

SubConn® Circular

12, 16 and 25 contacts

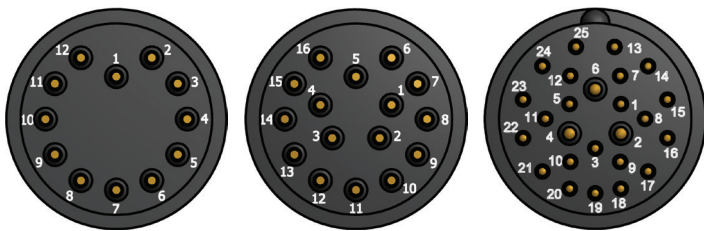
Connector specifications

Voltage rating	600 V DC/AC rms
12 and 16 contacts current rating	10 A per contact (max 60 A per connector)
25 contacts current rating	3 power contacts 10 A per contact, 22 signal contacts 5 A per contact (max 60 A per connector)
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
12 and 16 contacts connector design depth rating	1,400 bar, 20,000 psi
12, 16 and 25 contacts conn. qualified pressure tested	800 bar, 11,600 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
12 and 16 contacts	Gold plated brass UNS - C36000
25 contacts	Contact 2, 4 and 6: gold plated brass UNS - C36000 Contact 1, 3, 5, 7 - 25: gold plated beryllium copper
O-rings	Nitrile
Locking sleeves	POM or stainless steel
Snap rings	Stainless steel AISI 302
12 and 16 conductor inline cable (2 ft, 60 cm)	18 AWG, 0.82 mm ² chloroprene rubber
25 conductor inline cable (2 ft, 60 cm)	3 x 18 AWG, 0.82 mm ² , 22 x 20 AWG, 0.52 mm ² polyurethane
12 and 16 contact bulkhead and PBOF leads (1 ft, 30 cm)	18 AWG, 0.82 mm ² coloured PTFE
25 contact bulkhead and PBOF leads (1 ft, 30 cm)	3 x 18 AWG, 0.82 mm ² , 22 x 22 AWG, 0.33 mm ² white tagged PTFE
12 and 16 contact OM leads (3", 7 cm)	18 AWG, 0.82 mm ² coloured PTFE

Face view (male)



Inline cable colour code for 12 and 16 conductor

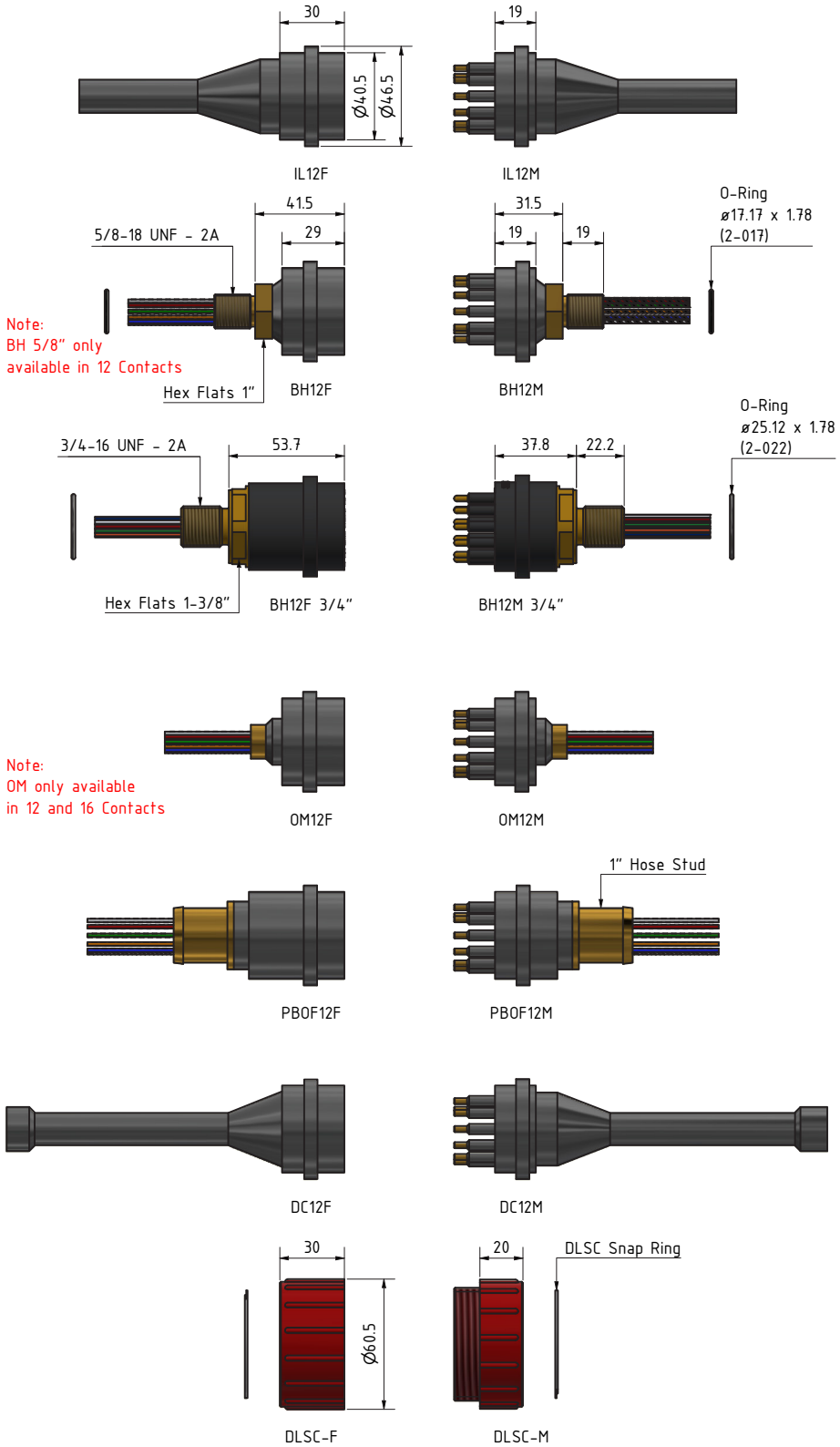
1 Black	5 Orange	9 Green/black	13 Red/white
2 White	6 Blue	10 Orange/black	14 Green/white
3 Red	7 White/black	11 Blue/black	15 Blue/white
4 Green	8 Red/black	12 Black/white	16 Black/red

Inline cable colour code for 25 conductor

1 Orange	6 Brown-18 AWG	11 Blue	16 White/grey	21 White/green/black
2 Black-18 AWG	7 Yellow	12 White/yellow	17 White/brown/black	22 White/blue/black
3 Grey	8 White/black	13 White/green	18 White/red/black	23 White/brown
4 Red-18 AWG	9 White	14 White/blue	19 White/orange/black	24 White/red
5 Green	10 Purple	15 White/purple	20 White/yellow/black	25 White/orange

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



Drawing information

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

Subject to change without notice. Visit MacArtney.com for latest revision