

SubConn® Circular

2, 3, 4 and 5 pins

Connector specifications

Voltage rating	600 V AC rms
2 pin current rating	10 A per pin (max 20 A per connector)
3, 4 and 5 pin connector rating	10 A per pin (max 30 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
Depth rating	1,400 bar, 20,000 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	Gold plated brass UNS - C36000
Location pin	Stainless steel AISI 303
O-rings	Nitrile
Locking sleeves	POM
Snap rings	Stainless steel AISI 302
2, 3 and 3 conductor inline cable (60 cm, 2 ft)	16 AWG 1.34 mm² chloroprene rubber
5 conductor inline cable (60 cm, 2 ft)	18 AWG 1.0 mm² chloroprene rubber
Bulkhead leads (30 cm, 1 ft)	18 AWG 1.0 mm² coloured PTFE

Face view (male)



Inline cable colour code

- 1 Black
 - 2 White
 - 3 Red
 - 4 Green
 - 5 Orange
- (3 pin cable colour code: 1 black, 2 white, 3 green)

Nominal cable outside diameter (OD)

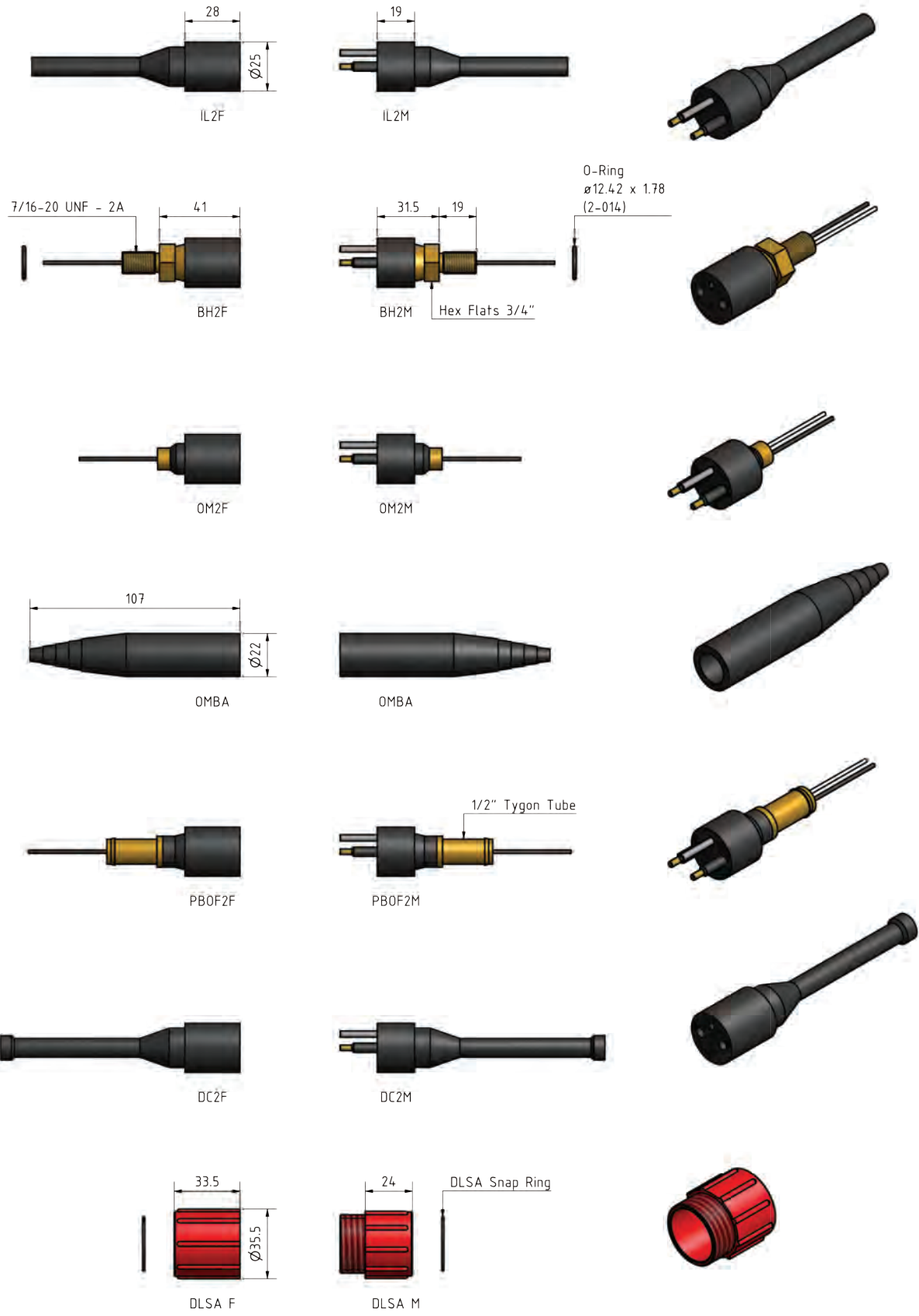
- 2 conductor cable 0.365", 9.3 mm
- 3 conductor cable 0.385", 9.8 mm
- 4 conductor cable 0.410", 10.4 mm
- 5 conductor cable 0.465", 11.8 mm

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)

SubConn® Circular

6, 8 and 10 pins

Connector specifications

Voltage rating	600 V AC rms
6, 8 and 10 pin current rating	10 A per pin (max 50 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
Depth rating	1,400 bar, 20,000 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	Gold plated brass UNS - C36000
Location pin	Stainless steel AISI 303
O-rings	Nitrile
Locking sleeves	POM
Snap rings	Stainless steel AISI 302
6 and 8 conductor inline cable (60 cm, 2 ft)	16 AWG 1.34 mm ² chloroprene rubber
10 conductor inline cable (60 cm, 2 ft)	18 AWG 1.0 mm ² chloroprene rubber
Bulkhead leads (30 cm, 1 ft)	18 AWG 1.0 mm ² PTFE

Face view (male)



Inline cable colour code

1	Black	7	White/black
2	White	8	Red/black
3	Red	9	Green/black
4	Green	10	Orange/black
5	Orange		
6	Blue		

Nominal cable outside diameter (OD)

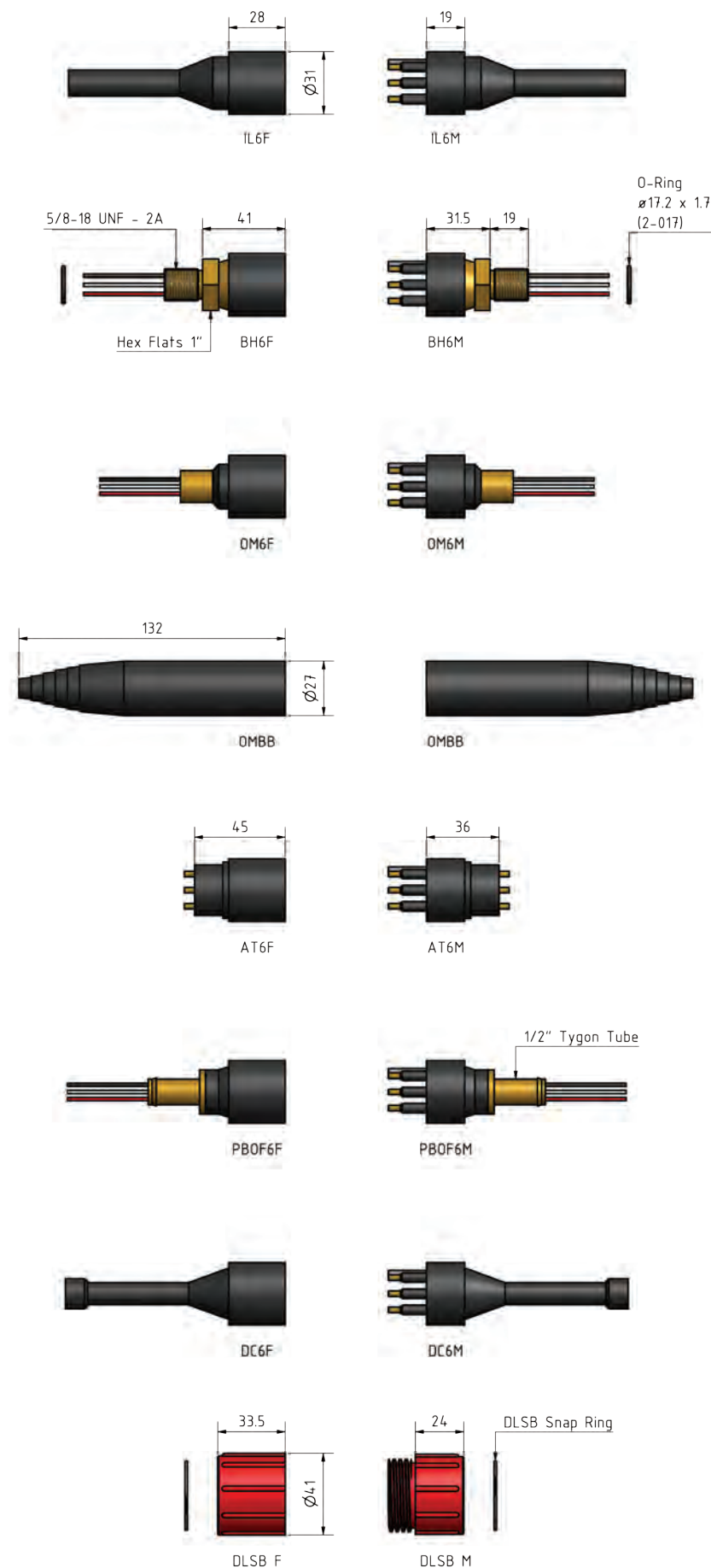
6 conductor cable 0.520", 13.2 mm
8 conductor cable 0.555", 14.1 mm
10 conductor cable 0.605", 15.4 mm

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)

SubConn® Circular

12, 16 and 25 pins

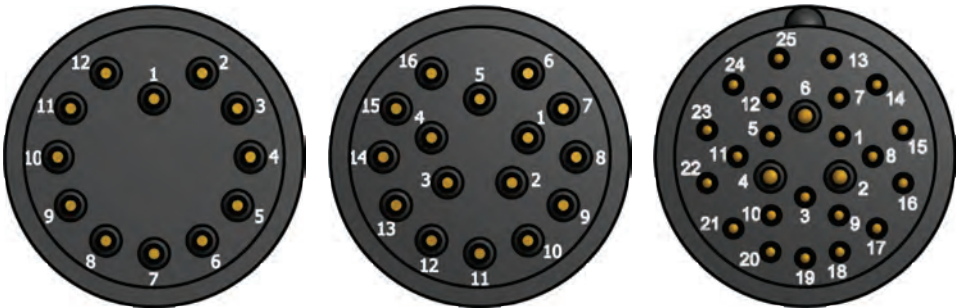
Connector specifications

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 mm² chloroprene rubber
25 conductor inline cable (60 cm, 2 ft)	3 x 18 AWG 1.0 mm², 22 x 20 AWG 0.5 mm² polyurethane
12 and 16 pin bulkhead leads (30 cm, 1 ft)	18 AWG 1.0 mm² coloured PTFE
25 pin bulkhead leads (30 cm, 1 ft)	3 x 18 AWG 1.0 mm², 22 x 22 AWG 0.32 mm² 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)