

SubConn® Power Data Circular

13 contacts

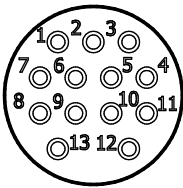
Connector specifications

Voltage rating	600 V DC/AC rms
Voltage rating on data wire	250 V DC/AC rms
Current rating on power wire	4 A per contact (max 16 A per connector)
Data rate	1 Gbit/s (up to 75 m)
Insulation resistance	> 200 MΩ
Contact resistance	< 0.01 Ω
Wet matings	> 500
Temperature rating (water)	- 4 to 60°C, 25 to 140°F
Temperature rating (air)	- 40 to 60°C, - 40 to 140°F
Storage temperature rating	- 40 to 60°C, - 40 to 140°F
Qualified pressure tested	600 bar, 8,700 psi (open face)
Depth rating PEEK	300 bar, 4,350 psi

Material specifications

Connector body	Chloroprene rubber
Bulkhead body	Brass, stainless steel, titanium, anodised aluminium or PEEK
Bulkhead body (RA)	Brass, stainless steel, titanium or anodised aluminium
Contacts	Female sockets in gold plated brass UNS - C36000
	Male contacts in gold plated beryllium copper
O-rings	Nitrile
Locking sleeves	POM or stainless steel
Locking sleeves (RA)	RADLSA-M (black POM)
Snap rings	Stainless steel AISI 302
Inline cable (3.3 ft, 100 cm)	4 pair 24 AWG, 0.20 mm² PUR
	Power conductors 4 x 18 AWG, 0.82 mm²
	Screen: Tinned copper braid
Bulkhead and PBOF leads (3.3 ft, 100 cm)	CAT 5E patch cable, 5 x 20 AWG, 0.52 mm² coloured PTFE.
	RJ 45 connector incl. on bulkhead (not installed)
OM leads (3", 7 cm)	CAT 5E patch cable, 5 x 20 AWG, 0.52 mm² coloured PTFE

Face view (male)



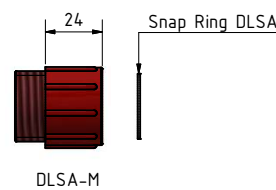
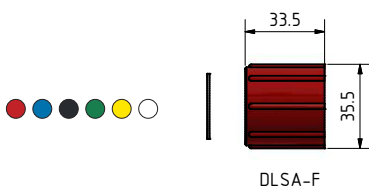
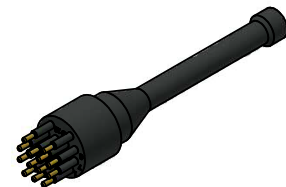
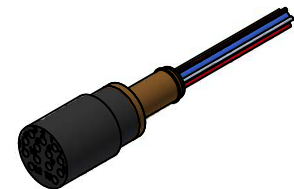
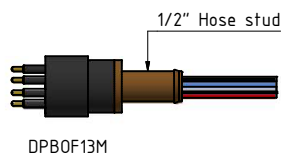
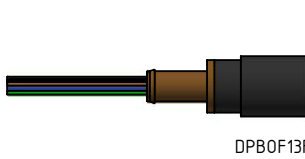
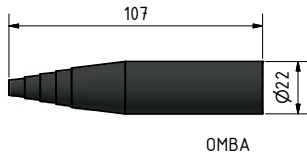
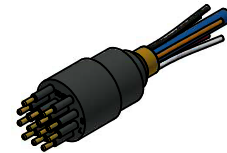
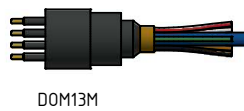
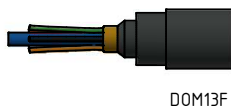
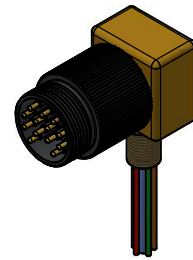
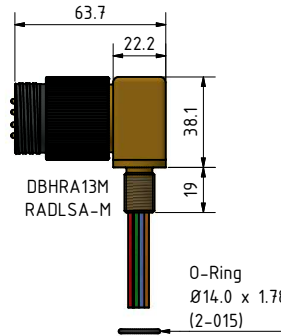
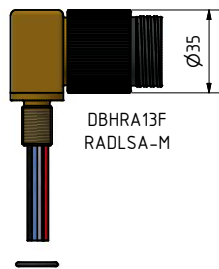
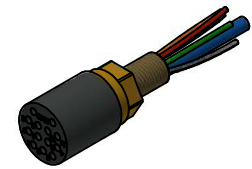
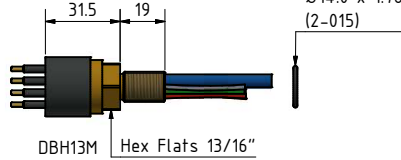
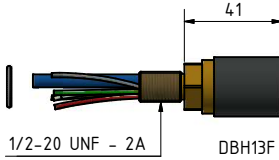
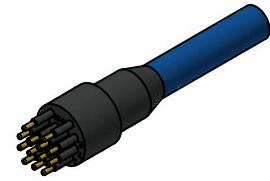
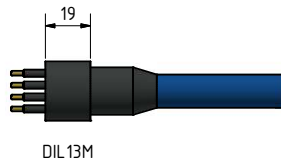
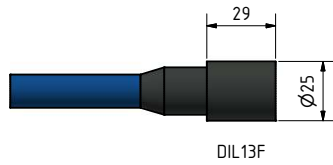
Inline cable colour code

1 Black	4-5 Brown, Brown/white*	10-11 Green, Green/white*
2 Screen (orange wire on bulkhead)	6-7 Blue, Blue/white*	12 Red
3 White	8-9 Orange, Orange/white*	13 Green

* Twisted pairs

Additional information

Standard RJ45 cannot be mounted on inline cable and will require a RJ45 Phoenix connector or equivalent.



Drawing information

Dimensions in mm (1 mm = 0.03937 inches)
Threads in inches (1 inch = 25.4 mm)

Cable and wire lead information

Synthetic rubber cables – see page 143. Wire leads – see page 144.
For recommended PUR cables, please refer to the Polyurethane cables section.