

# SubConn® Micro Circular

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

### Connector specifications

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| Voltage rating                        | 300 V DC/AC rms                           |
| 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               |
| 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 |
| PEEK bulkhead body                                 | PEEK-30                                                      |
| 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 or stainless steel                                       |
| 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 contact bulkhead leads (30 cm, 1 ft)    | 20 AWG 0.52 mm <sup>2</sup> coloured PTFE                    |
| 5, 6 and 8 contact bulkhead leads (30 cm, 1 ft)    | 22 AWG 0.33 mm <sup>2</sup> coloured PTFE                    |
| G2 2, 3 and 4 contact 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 | 3 Red   | 5 Orange | 7 White/black |
| 2 White | 4 Green | 6 Blue   | 8 Red/black   |

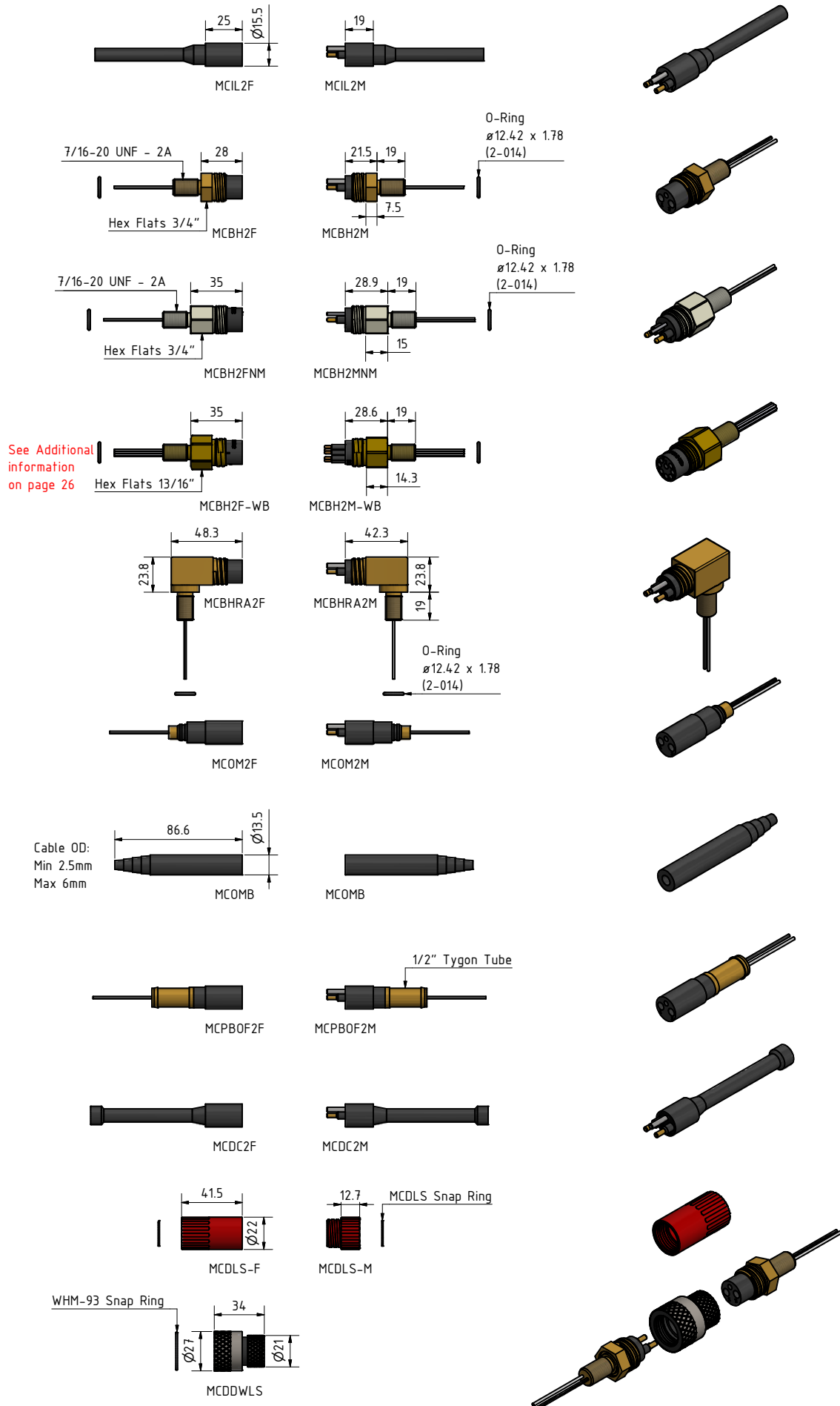
\*\* (3 conductor cable colour code: 1 black, 2 white, 3 green)

### 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 2, 3 and 4 contacts in G2 version have the same contact size as 5, 6 and 8 contacts and are available as water blocked (WB).



## Drawing information

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