

# SubConn® Micro Circular

## 5, 6, 8 and 9 contacts and G2 2, 3 and 4 contacts

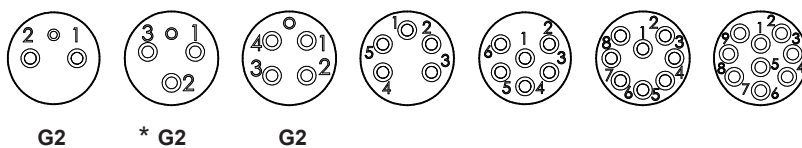
### Connector specifications

Voltage rating	300 V DC/AC rms
5, 6, 8 and 9 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 MΩ
Contact resistance	< 0.01 Ω
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
Qualified pressure tested	1,400 bar, 20,300 psi (mated) 800 bar, 11,600 psi (open face)
Depth rating PEEK	300 bar, 4,350 psi

### Material specifications

Connector body	Chloroprene rubber
Bulkhead body	Brass, stainless steel, titanium, anodised aluminium or PEEK
Bulkhead body (RA and WB)	Brass, stainless steel, titanium or anodised aluminium
5, 6, 8, and 9 contacts and G2 2, 3 and 4 contacts	Female sockets in gold plated brass - UNS C36000 Male contacts in gold plated beryllium copper
Location pin	Stainless steel AISI 303
O-rings	Nitrile
Locking sleeves	ABS or stainless steel
Snap rings	Stainless steel AISI 302
5, 6, 8 and 9 conductor inline cable (2 ft, 60 cm or 16 ft, 5 m)	20 AWG, 0.52 mm <sup>2</sup> synthetic rubber
G2 2, 3 and 4 conductor inline cable (2 ft, 60 cm)	20 AWG, 0.52 mm <sup>2</sup> synthetic rubber
5, 6, 8 and 9 contact bulkhead and PBOF leads (1 ft, 30 cm)	22 AWG, 0.33 mm <sup>2</sup> coloured PTFE
G2 2, 3 and 4 contact bulkhead and PBOF leads (1ft, 30 cm)	20 AWG, 0.52 mm <sup>2</sup> coloured PTFE
OM leads (3", 7 cm)	20 AWG, 0.52 mm <sup>2</sup> coloured PTFE

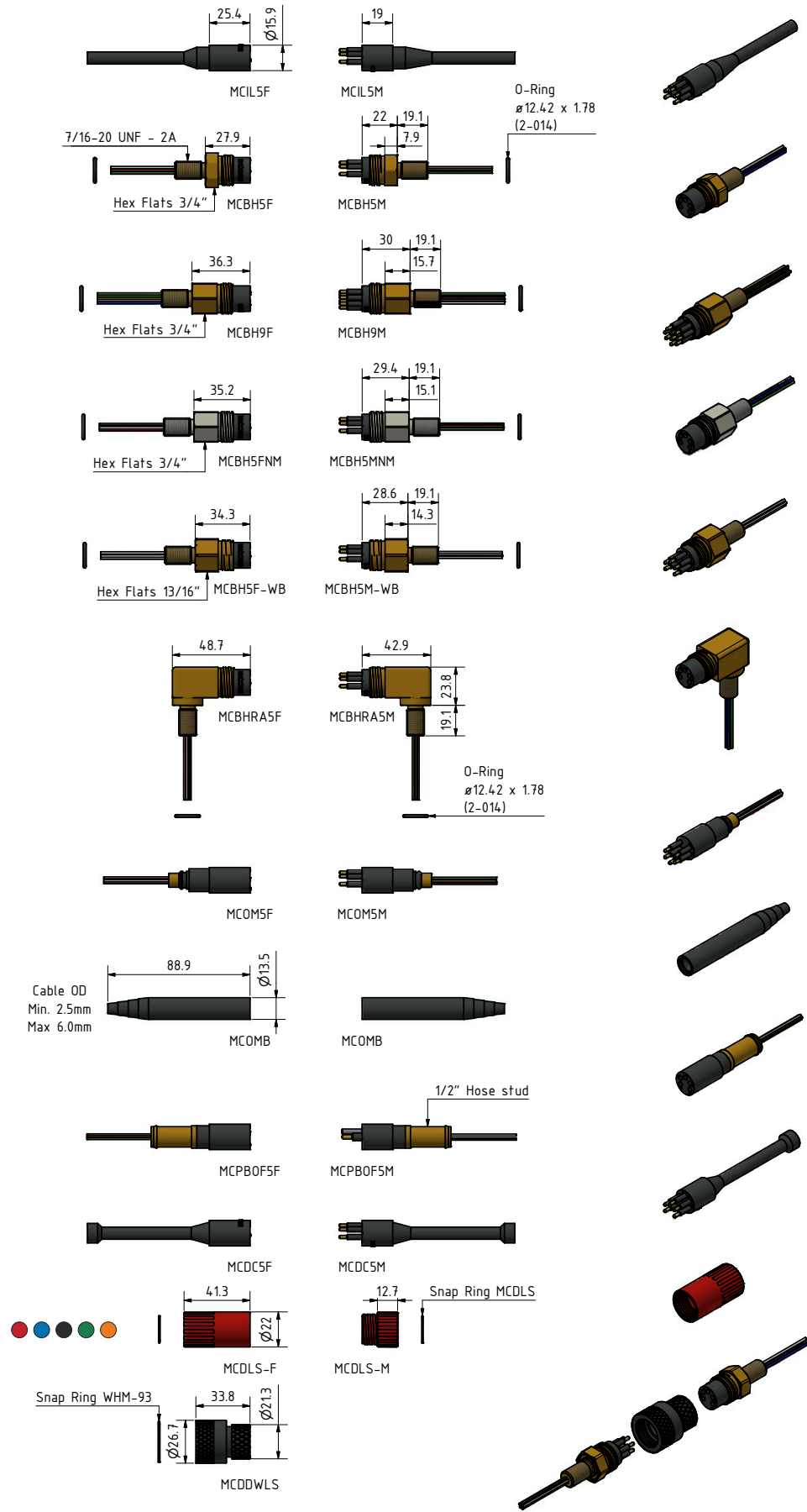
### Face view (male)



### Inline cable colour code

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

\* 3 conductor cable colour code: 1 black, 2 white, 3 green



**Drawing information**

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

Subject to change without notice. Visit [MacAirtney.com](http://MacAirtney.com) for latest revision

Introduction  
Circular  
Micro Circular  
Low Profile  
Micro Low Profile  
Metal Shell  
Power  
Ethernet  
Coax  
Nano  
Specials  
Penetrator  
Polyurethane cables  
Accessories  
Technical information