

# SubConn® Ethernet Circular

## 8 contacts

### Connector specifications

Voltage rating	250 V DC/AC rms
Data rate	1 Gbit/s (up to 75 m)
Insulation resistance	> 200 Mohm
Contact resistance	< 0.01 ohm
Wet matings	> 500 (open face rated)
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
Depth rating PEEK	300 bar, 4,350 psi

### Material specifications

Connector body	Chloroprene rubber
Bulkhead body	Brass, stainless steel, titanium, anodised aluminium or PEEK
Contacts	Female sockets in gold plated brass UNS - C36000 Male pins in gold plated beryllium copper
O-rings	Nitrile
Locking sleeves	POM or stainless steel
Snap rings	Stainless steel AISI 302
Inline cable (3.3 ft, 100 cm)	4 pair 24 AWG, 0.20 mm <sup>2</sup> PUR
Bulkhead and PBOF leads (3.3 ft, 100 cm)	CAT 5E patch cable incl. RJ 45 connector incl. on bulkhead (not installed)
OM leads (3") , 7 cm	CAT 5E patch cable

### Face view (male)



### Inline cable colour code

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

\* Twisted pairs

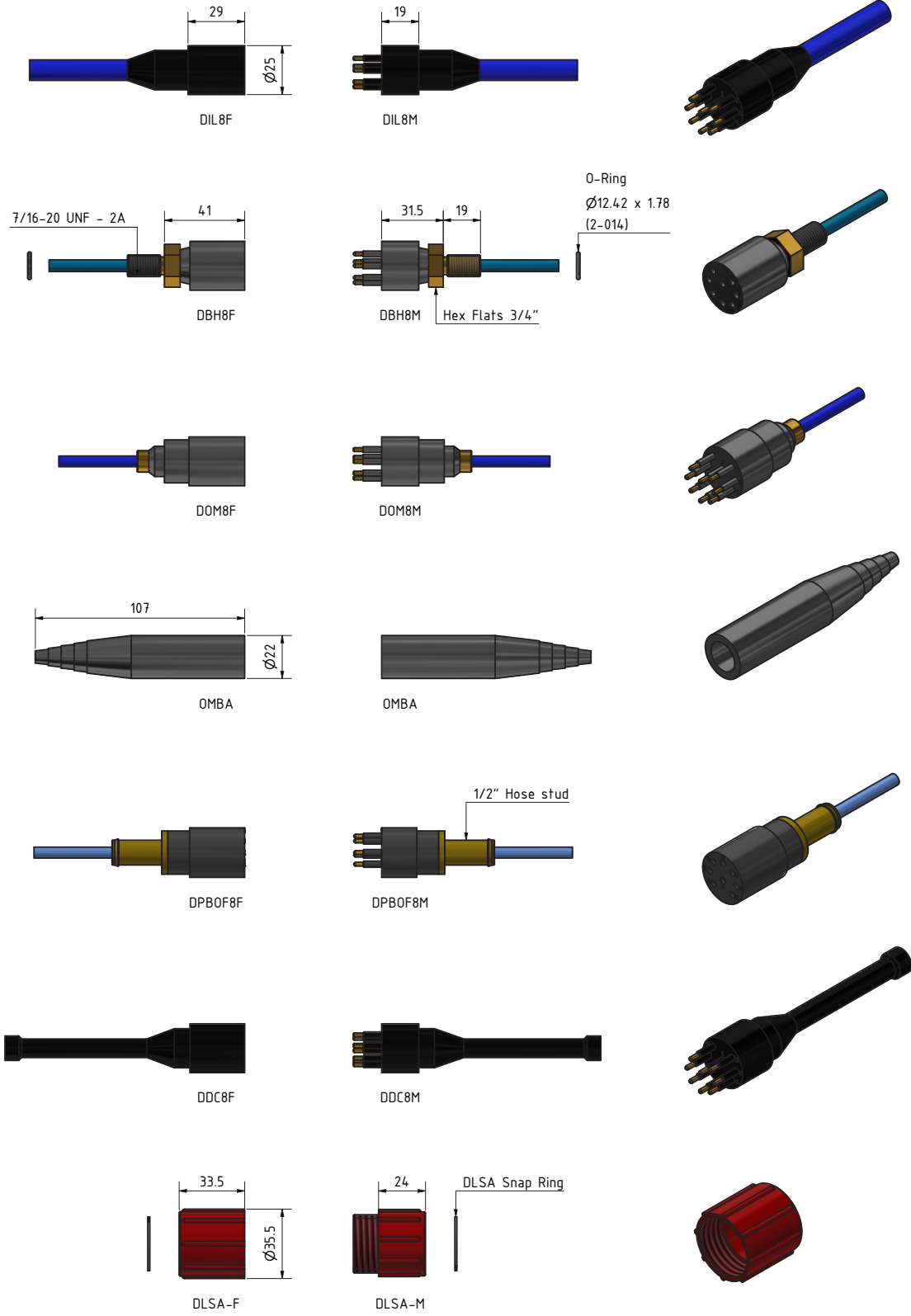
### Nominal cable outside diameter (OD)

PUR cable 0.410", 10.4 mm

### Additional information

Inline connector is available in shallow water version.

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