

SubConn® Data Circular Double O-ring

8 and 13 contacts

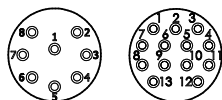
Connector specifications

Voltage rating	600 V DC/AC rms (13 contacts only)
Voltage rating on data wire	250 V DC/AC rms
Current rating on power wire	4 A per contact (max 16 A per connector) (13 contacts only)
Data rate	1 Gbit/s
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)

Material specifications

Connector body	Chloroprene rubber
Bulkhead body	Brass, stainless steel, titanium, 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
Snap rings	Stainless steel AISI 302
Bulkhead leads (3.3 ft, 100 cm)	CAT 5E patch cable, 5 x 20 AWG, 0.52 mm² coloured PTFE (13 contacts only)
	incl. RJ 45 connector (not installed)

Face view (male)



Leads colour code - 8 contacts

1-2 Brown, Brown/white*	5-6 Orange, Orange/white*
3-4 Blue, Blue/white*	7-8 Green, Green/white*

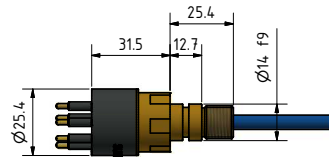
Leads colour code - 13 contacts

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

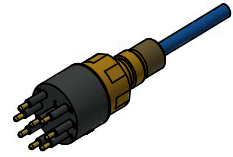
* Twisted pairs



DIL8F
DOM8F
DPB0F8F
DDC8F



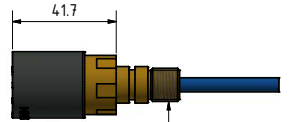
DBH8M 2 O-Ring
Hex Flats 22mm



O-Ring
Ø10.82 x 1.78
(2-013)

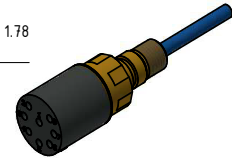


DIL8M
DOM8M
DPB0F8M
DDC8M



DBH8F 2 O-Ring
Hex Flats 22mm

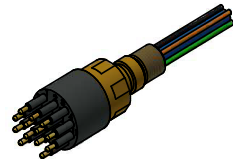
O-Ring
Ø15.6 x 1.78
(2-016)



DIL13F
DOM13F
DPB0F13F
DDC13F



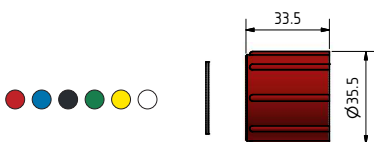
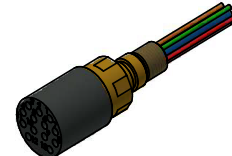
DBH13M 2 O-Ring
Hex Flats 22mm



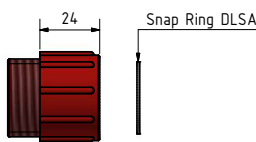
DIL13M
DOM13M
DPB0F13M
DDC13M



DBH13F 2 O-Ring
Hex Flats 22mm



DLSA-F



DLSA-M



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.