



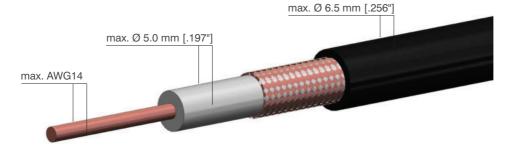
- > Operating voltages up to 40 kVDC
- > Operating current up to 30 Amps
- > Advanced contact technology
- > Silver plated and gold plated contacts available
- > High performance insulation material

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
Comboth	
Contacts	celder / comm
Termination method	solder / screw
Rated current	30 A
Max. operating current	40 A
Pulse current	3000 A
Contact resistance	300 μΩ
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 / 4.0 N
Mating cycles	100 k
Rated temperature	+120°C
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





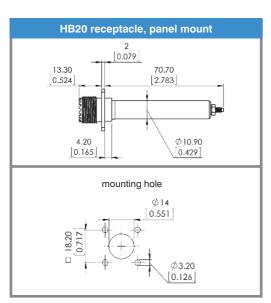
Type HSB20 **20 kVDC**

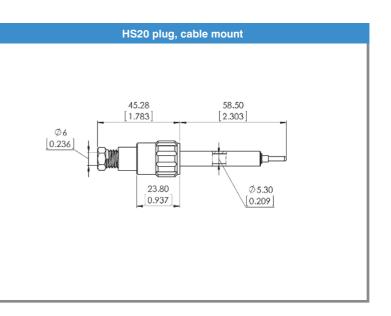
Electrical values		
Operating voltage (DC)	20 kV	
Test voltage (DC)	30 kV	
Rated current	30 A	
Maximum operating current	40 A	
Pulse current	3000 A	
Characteristics		
Insulation material	PTFE	
Mounting type receptacle	4-hole flange	
Contact plating	silver (Ag) or gold (Au)	



HB20 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	٠		٠	
7320006	HS20/Au PTFE	٠			٠
7321005	HB20 PTFE		٠	٠	
7321006	HB20/Au PTFE		٠		٠

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					

Type HSB21 20 kVDC

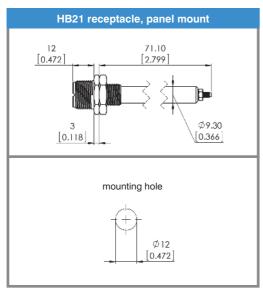


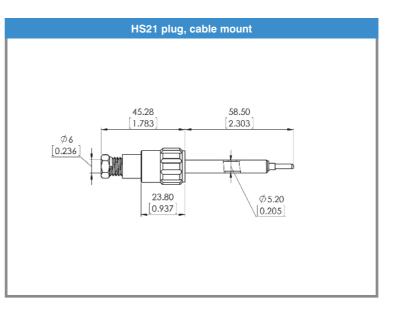
Electrical values		
Operating voltage (DC)	20 kV	
Test voltage (DC)	30 kV	
Rated current	30 A	
Maximum operating current	40 A	
Pulse current	3000 A	
Characteristics		
Insulation material	PTFE or POM	
Mounting type receptacle	roundflange	
Contact plating	silver (Ag) or gold (Au)	



HB21 receptacle, panel mount

HS21 plug, cable mount





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	٠			•	٠	
7320013	HS21/Au POM	٠			٠		٠
7320020	HS21 PTFE	٠		٠		٠	
7320023	HS21/Au PTFE	٠		٠			٠
7321010	HB21 POM		•		•	•	
7321013	HB21/Au POM		٠		•		٠
7321020	HB21 PTFE		•	•		•	
7321022	HB21/Au PTFE		٠	٠			٠

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					



001111101		
Part No.	Description	Drawing
6572001	male contact 2.5 mm silver plated (Ag)	Ø 2.60 [0.102]
6572005	female contact 2.5 mm silver plated (Ag)	B B M3 Ø 1.80 [0.071]
6571025	male contact 2.5 mm gold plated (Au)	Ø 2.60 [0.102]
6571027	female contact 2.5 mm gold plated (Au)	B M3 Ø1.80 [0.071]

Contacts

Gaskets

Part No.	Description	Drawing
6572092	flat gasket, 4-hole mount, NBR, black, for receptacle types HBx0	$\begin{array}{c} & 24 \\ (0,138) \\ 0,138) \\ 0,138 \\ 0,138 \\ 0,158 \\ 0,591$
6572093	flat gasket, roundflange, NBR, black, for receptacle types HBx1	ϕ_{13}^{13}

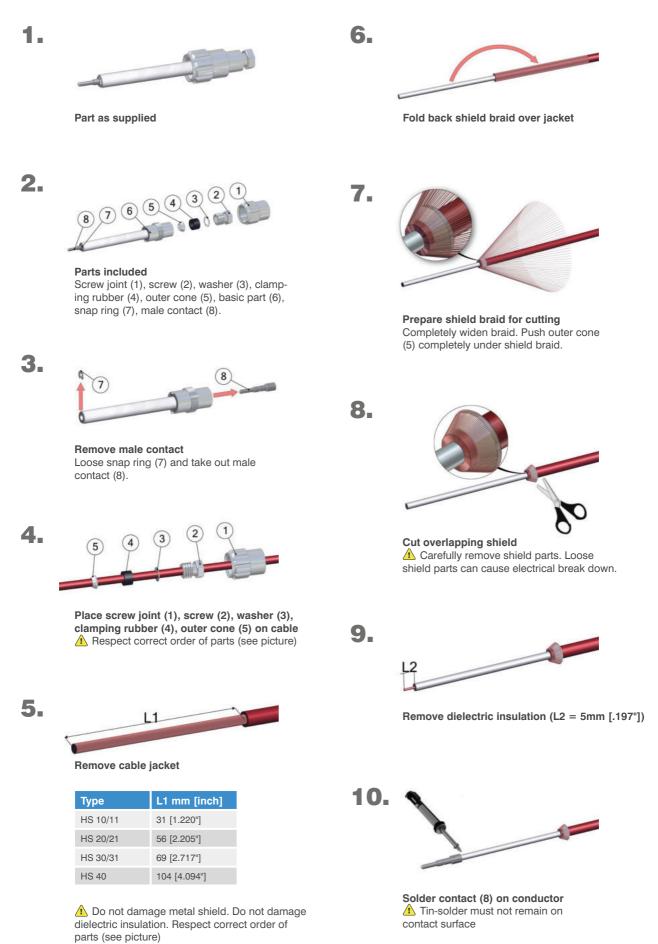
drawing - dimensions in mm [inch]

drawing - dimensions in mm [inch]

S Series

Assembly instructions HS (plug, cable mount)







Assembly instructions HS (plug, cable mount)

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)



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

14.



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

Note – important!

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

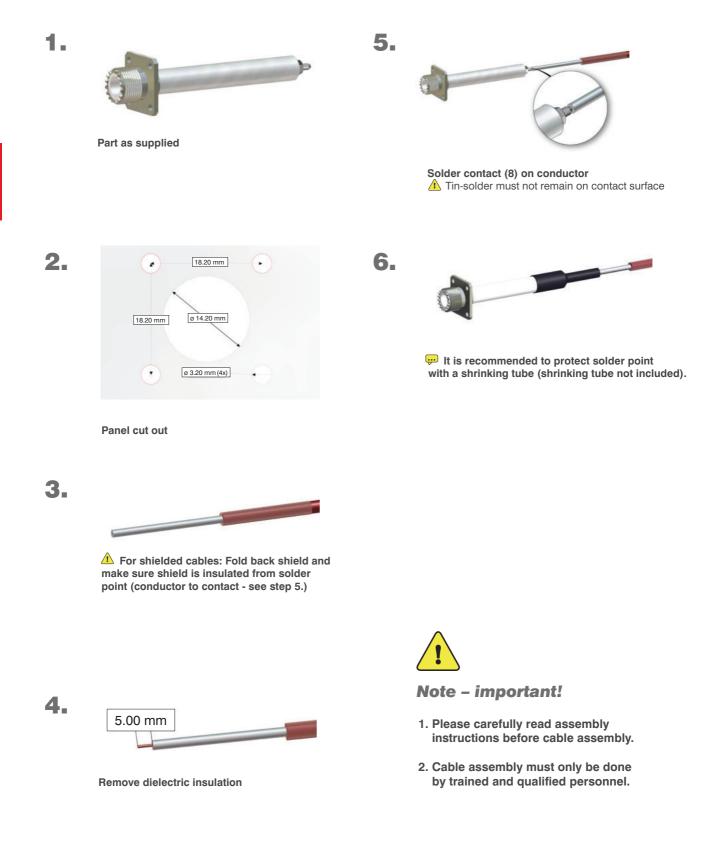
15.



Assembly finished

Assembly instructions GB (plug, cable mount)







Series S 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
	I_I	
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)	٠	
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)	٠	
7310021.007.xxxxx	HSC11-007/Au PTFE (length) mm	(XXXXX)		٠

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)	٠	
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)	٠	
7320013.007.xxxxx	HSC21-007/Au POM (length) mm	(XXXXX)		٠
7320020.007.xxxxx	HSC21-007 PTFE (length) mm	(XXXXX)	٠	
7320023.007.xxxxx	HSC21-007/Au PTFE (length) mm	(XXXXX)		•

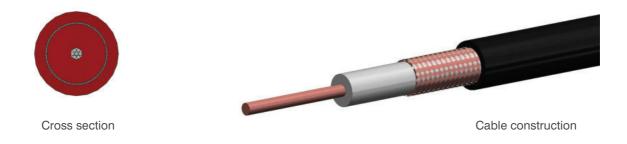
Plug cable assemblies type HS30

P/N	Description	Cable length in mm	Contact silver plated	Contact gold plated
7331050.007.xxxxx	HSC30-007 PTFE (length) mm	(XXXXX)	٠	
7331150.007.xxxx	HSC30-007/Au PTFE (length) mm	(XXXXX)		٠

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)		٠





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"]