

SubConn® Circular

12, 16 and 25 pins

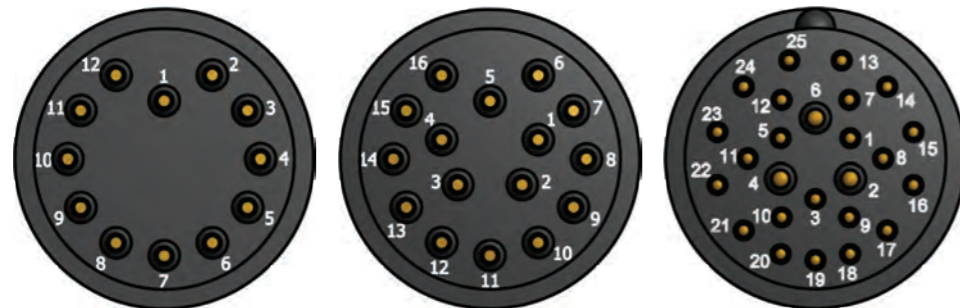
Connector specifications

Voltage rating	600 V AC rms
12 and 16 pin current rating	10 A per pin (max 60 A per connector)
25 pin connector current rating	3 power pins 10 A per pin, 22 signal pins 5 A per pin (max 60 A per connector)
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
12 and 16 pin connector depth rating	1,400 bar, 20,000 psi
25 pin connector depth rating	700 bar, 10,000 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 12 and 16 pin	Gold plated brass UNS - C36000
Contacts 25 pin	Contacts 2, 4 and 6: Gold plated brass UNS - C36000 Contacts 1, 3, 5, 7 - 25: Gold plated beryllium copper
O-rings	Nitrile
Locking sleeves	POM
Snap rings	Stainless steel AISI 302
12 and 16 conductor inline cable (60 cm, 2 ft)	18 AWG 1.0 mm ² chloroprene rubber
25 conductor inline cable (60 cm, 2 ft)	3 x 18 AWG 1.0 mm ² , 22 x 20 AWG 0.5 mm ² polyurethane
12 and 16 pin bulkhead leads (30 cm, 1 ft)	18 AWG 1.0 mm ² coloured PTFE
25 pin bulkhead leads (30 cm, 1 ft)	3 x 18 AWG 1.0 mm ² , 22 x 22 AWG 0.32 mm ² tagged PTFE

Face view (male)



Inline cable colour code

1 Black	7 White/black	13 Red/white
2 White	8 Red/black	14 Green/white
3 Red	9 Green/black	15 Blue/white
4 Green	10 Orange/black	16 Black/red
5 Orange	11 Blue/black	
6 Blue	12 Black/white	

(Except 25 pin - tagged numbering, 1-25)

Nominal cable outside diameter (OD)

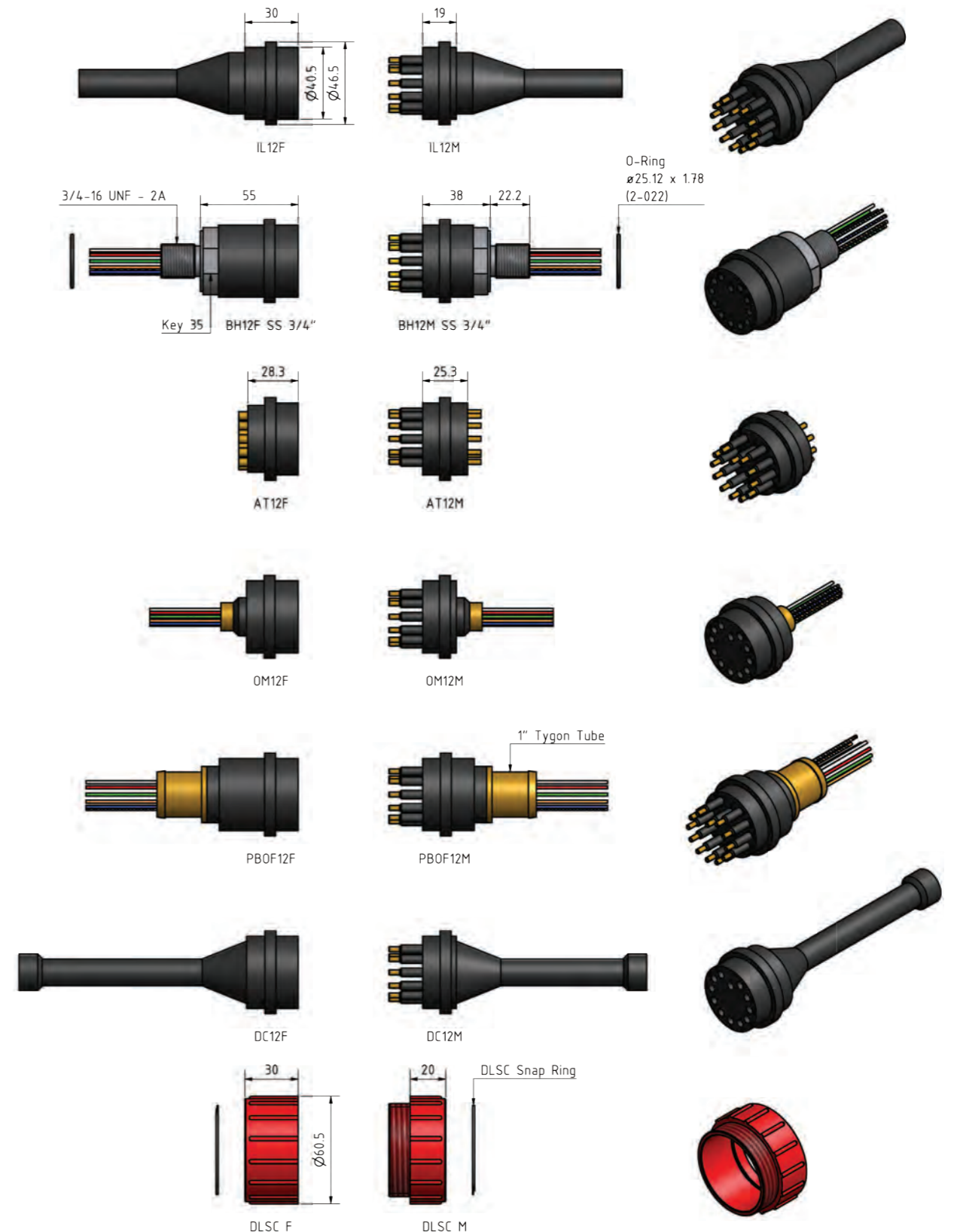
12 conductor cable 0.605", 15.4 mm
16 conductor cable 0.704", 17.9 mm
25 conductor cable 0.589", 15.0 mm

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)