

SubConn® Circular

Micro 2, 3, 4, 5, 6 and 8 pins and G2 2, 3 and 4 pins

Connector specifications

Voltage rating	300 V AC rms
2, 3 and 4 pin connector current rating	10 A per pin (max 20 A per connector)
5, 6 and 8 pin connector current rating	5 A per pin (max 20 A per connector)
G2 2, 3 and 4 pin connector current rating	5 A per pin (max 20 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	700 bar, 10,000 psi
Depth rating PEEK	300 bar, 4,350 psi

Micro 5, 6 and 8 pins and G2 2, 3, 4 pins are available as water blocked (WB)

Material specifications

Connector body	Chloroprene rubber
Bulkhead body	Brass, stainless steel, titanium, anodised aluminium or PEEK
2, 3 and 4 pin contacts	Gold plated brass UNS - C36000
5, 6, 8 pin and G2 2, 3 and 4 pin contacts	Sockets in gold plated brass - UNS C36000
	Male pins in gold plated beryllium copper
Location pin	Stainless steel AISI 303
O-rings	Nitrile
Locking sleeves	ABS
Snap rings	Stainless steel AISI 302
2, 3 and 4 conductor inline cable (60 cm, 2 ft)	18 AWG 1.0 mm ² chloroprene rubber
5, 6 and 8 conductor inline cable (60 cm, 2 ft)	20 AWG 0.5 mm ² chloroprene rubber
G2 2, 3 and 4 conductor inline cable (60 cm, 2 ft)	20 AWG 0.5 mm ² chloroprene rubber
2, 3 and 4 bulkhead leads (30 cm, 1 ft)	20 AWG 0.5 mm ² coloured PTFE
5, 6 and 8 pin bulkhead leads (30 cm, 1 ft)	22 AWG 0.32 mm ² coloured PTFE
G2 2, 3 and 4 bulkhead leads (30 cm, 1 ft)	20 AWG 0.5 mm ² coloured PTFE

Face view (male)



G2



Inline cable colour code

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

(3 pin cable colour code: 1 black, 2 white, 3 green)
 (G2 3 pin cable colour code: 1 black, 2 white, 3 red)

Additional information

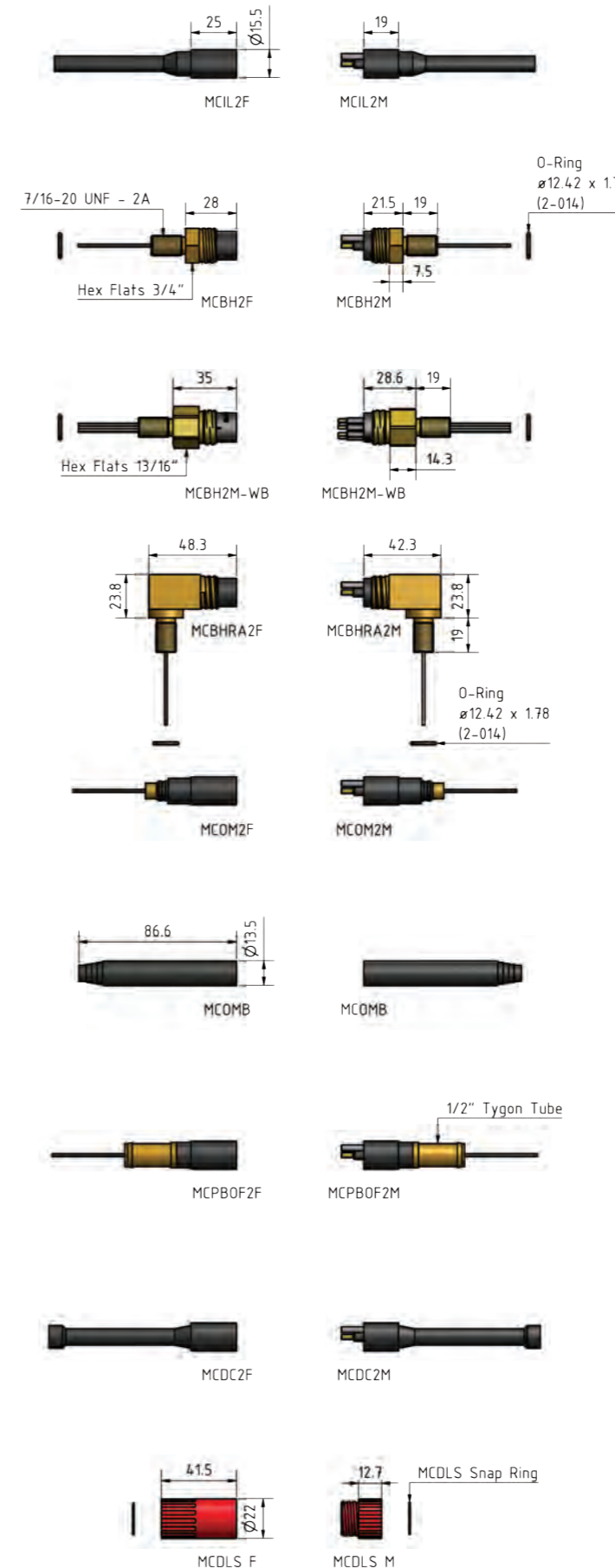
Nuts and washers can be supplied in stainless steel AISI 316 or brass UNS - C36000

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

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

Nominal cable outside diameter (OD)

2 conductor cable 0.340" 8.6 mm	G2 2 conductor cable 0.230" 6.1 mm
3 conductor cable 0.360" 9.1 mm	G2 3 conductor cable 0.250" 6.4 mm
4 conductor cable 0.385" 9.8 mm	G2 4 conductor cable 0.260" 6.6 mm
5 conductor cable 0.312" 7.9 mm	
6 conductor cable 0.315" 8.0 mm	
8 conductor cable 0.363" 9.2 mm	



Drawing information

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

SubConn® Circular Double O-ring

Micro 2, 3, 4, 5, 6 and 8 pins and G2 2, 3 and 4 pins

Connector specifications

Voltage rating	300 V AC rms
2, 3 and 4 pin connector current rating	10 A per pin (max 20 A per connector)
5, 6 and 8 pin connector current rating	5 A per pin (max 20 A per connector)
G2 2, 3 and 4 pin connector current rating	5 A per pin (max 20 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	700 bar, 10,000 psi
Depth rating PEEK	300 bar, 4,350 psi

Material specifications

Connector body	Chloroprene rubber
Bulkhead body	Titanium, anodised aluminium or stainless steel*
2, 3 and 4 pin contacts	Gold plated brass UNS - C36000
5, 6, 8 pin and G" 2, 3 and 4 pin contacts	Sockets in gold plated brass UNS C36000 Male pins in gold plated beryllium copper
Location pin	Stainless steel AISI 303
O-rings	Nitrile
Locking sleeves	ABS
Snap rings	Stainless steel AISI 302
2, 3 and 4 bulkhead leads (30 cm, 1 ft)	20 AWG 0.5 mm ² coloured PTFE
5, 6 and 8 pin bulkhead leads (30 cm, 1 ft)	22 AWG 0.32 mm ² coloured PTFE
G2 2, 3 and 4 bulkhead leads (30 cm, 1 ft)	20 AWG 0.5 mm ² coloured PTFE

Face view (male)



Inline cable colour code

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

(3 pin cable colour code: 1 black, 2 white, 3 green)
(G2 3 pin cable colour code: 1 black, 2 white, 3 red)

Nominal cable outside diameter (OD)

2 conductor cable 0.340" 8.6 mm	G2 2 conductor cable 0.230" 6.1 mm
3 conductor cable 0.360" 9.1 mm	G2 3 conductor cable 0.250" 6.4 mm
4 conductor cable 0.385" 9.8 mm	G2 4 conductor cable 0.260" 6.6 mm
5 conductor cable 0.312" 7.9 mm	
6 conductor cable 0.315" 8.0 mm	
8 conductor cable 0.363" 9.2 mm	

Additional information

* Stainless steel only in 22 mm hex size

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)

