

# SubConn® Micro Circular

## 2, 3, 4, 5, 6 and 8 contacts and G2 2, 3 and 4 contacts

### Connector specifications

Voltage rating	300 V AC rms
DC rating	85% of above AC rating
2, 3 and 4 contacts current rating	10 A per contact (max 20 A per connector)
5, 6 and 8 contacts current rating	5 A per contact (max 20 A per connector)
G2 2, 3 and 4 contacts current rating	5 A per contact (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	Brass, stainless steel, titanium, anodised aluminium or PEEK
2, 3 and 4 contacts	Gold plated brass UNS - C36000
5, 6, 8 contacts and G2 2, 3 and 4 contacts	Female 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 0.82 mm <sup>2</sup> chloroprene rubber
5, 6 and 8 conductor inline cable (60 cm, 2 ft)	20 AWG 0.52 mm <sup>2</sup> chloroprene rubber
G2 2, 3 and 4 conductor inline cable (60 cm, 2 ft)	20 AWG 0.52 mm <sup>2</sup> chloroprene rubber
2, 3 and 4 contacts bulkhead leads (30 cm, 1 ft)	20 AWG 0.52 mm <sup>2</sup> coloured PTFE
5, 6 and 8 contacts bulkhead leads (30 cm, 1 ft)	22 AWG 0.33 mm <sup>2</sup> coloured PTFE
G2 2, 3 and 4 contacts bulkhead leads (30 cm, 1 ft)	20 AWG 0.52 mm <sup>2</sup> coloured PTFE

### Face view (male)



### Inline cable colour code

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

(3 conductor cable colour code: 1 black, 2 white, 3 green)

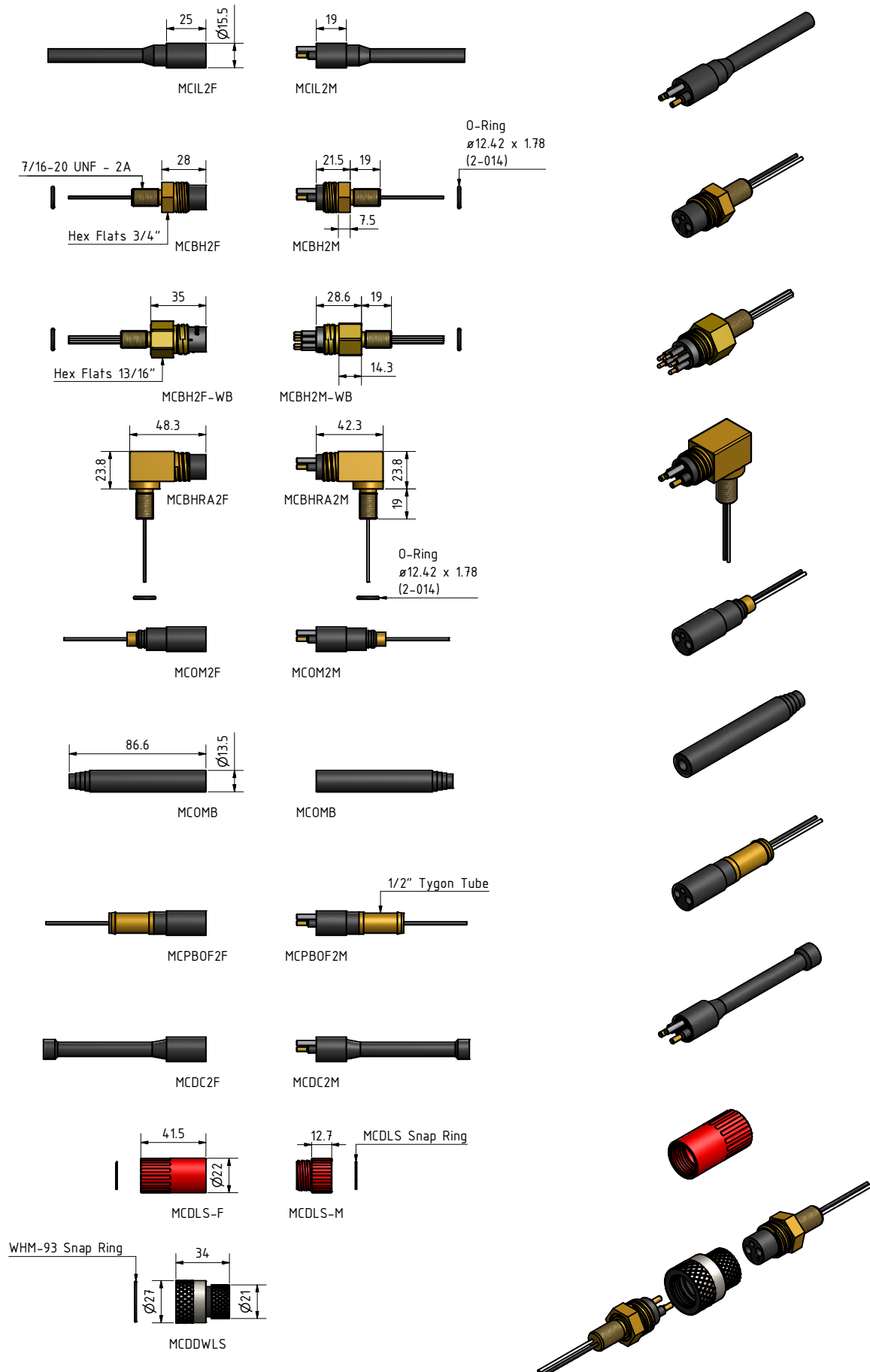
(G2 3 conductor cable colour code: 1 black, 2 white, 3 red)

### Nominal cable outside diameter (OD)

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

### Additional information

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



## Drawing information

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