

SubConn® Power Ethernet Circular

13 pins

Connector specifications

Voltage rating	600 V AC rms
Voltage rating on data wire	250 V AC rms
Current rating on power wire	4 A per pin (max 16 A per connector)
Data rate	1 Gbit/s (up to 75 m)
Insulation resistance	> 200 Mohm
Contact resistance	< 0.01 ohm
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
Depth rating	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	Sockets in gold plated brass UNS - C36000
	Male pins in gold plated beryllium copper
O-rings	Nitrile
Locking sleeves	POM
Snap rings	Stainless steel AISI 302
Inline cable (100 cm, 3.3 ft)	4 pair 24 AWG, 0.20 mm ² polyurethane
	Power conductors 4 x 18 AWG, 0.80 mm ²
	Screen: Tinned copper braid
Bulkhead leads (100 cm, 3.3 ft)	CAT 5E patch cable, 5 x 20 AWG, 0.50 mm ² with colored wires
	incl. RJ 45 connector (not installed)

Face view (male)



Inline cable colour code

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

Nominal cable outside diameter (OD)

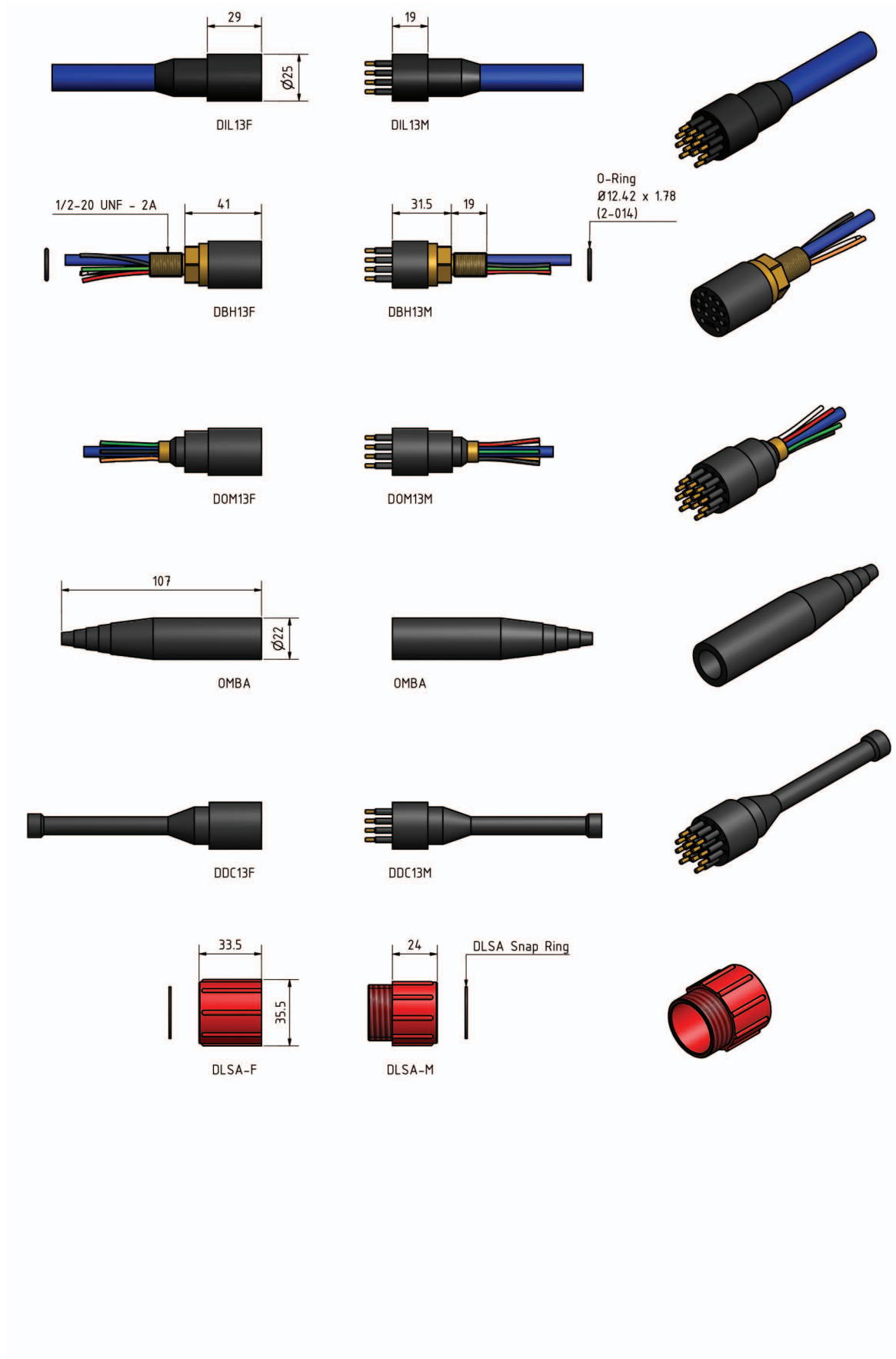
Polyurethane cable 0.550", 13.97 mm

Additional information

Nuts and washers can be supplied in stainless steel AISI 316 or brass UNS - C36000

For mounting and torque information - see "general technical information" (page 96)

For SubConn® handling instructions - see "general technical information" (page 98)



Drawing information

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