

Series



S Series

100 Series

VP Series

MCS Series

MC Series

M Series

MOD Series

- 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

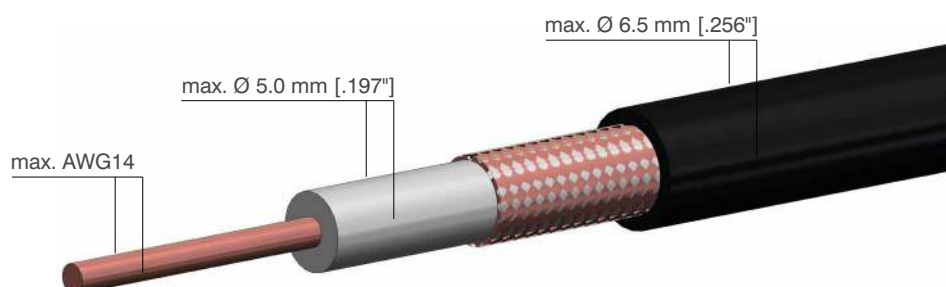
General characteristics and technical data Series S

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

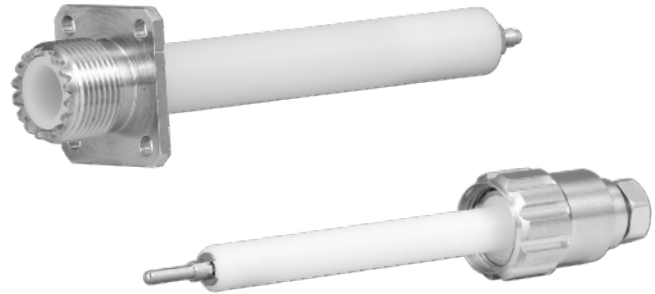
Contacts	
Termination method	solder / screw
Rated current	30 A
Max. operating current	40 A
Pulse current	3000 A
Contact resistance	300 $\mu\Omega$
Contact diameter	2.5 mm [.098"]
Max. wire size	AWG 14 / 2.5 mm ²
Contact material	brass (CuZn)
Contact plating	silver (Ag) / gold (Au)
Insertion / Withdrawal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

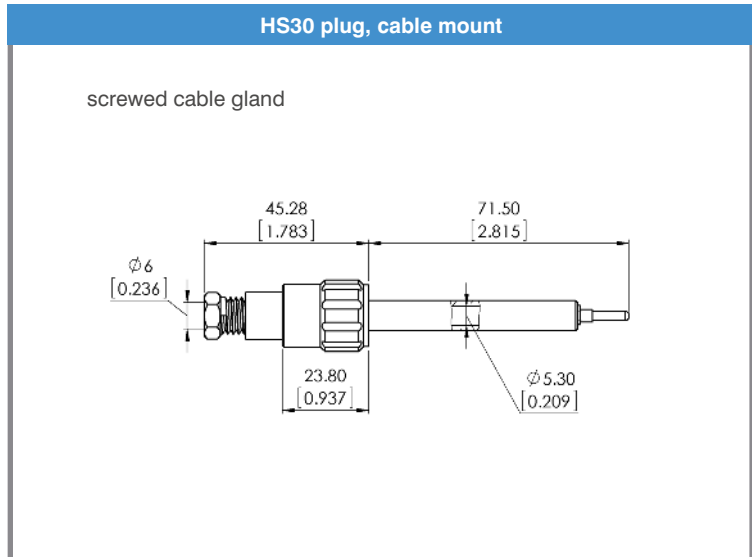
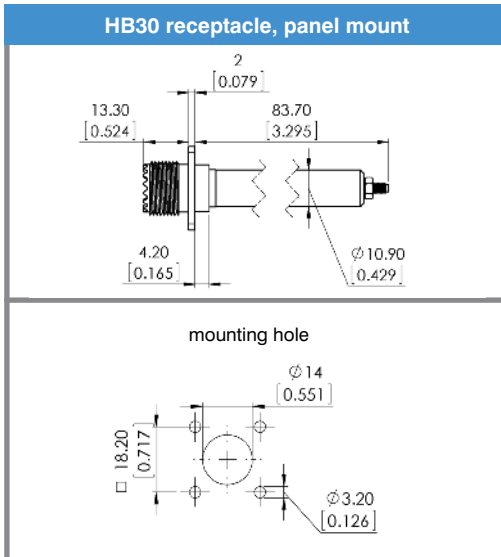
Suitable cable dimensions



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)



HB30 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

➔ For more information please see page 26

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"]

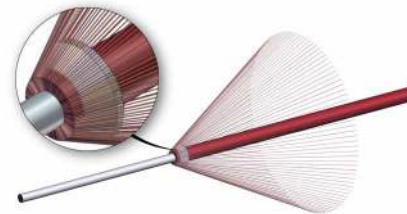
⚠ Do not damage metal shield. Do not damage dielectric insulation. Respect correct order of parts (see picture)

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

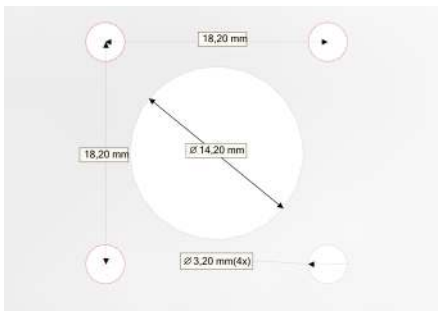
5.



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.