Shrinking tube (1), female contact (2), connector shell (3)

2.



Panel cut out

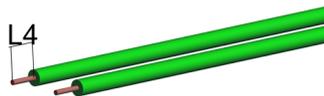
Type	D1 mm [inch]	L1 mm [inch]	L2 mm [inch]	L3 mm [inch]
VP-DF-2HV-BU	2.20 [.087"]	26.60 [1.047"]	11.20 [.441"]	21.70 [.854"]

3.



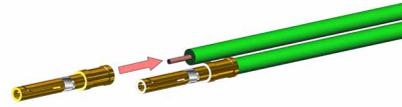
Place shrinking tube (1) on cable

4.



Remove dielectric insulation (L4 = 5-8 mm)
[.197" - .315"]

5.



Solder or crimp contact (2) on conductor

⚠ Please notice for soldering: Tin-solder must not remain on contact surface

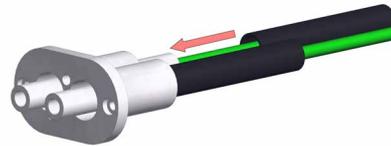
6.



Slide contact (2) completely into connector shell (3) until contact snaps

🗨 Pull gently to check that contact is correctly located and remains in position

7.



Slide shrinking tube (1) on connector shell (3)

8.



Shrink tubes - shrinking temperature 110°C

9.



Assembly finished

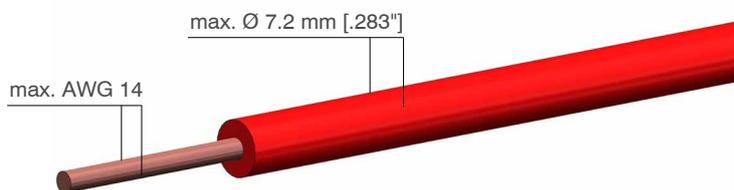
General characteristics and technical data Series VarioPro SB10

Electrical values	
Operating voltage (DC)	10 kV
Test voltage (DC)	15 kV

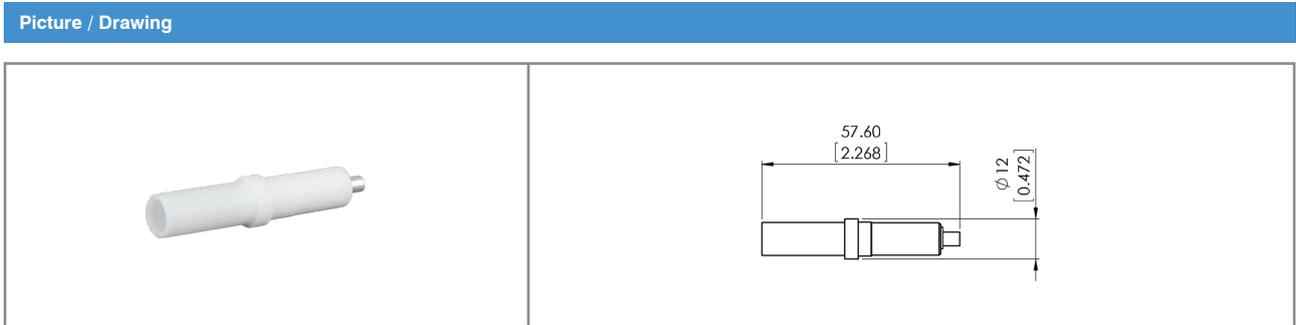
Housing	
Number of HV-contacts	1
Insulation material	POM / PTFE
Flammability class POM	UL94 HB
Flammability class PTFE	UL94 V-0
Operating temperature POM	-30°C to +120°C
Operating temperature PTFE	-50°C to +200°C
Insulating material group	I (DIN IEC 60664)

Contacts 2.7 mm	
Termination method	solder
Rated current	30 A
Contact resistance	≤ 300 mΩ
Contact diameter	2.7 mm [.106"]
Wire size (AWG / cross section)	AWG 14 (2.5 mm ²)
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Mating cycles	≥ 100,000
Rated temperature	+120°C

Suitable cable dimensions

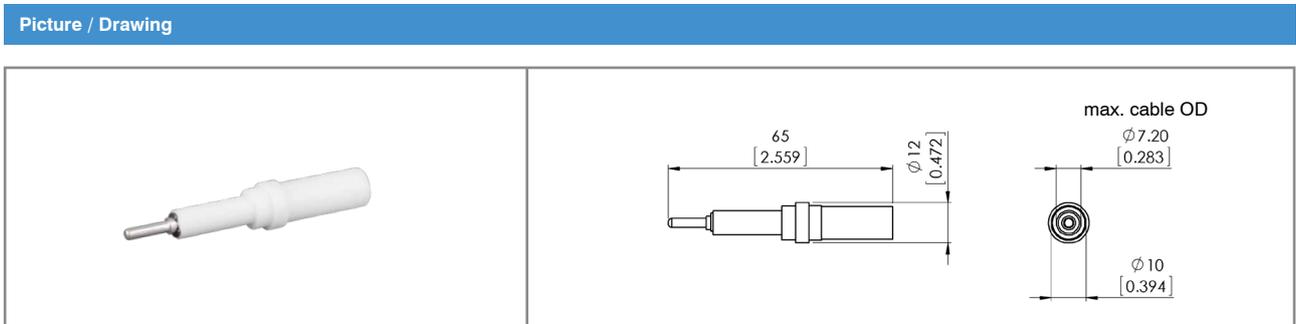


VarioPro Basic B10 - receptacle



drawing - dimensions in mm [inch]

VarioPro Basic S10 - plug



drawing - dimensions in mm [inch]

P/N	Description	Plug	Receptacle	Number of contacts	Including contacts	Contacts, silver plated
710000	S10 POM	•		1	•	•
710100	B10 POM		•	1	•	•
710200	S10 PTFE	•		1	•	•
710300	B10 PTFE		•	1	•	•

 **Cables and tools: page 84**

Single parts / Contacts for types VarioPro Clip Lock, Basic and Basic Feedthrough

VP Series

Male contacts 1.6 mm

P/N	Description	Cross section in mm ² (D)	AWG (D)	Silver plated	Gold plated	Drawing
6575085	male contact 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22	•		
6575086	male contact 1.6 mm / AWG 20	0.5	20	•		
6575088	male contact 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16	•		
6575090	male contact 1.6 mm / AWG 16 - 15	1.5	16 - 15	•		
6575083	male contact 1.6 mm / AWG 14	2.5	14	•		
6575118	male contact AU 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22		•	
6575121	male contact AU 1.6 mm / AWG 20	0.5	20		•	
6575116	male contact AU 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16		•	
6575124	male contact AU 1.6 mm / AWG 16 - 15	1.5	16 - 15		•	
6575125	male contact AU 1.6 mm / AWG 14	2.5	14		•	

drawing - dimensions in mm [inch]

Female contacts 1.6 mm

P/N	Description	Cross section in mm ² (D)	AWG (D)	Silver plated	Gold plated	Drawing
6575095	female contact 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22	•		
6575107	female contact 1.6 mm / AWG 20	0.5	20	•		
6575098	female contact 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16	•		
6575100	female contact 1.6 mm / AWG 16 - 15	1.5	16 - 15	•		
6575084	female contact 1.6 mm / AWG 14	2.5	14	•		
6575127	female contact AU 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22		•	
6575131	female contact AU 1.6 mm / AWG 20	0.5	20		•	
6575117	female contact AU 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16		•	
6575132	female contact AU 1.6 mm / AWG 16 - 15	1.5	16 - 15		•	
6575133	female contact AU 1.6 mm / AWG 14	2.5	14		•	

drawing - dimensions in mm [inch]

Male contacts 2.5 mm

Part no.	Description	Cross section in mm ² (D)	AWG (D)	Picture / Drawing
6575087	male contact 2.5 mm / AWG 20	0.5	20	
6575089	male contact 2.5 mm / AWG 18	0.75 - 1.0	18	
6575092	male contact 2.5 mm / AWG 16	1.5	16	
6575094	male contact 2.5 mm / AWG 14	2.5	14	
6575091	male contact 2.5 mm / AWG 12	4.0	12	

Female contacts 2.5 mm

Part no.	Description	Cross section in mm ² (D)	AWG (D)	Picture / Drawing
6575108	female contact 2.5 mm / AWG 20	0.5	20	
6575111	female contact 2.5 mm / AWG 18	0.75 - 1.0	18	
6575102	female contact 2.5 mm / AWG 16	1.5	16	
6575104	female contact 2.5 mm / AWG 14	2.5	14	
6575113	female contact 2.5 mm / AWG 12	4.0	12	

Suitable cables for Series VP

Part No.	3330090	3330091	3330092	3330093	3330094	3330095	3330020
Operating voltage DC	15 kVDC						10 kVDC
Operating voltage AC rms	-						-
Conductor size							
AWG	AWG 24	AWG 22	AWG 20	AWG 18	AWG 16	AWG 14	AWG 14
Strands	19 x AWG 36	7 x AWG 30	10 x AWG 30	16 x AWG 30	26 x AWG 30	41 x AWG 30	50 x 0.25 mm
Cross section	0.24 mm ²	0.36 mm ²	0.51 mm ²	0.81 mm ²	1.32 mm ²	2.08 mm ²	2.5 mm ²
Diameter	0.55 mm	0.68 mm	0.81 mm	1.02 mm	1.30 mm	1.63 mm	1.78 mm
Dielectric insulation							
Diameter	2.7 mm	2.9 mm	3.0 mm	3.3 mm	3.5 mm	3.9 mm	3.8 mm
Material	silicone						silicone
Ozone and corona resistant	YES						-
UL	AWM Style 3239						-
Temperature rating	max. 150°C						-20°C to +180°C
Color	red*						black
Fits connector types	VarioPro Clip Lock 1-, 2-, and 3-pole VarioPro Basic VarioPro Basic Feedthroughs 1-, and 2-pole						

*Different colors available on request

Tools

Part No.	Description	Connector types
3000001	Extracting tool for contacts 1.6 mm - male and female	VP ClipLock, VP Basic
3000015	Crimping tool for contacts 1.6 mm - male and female incl. pliers, contact holder and crimping cheeks	VP ClipLock, VP Basic

MCS Series



MOD Series
M Series
MC Series
MCS Series
VP Series
200 Series
100 Series
S Series

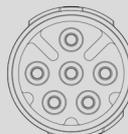
- Operating voltage up to 5 kVDC
- Operating current up to 4.5 A
- 2 - 6 high voltage contacts
- Quick and easy assembling
- Protection class IP68 acc. DIN EN 60529

General characteristics and technical data Series MCS

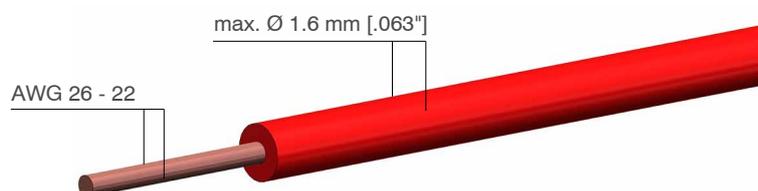
Housing	
Locking system	threaded coupling
Panel mount type	round flange
Housing material	brass (CuZn)
Surface plating	nickel (Ni)
Protection class acc. DIN EN 60529 (mated connector)	IP68
Operating temperature	-30°C to +80°C

Contacts 0.7 mm	
Termination method	solder / crimp
Rated current	4.5 A
Contact resistance	< 0,7 mΩ
Contact diameter	0.7 mm [.028"]
Wire size	AWG 26 - 22 (0.15-0.38 mm ²)
Contact material	brass (CuZn)
Contact plating	gold (Au)
Mating cycles	≥ 5000

Insulation inserts	
Number of contacts	2, 4, 6
Insulation material	PBT
Flammability class	UL94 V-0
Operating temperature	-40°C to +150°C
CTI value	600
Insulation material group	I (DIN IEC 60664)
Max. diameter of dielectric cable insulation	1.6 mm

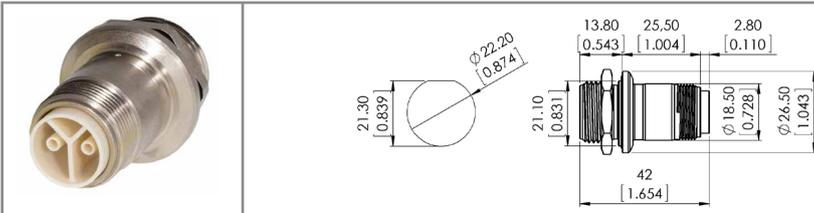
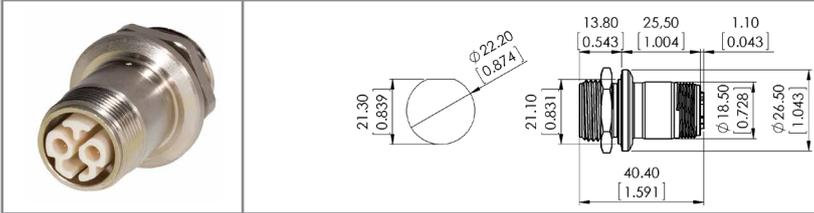
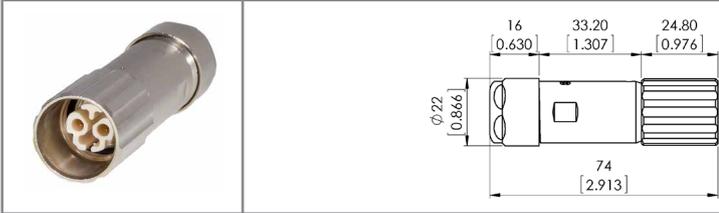
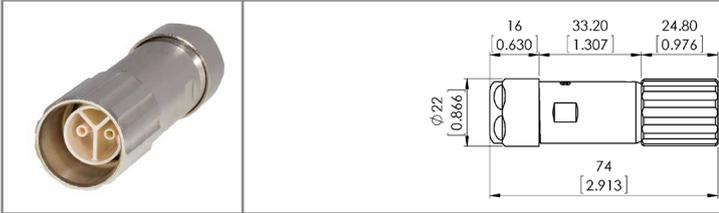
Configurations			
Type	205	405	605
Receptacle			
Plug			

Suitable cable dimensions (single wire)



Electrical Values	
Operating Voltage (DC)	5 kV
Test Voltage (DC)	8 kV
Rated Current	4.5 A

Characteristics	
Number of pins	2
Insulation material	PBT

Type / Version / Description	Picture / Drawing
GB-MCS205 Receptacle, panel mount incl. female contacts 0.7 mm	
GS-MCS205 plug, panel mount incl. male contacts 0.7 mm	
KS-MCS205 plug, cable mount incl. male contacts 0.7 mm	
KB-MCS205 Receptacle, cable mount incl. female contacts 0.7 mm	

drawing - dimensions in mm [inch]

Part no.	Description	Plug	Receptacle	Cable mount	Panel mount	Clamping range (in mm [inch]) Screwed cable gland
5001200	GB-MCS205		•		•	
5001205	GS-MCS205	•			•	
5001210	KS-MCS205 6.5 – 4.0	•		•		6.5 – 4.0 [.256" - .157"]
5001211	KS-MCS205 8.0 – 5.0	•		•		8.0 – 5.0 [.315" - .197"]
5001212	KS-MCS205 9.5 – 6.5	•		•		9.5 – 6.5 [.374" - .256"]
5001213	KS-MCS205 10.5 – 7.0	•		•		10.5 – 7.0 [.413" - .276"]
5001220	KB-MCS205 6.5 – 4.0		•	•		6.5 – 4.0 [.256" - .157"]
5001221	KB-MCS205 8.0 – 5.0		•	•		8.0 – 5.0 [.315" - .197"]
5001222	KB-MCS205 9.5 – 6.5		•	•		9.5 – 6.5 [.374" - .256"]
5001223	KB-MCS205 10.5 – 7.0		•	•		10.5 – 7.0 [.413" - .276"]

 **Accessories:** page 90
2-core cable: page 94

Electrical Values	
Operating Voltage (DC)	5 kV
Test Voltage (DC)	8 kV
Rated Current	4.5 A

Characteristics	
Number of pins	4
Insulation material	PBT

Type / Version / Description	Picture / Drawing
GB-MCS405 Receptacle, panel mount incl. female contacts 0.7 mm	
GS-MCS405 plug, panel mount incl. male contacts 0.7 mm	
KS-MCS405 plug, cable mount incl. male contacts 0.7 mm	
KB-MCS405 Receptacle, cable mount incl. female contacts 0.7 mm	

drawing - dimensions in mm [inch]

Part no.	Description	Plug	Receptacle	Cable mount	Panel mount	Clamping range (in mm [inch]) Screwed cable gland
5001400	GB-MCS405		•		•	
5001405	GS-MCS405	•			•	
5001410	KS-MCS405 6.5 – 4.0	•		•		6.5 – 4.0 [.256" - .157"]
5001411	KS-MCS405 8.0 – 5.0	•		•		8.0 – 5.0 [.315" - .197"]
5001412	KS-MCS405 9.5 – 6.5	•		•		9.5 – 6.5 [.374" - .256"]
5001413	KS-MCS405 10.5 – 7.0	•		•		10.5 – 7.0 [.413" - .276"]
5001420	KB-MCS405 6.5 – 4.0		•	•		6.5 – 4.0 [.256" - .157"]
5001421	KB-MCS405 8.0 – 5.0		•	•		8.0 – 5.0 [.315" - .197"]
5001422	KB-MCS405 9.5 – 6.5		•	•		9.5 – 6.5 [.374" - .256"]
5001423	KB-MCS405 10.5 – 7.0		•	•		10.5 – 7.0 [.413" - .276"]

Accessories: page 90
4-core cable: page 94

Electrical Values	
Operating Voltage (DC)	5 kV
Test Voltage (DC)	8 kV
Rated Current	4.5 A

Characteristics	
Number of pins	6
Insulation material	PBT

Type / Version / Description	Picture / Drawing
GB-MCS605 Receptacle, panel mount incl. female contacts 0.7 mm	
GS-MCS605 plug, panel mount incl. male contacts 0.7 mm	
KS-MCS605 plug, cable mount incl. male contacts 0.7 mm	
KB-MCS605 Receptacle, cable mount incl. female contacts 0.7 mm	

drawing - dimensions in mm [inch]

Part no.	Description	Plug	Receptacle	Cable mount	Panel mount	Clamping range (in mm [inch]) Screwed cable gland
5001600	GB-MCS605		•		•	
5001605	GS-MCS605	•			•	
5001610	KS-MCS605 6.5 – 4.0	•		•		6.5 – 4.0 [.256" - .157"]
5001611	KS-MCS605 8.0 – 5.0	•		•		8.0 – 5.0 [.315" - .197"]
5001612	KS-MCS605 9.5 – 6.5	•		•		9.5 – 6.5 [.374" - .256"]
5001613	KS-MCS605 10.5 – 7.0	•		•		10.5 – 7.0 [.413" - .276"]
5001620	KB-MCS605 6.5 – 4.0		•	•		6.5 – 4.0 [.256" - .157"]
5001621	KB-MCS605 8.0 – 5.0		•	•		8.0 – 5.0 [.315" - .197"]
5001622	KB-MCS605 9.5 – 6.5		•	•		9.5 – 6.5 [.374" - .256"]
5001623	KB-MCS605 10.5 – 7.0		•	•		10.5 – 7.0 [.413" - .276"]

Accessories: page 90
6-core cable: page 94

Contacts

Part no.	Description	Cross section In mm ² (D)	AWG (D)	Mechanical drawing
6575150	Male contact 0.7 mm	0.15 – 0.38	26 - 22	
6575160	Female contact 0.7 mm	0.15 – 0.38	26 - 22	

drawing - dimensions in mm [inch]

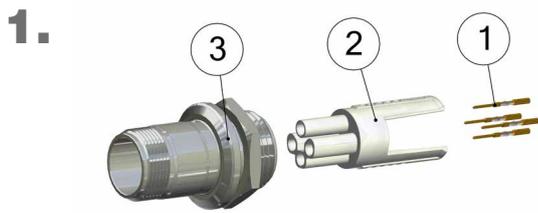
Coverings with thread

Part no.	Description	Mechanical drawing
1672118	Covering (inside thread) for types GS / GB 205 - 605	
1672119	Covering (outside thread) for types KS / KB 205 - 605	

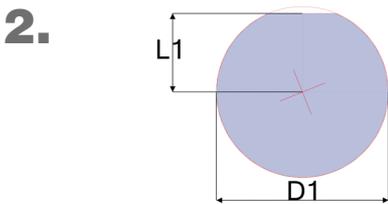
drawing - dimensions in mm [inch]

Ejector tool / Crimping tool

Part no.	Description
3000016	Extracting tool for 0.7 mm crimping contacts
3000024	Crimping tool fro 0.7 mm crimping contacts incl. pliers, contact holder and crimping cheeks

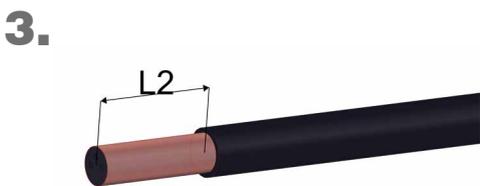


Part as delivered
contacts (1), insulation part (2), housing (3)

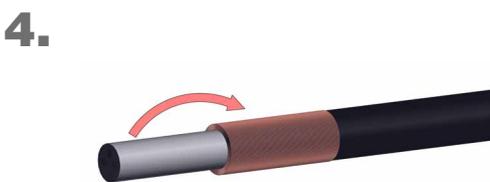


Panel cut out

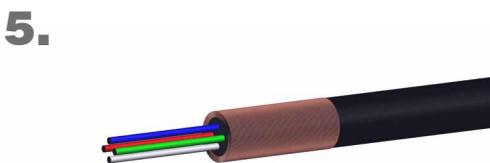
D1 mm [inch]	L1 mm [inch]
22.20 [.874"]	10.10 [.398"]



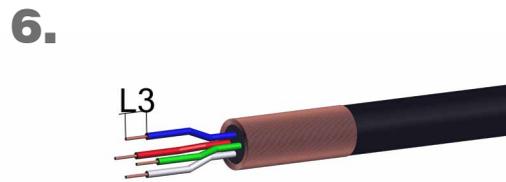
Carefully remove cable jacket
(L2 = min. 30 mm [1.181"])
⚠ Do not damage metal shield.



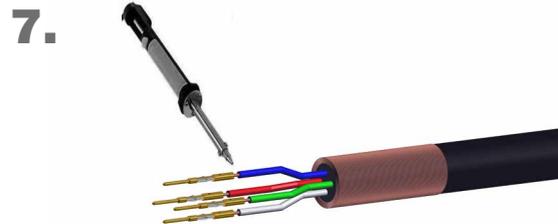
Fold back shield



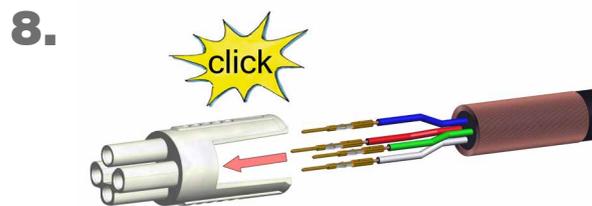
Remove any filling elements from cable



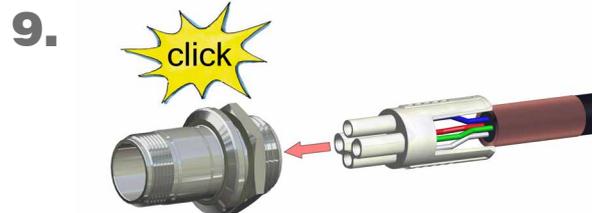
Remove dielectric insulation of single wires
(L3 = 4 mm [.157"])
⚠ Do not damage conductor.



Crimp or solder one contact (1) each on every conductor
⚠ Tin-solder must not remain on contact surface!



Slide contacts (1) completely into insulation part (2) until contacts snap
🗨 Put in all contacts at the same time

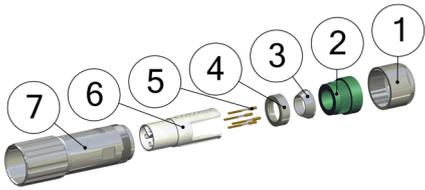


Put insulation part (2) into housing (3)
🗨 Pay attention to notches.



Assembly finished

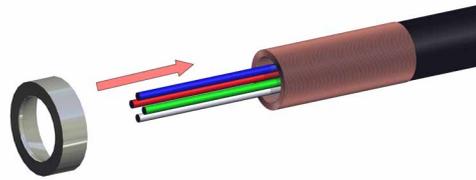
1.



Part as delivered

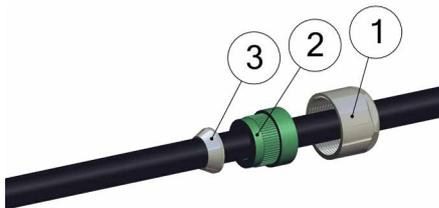
cap (1), clamping rubber (2), outer cone (3), inner cone (4), contacts (5), insulation part (6), housing (7)

6.



Place inner cone (4) on cable

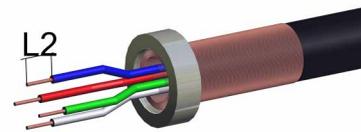
2.



Place cap (1), clamping rubber (2) and outer cone (3) on cable

⚠ Respect correct order of parts (see picture).

7.



Remove dielectric insulation of single wires (L2 = 4 mm [.157"])

⚠ Do not damage conductor.

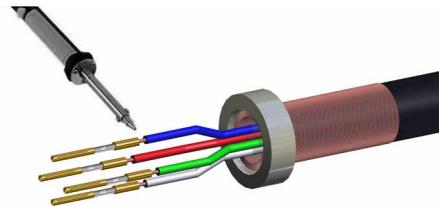
3.



Carefully remove cable jacket (L1 = 28 mm [1.102"])

⚠ Do not damage metal shield.
Do not damage dielectric insulation.

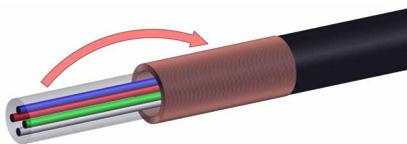
8.



Crimp or solder one contact (5) each on every conductor

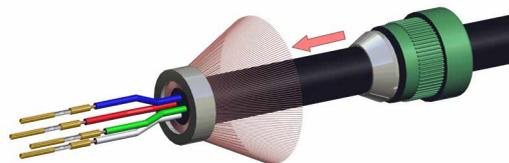
⚠ Tin-solder must not remain on contact surface!

4.



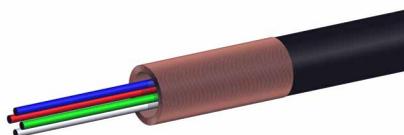
Fold back shield braid over jacket

9.



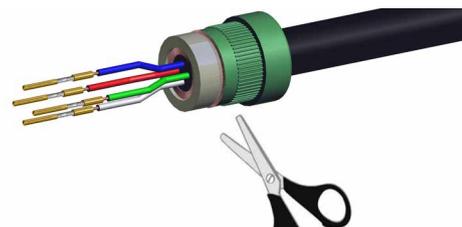
Completely widen shield braid. Push outer cone (3) and clamping rubber (2) under shield braid against inner cone (4) until shield braid clamps between outer cone (3) and inner cone (4)

5.



Remove any filling elements from cable

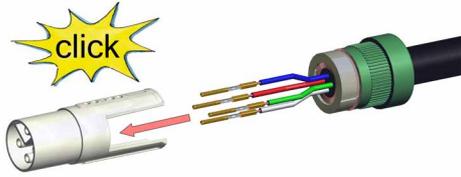
10.



Cut overlapping shield braid

⚠ Carefully remove loose shield parts. Loose shield parts can cause electrical break down.

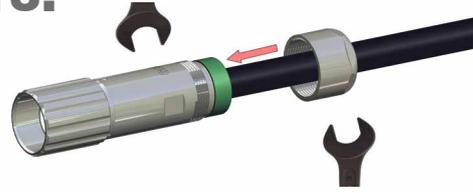
11.



Slide contacts (5) completely into insulation part (6) until contacts snap

 Insert all contacts at the same time. Pull gently to check that contacts are correctly located and remain in position.

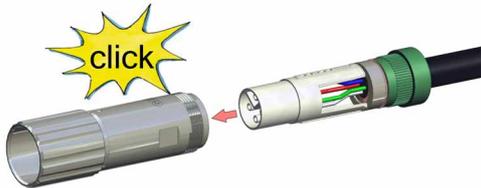
13.



Put on cap

Wrench size cap	Wrench size housing	Tightening torque [Nm]
20	19	5

12.



Slide insulation part (6) into housing (7) until insulation part snap in

 Use notches for correct position of insulation part.

14.



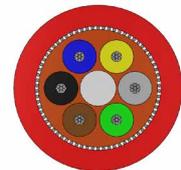
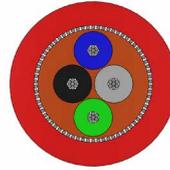
Assembly finished



Note – important!

1. Please carefully read assembly instructions before cable assembly.
2. Cable assembly must only be done by trained and qualified personnel.

	Part No. 3330082	Part No. 3330084	Part No. 3330086
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Operating voltage DC	5 kVDC		
Test voltage DC	7.5 kVDC		
Number of wires	2	4	6
Construction	2 wires stranded	4 wires stranded	6 wires stranded
Conductor			
AWG	AWG 26		
Strands	7 x 0.16 mm		
Cross section	0.14 mm ²		
Conductor diameter	0.42 mm		
Conductor material	tinned copper		
Dielectric			
Diameter	1.6 mm [.063"] (± 0.1 mm)		
Material	FEP		
Encoding	grey, black	grey, black, blue, green	grey, black, blue, green, yellow, brown
Screen (Shield)	YES		
Coverage	about 85 %		
Material	tinned copper		
Jacket			
Diameter	6.2 mm [.244"] (± 0.3 mm)	6.9 mm [.272"] (± 0.3 mm)	7.9 mm [.311"] (± 0.3 mm)
Material	Silicone		
Color	red		
Temperature range	-30°C to +180°C		
Fits connector types	MCS205	MCS405	MCS605

MC Series



- › Operating voltage from 10 kVDC to 15 kVDC
- › Operating current up to 13 A
- › 2 - 5 HV contacts
- › For cable sizes AWG 26-14

P/N	Description	Plug	Receptacle	Cable mount	Panel mount	Coupling	Adapter	HV-pins
5002010R	GB-MC207 POM		•		•			2
5002020R	GS-MC207 POM	•			•			2
5002030A	KS-MC207/6.5-8 POM	•		•				2
5002030B	KS-MC207/8-9.5 POM	•		•				2
5002030C	KS-MC207/9.5-11 POM	•		•				2
5002030D	KS-MC207/11-12.5 POM	•		•				2
5002030E	KS-MC207/12.5-14 POM	•		•				2
5002030M	KS-MC207/M20 POM	•		•			•	2
5002030N	KS-MC207/M25 POM	•		•			•	2
5002040A	KB-MC207/6.5-8 POM		•	•				2
5002040B	KB-MC207/8-9.5 POM		•	•				2
5002040C	KB-MC207/9.5-11 POM		•	•				2
5002040D	KB-MC207/11-12.5 POM		•	•				2
5002040E	KB-MC207/12.5-14 POM		•	•				2
5002040M	KB-MC207/M20 POM		•	•			•	2
5002040N	KB-MC207/M25 POM		•	•			•	2
5002041A	KBI-MC207/6.5-8 POM		•	•		•		2
5002041B	KBI-MC207/8-9.5 POM		•	•		•		2
5002041C	KBI-MC207/9.5-11 POM		•	•		•		2
5002041D	KBI-MC207/11-12.5 POM		•	•		•		2
5002041E	KBI-MC207/12.5-14 POM		•	•		•		2
5002041M	KBI-MC207/M20 POM		•	•		•	•	2
5002041N	KBI-MC207/M25 POM		•	•		•	•	2
5003010R	GB-MC307 POM		•		•			3
5003020R	GS-MC307 POM				•			3
5003030A	KS-MC307/6.5-8 POM	•		•				3
5003030B	KS-MC307/8-9.5 POM	•		•				3
5003030C	KS-MC307/9.5-11 POM	•		•				3
5003030D	KS-MC307/11-12.5 POM	•		•				3
5003030E	KS-MC307/12.5-14 POM	•		•				3
5003030M	KS-MC307/M20 POM	•		•			•	3
5003030N	KS-MC307/M25 POM	•		•			•	3
5003040A	KB-MC307/6.5-8 POM	•	•	•				3
5003040B	KB-MC307/8-9.5 POM		•	•				3
5003040C	KB-MC307/9.5-11 POM		•	•				3
5003040D	KB-MC307/11-12.5 POM		•	•				3
5003040E	KB-MC307/12.5-14 POM		•	•				3
5003040M	KB-MC307/M20 POM		•	•			•	3
5003040N	KB-MC307/M25 POM		•	•			•	3
5003041A	KBI-MC307/6.5-8 POM		•	•		•		3
5003041B	KBI-MC307/8-9.5 POM		•	•		•		3
5003041C	KBI-MC307/9.5-11 POM		•	•		•		3
5003041D	KBI-MC307/11-12.5 POM		•	•		•		3
5003041E	KBI-MC307/12.5-14 POM		•	•		•		3
5003041M	KBI-MC307/M20 POM		•	•		•	•	3
5003041N	KBI-MC307/M25 POM		•	•		•	•	3
5004010R	GB-MC407 POM		•		•			4
5004020R	GS-MC407 POM	•			•			4
5004030A	KS-MC407/6.5-8 POM	•		•				4
5004030B	KS-MC407/8-9.5 POM	•		•				4
5004030C	KS-MC407/9.5-11 POM	•		•				4
5004030D	KS-MC407/11-12.5 POM	•		•				4
5004030E	KS-MC407/12.5-14 POM	•		•				4
5004030M	KS-MC407/M20 POM	•		•			•	4
5004030N	KS-MC407/M25 POM	•		•			•	4
5004040A	KB-MC407/6.5-8 POM		•	•				4
5004040B	KB-MC407/8-9.5 POM		•	•				4
5004040C	KB-MC407/9.5-11 POM		•	•				4
5004040D	KB-MC407/11-12.5 POM		•	•				4
5004040E	KB-MC407/12.5-14 POM		•	•				4
5004040M	KB-MC407/M20 POM		•	•			•	4
5004040N	KB-MC407/M25 POM		•	•			•	4
5004042A	KBI-MC407/6.5-8 POM		•	•		•		4
5004042B	KBI-MC407/8-9.5 POM		•	•		•		4
5004042C	KBI-MC407/9.5-11 POM		•	•		•		4
5004042D	KBI-MC407/11-12.5 POM		•	•		•		4
5004042E	KBI-MC407/12.5-14 POM		•	•		•		4
5004042M	KBI-MC407/M20 POM		•	•		•	•	4
5004042N	KBI-MC407/M25 POM		•	•		•	•	4

P/N	Description	Plug	Receptacle	Cable mount	Panel mount	Coupling	Adapter	HV-pins
5005010R	GB-MC507 POM		•		•			5
5005020R	GS-MC507 POM	•			•			5
5005030A	KS-MC507/6.5-8 POM	•		•				5
5005030B	KS-MC507/8-9.5 POM	•		•				5
5005030C	KS-MC507/9.5-11 POM	•		•				5
5005030D	KS-MC507/11-12.5 POM	•		•				5
5005030E	KS-MC507/12.5-14 POM	•		•				5
5005030M	KS-MC507/M20 POM	•		•			•	5
5005030N	KS-MC507/M25 POM	•		•			•	5
5005040A	KB-MC507/6.5-8 POM		•	•				5
5005040B	KB-MC507/8-9.5 POM		•	•				5
5005040C	KB-MC507/9.5-11 POM		•	•				5
5005040D	KB-MC507/11-12.5 POM		•	•				5
5005040E	KB-MC507/12.5-14 POM		•	•				5
5005040M	KB-MC507/M20 POM		•	•			•	5
5005040N	KB-MC507/M25 POM		•	•			•	5
5005042A	KBI-MC507/6.5-8 POM		•	•		•		5
5005042B	KBI-MC507/8-9.5 POM		•	•		•		5
5005042C	KBI-MC507/9.5-11 POM		•	•		•		5
5005042D	KBI-MC507/11-12.5 POM		•	•		•		5
5005042E	KBI-MC507/12.5-14 POM		•	•		•		5
5005042M	KBI-MC507/M20 POM		•	•		•	•	5
5005042N	KBI-MC507/M25 POM		•	•		•	•	5
5005115R	GB-MC520 PTFE		•		•			5
5005125R	GS-MC520 PTFE	•			•			5
5005135A	KS-MC520/6.5-8 PTFE	•		•				5
5005135B	KS-MC520/8-9.5 PTFE	•		•				5
5005135C	KS-MC520/9.5-11 PTFE	•		•				5
5005135D	KS-MC520/11-12.5 PTFE	•		•				5
5005135E	KS-MC520/12.5-14 PTFE	•		•				5
5005135M	KS-MC520/M20 PTFE	•		•			•	5
5005135N	KS-MC520/M25 PTFE	•		•			•	5
5005145A	KB-MC520/6.5-8 PTFE		•	•				5
5005145B	KB-MC520/8-9.5 PTFE		•	•				5
5005145C	KB-MC520/9.5-11 PTFE		•	•				5
5005145D	KB-MC520/11-12.5 PTFE		•	•				5
5005145E	KB-MC520/12.5-14 PTFE		•	•				5
5005145M	KB-MC520/M20 PTFE		•	•			•	5
5005145N	KB-MC520/M25 PTFE		•	•			•	5
5005146A	KBI-MC520/6.5-8 PTFE		•	•		•		5
5005146B	KBI-MC520/8-9.5 PTFE		•	•		•		5
5005146C	KBI-MC520/9.5-11 PTFE		•	•		•		5
5005146D	KBI-MC520/11-12.5 PTFE		•	•		•		5
5005146E	KBI-MC520/12.5-14 PTFE		•	•		•		5
5005146M	KBI-MC520/M20 PTFE		•	•		•	•	5
5005146N	KBI-MC520/M25 PTFE		•	•		•	•	5

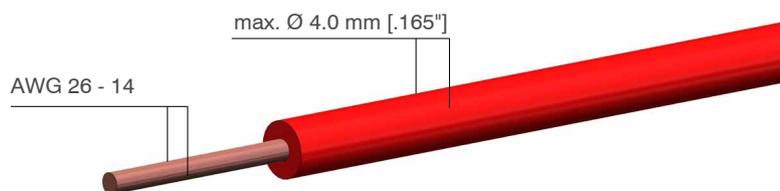
Steps	Parts				
<p>1 Choose connector type</p> <p>Example: 2-pole</p> <p>(page 100-109)</p>	<p>receptacle, panel mount</p> 	<p>plug, panel mount</p> 	<p>receptacle, cable mount</p> 	<p>plug, cable mount</p> 	<p>coupling, cable mount</p> 
<p>2 Choose contacts</p> <p>(page 110)</p>	<p>female contact</p> 	<p>male contact</p> 	<p>female contact</p> 	<p>male contact</p> 	<p>female contact</p> 
<p>3 Choose accessories (optional)</p> <p>(page 111-112)</p>	<p>gaskets coverings</p>				

Housing	
Locking system	threaded coupling
Mounting type (panel mount connector)	4-hole flange
Housing material basis / adapter	brass (CuZn)
Surface plating	nickel (Ni)
Protection class (mated connector)	IP60 (IP65 on request)
Operating temperature	-30°C to +80°C

Contacts 1.6 mm	
Termination method	solder / crimp
Rated current	13 A
Contact resistance	≤ 5 mΩ
Contact diameter	1.6 mm [.063"]
Wire size (AWG / cross section)	AWG 26 - 14 (0.14 mm ² - 2.5 mm ²)
Contact material	brass (CuZn)
Contact plating	silver (Ag) / gold (Au)
Mating cycles	≥ 1,000

Insulation inserts	
Number of contacts	2, 3, 4, 5
Insulation material	PTFE / POM
CTI value	600
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)

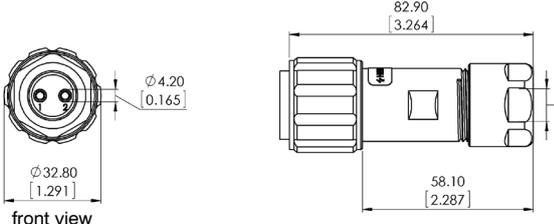


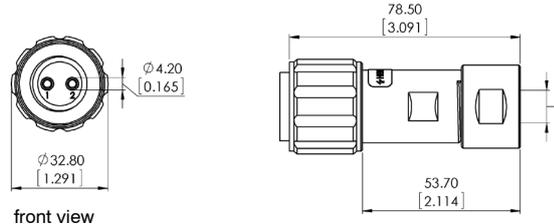
Plug, cable mount / Receptacle, panel mount / Receptacle, coupling, cable mount

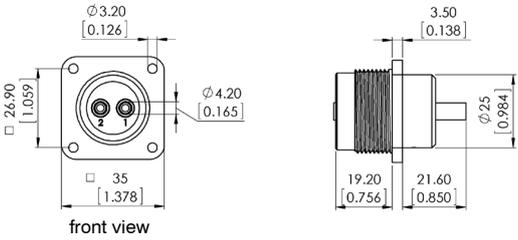
Electrical values	
Operating voltage (DC)	10 kV
Test voltage (DC)	15 kV
Rated current	13 A

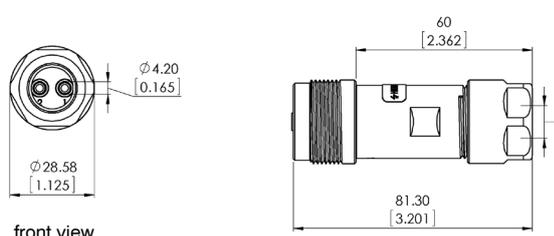
Characteristics	
Number of pins	2
Insulation material	POM

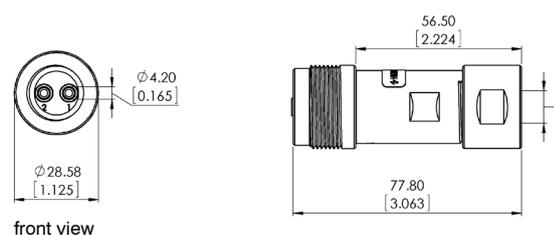
Type / Version / Part number	Picture / Drawing
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<p>KS-MC207</p> <p>Plug, cable mount with integrated cable gland</p> <table border="1"> <thead> <tr> <th>Part no.</th> <th>Clamping range</th> </tr> </thead> <tbody> <tr> <td>5002030A</td> <td>6.5 - 8 mm [.256" - .315"]</td> </tr> <tr> <td>5002030B</td> <td>8 - 9.5 mm [.315" - .374"]</td> </tr> <tr> <td>5002030C</td> <td>9.5 - 11 mm [.374" - .433"]</td> </tr> <tr> <td>5002030D</td> <td>11 - 12.5 mm [.433" - .492"]</td> </tr> <tr> <td>5002030E</td> <td>12.5 - 14 mm [.492" - .551"]</td> </tr> </tbody> </table>	Part no.	Clamping range	5002030A	6.5 - 8 mm [.256" - .315"]	5002030B	8 - 9.5 mm [.315" - .374"]	5002030C	9.5 - 11 mm [.374" - .433"]	5002030D	11 - 12.5 mm [.433" - .492"]	5002030E	12.5 - 14 mm [.492" - .551"]	  <p>front view</p>
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5002030N	M25 x 1.5						

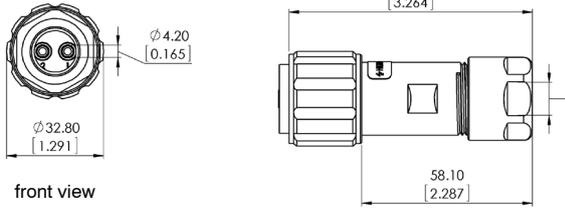
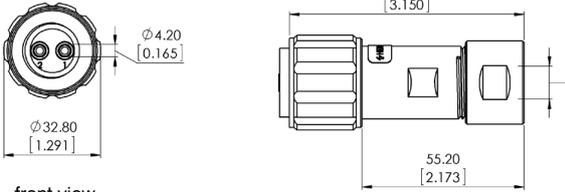
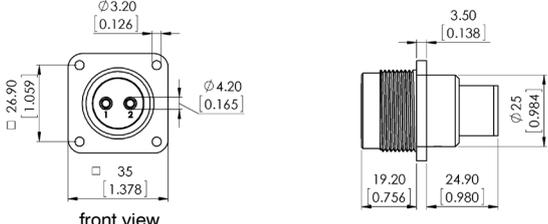
<p>GB-MC207</p> <p>Receptacle, panel mount</p> <p>Part no. 5002010R</p>	  <p>front view</p>
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<p>KBI-MC207</p> <p>Receptacle, coupling, cable mount with integrated cable gland</p> <table border="1"> <thead> <tr> <th>Part no.</th> <th>Clamping range</th> </tr> </thead> <tbody> <tr> <td>5002041A</td> <td>6.5 - 8 mm [.256" - .315"]</td> </tr> <tr> <td>5002041B</td> <td>8 - 9.5 mm [.315" - .374"]</td> </tr> <tr> <td>5002041C</td> <td>9.5 - 11 mm [.374" - .433"]</td> </tr> <tr> <td>5002041D</td> <td>11 - 12.5 mm [.433" - .492"]</td> </tr> <tr> <td>5002041E</td> <td>12.5 - 14 mm [.492" - .551"]</td> </tr> </tbody> </table>	Part no.	Clamping range	5002041A	6.5 - 8 mm [.256" - .315"]	5002041B	8 - 9.5 mm [.315" - .374"]	5002041C	9.5 - 11 mm [.374" - .433"]	5002041D	11 - 12.5 mm [.433" - .492"]	5002041E	12.5 - 14 mm [.492" - .551"]	  <p>front view</p>
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5002041N	M25 x 1.5						

 **Contacts, cable glands and accessories: pages 110-112**
Mounting instructions: pages 113-124

drawing - dimensions in mm [inch]

Type / Version / Part number	Picture / Drawing													
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5002040N	M25 x 1.5													
<p>GS-MC207</p> <p>Plug, panel mount</p> <p>Part no. 5002020R</p>		 <p>front view</p>												

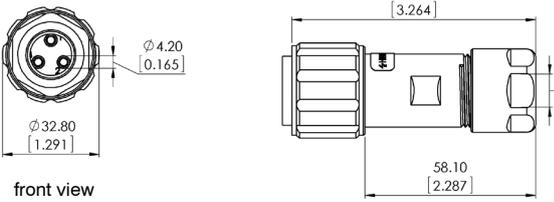
drawing - dimensions in mm [inch]

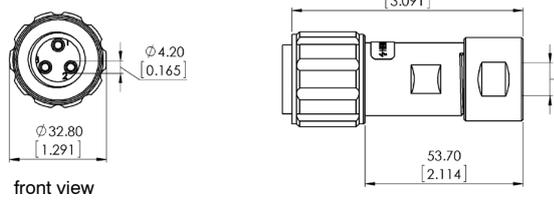

Contacts, cable glands and accessories: pages 110-112
Mounting instructions: pages 113-124

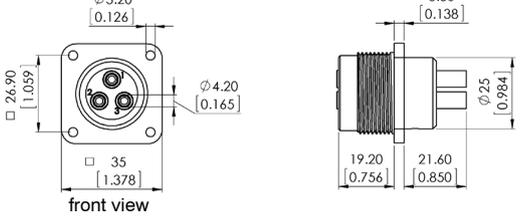
Plug, cable mount / Receptacle, panel mount / Receptacle, coupling, cable mount

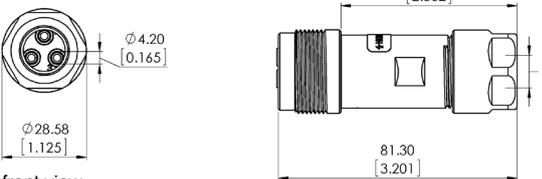
Electrical values		Characteristics	
Operating voltage (DC)	10 kV	Number of pins	3
Test voltage (DC)	15 kV	Insulation material	POM
Rated current	13 A		

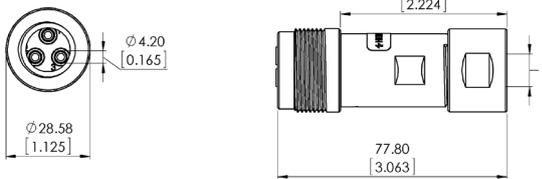
Type / Version / Part number	Picture / Drawing
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<p>KS-MC307</p> <p>Plug, cable mount with integrated cable gland</p> <table border="1"> <thead> <tr> <th>Part no.</th> <th>Clamping range</th> </tr> </thead> <tbody> <tr> <td>5003030A</td> <td>6.5 - 8 mm [.256" - .315"]</td> </tr> <tr> <td>5003030B</td> <td>8 - 9.5 mm [.315" - .374"]</td> </tr> <tr> <td>5003030C</td> <td>9.5 - 11 mm [.374" - .433"]</td> </tr> <tr> <td>5003030D</td> <td>11 - 12.5 mm [.433" - .492"]</td> </tr> <tr> <td>5003030E</td> <td>12.5 - 14 mm [.492" - .551"]</td> </tr> </tbody> </table>	Part no.	Clamping range	5003030A	6.5 - 8 mm [.256" - .315"]	5003030B	8 - 9.5 mm [.315" - .374"]	5003030C	9.5 - 11 mm [.374" - .433"]	5003030D	11 - 12.5 mm [.433" - .492"]	5003030E	12.5 - 14 mm [.492" - .551"]	  <p>front view</p>
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5003030N	M25 x 1.5						

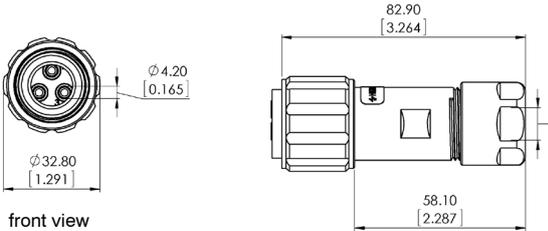
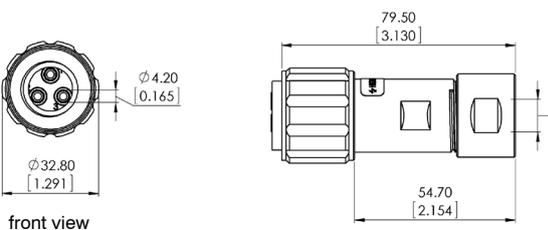
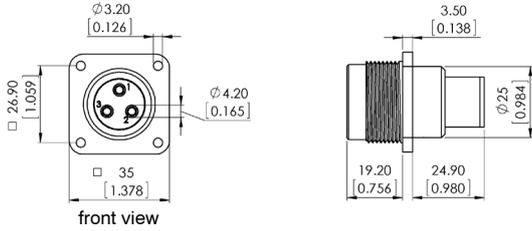
<p>GB-MC307</p> <p>Receptacle, panel mount</p> <p>Part no. 5003010R</p>	  <p>front view</p>
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 **Contacts, cable glands and accessories: pages 110-112**
Mounting instructions: pages 113-124

drawing - dimensions in mm [inch]

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Contacts, cable glands and accessories: pages 110-112
Mounting instructions: pages 113-124

Plug, cable mount / Receptacle, panel mount / Receptacle, coupling, cable mount

Electrical values	
Operating voltage (DC)	10 kV
Test voltage (DC)	15 kV
Rated current	13 A

Characteristics	
Number of pins	4
Insulation material	POM

Type / Version / Part number	Picture / Drawing
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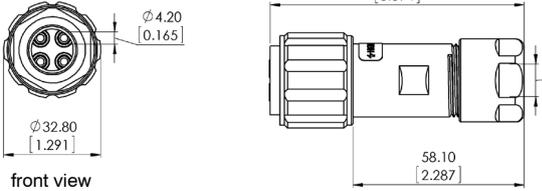
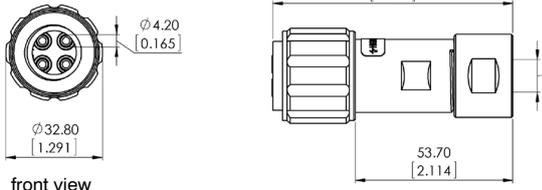
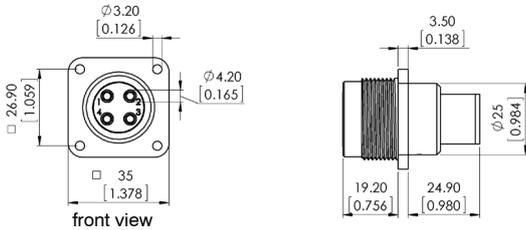
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Contacts, cable glands and accessories: pages 110-112
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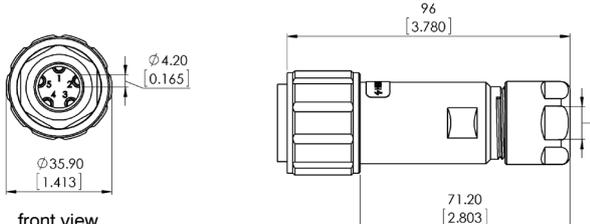
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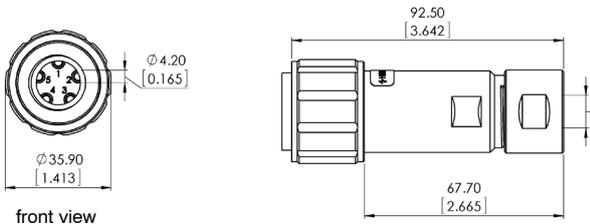

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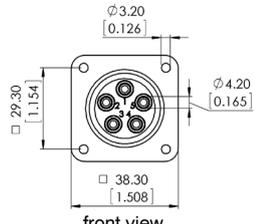
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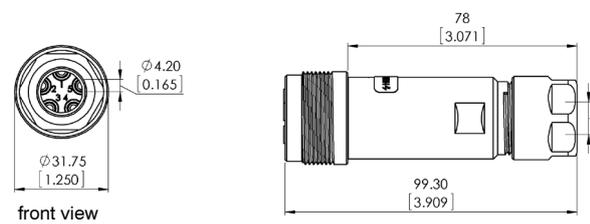
Electrical values		Characteristics	
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Test voltage (DC)	15 kV	Insulation material	POM
Rated current	13 A		

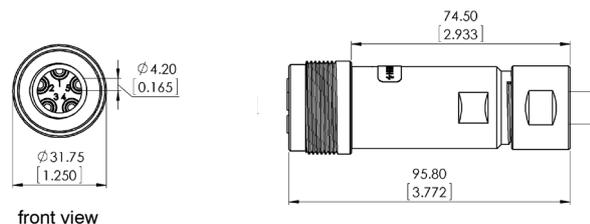
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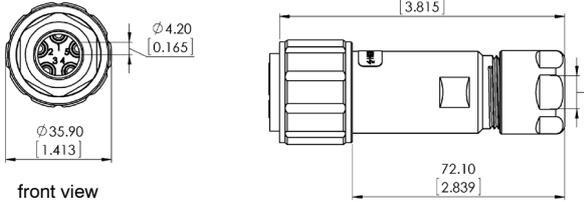
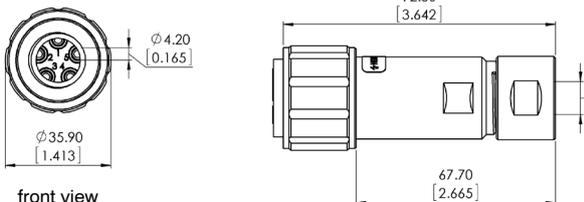
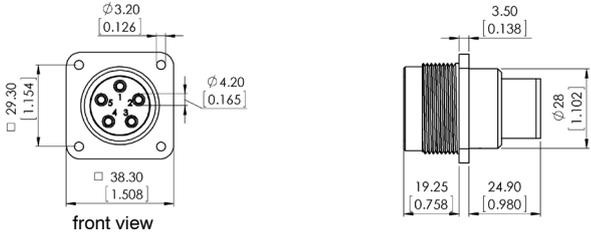
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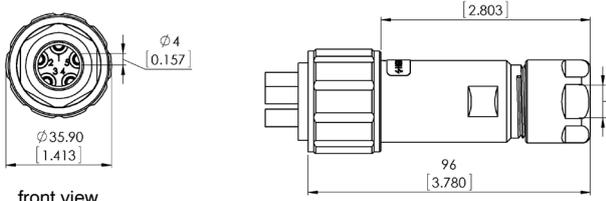

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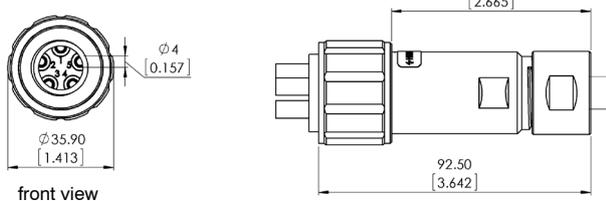
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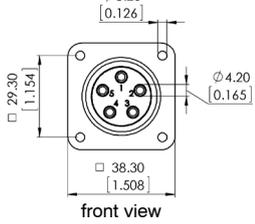
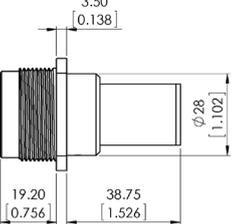
Electrical values	
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Test voltage (DC)	23 kV
Rated current	13 A

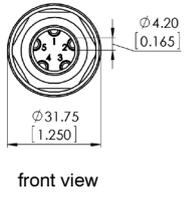
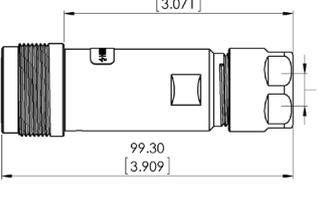
Characteristics	
Number of pins	5
Insulation material	PTFE

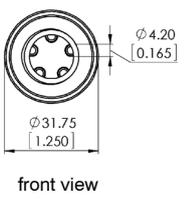
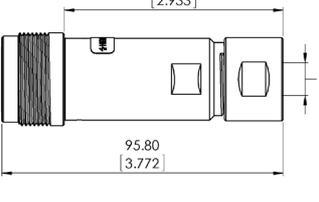
Type / Version / Part number	Picture / Drawing
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<p>KS-MC520</p> <p>Plug, cable mount with integrated cable gland</p> <table border="1"> <thead> <tr> <th>Part no.</th> <th>Clamping range</th> </tr> </thead> <tbody> <tr> <td>5005135A</td> <td>6.5 - 8 mm [.256" - .315"]</td> </tr> <tr> <td>5005135B</td> <td>8 - 9.5 mm [.315" - .374"]</td> </tr> <tr> <td>5005135C</td> <td>9.5 - 11 mm [.374" - .433"]</td> </tr> <tr> <td>5005135D</td> <td>11 - 12.5 mm [.433" - .492"]</td> </tr> <tr> <td>5005135E</td> <td>12.5 - 14 mm [.492" - .551"]</td> </tr> </tbody> </table>	Part no.	Clamping range	5005135A	6.5 - 8 mm [.256" - .315"]	5005135B	8 - 9.5 mm [.315" - .374"]	5005135C	9.5 - 11 mm [.374" - .433"]	5005135D	11 - 12.5 mm [.433" - .492"]	5005135E	12.5 - 14 mm [.492" - .551"]	  <p>front view</p>
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<p>KS-MC520</p> <p>Plug, cable mount with adapter M20/M25 for external cable gland</p> <table border="1"> <thead> <tr> <th>Part no.</th> <th>Connecting thread</th> </tr> </thead> <tbody> <tr> <td>5005135M</td> <td>M20 x 1.5</td> </tr> <tr> <td>5005135N</td> <td>M25 x 1.5</td> </tr> </tbody> </table>	Part no.	Connecting thread	5005135M	M20 x 1.5	5005135N	M25 x 1.5	  <p>front view</p>
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5005135N	M25 x 1.5						

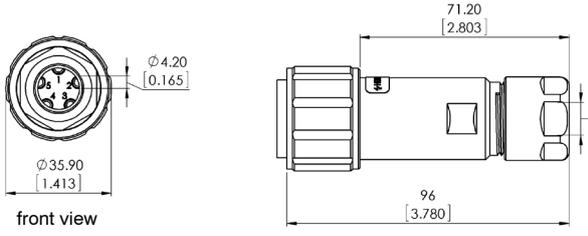
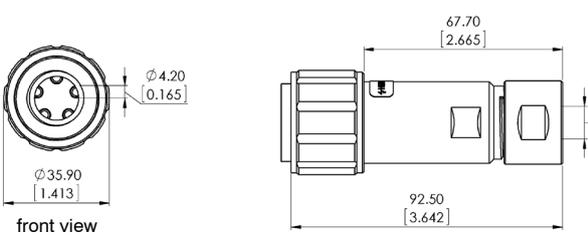
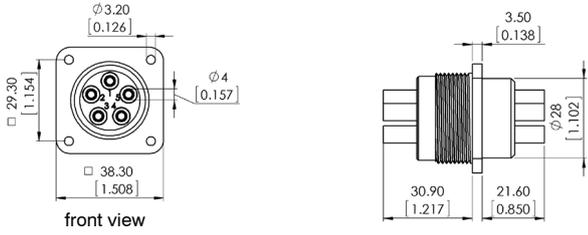
<p>GB-MC520</p> <p>Receptacle, panel mount</p> <p>Part no. 5005115R</p>	  <p>front view</p> 
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<p>KBI-MC520</p> <p>Receptacle, coupling, cable mount with integrated cable gland</p> <table border="1"> <thead> <tr> <th>Part no.</th> <th>Clamping range</th> </tr> </thead> <tbody> <tr> <td>5005146A</td> <td>6.5 - 8 mm [.256" - .315"]</td> </tr> <tr> <td>5005146B</td> <td>8 - 9.5 mm [.315" - .374"]</td> </tr> <tr> <td>5005146C</td> <td>9.5 - 11 mm [.374" - .433"]</td> </tr> <tr> <td>5005146D</td> <td>11 - 12.5 mm [.433" - .492"]</td> </tr> <tr> <td>5005146E</td> <td>12.5 - 14 mm [.492" - .551"]</td> </tr> </tbody> </table>	Part no.	Clamping range	5005146A	6.5 - 8 mm [.256" - .315"]	5005146B	8 - 9.5 mm [.315" - .374"]	5005146C	9.5 - 11 mm [.374" - .433"]	5005146D	11 - 12.5 mm [.433" - .492"]	5005146E	12.5 - 14 mm [.492" - .551"]	  <p>front view</p> 
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Contacts, cable glands and accessories: pages 110-112
Mounting instructions: pages 113-124

drawing - dimensions in mm [inch]

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<p>KB-MC520</p> <p>Receptacle, cable mount with integrated cable gland</p> <table border="1"> <thead> <tr> <th>Part no.</th> <th>Clamping range</th> </tr> </thead> <tbody> <tr> <td>5005145A</td> <td>6.5 - 8 mm [.256" - .315"]</td> </tr> <tr> <td>5005145B</td> <td>8 - 9.5 mm [.315" - .374"]</td> </tr> <tr> <td>5005145C</td> <td>9.5 - 11 mm [.374" - .433"]</td> </tr> <tr> <td>5005145D</td> <td>11 - 12.5 mm [.433" - .492"]</td> </tr> <tr> <td>5005145E</td> <td>12.5 - 14 mm [.492" - .551"]</td> </tr> </tbody> </table>	Part no.	Clamping range	5005145A	6.5 - 8 mm [.256" - .315"]	5005145B	8 - 9.5 mm [.315" - .374"]	5005145C	9.5 - 11 mm [.374" - .433"]	5005145D	11 - 12.5 mm [.433" - .492"]	5005145E	12.5 - 14 mm [.492" - .551"]		 <p>front view</p>
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<p>GS-MC520</p> <p>Plug, panel mount</p> <p>Part no. 5005125R</p>		 <p>front view</p>												

drawing - dimensions in mm [inch]


Contacts, cable glands and accessories: pages 110-112
Mounting instructions: pages 113-124

Male contacts 1.6 mm

Part no.	Description	Cross section in mm ² (D)	AWG	Silver plated	Gold plated	Drawing
6575085	male contact 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22	•		
6575086	male contact 1.6 mm / AWG 20	0.5	20	•		
6575088	male contact 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16	•		
6575090	male contact 1.6 mm / AWG 16 - 15	1.5	16 - 15	•		
6575083	male contact 1.6 mm / AWG 14	2.5	14	•		
6575118	male contact AU 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22		•	
6575121	male contact AU 1.6 mm / AWG 20	0.5	20		•	
6575116	male contact AU 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16		•	
6575124	male contact AU 1.6 mm / AWG 16 - 15	1.5	16 - 15		•	
6575125	male contact AU 1.6 mm / AWG 14	2.5	14		•	

drawing - dimensions in mm [inch]

Male contact 1.6 mm interlock for safety interlock circle

Part no.	Description	Cross section in mm ² (D)	AWG	Silver plated	Gold plated	Drawing
6575079	male contact interlock 1.6 mm / AWG 14 <i>Short version for safety interlock circle</i>	2.5	14	•		

drawing - dimensions in mm [inch]

Female contacts 1.6 mm

Part no.	Description	Cross section in mm ² (D)	AWG	Silver plated	Gold plated	Drawing
6575095	female contact 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22	•		
6575107	female contact 1.6 mm / AWG 20	0.5	20	•		
6575098	female contact 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16	•		
6575100	female contact 1.6 mm / AWG 16 - 15	1.5	16 - 15	•		
6575084	female contact 1.6 mm / AWG 14	2.5	14	•		
6575127	female contact AU 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22		•	
6575131	female contact AU 1.6 mm / AWG 20	0.5	20		•	
6575117	female contact AU 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16		•	
6575132	female contact AU 1.6 mm / AWG 16 - 15	1.5	16 - 15		•	
6575133	female contact AU 1.6 mm / AWG 14	2.5	14		•	

drawing - dimensions in mm [inch]

For adapter versions: Screwed cable glands M20 / M25

Part no.	Description	Clamping range in mm (D)	Drawing
1674058	screwed cable gland M20x1.5, 5-10 mm	5 - 10	
1674110	screwed cable gland M20x1.5, 10-14 mm	10 - 14	
1674111	screwed cable gland M20x1.5, 7-12 mm	7 - 12	
1674117	screwed cable gland M25 x 1.5, 13-18 mm	13-18	
1674119	screwed cable gland M25 x 1.5, 9-16 mm	9-16	

drawing - dimensions in mm [inch]

Gaskets

Part no.	Description	Drawing
6572081	Flat gasket for types GS/GB 207 - 407 (Size 18)	
6572054	Flat gasket for types GS/GB 507/520 (Size 20)	

drawing - dimensions in mm [inch]

Coverings with thread

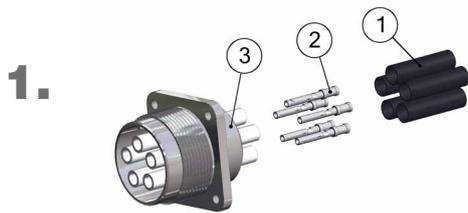
P/N	Description	Mechanical drawing
1672070	Covering for types KS/KB 507	<p>chain length min. 120 mm</p>
1672072	Covering for types KS/KB 207 - 407	<p>chain length min. 120 mm</p>

drawing - dimensions in mm [inch]

Tools

Part No.	Description	Connector types
3000001	Extracting tool for contacts 1.6 mm - male and female	MC 207 - 507
3000015	Crimping tool for contacts 1.6 mm - male and female incl. pliers, contact holder and crimping cheeks	MC 207 - 507, MC 520
3000050	Screwdriver for threaded pin size M3	MC 207 - 507, MC 520

Assembly Instructions Series MC - type 207-507 receptacle, panel mount

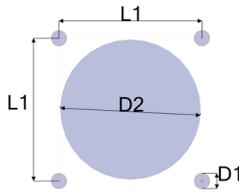


1.

Part as supplied

Shrinking tubes (1), female contacts (2), connector housing (3)

2.



Panel cut out

Type	L1 mm [inch]	D1 mm [inch]	D2 mm [inch]
GB 207 / 307 / 407	26.90 [1.059"]	3.00 [.118"]	26.00 [1.024"]
GB 507	29.30 [1.154"]	3.00 [.118"]	29.00 [1.142"]

3.

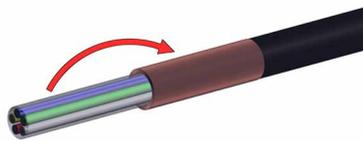


Carefully remove cable jacket.

Type	L2 mm [inch]
GB 207 / 307 / 407 / 507	min. 45 [1.772"]

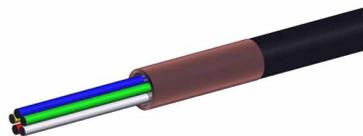
⚠ Do not damage metal shield braid

4.



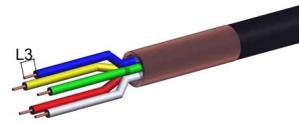
Fold back shield braid.

5.



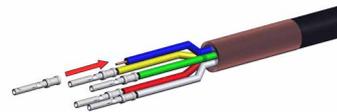
Remove any filling elements from cable.

6.



Remove dielectric insulation of single wires (L3 = 5 - 8 mm [.197" - .315"]).

7.



Crimp or solder one female contact (2) on each conductor.

⚠ For soldering: Tin-solder must not remain on contact surface!

8.



Put shrinking tubes (1) on insulation tubes on rear side of connector housing (3).

9.



Slide contacts (2) completely into insulation tubes until contacts snap into place.

🗨 Pull gently to check that contacts are correctly located and remain in position.

10.



Shrink tubes - shrinking temperature 110°C.

11.



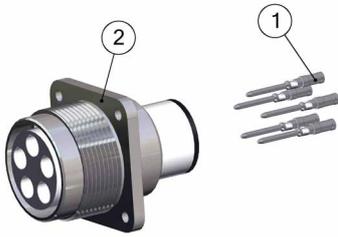
Assembly finished.

Assembly Instructions

Series MC - type 207-507

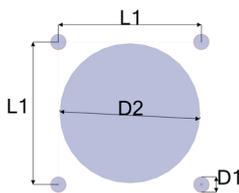
plug, panel mount

1.



Part as supplied.
Male contacts (1), connector housing (2)

2.



Panel cut out

Type	L1 mm [inch]	D1 mm [inch]	D2 mm [inch]
GS 207 / 307 / 407	26.90 [1.059"]	3.00 [.118"]	26.00 [1.024"]
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3.

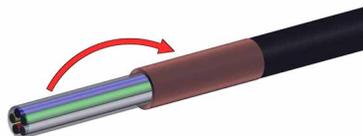


Carefully remove cable jacket.

Type	L2 mm [inch]
GS 207 / 307 / 407 / 507	min. 45 [1.772"]

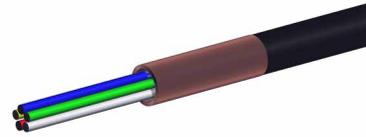
⚠ Do not damage metal shield braid

4.



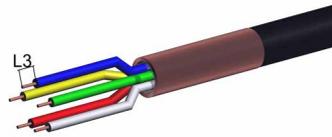
Fold back shield braid.

5.



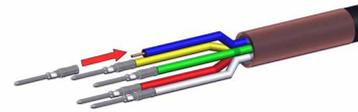
Remove any filling elements from cable.

6.



Remove dielectric insulation of single wires (L3 = 5 - 8 mm [.197" - .315"]).

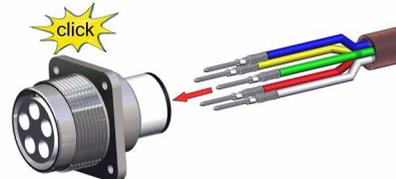
7.



Crimp or solder one male contact (1) on each conductor.

⚠ For soldering: Tin-solder must not remain on contact surface!

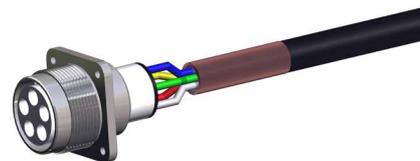
8.



Slide contacts (1) completely into connector shell (2) until contacts snap into place.

🗨 Pull gently to check that contacts are correctly located and remain in position.

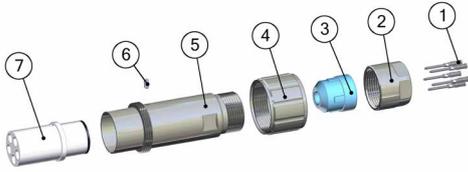
9.



Assembly finished.

Assembly Instructions Series MC - type 207-507 plug, cable mount

1.



Part as supplied

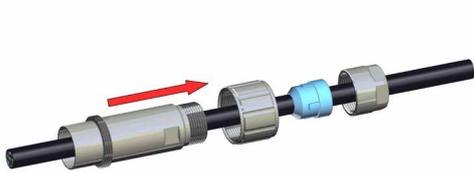
Male contacts (1), cap (2), sealing insert (3), screw joint (4), basis (5), threaded pin (6), insulation insert (7).

5.



Fix shield braid with tape.

2.



Place cap (2), sealing insert (3), screw joint (4) and basis (5) onto cable.

6.



Remove any filling elements from cable.

3.

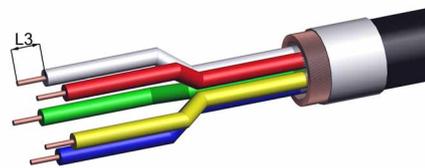


Remove cable jacket.

Type	L1 mm [inch]	L2 mm [inch]
KS 207 / 307 / 407 / 507	50 [1.968"]	35 [1.377"]

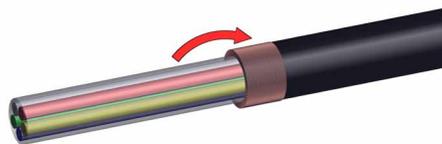
⚠ Do not damage metal shield braid

7.



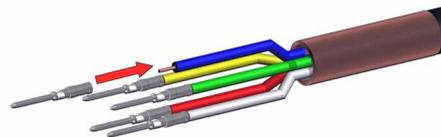
Remove dielectric insulation (L3 = 5-8 mm [.197" - .315"]).

4.



Fold back shield braid over jacket.

8.



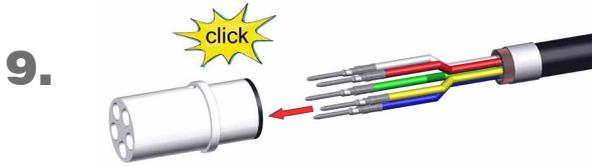
Crimp or solder female contacts (1) on conductor.

⚠ For soldering: Tin-solder must not remain on contact surface.

Assembly Instructions

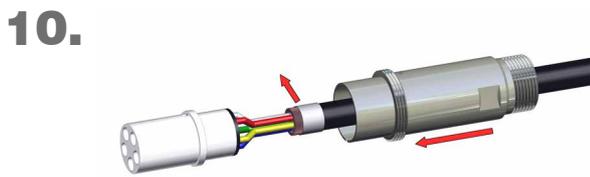
Series MC - type 207-507

plug, cable mount

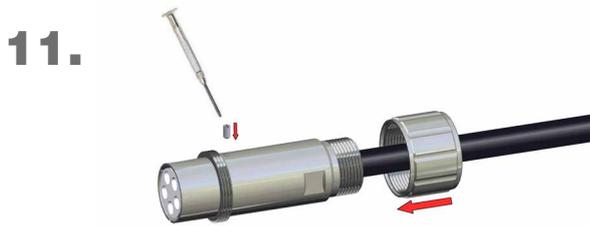


Slide contacts completely into insulation insert (7) until contacts snap into place.

Pull gently to check that contacts are correctly located and remain in position.



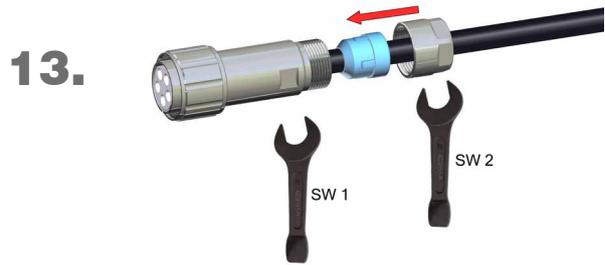
Remove tape and place basis (5) onto insulation insert (7)



Secure insulation insert (7) with threaded pin (6), then screw joint (4) onto basis (5).



Widen shield braid.



Insert sealing (3) completely and screw cap (2) onto basis (5).

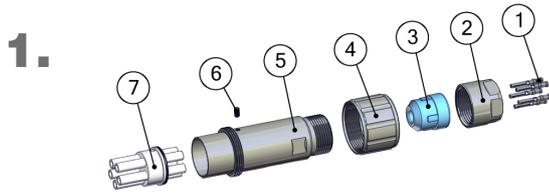
Cable gland type	SW 1	SW 2
KS 207 / 307 / 407	23	26
KS 507	26	26

Tightening torque is 7 Nm



Assembly finished.

Assembly Instructions Series MC - type 207-507 receptacle cable mount & coupling

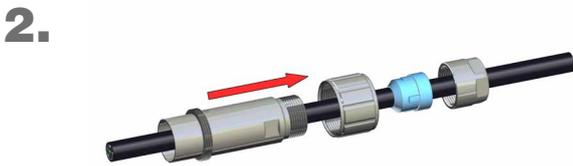


Part as supplied.

Female contacts (1), cap (2), sealing insert (3), screw joint (4), basis (5), threaded pin (6), insulation insert (7).



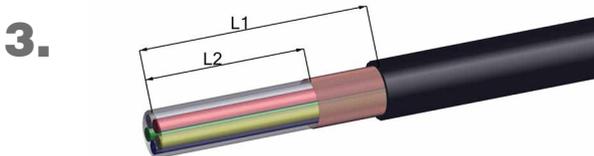
Fix shield braid with tape.



Place cap (2), sealing insert (3), screw joint (4) and basis (5) onto cable



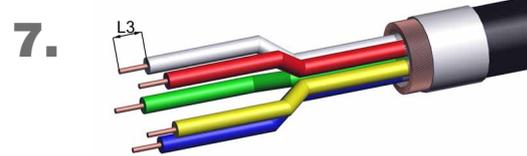
Remove any filling elements from cable.



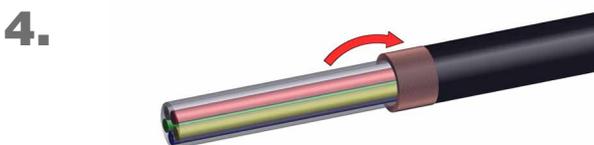
Remove cable jacket.

Type	L1 mm [inch]	L2 mm [inch]
KS 207 / 307 / 407 / 507	50 [1.968"]	35 [1.377"]

⚠ Do not damage metal shield braid.



Remove dielectric insulation (L3 = 5-8 mm [.197" - .315"]).



Fold back shield braid over jacket.



Crimp or solder female contacts (1) on conductor.

⚠ For soldering: Tin-solder must not remain on contact surface.

Assembly Instructions

Series MC - type 207-507

receptacle cable mount & coupling

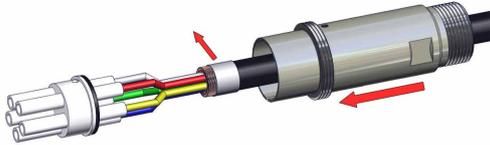
9.



Slide female contacts completely into insulation insert until contacts snap into place.

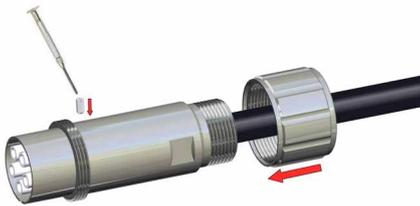
 Pull gently to check that contacts are correctly located and remain in position.

10.



Remove tape and place basis (5) onto insulation insert (7)

11.



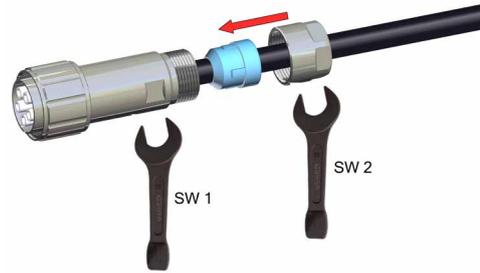
Secure insulation insert (7) with threaded pin (6), then screw joint (4) onto basis (5).

12.



Widen shield braid.

13.



Insert sealing (3) completely and screw cap (2) onto basis (5).

Cable gland type	SW 1	SW 2
KB 207 / 307 / 407	23	26
KB 507	26	26

Tightening torque is 7 Nm

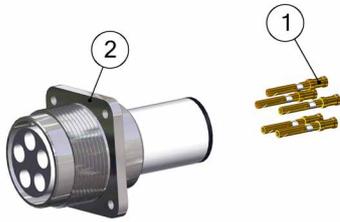
14.



Assembly finished.

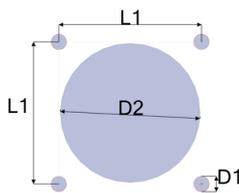
Assembly Instructions Series MC - type 520 receptacle, panel mount

1.



Part as supplied.
Female contacts (1), connector housing (2)

2.



Panel cut out

Type	L1 mm [inch]	D1 mm [inch]	D2 mm [inch]
GB 520	29.30 [1.154"]	3.00 [.118"]	28.70 [1.142"]

3.

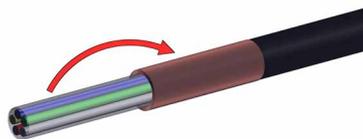


Carefully remove cable jacket.

Type	L2 mm [inch]
GB 520	min. 60 [2.362"]

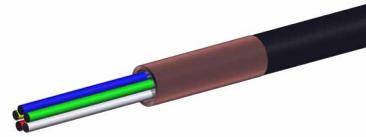
⚠ Do not damage metal shield braid

4.



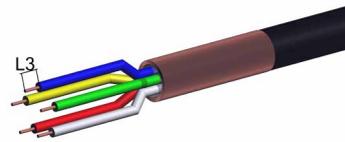
Fold back shield braid.

5.



Remove any filling elements from cable.

6.



Remove dielectric insulation of single wires (L3 = 5-8 mm [.197" - .315"]).

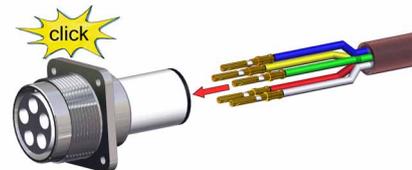
7.



Crimp or solder one male contact (1) each on every conductor.

⚠ For soldering: Tin-solder must not remain on contact surface!

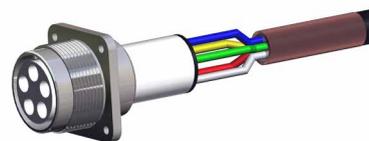
8.



Slide contacts completely into connector shell until contacts snap into place.

🗨 Pull gently to check that contacts are correctly located and remain in position.

9.



Assembly finished.

Assembly Instructions

Series MC - type 520

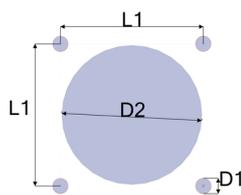
plug, panel mount

1.



Part as supplied.
Shrinking tubes (1), male contacts (2), connector housing (3).

2.



Panel cut out

Type	L1 mm [inch]	D1 mm [inch]	D2 mm [inch]
GS 520	29.30 [1.154"]	3.00 [.118"]	29.00 [1.142"]

3.

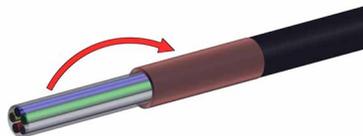


Carefully remove cable jacket.

Type	L2 mm [inch]
GS 520	min. 60 [2.362"]

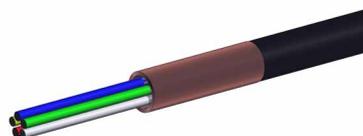
⚠ Do not damage metal shield braid.

4.



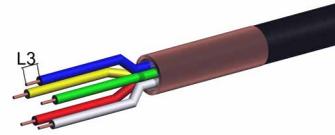
Fold back shield braid.

5.



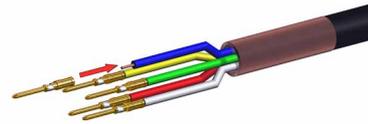
Remove any filling elements from cable.

6.



Remove dielectric insulation of single wires (L3 = 5-8 mm [.197" - .315"]).

7.



Crimp or solder one male contact (1) each on every conductor.

🗨 For soldering: Tin-solder must not remain on contact surface!

8.



Put shrinking tubes on insulation tubes on back of connector housing.

9.



Slide contacts completely into insulation tubes until contacts snap into place.

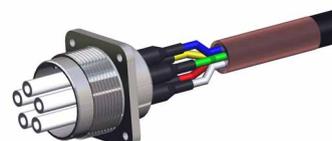
🗨 Pull gently to check that contacts are correctly located and remain in position

10.



Shrink tubes - shrinking temperature 110°C.

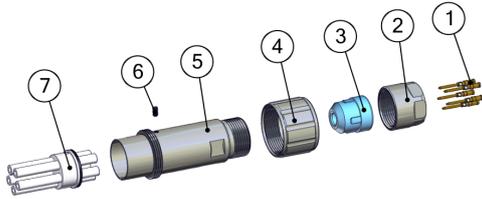
11.



Assembly finished.

Assembly Instructions Series MC - type 520 plug, cable mount

1.



Part as supplied

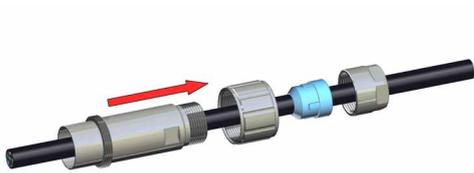
Male contacts (1), cap (2), sealing insert (3), screw joint (4), basis (5), threaded pin (6), insulation insert (7).

5.



Fix shield braid with tape.

2.



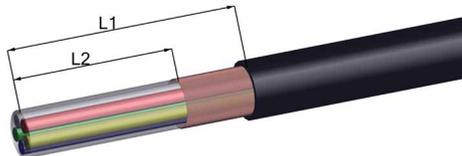
Place cap (2), sealing insert (3), screw joint (4) and basis (5) onto cable.

6.



Remove any filling elements from cable.

3.

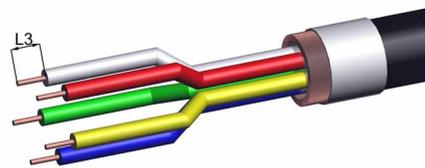


Remove cable jacket.

Type	L1 mm [inch]	L2 mm [inch]
KS 520	60 [2.362"]	45 [1.772"]

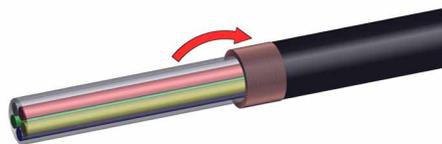
⚠ Do not damage metal shield braid.

7.



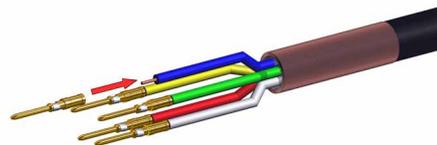
Remove dielectric insulation (L3 = 5-8 mm [.197" - .315"]).

4.



Fold back shield braid over jacket.

8.



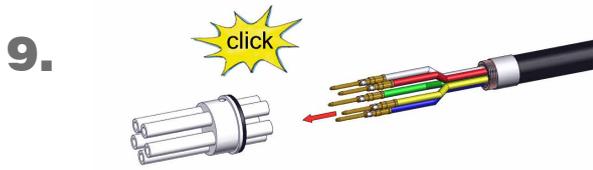
Crimp or solder female contacts (1) on conductor.

⚠ For soldering: Tin-solder must not remain on contact surface.

Assembly Instructions

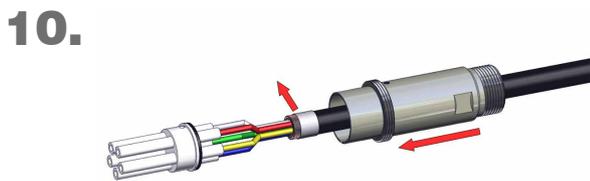
Series MC - type 520

plug, cable mount



Slide male contacts (1) completely into insulation tubes (7) until contacts snap into place.

 Pull gently to check that contacts are correctly located and remain in position.



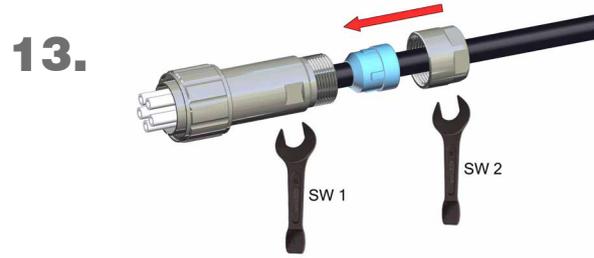
Remove tape and place basis (5) onto insulation insert (7)



Secure insulation insert (7) with threaded pin (6), then screw joint (4) onto basis (5).



Widen shield braid.



Insert sealing (3) completely and screw cap (2) onto basis (5).

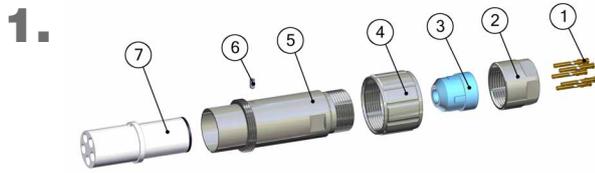
Cable gland type	SW 1	SW 2
KS 520	26	26

Tightening torque is 7 Nm



Assembly finished.

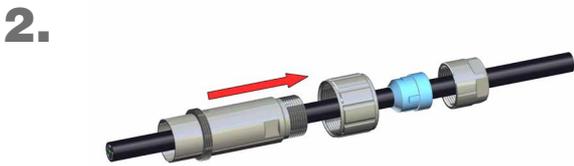
Assembly Instructions Series MC - type 520 receptacle, cable mount & coupling



Part as supplied.
Female contacts (1), cap (2), sealing insert (3), screw joint (4), basis (5), threaded pin (6), insulation insert (7).



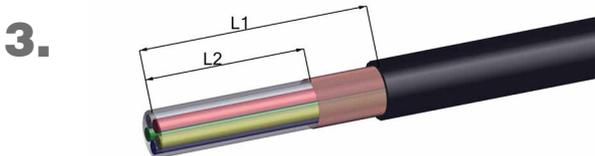
Fix shield braid with tape.



Place cap (2), sealing insert (3), screw joint (4) and basis (5) onto cable



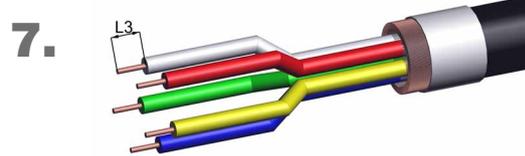
Remove any filling elements from cable.



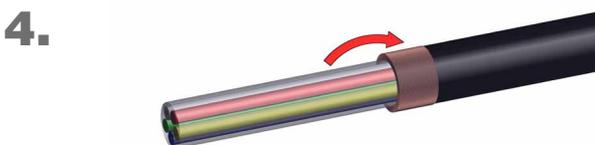
Remove cable jacket.

Type	L1 mm [inch]	L2 mm [inch]
KB 520	50 [1.968"]	35 [1.377"]

⚠ Do not damage metal shield braid



Remove dielectric insulation (L3 = 5-8 mm [.197" - .315"]).



Fold back shield braid over jacket.



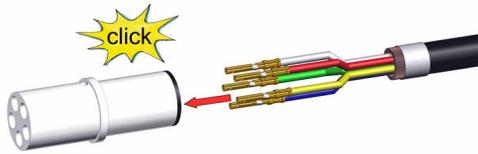
Crimp or solder female contacts (1) on conductor.
⚠ For soldering: Tin-solder must not remain on contact surface.

Assembly Instructions

Series MC - type 520

receptacle, cable mount & coupling

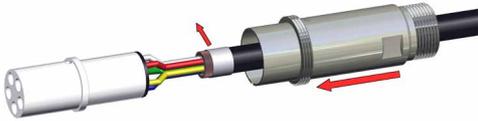
9.



Slide female contacts (1) completely into housing basis (7) until contacts snap into place.

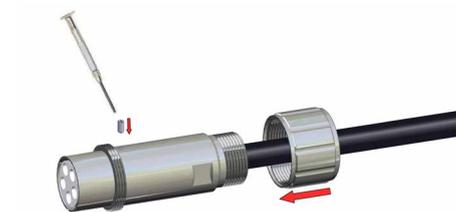
 Pull gently to check that contacts are correctly located and remain in position

10.



Remove tape and place basis (5) onto insulation insert (7)

11.



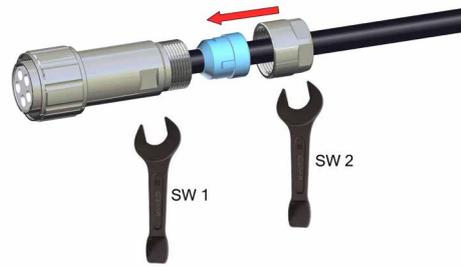
Secure insulation insert (7) with threaded pin (6), then screw joint (4) onto basis (5).

12.



Widen shield braid.

13.



Insert sealing (3) completely and screw cap (2) onto basis (5).

Cable gland type	SW 1	SW 2
KB 520	26	26

Tightening torque is 7 Nm

14.



Assembly finished.

Series



MOD Series
M Series
MC Series
MCS Series
VP Series
200 Series
100 Series
S Series

- › Operating voltages up to 12 kVDC
- › New type for voltages up to 30 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 152/153. 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

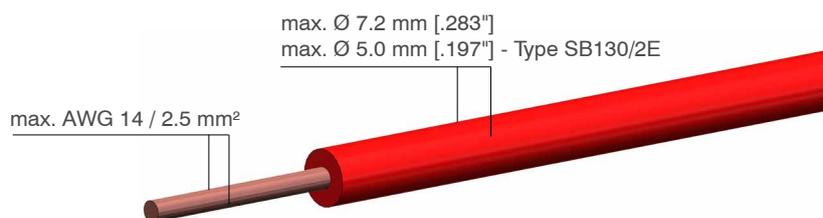
HV-Contact 2.7 mm	
Termination method	solder
Rated current	30 A
Max. operating current	40 A
Pulse current	3000 A
Contact resistance	300 $\mu\Omega$
Contact diameter	2.7 mm [.106"]
Wire size (AWG / cross section)	AWG 14 / 2.5 mm ²
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Insertion / Withdrawal force	5.5 N / 4.0 N
Mating cycles	$\geq 100,000$
Rated temperature	+120°C

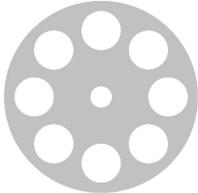
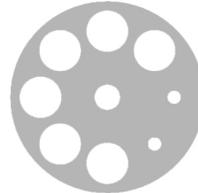
I-Contact (LV) 1.5 mm	
Termination method	löten
Rated current	25 A
Max. operating current	35 A
Pulse current	1500 A
Contact resistance	500 $\mu\Omega$
Contact diameter	1.5 mm [.059"]
Wire size (AWG / cross section)	AWG 16 / 1.5 mm ²
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Insertion / Withdrawal force	2 N / 1.5 N
Mating cycles	$\geq 100,000$
Rated temperature	+120°C

E-Contact (LV) 2.5 mm and HV-Contact 2.5 mm for Type SB130/2E	
E-Contact (LV) 2.5 mm	solder
Rated current	30 A
Max. operating current	40 A
Pulse current	3000 A
Contact resistance	300 $\mu\Omega$
Contact diameter	2.5 mm [.098"]
Wire size (AWG / cross section)	AWG 14 / 2.5 mm ²
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Insertion / Withdrawal force	5.5 N / 4.0 N
Mating cycles	$\geq 100,000$
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			
M2	 <p data-bbox="837 488 922 539">M130/2E Page 131</p>			
M3	 <p data-bbox="608 786 692 837">M215 Page 132</p>  <p data-bbox="831 786 916 837">M215/1E Page 133</p>  <p data-bbox="1054 786 1139 837">M215/2/1E Page 134</p>  <p data-bbox="608 1066 692 1117">M315 Page 135</p>  <p data-bbox="831 1066 916 1117">M315/2E Page 136</p>  <p data-bbox="1054 1066 1139 1117">M315/2/1 Page 137</p>			
M5	 <p data-bbox="676 1384 767 1435">M515 Page 139</p>  <p data-bbox="959 1384 1050 1435">M515/1E Page 140</p>			
M7	 <p data-bbox="549 1684 639 1736">M715 Page 142</p>  <p data-bbox="826 1684 917 1736">M715/1E Page 143</p>  <p data-bbox="1104 1684 1195 1736">M715/1/1/1E Page 144</p>			
M9	 <p data-bbox="464 2022 555 2074">M915 Page 146</p>  <p data-bbox="699 2022 790 2074">M915/1E Page 147</p>  <p data-bbox="938 2022 1029 2074">M915/2/1 Page 148</p>  <p data-bbox="1177 2022 1268 2074">M915/2/1/1E Page 149</p>			

Overview sizes M2/M3

Size M2

P/N	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
7743005	S130/2E POM	•		•			•		1		2
7743010	B130/2E M20 POM 5-10 mm		•			•	•		1		2

Size M3

P/N	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
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

M3

Overview size M3

P/N	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)	30 kV
Test voltage (DC)	45 kV
Rated current	30 A

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



Type / Version / Part number	Picture / Drawing
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<p>Type: receptacle, panel mount female contacts included</p> <p>GB 130/2E/POM Part no. 7743010</p>	<p>front view</p>
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<p>Type: plug, cable mount male contacts included</p> <p>KS 130/2E/M20/POM Part no. 7743006</p>	<p>front view</p>
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drawing - dimensions in mm [inch]

Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

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	Picture / 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>	<p>front view</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>	<p>front view</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>	<p>front view</p>
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<p>Type: receptacle, cable mount, connecting thread M20</p> <p>Version: KB 215/M20/POM Part no. 7743072</p> <p>Version: KB 215/M20/PTFE Part no. 7743079</p> <p><i>(for cable glands see page 152)</i></p>	<p>front view</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>	<p>front view</p>
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<p>Type: plug, cable mount, connecting thread M20</p> <p>Version: KS 215/M20/POM Part no. 7743023</p> <p>Version: KS 215/M20/PTFE Part no. 7743069</p> <p><i>(for cable glands see page 152)</i></p>	<p>connecting thread</p>
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Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

drawing - dimensions in mm [inch]

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	Picture / Drawing
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<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>front view</p>
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<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>front view</p>
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<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>front view</p>
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<p>Type: receptacle, cable mount, connecting thread M20</p> <p>Version: KB 215/1E/M20/POM Part no. 7743076</p> <p>Version: KB 215/1E/M20/PTFE Part no. 7743096</p> <p><i>(for cable glands see page 152)</i></p>	<p>front view</p>
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<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>front view</p>
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<p>Type: plug, cable mount, connecting thread M20</p> <p>Version: KS 215/1E/M20/POM Part no. 7743073</p> <p>Version: KS 215/1E/M20/PTFE Part no. 7743064</p> <p><i>(for cable glands see page 152)</i></p>	<p>connecting thread</p>
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Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

drawing - dimensions in mm [inch]

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	Picture / Drawing	
<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>		<p>front view</p>
<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>		<p>front view</p>
<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>		<p>front view</p>
<p>Type: receptacle, cable mount, connecting thread M20</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><i>(for cable glands see page 152)</i></p>		<p>front view</p>
<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>		<p>front view</p>
<p>Type: plug, cable mount, connecting thread M20</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><i>(for cable glands see page 152)</i></p>		<p>connecting thread</p>

Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

drawing - dimensions in mm [inch]

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	Picture / 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>front view</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>front view</p>
<p>Type: receptacle, cable mount, connecting thread M20</p> <p>Version: KB 315/M20/POM Part no. 7430310</p> <p>Version: KB 315/M20/PTFE Part no. 7430810</p> <p>(for cable glands see page 152)</p>		<p>front view</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>front view</p>
<p>Type: plug, cable mount, connecting thread M20</p> <p>Version: KS 315/M20/POM Part no. 7430410</p> <p>Version: KS 315/M20/PTFE Part no. 7430910</p> <p>(for cable glands see page 152)</p>		<p>connecting thread</p>

Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

drawing - dimensions in mm [inch]

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	Picture / Drawing	
<p>Type: receptacle, panel mount</p> <p>Version: GB 315/2E/POM</p> <p>Part no. 7743060</p>		<p>front view</p>
<p>Type: plug, panel mount</p> <p>Version: GS 315/2E/POM</p> <p>Part no. 7743061</p>		<p>front view</p>
<p>Type: receptacle, cable mount, connecting thread M20</p> <p>Version: KB 315/2E/M20/POM</p> <p>Part no. 7743033</p> <p>(for cable glands see page 152)</p>		<p>front view</p>
<p>Type: plug, cable mount, with symmetric cable gland</p> <p>Version: KS 315/2E/POM/Sym KV</p> <p>Part no. 7743034</p>		<p>front view</p>
<p>Type: plug, cable mount, connecting thread M20</p> <p>Version: KS 315/2E/M20 /POM</p> <p>Part no. 7743102</p> <p>(for cable glands see page 152)</p>		<p>connecting thread</p>

drawing - dimensions in mm [inch]

Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

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	Picture / Drawing	
<p>Type: receptacle, panel mount</p> <p>Version: GB 315/2I/POM</p> <p>Part no. 7743036</p>		<p>front view</p>
<p>Type: plug, panel mount</p> <p>Version: GS 315/2I/POM</p> <p>Part no. 7743043</p>		<p>front view</p>
<p>Type: receptacle, cable mount, connecting thread M20</p> <p>Version: KB 315/2I/M20/POM</p> <p>Part no. 7743042</p> <p>(for cable glands see page 152)</p>		<p>front view</p>
<p>Type: plug, cable mount, with symmetric cable gland</p> <p>Version: KS 315/2I/POM/Sym KV</p> <p>Part no. 7743035</p>		<p>Frontansicht</p>
<p>Type: plug, cable mount, connecting thread M20</p> <p>Version: KS 315/2I/M20 /POM</p> <p>Part no. 7743103</p> <p>(for cable glands see page 152)</p>		<p>connecting thread</p>

Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

drawing - dimensions in mm [inch]

M5

Overview size M5

P/N	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 **Picture / Drawing**

Type: receptacle, panel mount
Version: GB 515/POM
 Part no. 7450100
Version: GB 515/PTFE
 Part no. 7450600

front view

Type: plug, panel mount
Version: GS 515/POM
 Part no. 7450200
Version: GS 515/PTFE
 Part no. 7450700

front view

Type: receptacle, cable mount, connecting thread M25
Version: KB 515/M25/POM
 Part no. 7450312
Version: KB 515/M32/POM
 Part no. 7450313
Version: KB 515/M25/PTFE
 Part no. 7450821
Version: KB 515/M32/PTFE
 Part no. 7450819
(for cable glands see page 152)

front view

Type: plug, cable mount, with symmetric cable gland
Version: KS 515/POM/Sym KV
 Part no. 7450400
Version: KS 515/PTFE/Sym KV
 Part no. 7450900

front view

Type: plug, cable mount, connecting thread M25
Version: KS 515/M25/POM
 Part no. 7450419
Version: KS 515/M32/POM
 Part no. 7450414
Version: KS 515/M25/PTFE
 Part no. 7450914
Version: KS 515/M32/PTFE
 Part no. 7450916
(for cable glands see page 152)

connecting thread

Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

drawing - dimensions in mm [inch]

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	Picture / Drawing	
<p>Type: receptacle, panel mount</p> <p>Version: GB 515/1E/PTFE</p> <p>Part no. 7745011</p>		<p>front view</p>
<p>Type: plug, panel mount</p> <p>Version: GS 515/1E/PTFE interlock</p> <p>Part no. 7745010</p>		<p>front view</p>
<p>Type: receptacle, cable mount, connecting thread M25</p> <p>Version: KB 515/1E/M25/PTFE Part no. 7745027</p> <p>Version: KB 515/1E/M32/PTFE Part no. 7745028</p> <p>(for cable glands see page 152)</p>		<p>front view</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>front view</p>
<p>Type: plug, cable mount, connecting thread M25</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>(for cable glands see page 152)</p>		<p>connecting thread</p>

drawing - dimensions in mm [inch]

Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

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



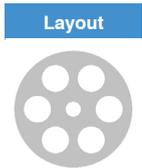
Type / Version / Part number	Picture / Drawing	
<p>Type: receptacle, panel mount</p> <p>Version: GB 715/PTFE</p> <p>Part no. 7470600</p>		<p>front view</p>
<p>Type: plug, panel mount</p> <p>Version: GS 715/PTFE</p> <p>Part no. 7470200</p>		<p>front view</p>
<p>Type: receptacle, cable mount, connecting thread M25</p> <p>Version: KB 715/M25/PTFE</p> <p>Part no. 7470812</p> <p>(for cable glands see page 152)</p>		<p>front view</p>
<p>Type: plug, cable mount, with symmetric cable gland</p> <p>Version: KS 715/PTFE/Sym KV</p> <p>Part no. 7470411</p>		<p>front view</p>
<p>Type: plug, cable mount, connecting thread M25</p> <p>Version: KS 715/M25/PTFE</p> <p>Part no. 7470414</p> <p>(for cable glands see page 152)</p>		<p>connecting thread</p>

drawing - dimensions in mm [inch]

Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

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 Picture / Drawing

Type: receptacle, panel mount
Version: GB 715/1E/PTFE
Part no. 7747011

front view

Type: plug, panel mount
Version: GS 715/1E/PTFE
Part no. 7470701

front view

Type: receptacle, cable mount, connecting thread M25
Version: KB 715/1E/M25/PTFE
Part no. 7747022
(for cable glands see page 152)

front view

Type: plug, cable mount, with symmetric cable gland
Version: KS 715/1E/PTFE/Sym KV
Part no. 7470417

front view

Type: plug, cable mount, connecting thread M25
Version: KS 715/1E/M25/PTFE
Part no. 7470416
(for cable glands see page 152)

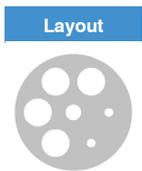
connecting thread

Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

drawing - dimensions in mm [inch]

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	Picture / Drawing	
<p>Type: receptacle, panel mount</p> <p>Version: GB 715/2I/1E/PTFE</p> <p>Part no. 7470707</p>		<p>front view</p>
<p>Type: plug, panel mount</p> <p>Version: GS 715/2I/1E/PTFE</p> <p>Part no. 7470702</p>		<p>front view</p>
<p>Type: receptacle, cable mount, connecting thread M25</p> <p>Version: KB 715/2I/1E/M25/PTFE</p> <p>Part no. 7470705</p> <p>(for cable glands see page 152)</p>		<p>front view</p>
<p>Type: plug, cable mount, with symmetric cable gland</p> <p>Version: KS 715/2I/1E/PTFE/Sym KV</p> <p>Part no. 7470706</p>		<p>front view</p>
<p>Type: plug, cable mount, connecting thread M25</p> <p>Version: KS 715/2I/1E/M25/PTFE</p> <p>Part no. 7470704</p> <p>(for cable glands see page 152)</p>		<p>connecting thread</p>

drawing - dimensions in mm [inch]

Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

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	Picture / Drawing	
<p>Type: receptacle, panel mount</p> <p>Version: GB 915/PTFE</p> <p>Part no. 7490600</p>		<p>front view</p>
<p>Type: plug, panel mount</p> <p>Version: GS 915/PTFE</p> <p>Part no. 7490200</p>		<p>front view</p>
<p>Type: receptacle, cable mount, connecting thread M32</p> <p>Version: KB 915/M32/PTFE</p> <p>Part no. 7490811</p> <p>(for cable glands see page 152)</p>		<p>front view</p>
<p>Type: plug, cable mount, with symmetric cable gland</p> <p>Version: KS 915/PTFE/Sym KV</p> <p>Part no. 7490400</p>		<p>front view</p>
<p>Type: plug, cable mount, connecting thread M32</p> <p>Version: KS 915/M32/PTFE</p> <p>Part no. 7490416</p> <p>(for cable glands see page 148) 152</p>		<p>connecting thread</p>

drawing - dimensions in mm [inch]

Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

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	Picture / Drawing
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<p>Type: receptacle, panel mount</p> <p>Version: GB 915/1E/PTFE</p> <p>Part no. 7749011</p>	<p>front view</p>
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<p>Type: plug, panel mount</p> <p>Version: GS 915/1E/PTFE interlock</p> <p>Part no. 7749010</p>	<p>front view</p>
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<p>Type: receptacle, cable mount, connecting thread M32</p> <p>Version: KB 915/1E/M32/PTFE</p> <p>Part no. 7749023</p> <p><i>(for cable glands see page 152)</i></p>	<p>front view</p>
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<p>Type: plug, cable mount, with symmetric cable gland</p> <p>Version: KS 915/1E/PTFE/Sym KV</p> <p>Part no. 7490417</p>	<p>front view</p>
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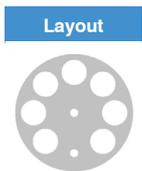
<p>Type: plug, cable mount, connecting thread M32</p> <p>Version: KS 915/1E/M32/PTFE</p> <p>Part no. 7490415</p> <p><i>(for cable glands see page 152)</i></p>	<p>connecting thread</p>
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Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

drawing - dimensions in mm [inch]

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



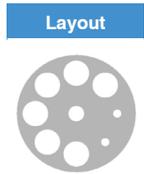
Type / Version / Part number	Picture / Drawing	
Type: receptacle, panel mount Version: GB 915/2I/PTFE Part no. 7749088		<p>front view</p>
Type: plug, panel mount Version: GS 915/2I/PTFE Part no. 7749082		<p>front view</p>
Type: receptacle, cable mount, connecting thread M32 Version: KB 915/2I/M32/PTFE Part no. 7749057 <i>(for cable glands see page 152)</i>		<p>front view</p>
Type: plug, cable mount, with symmetric cable gland Version: KS 915/2I/PTFE/Sym KV Part no. 7749053		<p>front view</p>
Type: plug, cable mount, connecting thread M32 Version: KS 915/2I/M32/PTFE Part no. 7749058 <i>(for cable glands see page 152)</i>		<p>connecting thread</p>

drawing - dimensions in mm [inch]

Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

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 Picture / Drawing

Type: receptacle, panel mount
Version: GB 915/2I/1E/PTFE
Part no. 7749070

Type: plug, panel mount
Version: GS 915/2I/1E/PTFE
Part no. 7749080

Type: receptacle, cable mount, connecting thread M32
Version: KB 915/2I/1E/M32/PTFE
Part no. 7749059
(for cable glands see page 152)

Type: plug, cable mount, with symmetric cable gland
Version: KS 915/2I/1E/PTFE/Sym KV
Part no. 7749087

Type: plug, cable mount, connecting thread M32
Version: KS 915/2I/1E/M32/PTFE
Part no. 7749090
(for cable glands see page 152)

Contacts, cable glands and accessories: pages 150-153
Mounting instructions: pages 154-159

drawing - dimensions in mm [inch]

Contacts

Part no.	Description	Drawing	Picture
6574015	LV male contact 3/5 (E) 2.5 mm nickel plated for connector size M3 / M5 / M7 / M9		
6572005	LV female contact 3/5 (E) 2.5 mm nickel plated for connector size M3 / M5 / M7 / M9		
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 interlock 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 [inch]

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 [inch]

Single parts / 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	
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	
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	
1674078	screwed cable gland M32 x 1.5, 18-25 mm	18-25	

drawing - dimensions in mm [inch]

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

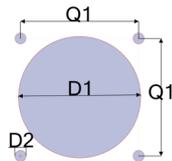
Assembly Instructions Series M (receptacle, panel mount)

1.



Part as supplied.

2.



Panel cut out

Connector size	Q1 mm [inch]	D1 mm [inch]	D2 mm [inch]
M3	34.90 [1.374"]	35.90 [1.413"]	3.75 [.148"]
M5	39.65 [1.561"]	42.20 [1.661"]	3.75 [.148"]
M7	44.45 [1.750"]	49.30 [1.941"]	4.40 [.173"]
M9	49.25 [1.939"]	54.90 [2.161"]	4.40 [.173"]

3.



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

4.



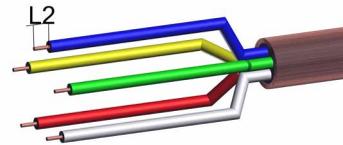
Fold back shield braid.

5.



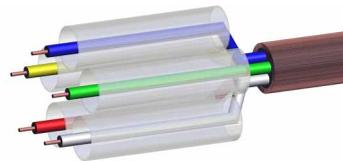
Remove any filling elements from cable.

6.



Remove dielectric insulation of single wires
(L2 = 5 mm [.197"]).
⚠ Do not damage conductors

7.



Slide one shrinking tube on each single wire.

8.



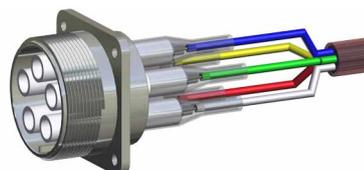
Solder one conductor on each female contact.

9.



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

10.



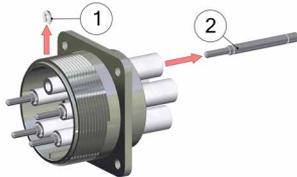
Assembly finished.

1.



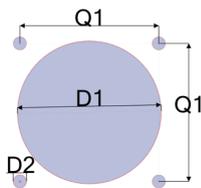
Part as supplied.

2.



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

3.



Panel cut out

Connector size	Q1 mm [inch]	D1 mm [inch]	D2 mm [inch]
M3	34.90 [1.374"]	35.90 [1.413"]	3.75 [.148"]
M5	39.65 [1.561"]	42.20 [1.661"]	3.75 [.148"]
M7	44.45 [1.750"]	49.30 [1.941"]	4.40 [.173"]
M9	49.25 [1.939"]	54.90 [2.161"]	4.40 [.173"]

4.



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

5.



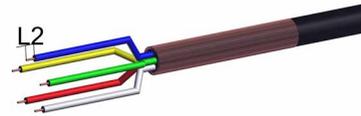
Fold back shield braid.

6.



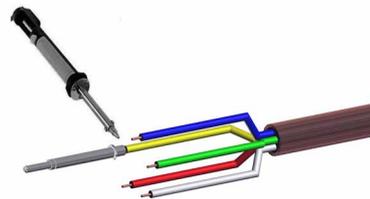
Remove any filling elements from cable.

7.



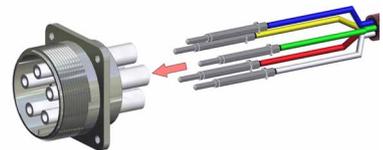
Remove dielectric insulation of single wires (L2 = 5 mm [.197"]).
⚠ Do not damage conductors.

8.



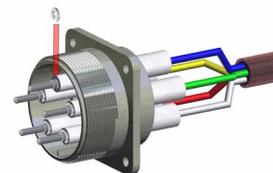
Solder one male contact (2) on each conductor.

9.



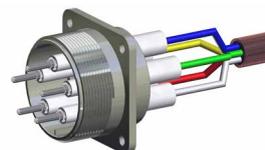
Slide single wires completely into insulation tubes.

10.



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

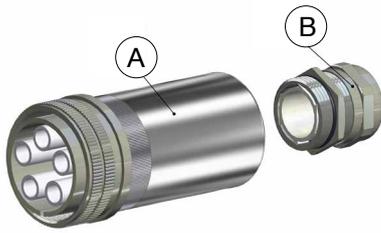
11.



Assembly finished.

Assembly Instructions Series M (receptacle, cable mount)

1.



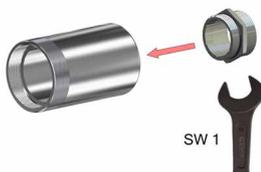
Part as supplied.
Connector housing (A)
Optional: Screwed cable gland (B)

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)

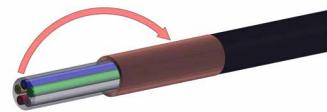
5.



Remove cable jacket.
⚠ Do not damage shield braid.

Connector size	L1 mm [inch]
M3 / M5 / M7	45 [1.772"]
M9	60 [2.362"]

6.



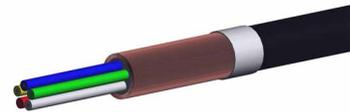
Fold back shield braid over jacket.

7.



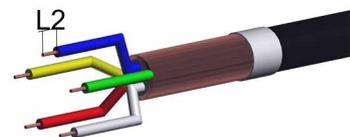
Fix shield braid with tape.

8.



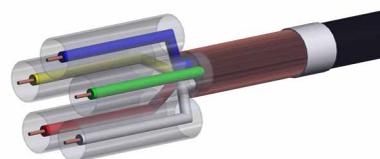
Remove any filling elements from cable.

9.



Remove dielectric insulation (L2 = min. 5 mm [.197"]).

10.



Place shrinking tubes on single wires.

11.



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

16.



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

12.



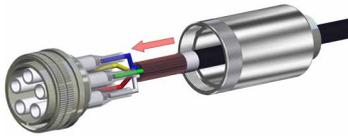
Place shrinking tubes on insulators. Tubes shall cover both insulators and wires. Then shrink tubes. Shrinking temperature 100°C.

17.



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

13.



Screw adapter (4) to housing basis (6).

18.



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

14.



Remove tape.

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

15.



Completely widen shield braid.

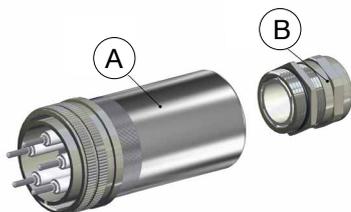
19.



Assembly finished.

Assembly Instructions Series M (plug, cable mount)

1.



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

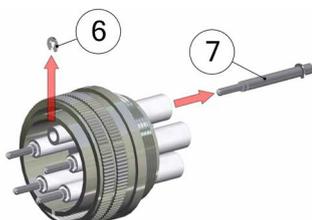
2.



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).

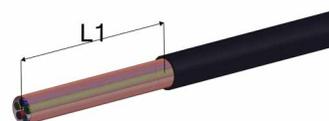
Screwed cable gland size	Wrench size (SW 1)	Tightening torque [Nm]
M16	20	5
M20	24	8
M25	30	12
M32	40	20

5.



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

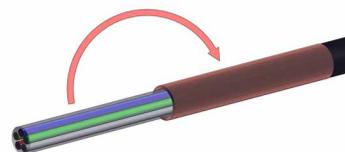
6.



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

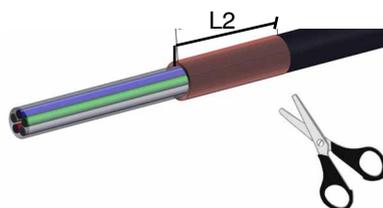
Connector size	L1 [mm]
M3 / M5 / M7	70 [2.756"]
M9	85 [3.346"]

7.



Fold back shield braid over jacket.

8.



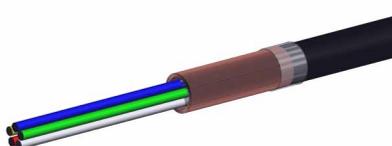
Shorten shield braid to length L2 = 40 mm.

9.



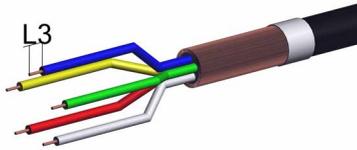
Fix shield braid with tape.

10.



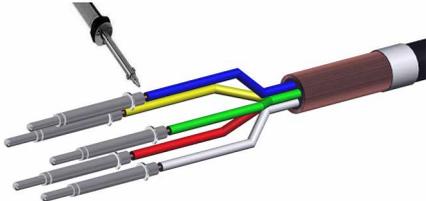
Remove any filling elements from cable.

11.



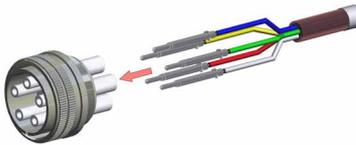
Remove dielectric insulation (L3 = min. 5 mm [.197"]).

12.



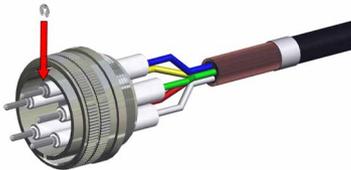
Solder male contacts (7) on conductor.
 ⚠ Tin-solder must not remain on contact surface.

13.



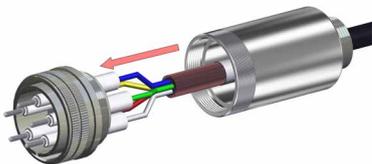
Slide contacts (7) completely into insulation tubes (5).

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.





- Operating voltage up to 12 kVDC
- Operating current up to 25 A / 30 A
- Up to 14 high voltage contacts
- Robust industrial connector shells with lever locking system
- Combinable with modules for low voltage, signal transmission and pneumatic
- Protection class IP65 (mated connector)

General characteristics and technical data type MOD-HP

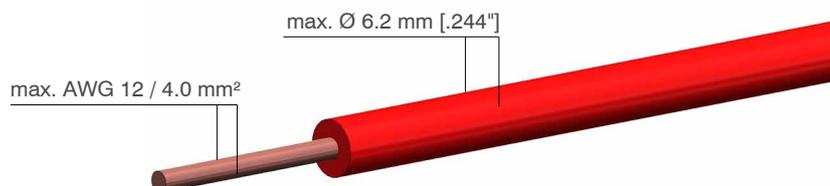
Housings	
Number of module slots	2, 3, 5, 7
Locking system	lever locking
Mounting type (panel mount connector)	4-hole-flange
Housing material	aluminium alloy
Surface plating	epoxy powder coating
Protection class (mated connector)	IP65 acc. DIN EN 60529
Operating temperature	-30°C to +80°C

Contacts type MOD-HP	
Termination method	crimp / solder
Rated current (at +23°C)	25 A
Contact resistance	≤ 2 mΩ
Contact diameter	2.5 mm
Wire size (AWG / cross section)	AWG 20-12 (0.5 - 4.0 mm ²)
Contact material	copper alloy
Contact plating	silver (Ag)
Mating cycles	≥ 500

Contacts not included. Choose contacts from page 190.

Module type MOD-HP	
Number of pins	2
Material	PA 6.6 GF
Flammability class	UL94 V-0
Operating temperature	-40°C to +125°C
CTI-Value	600
Insulating material group	I (DIN IEC 60664)
Max. diameter of dielectric cable insulation (single wire)	6.2 mm

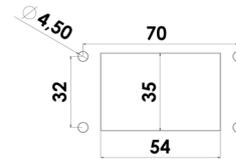
Suitable cable dimensions (single wire)



Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV

Characteristics	
Number of pins	2
Insulation material	PA 6.6 GF

Panel cut out



Suitable contacts on page 190

Type / Version / Part number **Picture / Drawing**

<p>Receptacle, panel mount GBR 1HP/2M Part no. 9021300</p>		
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<p>Plug, panel mount GSR 1HP/2M Part no. 9021350</p>		
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<p>Plug, cable mount, cable entry top M25 KSR 1HP/AO/2M Part no. 9021010</p>		
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<p>Plug, cable mount, cable entry side 90° M25 KSR 1HP/AS/2M Part no. 9021200</p>		
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<p>Receptacle, cable mount, cable entry top M25 KBR 1HP/AO/2M Part no. 9021150</p>		
--	--	--

<p>Receptacle, cable mount, cable entry side 90° M25 KBR 1HP/AS/2M Part no. 9021250</p>		
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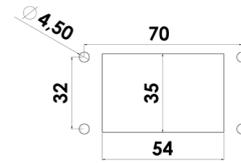
Contacts: pages 190-195
Cable glands and tools: page 199

drawing - dimensions in mm [inch]

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV

Characteristics	
Number of pins	4
Insulation material	PA 6.6 GF

Panel cut out



Suitable contacts on page 190

Type / Version / Part number	Picture / Drawing
Receptacle, panel mount GBR 2HP/2M Part no. 9022300	
Plug, panel mount GSR 2HP/2M Part no. 9022350	
Plug, cable mount, cable entry top M25 KSR 2HP/AO/2M Part no. 9022100	
Plug, cable mount, cable entry side 90° M25 KSR 2HP/AS/2M Part no. 9022200	
Receptacle, cable mount, cable entry top M25 KBR 2HP/AO/2M Part no. 9022150	
Receptacle, cable mount, cable entry side 90° M25 KBR 2HP/AS/2M Part no. 9022250	

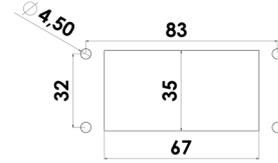
drawing - dimensions in mm [inch]

Contacts: pages 190-195
Cable glands and tools: page 199

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV

Characteristics	
Number of pins	6
Insulation material	PA 6.6 GF

Panel cut out



Suitable contacts on page 190

Type / Version / Part number **Picture / Drawing**

<p>Receptacle, panel mount GBR 3HP/3M Part no. 9033300</p>		
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<p>Plug, panel mount GSR 3HP/3M Part no. 9033350</p>		
--	--	--

<p>Plug, cable mount, Cable entry top M32 KSR 3HP/AO/3M Part no. 9033100</p>		
--	--	--

<p>Plug, cable mount, cable entry side 90° M32 KSR 3HP/AS/3M Part no. 9033200</p>		
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<p>Receptacle, cable mount, cable entry top M32 KBR 3HP/AO/3M Part no. 9033150</p>		
--	--	--

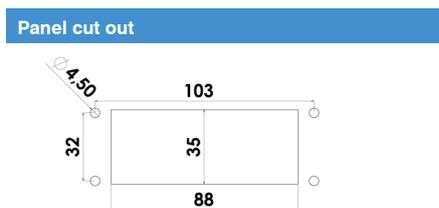
<p>Receptacle, cable mount, cable entry side 90° M32 KBR 3HP/AS/3M Part no. 9033250</p>		
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Contacts: pages 190-195
Cable glands and tools: page 199

drawing - dimensions in mm [inch]

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV

Characteristics	
Number of pins	8
Insulation material	PA 6.6 GF



Suitable contacts on page 190

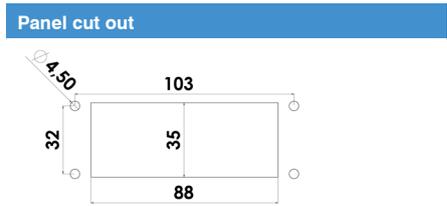
Type / Version / Part number	Picture / Drawing
Receptacle, panel mount GBR 4HP/5M Part no. 9054300	
Plug, panel mount GSR 4HP/5M Part no. 9054350	
Plug, cable mount, cable entry top M40 KSR 4HP/AO/5M Part no. 9054100	
Plug, cable mount, cable entry side 90° M40 KSR 4HP/AS/5M Part no. 9054200	
Receptacle, cable mount, cable entry top M40 KBR 4HP/AO/5M Part no. 9054150	
Receptacle, cable mount, cable entry side 90° M40 KBR 4HP/AS/5M Part no. 9054250	

drawing - dimensions in mm [inch]

Contacts: pages 190-195
Cable glands and tools: page 199

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV

Characteristics	
Number of pins	10
Insulation material	PA 6.6 GF



Suitable contacts on page 190

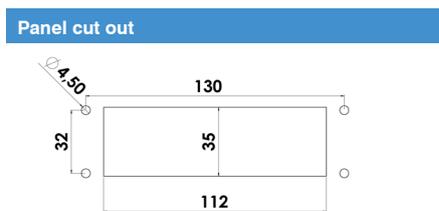
Type / Version / Part number	Picture / Drawing
Receptacle, panel mount GBR 5HP/5M Part no. 9055300	
Plug, panel mount GSR 5HP/5M Part no. 9055350	
Plug, cable mount, cable entry top M40 KSR 5HP/AO/5M Part no. 9055100	
Plug, cable mount, cable entry side 90° M40 KSR 5HP/AS/5M Part no. 9055200	
Receptacle, cable mount, cable entry top M40 KBR 5HP/AO/5M Part no. 9055150	
Receptacle, cable mount, cable entry side 90° M40 KBR 5HP/AS/5M Part no. 9055250	

Contacts: pages 190-195
Cable glands and tools: page 199

drawing - dimensions in mm [inch]

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV

Characteristics	
Number of pins	12
Insulation material	PA 6.6 GF



Suitable contacts on page 190

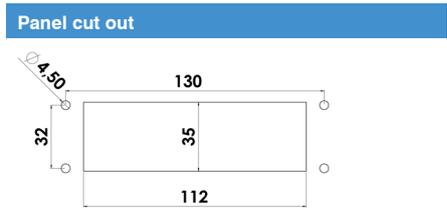
Type / Version / Part number	Picture / Drawing	
Receptacle, panel mount GBR 6HP/7M Part no. 9076300		
Plug, panel mount GSR 6HP/7M Part no. 9076350		
Plug, cable mount, cable entry top M40 KSR 6HP/AO/7M Part no. 9076100		
Plug, cable mount, cable entry side 90° M40 KSR 6HP/AS/7M Part no. 9076200		
Receptacle, cable mount, cable entry top M40 KBR 6HP/AO/7M Part no. 9076150		
Receptacle, cable mount, cable entry side 90° M40 KBR 6HP/AS/7M Part no. 9076250		

drawing - dimensions in mm [inch]

Contacts: pages 190-195
Cable glands and tools: page 199

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV

Characteristics	
Number of pins	14
Insulation material	PA 6.6 GF



Suitable contacts on page 190

Type / Version / Part number **Picture / Drawing**

<p>Receptacle, panel mount GBR 7HP/7M Part no. 9077300</p>		
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<p>Plug, panel mount GSR 7HP/7M Part no. 9077350</p>		
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<p>Plug, cable mount, cable entry top M40 KSR 7HP/AO/7M Part no. 9077100</p>		
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<p>Plug, cable mount, cable entry side 90° M40 KSR 7HP/AS/7M Part no. 9077200</p>		
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<p>Receptacle, cable mount, cable entry top M40 KBR 7HP/AO/7M Part no. 9077150</p>		
--	--	--

<p>Receptacle, cable mount, cable entry side 90° M40 KBR 7HP/AS/7M Part no. 9077250</p>		
---	--	--

Contacts: pages 190-195
Cable glands and tools: page 199

drawing - dimensions in mm [inch]

Part no.	Description	HV contacts	Plug	Receptacle	Cable mount	Connecting thread	Panel mount	Page
9021300	GBR 1HP/2M	2		•			•	149
9021350	GSR 1HP/2M	2	•				•	149
9021010	KSR 1HP/AO/2M	2	•		•	M25		149
9021200	KSR 1HP/AS/2M	2	•		•	M25		149
9021150	KBR 1HP/AO/2M	2		•	•	M25		149
9021250	KBR 1HP/AS/2M	2		•	•	M25		149
9022300	GBR 2HP/2M	4		•			•	150
9022350	GSR 2HP/2M	4	•				•	150
9022100	KSR 2HP/AO/2M	4	•		•	M25		150
9022200	KSR 2HP/AS/2M	4	•		•	M25		150
9022150	KBR 2HP/AO/2M	4		•	•	M25		150
9022250	KBR 2HP/AS/2M	4		•	•	M25		150
9033300	GBR 3HP/3M	6		•			•	151
9033350	GSR 3HP/3M	6	•				•	151
9033100	KSR 3HP/AO/3M	6	•		•	M32		151
9033200	KSR 3HP/AS/3M	6	•		•	M32		151
9033150	KBR 3HP/AO/3M	6		•	•	M32		151
9033250	KBR 3HP/AS/3M	6		•	•	M32		151
9054300	GBR 4HP/5M	8		•			•	152
9054350	GSR 4HP/5M	8	•				•	152
9054100	KSR 4HP/AO/5M	8	•		•	M40		152
9054200	KSR 4HP/AS/5M	8	•		•	M40		152
9054150	KBR 4HP/AO/5M	8		•	•	M40		152
9054250	KBR 4HP/AS/5M	8		•	•	M40		152
9055300	GBR 5HP/5M	10		•			•	153
9055350	GSR 5HP/5M	10	•				•	153
9055100	KSR 5HP/AO/5M	10	•		•	M40		153
9055200	KSR 5HP/AS/5M	10	•		•	M40		153
9055150	KBR 5HP/AO/5M	10		•	•	M40		153
9055250	KBR 5HP/AS/5M	10		•	•	M40		153
9076300	GBR 6HP/7M	12		•			•	154
9076350	GSR 6HP/7M	12	•				•	154
9076100	KSR 6HP/AO/7M	12	•		•	M40		154
9076200	KSR 6HP/AS/7M	12	•		•	M40		154
9076150	KBR 6HP/AO/7M	12		•	•	M40		154
9076250	KBR 6HP/AS/7M	12		•	•	M40		154
9077300	GBR 7HP/7M	14		•			•	155
9077350	GSR 7HP/7M	14	•				•	155
9077100	KSR 7HP/AO/7M	14	•		•	M40		155
9077200	KSR 7HP/AS/7M	14	•		•	M40		155
9077150	KBR 7HP/AO/7M	14		•	•	M40		155
9077250	KBR 7HP/AS/7M	14		•	•	M40		155

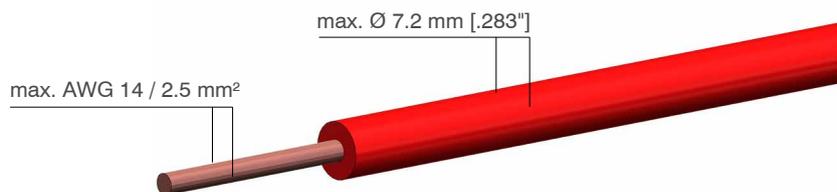
Housings	
Number of module slots	2, 3, 5, 7
Locking system	lever locking
Mounting type (panel mount connector)	4-hole-flange
Housing material	aluminium alloy
Surface plating	epoxy powder coating
Protection class (in mated condition)	IP65 acc. DIN EN 60529
Operating temperature	-30°C to +80°C

Contacts type MOD-T	
Termination method	solder
Rated current (at +23°C)	30 A
Contact resistance	300μΩ
Contact diameter	2.7 mm
Wire size (AWG / cross section)	AWG 14 / 2.5 mm ²
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Mating cycles	≥ 100000

Contacts included

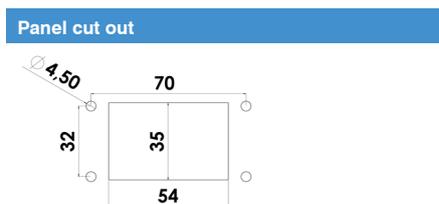
Module type MOD-T	
Number of pins	2
Module material	PA 6.6 GF
Insulation material	PTFE
Flammability class	UL94 V-0
Operating temperature modules	-40°C to +125°C
Operating temperature insulation parts	-50°C to +260°C
CTI-Value	600
Insulating material group	I (DIN IEC 60664)
Max. diameter of dielectric cable insulation (single wire)	7.2 mm

Suitable cable dimensions (single wire)



Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV

Characteristics	
Number of pins	2
Insulation material	PTFE



Contacts included.

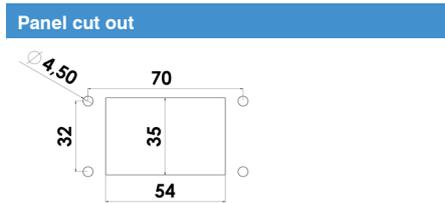
Type / Version / Part number	Picture / Drawing
Receptacle, panel mount GBR 1T2/2M Part no. 9021305	
Plug, panel mount GSR 1T2/2M Part no. 9021355	
Plug, cable mount, cable entry top M25 KSR 1T2/AO/2M Part no. 9021015	
Plug, cable mount, cable entry side 90° M25 KSR 1T2/AS/2M Part no. 9021205	
Receptacle, cable mount, cable entry top M25 KBR 1T2/AO/2M Part no. 9021155	
Receptacle, cable mount, cable entry side 90° M25 KBR 1T2/AS/2M Part no. 9021255	

drawing - dimensions in mm [inch]

Cable glands and tools: page 199

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV

Characteristics	
Number of pins	4
Insulation material	PTFE



Contacts included.

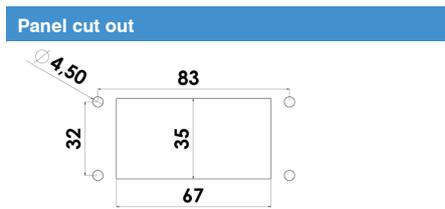
Type / Version / Part number	Picture / Drawing
Receptacle, panel mount GBR 2T2/2M Part no. 9022305	
Plug, panel mount GSR 2T2/2M Part no. 9022355	
Plug, cable mount, cable entry top M25 KSR 2T2/AO/2M Part no. 9022105	
Plug, cable mount, cable entry side 90° M25 KSR 2T2/AS/2M Part no. 9022205	
Receptacle, cable mount, cable entry top M25 KBR 2T2/AO/2M Part no. 9022155	
Receptacle, cable mount, cable entry side 90° M25 KBR 2T2/AS/2M Part no. 9022255	

drawing - dimensions in mm [inch]

Cable glands and tools: page 199

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV

Characteristics	
Number of pins	6
Insulation material	PTFE



Contacts included.

Type / Version / Part number	Picture / Drawing	
Receptacle, panel mount GBR 3T2/3M Part no. 9033305		
Plug, panel mount GSR 3T2/3M Part no. 9033355		
Plug, cable mount, cable entry top M32 KSR 3T2/AO/3M Part no. 9033105		
Plug, cable mount, cable entry side 90° M32 KSR 3T2/AS/3M Part no. 9033205		
Receptacle, cable mount, cable entry top M32 KBR 3T2/AO/3M Part no. 9033155		
Receptacle, cable mount, cable entry side 90° M32 KBR 3T2/AS/3M Part no. 9033255		

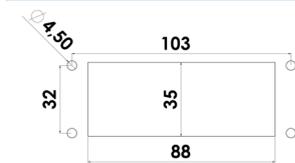
drawing - dimensions in mm [inch]

Cable glands and tools: page 199

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV

Characteristics	
Number of pins	8
Insulation material	PTFE

Panel cut out



Contacts included.

Type / Version / Part number **Picture / Drawing**

<p>Receptacle, panel mount GBR 4T2/5M Part no. 9054305</p>		
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<p>Plug, panel mount GSR 4T2/5M Part no. 9054355</p>		
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<p>Plug, cable mount, cable entry top M40 KSR 4T2/AO/5M Part no. 9054105</p>		
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<p>Plug, cable mount, cable entry side 90° M40 KSR 4T2/AS/5M Part no. 9054205</p>		
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<p>Receptacle, cable mount, cable entry top M40 KBR 4T2/AO/5M Part no. 9054155</p>		
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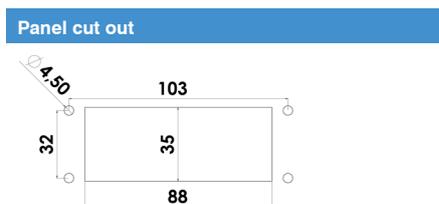
<p>Receptacle, cable mount, cable entry side 90° M32 KBR 4T2/AS/5M Part no. 9054255</p>		
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drawing - dimensions in mm [inch]

Cable glands and tools: page 199

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV

Characteristics	
Number of pins	10
Insulation material	PTFE



Contacts included.

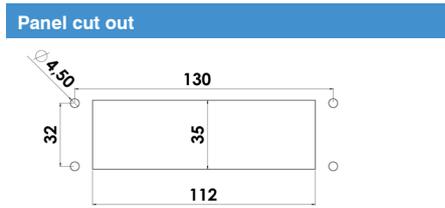
Type / Version / Part number	Picture / Drawing
Receptacle, panel mount GBR 5T2/5M Part no. 9055305	
Plug, panel mount GSR 5T2/5M Part no. 9055355	
Plug, cable mount, cable entry top M40 KSR 5T2/AO/5M Part no. 9055105	
Plug, cable mount, cable entry side 90° M40 KSR 5T2/AS/5M Part no. 9055205	
Receptacle, cable mount, cable entry top M40 KBR 5T2/AO/5M Part no. 9055155	
Receptacle, cable mount, cable entry side 90° M40 KBR 5T2/AS/5M Part no. 9055255	

drawing - dimensions in mm [inch]

Cable glands and tools: page 199

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV

Characteristics	
Number of pins	12
Insulation material	PTFE



Contacts included.

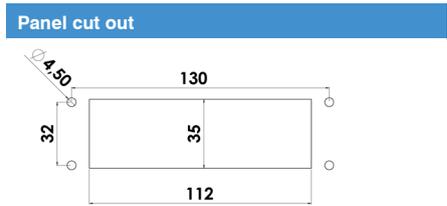
Type / Version / Part number	Picture / Drawing	
Receptacle, panel mount GBR 6T2/7M Part no. 9076305		
Plug, panel mount GSR 6T2/7M Part no. 9076355		
Plug, cable mount, cable entry top M40 KSR 6T2/AO/7M Part no. 9076105		
Plug, cable mount, cable entry side 90° M40 KSR 6T2/AS/7M Part no. 9076215		
Receptacle, cable mount, cable entry top M40 KBR 6T2/AO/7M Part no. 9076155		
Receptacle, cable mount, cable entry side 90° M40 KBR 6T2/AS/7M Part no. 9076255		

drawing - dimensions in mm [inch]

Cable glands and tools: page 199

Electrical values	
Operating voltage (DC)	12 kV
Test voltage (DC)	18 kV

Characteristics	
Number of pins	14
Insulation material	PTFE



Contacts included.

Type / Version / Part number	Picture / Drawing
Receptacle, panel mount GBR 7T2/7M Part no. 9077305	
Plug, panel mount GSR 7T2/7M Part no. 9077355	
Plug, cable mount, cable entry top M40 KSR 7T2/AO/7M Part no. 9077105	
Plug, cable mount, cable entry side 90° M40 KSR 7T2/AS/7M Part no. 9077205	
Receptacle, cable mount, cable entry top M40 KBR 7T2/AO/7M Part no. 9077155	
Receptacle, cable mount, cable entry side 90° M40 KBR 7T2/AS/7M Part no. 9077255	

drawing - dimensions in mm [inch]

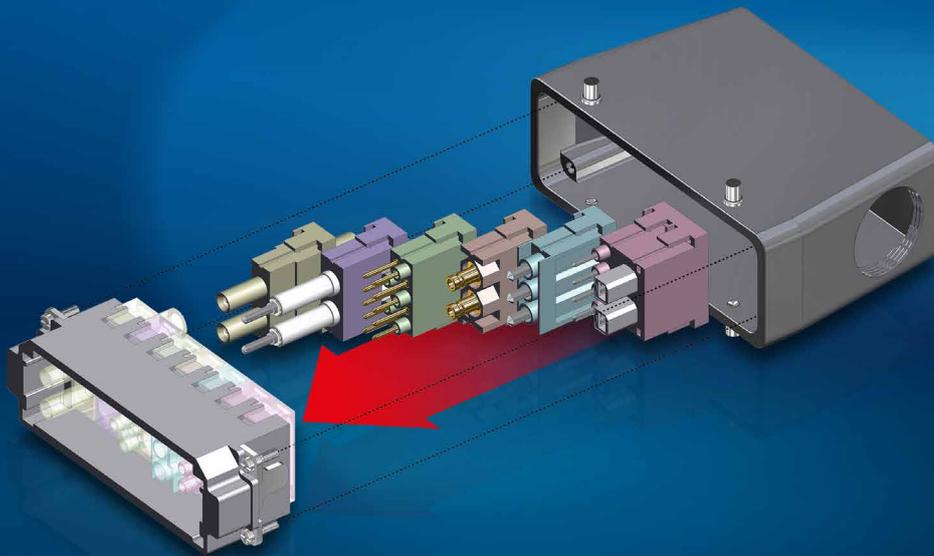
Cable glands and tools: page 199

Part no.	Description	HV contacts	Plug	Receptacle	Cable mount	Connecting thread	Panel mount	Page
9021305	GBR 1T2/2M	2		•			•	172
9021355	GSR 1T2/2M	2	•				•	172
9021015	KSR 1T2/AO/2M	2	•		•	M25		172
9021205	KSR 1T2/AS/2M	2	•		•	M25		172
9021155	KBR 1T2/AO/2M	2		•	•	M25		172
9021255	KBR 1T2/AS/2M	2		•	•	M25		172
9022305	GBR 2T2/2M	4		•			•	173
9022355	GSR 2T2/2M	4	•				•	173
9022105	KSR 2T2/AO/2M	4	•		•	M25		173
9022205	KSR 2T2/AS/2M	4	•		•	M25		173
9022155	KBR 2T2/AO/2M	4		•	•	M25		173
9022255	KBR 2T2/AS/2M	4		•	•	M25		173
9033305	GBR 3T2/3M	6		•			•	174
9033355	GSR 3T2/3M	6	•				•	174
9033105	KSR 3T2/AO/3M	6	•		•	M32		174
9033205	KSR 3T2/AS/3M	6	•		•	M32		174
9033155	KBR 3T2/AO/3M	6		•	•	M32		174
9033255	KBR 3T2/AS/3M	6		•	•	M32		174
9054305	GBR 4T2/5M	8		•			•	175
9054355	GSR 4T2/5M	8	•				•	175
9054105	KSR 4T2/AO/5M	8	•		•	M40		175
9054205	KSR 4T2/AS/5M	8	•		•	M40		175
9054155	KBR 4T2/AO/5M	8		•	•	M40		175
9054255	KBR 4T2/AS/5M	8		•	•	M32		175
9055305	GBR 5T2/5M	10		•			•	176
9055355	GSR 5T2/5M	10	•				•	176
9055105	KSR 5T2/AO/5M	10	•		•	M40		176
9055205	KSR 5T2/AS/5M	10	•		•	M40		176
9055155	KBR 5T2/AO/5M	10		•	•	M40		176
9055255	KBR 5T2/AS/5M	10		•	•	M40		176
9076305	GBR 6T2/7M	12		•			•	177
9076355	GSR 6T2/7M	12	•				•	177
9076105	KSR 6T2/AO/7M	12	•		•	M40		177
9076215	KSR 6T2/AS/7M	12	•		•	M40		177
9076155	KBR 6T2/AO/7M	12		•	•	M40		177
9076255	KBR 6T2/AS/7M	12		•	•	M40		177
9077305	GBR 7T2/7M	14		•			•	178
9077355	GSR 7T2/7M	14	•				•	178
9077105	KSR 7T2/AO/7M	14	•		•	M40		178
9077205	KSR 7T2/AS/7M	14	•		•	M40		178
9077155	KBR 7T2/AO/7M	14		•	•	M40		178
9077255	KBR 7T2/AS/7M	14		•	•	M40		178



MOD Serie

System components



MOD Serie
M Serie
MC Serie
MCS Serie
VP Serie
200 Serie
100 Serie
S Serie

- › Modules
- › Module frames
- › Industrial connector housings
- › Contacts
- › Screwed cable glands
- › Tools

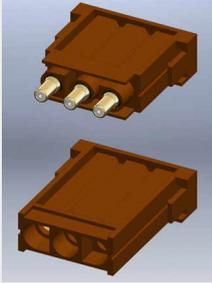
High voltage modules

Picture	Description	Part Number	Operating voltage	Contact size	Wire size
	HiPro HV module plug, 2-pole	6111111	12 kVDC	2.5 mm choose contacts from page 190	AWG 20 – 12 0.5 – 4.0 mm ²
	HiPro HV module socket, 2-pole	6111112			
	PTFE-1 module plug, 1-pole	6580000	12 kVDC	2.7 mm contacts included	AWG 14 2.5 mm ²
	PTFE-1 module socket, 1-pole	6580100			
	PTFE-2 module plug, 2-pole	6580010	12 kVDC	2.7 mm contacts included	AWG 14 2.5 mm ²
	PTFE-2 module socket, 2-pole	6580110			

Low voltage modules

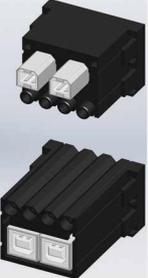
Picture	Description	Part Number	Operating voltage	Contact size	Wire size
	20-pole plug module	6575051	63 V	1.0 mm choose contacts from page 192	0.09 – 0.5 mm ² AWG 28 – 20
	20-pole socket module	6575061			
	10-pole plug module	6575070	400 V	1.6 mm choose contacts from page 193	0.14 – 2.5 mm ² AWG 26 - 14
	10-pole socket module	6575080			
	5-pole plug module	6575065	400 V	2.5 mm choose contacts from page 194	0.5 – 4.0 mm ² AWG 20 - 12
	5-pole socket module	6575075			
	3-pole plug module	6575062	630 V	3.6 mm choose contacts from page 195	1.5 – 10.0 mm ² AWG 16 – 8
	3-pole socket module	6575063			

KOAX module

Picture	Description	Part Number	Operating voltage	Wire size
	3-pole KOAX plug module	6575072	250 V	RG 58, 174 179, 316
	3-pole KOAX socket module	6575082		

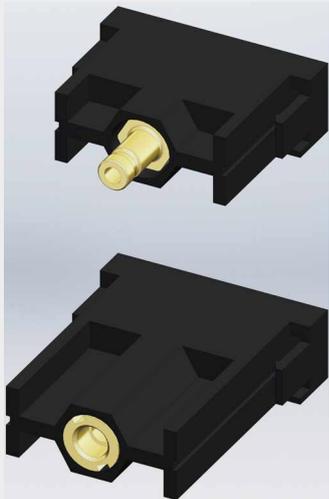
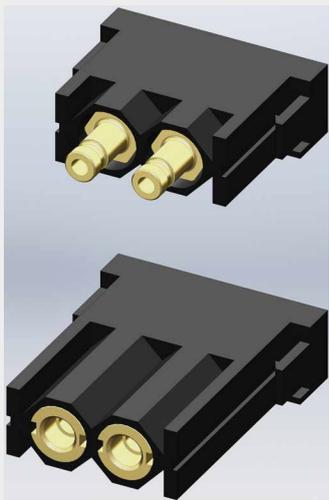
 **Contacts:** page 196

RJ45 module

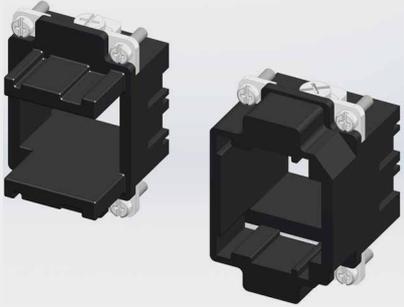
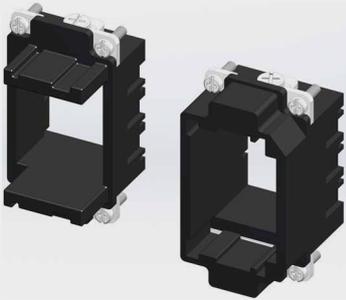
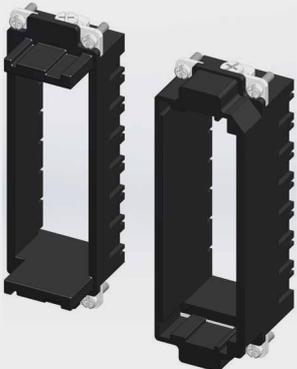
Picture	Description	Part Number
	RJ45 plug module CAT5e / USB type 2 + 4 male signal contacts 1.6 mm (AWG 26 – 14)	4100007
	RJ45 socket module CAT5e / USB type 2 + 4 female signal contacts 1.6 mm (AWG 26 – 14)	4200007

 **Contacts:** page 197

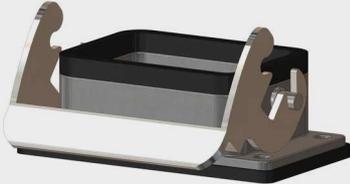
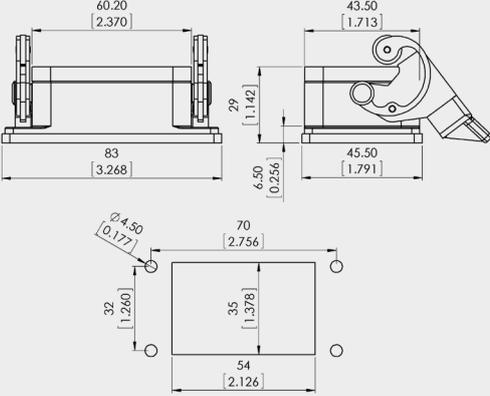
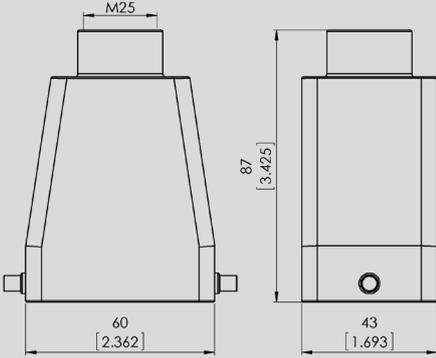
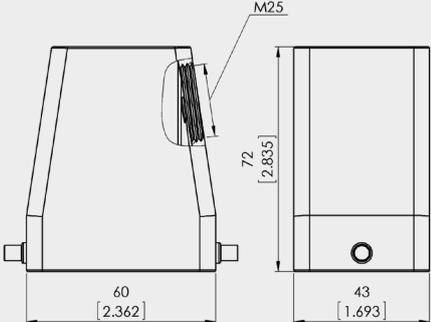
Pneumatic modules - single shut-off

Picture	Description	Part Number	Number of contacts
	Pneumatic plug module ST-1PN-M hose size 2.5 mm	6580201	1
	Pneumatic socket module BU-1PN-M hose size 2.5 mm – with shut-off	6580251	
	Pneumatic plug module ST-1PN-M hose size 4.0 mm	6580204	
	Pneumatic socket module BU-1PN-M hose size 4.0 mm – with shut-off	6580254	
	Pneumatic plug module ST-2PN-M hose size 2.5 mm	6580202	2
	Pneumatic socket module BU-2PN-M hose size 2.5 mm – with shut-off	6580252	
	Pneumatic plug module ST-2PN-M hose size 4.0 mm	6580205	
	Pneumatic socket module BU-2PN-M hose size 4.0 mm – with shut-off	6580255	

Frames for plug and socket modules

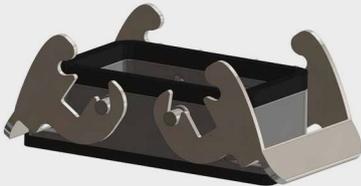
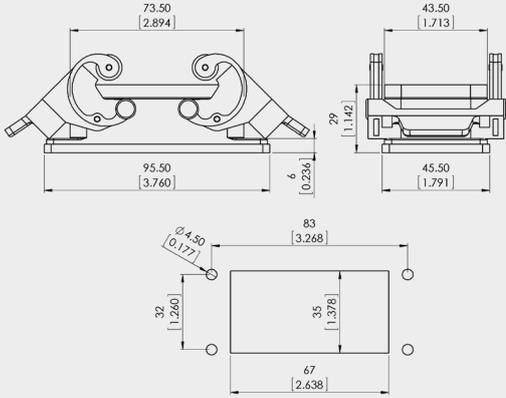
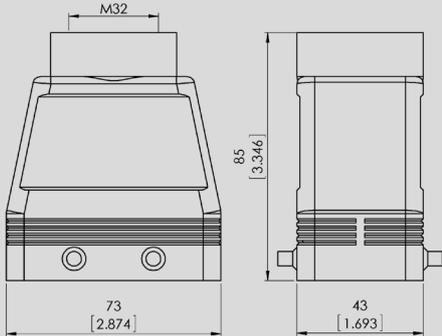
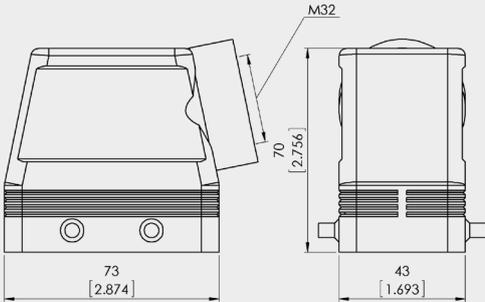
Picture	Description	Part Number
	Module frame for plug modules Size: 2 modules	6575043
	Module frame for receptacle modules Size: 2 modules	6575033
	Module frame for plug modules Size: 3 modules	6575042
	Module frame for receptacle modules Size: 3 modules	6575032
	Module frame for plug modules Size: 5 modules	6575040
	Module frame for receptacle modules Size: 5 modules	6575030
	Module frame for plug modules Size: 7 modules	6575045
	Module frame for receptacle modules Size: 7 modules	6575035

Housings for 2 module frames

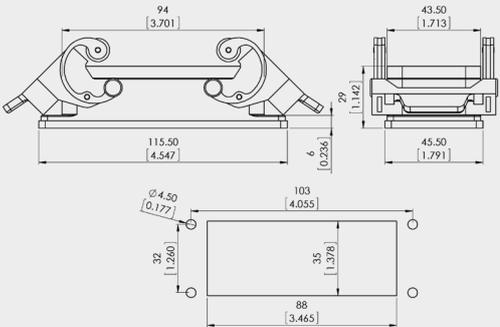
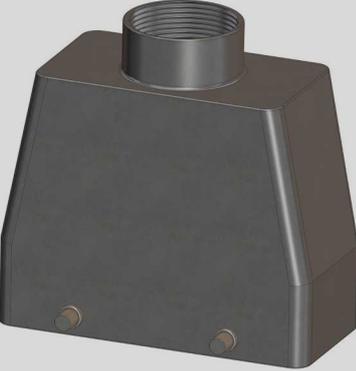
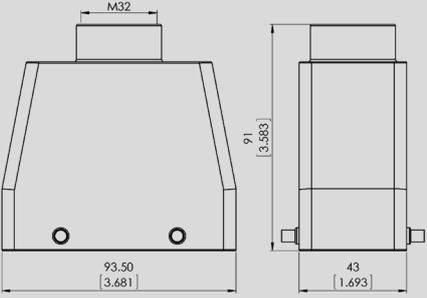
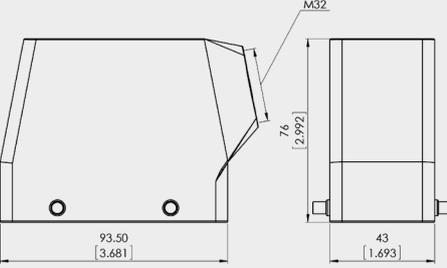
Picture	Description / Part Number	Drawing
	<p>Panel mount housing 2M/ LB</p> <p>for 2 modules frame 1-lever-locking system</p> <p>Part no. 6575158</p>	
	<p>Hood, top entry 2M/ HB/ AO/ M25/ LB</p> <p>for 2 modules frame cable top entry connecting thread M25 1-lever-locking system</p> <p>Part no. 6574931</p> <p>choose screwed cable gland from page 199</p>	
	<p>Hood, side entry 2M/ HB/ AS/ M25/ LB</p> <p>for 2 modules frame cable side entry 90° connecting thread M25 1-lever-locking system</p> <p>Part no. 6574930</p> <p>choose screwed cable gland from page 199</p>	

MOD Series

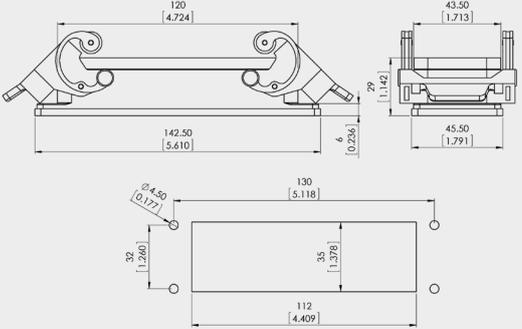
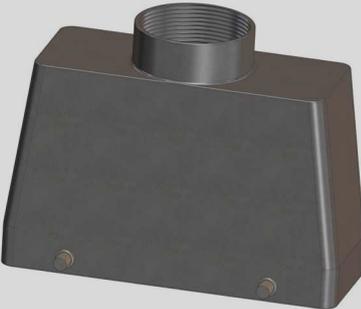
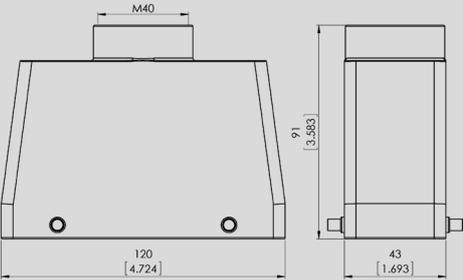
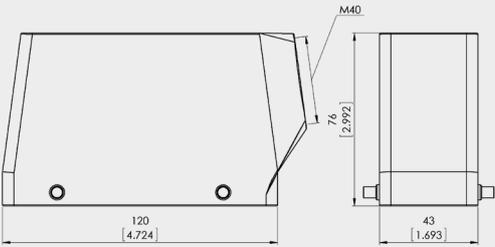
Housings for 3 module frames

Picture	Description / Part Number	Drawing
	<p>Panel mount housing 3M/QB</p> <p>for 3 modules frame 2-lever-locking system</p> <p>Part no. 6575159</p>	
	<p>Hood, top entry 3M/ HB/ AO/ M32/ QB</p> <p>for 3 modules frame cable top entry connecting thread M32 2-lever-locking system</p> <p>Part no. 6574802 choose screwed cable gland from page 199</p>	
	<p>Hood, side entry 3M/ HB/ AS/ M32/ QB</p> <p>for 3 modules frame cable side entry 90° connecting thread M32 2-lever-locking system</p> <p>Part no. 6574807 choose screwed cable gland from page 199</p>	

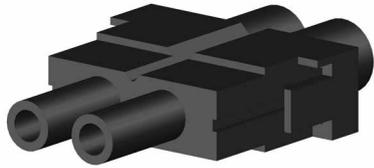
Housings for 5 module frames

Picture	Description / Part Number	Drawing
	<p>Panel mount housing 5M/ QB</p> <p>for 5 modules frame 2-lever-locking system</p> <p>Part no. 6575161</p>	
	<p>Hood, top entry 5M/ HB/ AO/ M32/ QB</p> <p>for 5 modules frame cable top entry connecting thread M32 2-lever-locking system</p> <p>Part no. 6575147 choose screwed cable gland from page 199</p>	
	<p>Hood, side entry 5M/ HB/ AS/ M32/ QB</p> <p>for 5 modules frame cable side entry 90° connecting thread M32 2-lever-locking system</p> <p>Part no. 6574833 choose screwed cable gland from page 199</p>	

Housings for 7 module frames

Picture	Description / Part Number	Drawing
	<p>Panel mount housing 7M/ QB</p> <p>for 7 modules frame 2-lever-locking system</p> <p>Part no. 6575162</p>	
	<p>Hood, top entry 7M/ HB/ AO/ M40/ QB</p> <p>for 7 modules frame cable top entry connecting thread M40 2-lever-locking system</p> <p>Part no. 6575163 choose screwed cable gland from page 199</p>	
	<p>Hood, side entry 7M/ HB/ AS/ M40/ QB</p> <p>for 7 modules frame cable side entry 90° connecting thread M40 2-lever-locking system</p> <p>Part no. 6574829 choose screwed cable gland from page 199</p>	

HiPro HV module



plug module
part no. 6111111



socket module
part no. 6111112

General characteristics	Value
Number of contacts	2
Termination method	crimp / solder
Wire size	AWG 20 – 12 (0.5 – 4.0 mm ²)
Flammability	UL94 V-0
Electrical characteristics	Value
Rated voltage	12 kV DC
Pollution degree	1
Material group	1
Test voltage	18 kV DC
Contact resistance	≤ 2 mΩ
Insulation resistance	≥ 10 ¹⁰ Ω
Climatical characteristics	Value
Rated temperature	-40°C to +125°C
Mechanical characteristics	Value
Mating cycles	≥ 500
Materials	
Insert (module)	PA 6.6 GF
Contacts	CuZn (brass)
Contacts surface plating	Ag (silver)

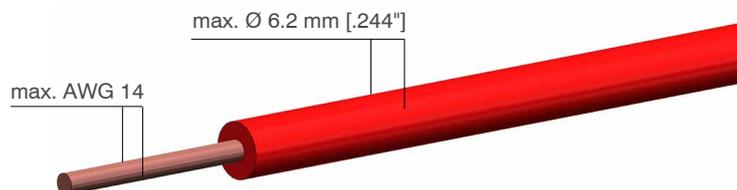
Male contacts

Part no.	Description	Cross section in mm ² (D)	AWG (D)	Picture / Drawing
6575087	male contact 2.5 mm / AWG 20	0.5	20	
6575089	male contact 2.5 mm / AWG 18	0.75 - 1.0	18	
6575092	male contact 2.5 mm / AWG 16	1.5	16	
6575094	male contact 2.5 mm / AWG 14	2.5	14	
6575091	male contact 2.5 mm / AWG 12	4.0	12	

Female contacts

Part no.	Description	Cross section in mm ² (D)	AWG (D)	Picture / Drawing
6575108	female contact 2.5 mm / AWG 20	0.5	20	
6575111	female contact 2.5 mm / AWG 18	0.75 - 1.0	18	
6575102	female contact 2.5 mm / AWG 16	1.5	16	
6575104	female contact 2.5 mm / AWG 14	2.5	14	
6575113	female contact 2.5 mm / AWG 12	4.0	12	

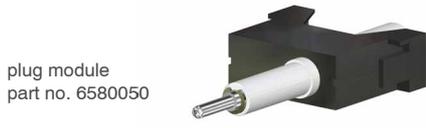
Suitable cable dimensions (single wire)



PTFE HV module 1-pole



plug module
part no. 6580000



plug module
part no. 6580050



socket module
part no. 6580100



socket module
part no. 6580150

General characteristics	Value
Number of contacts	1
Termination method	solder
Termination size	AWG 14 (2.5 mm ²)
Contact diameter	2.7 mm
Flammability	UL94 V-0
Electrical characteristics	Value
Rated voltage	12 kV DC
Pollution degree	1
Material group	1
Test voltage	18 kV DC
Contact resistance	300 μΩ
Climatical characteristics	Value
Rated temperature	-40°C to +125°C
Mechanical characteristics	Value
Mating cycles	≥ 100,000
Materials	
Insert (module)	PA 6.6 GF
Insulator	PTFE
Contacts	CuZn (brass)
Contacts surface plating	Ag (silver)

PTFE HV module 2-pole



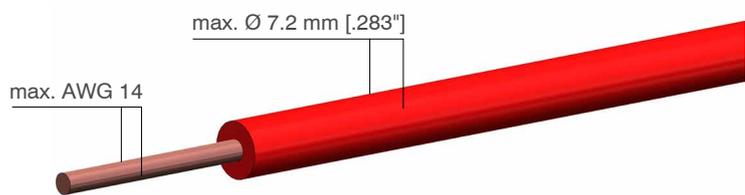
plug module
part no. 6580010



socket module
part no. 6580110

General characteristics	Value
Number of contacts	2
Termination method	solder
Termination size	AWG 14 (2.5 mm ²)
Contact diameter	2.7 mm
Flammability	UL94 V-0
Electrical characteristics	Value
Rated voltage	12 kV DC
Pollution degree	1
Material group	1
Test voltage	18 kV DC
Contact resistance	300 μΩ
Climatical characteristics	Value
Rated temperature	-40°C to +125°C
Mechanical characteristics	Value
Mating cycles	≥ 100,000
Materials	
Insert (module)	PA 6.6 GF
Insulator	PTFE
Contacts	CuZn (brass)
Contacts surface plating	Ag (silver)

Suitable cable dimensions (single wire)



20-pole module



plug module
part no. 6575051



socket module
part no. 6575061

General characteristics	Value
Number of contacts	20
Termination method	crimp / solder
Termination size	AWG 28 – 20 (0.09 – 0.5 mm ²)
Flammability	UL94 V-0
Electrical characteristics	Value
Rated voltage	63 V
Pollution degree	3
Overvoltage category	III
Material group	II
Rated impulse withstand voltage	4 kV
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 10 ¹² Ω
Climatical characteristics	Value
Rated temperature	-40°C to +125°C
Mechanical characteristics	Value
Mating cycles	≥ 500
Materials	
Insert (module)	PA 6.6 GF
Male contacts	CuZn (brass)
Female contacts	CuSn (bronze)
Contacts surface plating	Au (oold)

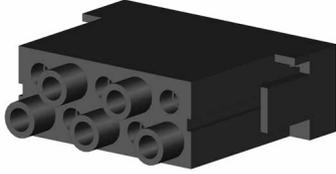
Male contacts

Part no.	Description	Cross section in mm ² (D)	AWG (D)	Picture / Drawing
6575114	male contact AU 1.0 mm / AWG 28 - 24	0.09 - 0.25	28 - 24	
6575137	male contact AU 1.0 mm / AWG 24 - 20	0.25 – 0.5	24 - 20	

Female contacts

Part no.	Description	Cross section in mm ² (D)	AWG (D)	Picture / Drawing
6575115	female contact AU 1.0 mm / AWG 28 - 24	0.09 - 0.25	28 - 24	
6575136	female contact AU 1.0 mm / AWG 24 - 20	0.25 – 0.5	24 - 20	

10-pole module



plug module
part no. 6575070



socket module
part no. 6575080

General characteristics	Value
Number of contacts	10
Termination method	crimp / solder
Termination size	AWG 26 – 14 (0.14 – 2.5 mm ²)
Flammability	UL94 V-0
Electrical characteristics	Value
Rated voltage	400 V
Pollution degree	3
Overvoltage category	III
Material group	II
Rated impulse withstand voltage	6 kV
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 10 ¹⁰ Ω
Climatical characteristics	Value
Rated temperature	-40°C to +100°C
Mechanical characteristics	Value
Mating cycles	≥ 500
Materials	
Insert (module)	PA 6.6 GF
Contacts	CuZn (brass)
Contacts surface plating	Ag (silver) / Au (gold)

Male contacts

Part no.	Description	Cross section in mm ² (D)	AWG (D)	Silver plated	Gold plated	Picture / Drawing
6575085	male contact 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22	•		
6575086	male contact 1.6 mm / AWG 20	0.5	20	•		
6575088	male contact 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16	•		
6575090	male contact 1.6 mm / AWG 16 - 15	1.5	16 - 15	•		
6575083	male contact 1.6 mm / AWG 14	2.5	14	•		
6575118	male contact AU 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22		•	
6575121	male contact AU 1.6 mm / AWG 20	0.5	20		•	
6575116	male contact AU 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16		•	
6575124	male contact AU 1.6 mm / AWG 16 - 15	1.5	16 - 15		•	
6575125	male contact AU 1.6 mm / AWG 14	2.5	14		•	

Female contacts

Part no.	Description	Cross section in mm ² (D)	AWG (D)	Silver plated	Gold plated	Picture / Drawing
6575095	female contact 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22	•		
6575107	female contact 1.6 mm / AWG 20	0.5	20	•		
6575098	female contact 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16	•		
6575100	female contact 1.6 mm / AWG 16 - 15	1.5	16 - 15	•		
6575084	female contact 1.6 mm / AWG 14	2.5	14	•		
6575127	female contact AU 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22		•	
6575131	female contact AU 1.6 mm / AWG 20	0.5	20		•	
6575117	female contact AU 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16		•	
6575132	female contact AU 1.6 mm / AWG 16 - 15	1.5	16 - 15		•	
6575133	female contact AU 1.6 mm / AWG 14	2.5	14		•	

5-pole module



plug module
part no. 6575065



socket module
part no. 6575075

General characteristics	Value
Number of contacts	5
Termination method	crimp / solder
Termination size	AWG 20 – 12 (0.5 – 4.0 mm ²)
Flammability	UL94 V-0
Electrical characteristics	Value
Rated voltage	400 V
Pollution degree	3
Overvoltage category	III
Material group	II
Rated impulse withstand voltage	6 kV
Contact resistance	≤ 2 mΩ
Insulation resistance	≥ 10 ¹⁰ Ω
Climatical characteristics	Value
Rated temperature	-40°C to +125°C
Mechanical characteristics	Value
Mating cycles	≥ 500
Materials	
Insert (module)	PA 6.6 GF
Contacts	CuZn (brass)
Contacts surface plating	Ag (silver)

Male contacts

Part no.	Description	Cross section in mm ² (D)	AWG (D)	Picture / Drawing
6575087	male contact 2.5 mm / AWG 20	0.5	20	
6575089	male contact 2.5 mm / AWG 18	0.75 - 1.0	18	
6575092	male contact 2.5 mm / AWG 16	1.5	16	
6575094	male contact 2.5 mm / AWG 14	2.5	14	
6575091	male contact 2.5 mm / AWG 12	4.0	12	

Female contacts

Part no.	Description	Cross section in mm ² (D)	AWG (D)	Picture / Drawing
6575108	female contact 2.5 mm / AWG 20	0.5	20	
6575111	female contact 2.5 mm / AWG 18	0.75 - 1.0	18	
6575102	female contact 2.5 mm / AWG 16	1.5	16	
6575104	female contact 2.5 mm / AWG 14	2.5	14	
6575113	female contact 2.5 mm / AWG 12	4.0	12	

3-pole module



plug module
part no. 6575062



socket module
part no. 6575063

General characteristics	Value
Number of contacts	3
Termination method	crimp / solder
Termination size	AWG 16 – 8 (1.5 – 10.0 mm ²)
Flammability	UL94 V-0
Electrical characteristics	Value
Rated voltage	630 V
Pollution degree	3
Overvoltage category	III
Material group	II
Rated impulse withstand voltage	8 kV
Contact resistance	≤ 1 mΩ
Insulation resistance	≥ 10 ¹⁰ Ω
Climatical characteristics	Value
Rated temperature	-40°C to +125°C
Mechanical characteristics	Value
Mating cycles	≥ 500
Materials	
Insert (module)	PA 6.6 GF
Contacts	CuZn (brass)
Contacts surface plating	Ag (silver)

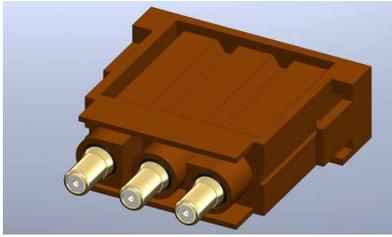
Male contacts

Part no.	Description	Cross section in mm ² (D)	AWG (D)	Picture / Drawing
6575099	male contact 3.6 mm / AWG 16	1.5	16	
6575106	male contact 3.6 mm / AWG 14	2.5	14	
6575093	male contact 3.6 mm / AWG 12	4.0	12	
6575139	male contact 3.6 mm / AWG 10	6.0	10	
6575096	male contact 3.6 mm / AWG 8	10.0	8	

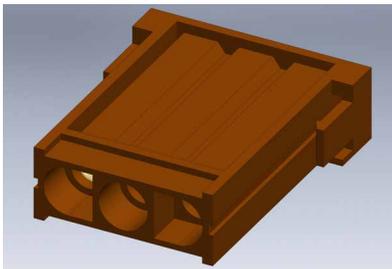
Female contacts

Part no.	Description	Cross section in mm ² (D)	AWG (D)	Picture / Drawing
6575109	female contact 3.6 mm / AWG 16	1.5	16	
6575105	female contact 3.6 mm / AWG 14	2.5	14	
6575103	female contact 3.6 mm / AWG 12	4.0	12	
6575138	female contact 3.6 mm / AWG 10	6.0	10	
6575097	female contact 3.6 mm / AWG 8	10.0	8	

KOAX module



plug module
part no. 6575072



socket module
part no. 6575082

General characteristics	Value
Number of contacts	3
Termination method	crimp, solder
Termination size	RG 58, 174, 179, 316
Flammability	UL94 V-0
Electrical characteristics	Value
Rated voltage	250 V
Pollution degree	3
Overvoltage category	III
Material group	II
Impedance	50 Ω
Frequency range	2 GHz
Climatical characteristics	Value
Rated temperature	-40°C to +125°C
Mechanical characteristics	Value
Mating cycles	≥ 500
Materials	
Insert (module)	PA 6.6 GF
Module color	russet
Contacts surface plating	Au (gold)

Male contacts

Part no.	Description	for cable size	Picture / Drawing
6575141	male coax contact RG 58	RG 58	
6575110	male coax contact RG 174, 179, 316	RG 174, 179, 316	

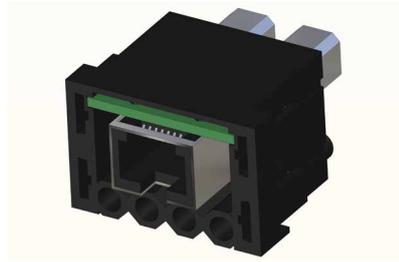
Female contacts

Part no.	Description	for cable size	Picture / Drawing
6575142	female coax contact RG 58	RG 58	
6575112	female coax contact RG 174, 179, 316	RG 174, 179, 316	

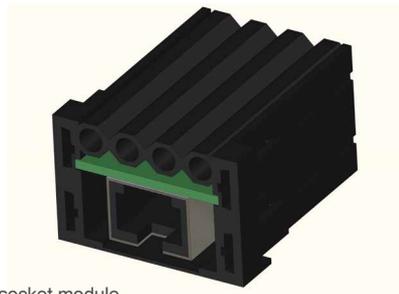
Dimensions and stripping lengths

Type	L [mm]	D [mm]	E [mm]	F [mm]	G [mm]	Drawing
contacts (male/ female) for RG 58	26.3	3.2	9.5	7.9	2	
contacts (male/ female) for RG 174, 179, 316	23.6	1.7	7.9	6.3	2	

RJ45 module



plug module
part no. 4100007



socket module
part no. 4200007

General characteristics	Value RJ45 contacts	Value power contacts
Number of contacts	8 + shield	4
Termination method	plug	crimp
Termination size		AWG 26 – 14 (0.14 – 2.5 mm ²)
Flammability	UL94 V-0	
Electrical characteristics	Value	
Rated voltage	30 V	400 V
Rated current	1 A	10A
Data transmission rate	100 Mbit/s	
Transfer response	In acc. with category 5 (CAT 5)	
Climatical characteristics	Value	
Rated temperature	-20°C to +80°C	
Mechanical characteristics	Value	
Mating cycles	≥ 500	
Materials	Value	
Insert (module)	PA 6.6 GF	
Contacts	CuZn (brass)	
Contacts surface plating	Ag (silver) / Au (gold)	

Male contacts

Part no.	Description	Cross section in mm ² (D)	AWG	silver plated	gold plated	Picture / Drawing
6575085	male contact 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22	•		
6575086	male contact 1.6 mm / AWG 20	0.5	20	•		
6575088	male contact 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16	•		
6575090	male contact 1.6 mm / AWG 16 - 15	1.5	16 - 15	•		
6575083	male contact 1.6 mm / AWG 14	2.5	14	•		
6575118	male contact AU 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22		•	
6575121	male contact AU 1.6 mm / AWG 20	0.5	20		•	
6575116	male contact AU 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16		•	
6575124	male contact AU 1.6 mm / AWG 16 - 15	1.5	16 - 15		•	
6575125	male contact AU 1.6 mm / AWG 14	2.5	14		•	

Female contacts

Part no.	Description	Cross section in mm ² (D)	AWG	silver plated	gold plated	Picture / Drawing
6575095	female contact 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22	•		
6575107	female contact 1.6 mm / AWG 20	0.5	20	•		
6575098	female contact 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16	•		
6575100	female contact 1.6 mm / AWG 16 - 15	1.5	16 - 15	•		
6575084	female contact 1.6 mm / AWG 14	2.5	14	•		
6575127	female contact AU 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22		•	
6575131	female contact AU 1.6 mm / AWG 20	0.5	20		•	
6575117	female contact AU 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16		•	
6575132	female contact AU 1.6 mm / AWG 16 - 15	1.5	16 - 15		•	
6575133	female contact AU 1.6 mm / AWG 14	2.5	14		•	

Pneumatic modules for hose size 2.5 mm

Pneumatic module	
plug module part no. 6580201	
socket module part no. 6580251	
plug module part no. 6580202	
socket module part no. 6580252	

General characteristics	Value
Number of contacts	1, 2
Termination method	hose connection
Hose size (inner diameter)	2.5 mm
Flammability	UL94 V-0
Technical characteristics	Value
Operating pressure	8 bar with PTFE hose
Contact travel (feed path)	4 mm
Shut-off	one-sided (on socket module)
Recommended hose material	PTFE
Climatical characteristics	Value
Rated temperature	-20°C to +100°C
Mechanical characteristics	Value
Mating cycles	≥ 5000
Materials	
Insert (module)	PA 6.6 GF
Contacts	CuZn (brass)

Pneumatic modules for hose size 4.0 mm

Pneumatic module	
plug module part no. 6580204	
socket module part no. 6580254	
plug module part no. 6580205	
socket module part no. 6580255	

General characteristics	Value
Number of contacts	1, 2
Termination method	hose connection
Hose size (inner diameter)	4.0 mm
Flammability	UL94 V-0
Technical characteristics	Value
Operating pressure	8 bar with PTFE hose
Contact travel (feed path)	4 mm
Shut-off	one-sided (on socket module)
Recommended tube material	PTFE
Climatical characteristics	Value
Rated temperature	-20°C to +100°C
Mechanical characteristics	Value
Mating cycles	≥ 5000
Materials	
Insert (module)	PA 6.6 GF
Contacts	CuZn (brass)

Screwed cable glands

Picture	Description	Part number	Clamping range in mm (D)
	KV M25x1.5, 9 – 16 mm	1674119	9 – 16
	KV M25x1.5, 13 – 18 mm	1674117	13 – 18
	KV M32x1.5, 13 – 20 mm	1674082	13 – 20
	KV M32x1.5, 18 – 25 mm	1674078	18 – 25
	KV M40x1.5, 20 – 26 mm	1674072	20 – 26

Tools

Description	Part number
Extracting tool for contacts 1.0 mm	3000000
Extracting tool for contacts 1.6 mm	3000001
Extracting tool for contacts 2.5 mm	3000003
Extracting tool for contacts 3.6 mm	3000004
Removal tool for modules	3000006
Crimping tool for contacts 1.0 mm	3000019
Crimping tool for contacts 1.6 / 2.5 mm	3000015
Crimping tool for contacts 3.6 mm	3000020

Glossary

AC voltage / AC applications

Connectors in this catalogue are only approved for DC voltages. GES cannot make any statements about the use with AC voltages. The use of the products in this catalogue with AC voltages needs approval by the customer under the electrical, mechanical and environmental conditions of customer's application.

Clearance

The shortest distance in air between two conductive parts (see IEC 60664).

Contact resistance

The electrical resistance of a mated set of contacts under specified conditions. Tested according to tests IEC 60512-2.

Creepage distance

The shortest distance along the surface of the insulating material between two conductive parts. The longer the distance the less the risk of arc damage or tracking. Minimum creepage distances are specified according to the rated voltage and the applicable pollution degree and CTI.

CTI-Value and Insulation material class

CTI = Comparative Tracking Index. The CTI-Value defines the maximum leakage current on surfaces under a given set up. Leakage current is the current that occurs on surfaces of insulators. The higher the CTI-value the lower the leakage current. This is important for defining the necessary creepage distance for high voltage connections.

After the CTI-value materials are classified in insulation material classes.

DIN IEC 60664-1 distinguishes different insulation material groups:

- Insulation material group I $CTI \geq 600$
- Insulation material group II $400 \leq CTI < 600$
- Insulation material group IIIa $175 \leq CTI < 400$
- Insulation material group IIIb $100 \leq CTI < 175$

GES only uses plastic Insulation material group I for shortest possible connectors.

Housing

The part of a connector into which the insert and the contacts are assembled. It may function as part of the locking mechanism.

Insertion and withdrawal force

The force required to fully insert or withdraw a set of mated connectors without the effect of coupling, locking or similar devices. The insertion force usually is greater than the withdrawal force.

Insulation material group

see „CTI-Value“.

Mating cycle

One mating cycle comprises one insertion and one withdrawal operation. Term used in the definition of connector life.

Operating current, maximal

The current which causes a temperature rise to 120°C (VDE 0627).

Operating temperature

The temperature at which an electrical or mechanical device operates.

Operating voltage

see "Rated voltage"

Plug, cable mount

Plug (male contact) in cable mount housing.

Pollution degree

The pollution degree must be defined taking the expected pollution around the equipment into account. The pollution degree effects the dielectric strength of a connector and is one of the cause variables for calculation of clearance and creepage distances. According to DIN IEC 60664-1 there are four degrees of pollution:

- Pollution degree 1
No pollution or only dry, non-conductive pollution occurs. The pollution has no influence.
- Pollution degree 2
Only non-conductive pollution occurs except occasionally a temporary conductivity caused by condensation is to be expected.
- Pollution degree 3
Conductive pollution occurs or dry non-conductive pollution occurs which becomes conductive due to condensation which is to be expected.
- Pollution degree 4
The pollution generates persistent conductivity caused by conductive dust or by rain or snow.

Glossary

For all rated voltages stated for the parts shown in this catalogue "Pollution degree 1" is the basis of assessment. Every customer or user has to define the pollution degree of his application.

Pulse current

Current load for no more than 10 ms.

Rated Current

A current value assigned by the manufacturer which the connector or PSD can carry continuously and causes a temperature rise of 45°C (e.g. from 23°C to 68°C). Current values listed in this catalogue refer to environmental temperatures of +20°C.

Rated Voltage

The maximum voltage a connector can withstand in mated condition without losing its properties. All mentioned voltages are DC-voltages.

Receptacle, panel mount

Receptacle (female contact) in panel mount housing.

Test Voltage

Test voltages stated in this catalogue are minimum 1.5 times the rated voltages for the duration of 1 minute.

Wire size / AWG

Is a measurement of how large a wire is, either in diameter, cross sectional area or AWG (American Wire Gauge).

→ Conversion table mm²/AWG

AWG	mm ² (exakt value)	mm ² (nearest standard)
22	0.324	0.4
20	0.519	0.5
18	0.823	0.75
16	1.13	1.5
14	2.08	2.5
12	3.31	4
10	5.261	6
8	8.367	10
6	13.30	16
4	21.15	25
3	26.67	
2	33.62	35
1	42.41	

