

# 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 mm² chloroprene rubber
5, 6 and 8 conductor inline cable (60 cm, 2 ft)	20 AWG 0.5 mm² chloroprene rubber
G2 2, 3 and 4 conductor inline cable (60 cm, 2 ft)	20 AWG 0.5 mm² chloroprene rubber
2, 3 and 4 bulkhead leads (30 cm, 1 ft)	20 AWG 0.5 mm² coloured PTFE
5, 6 and 8 pin bulkhead leads (30 cm, 1 ft)	22 AWG 0.32 mm² coloured PTFE
G2 2, 3 and 4 bulkhead leads (30 cm, 1 ft)	20 AWG 0.5 mm² 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

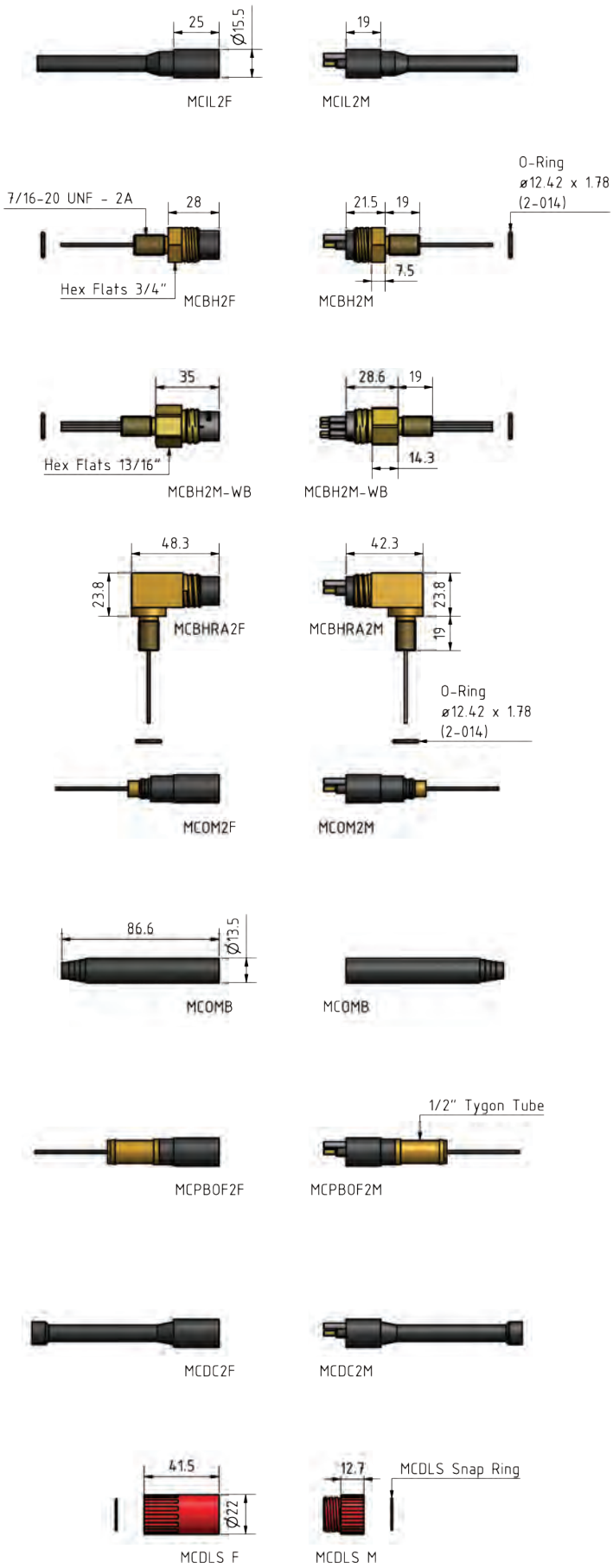
Nuts and washers can be supplied in stainless steel AISI 316 or brass UNS - C36000

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 mm² coloured PTFE
5, 6 and 8 pin bulkhead leads (30 cm, 1 ft)	22 AWG 0.32 mm² coloured PTFE
G2 2, 3 and 4 bulkhead leads (30 cm, 1 ft)	20 AWG 0.5 mm² 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)	

### 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)

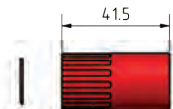
For SubConn® handling instructions - see "general technical information" (page 98)



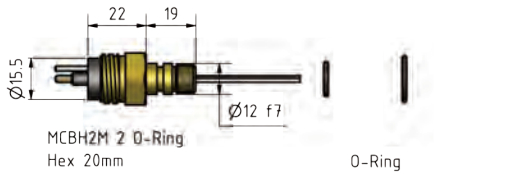
MCIL2M  
MCOM2M  
MCPB0F2M  
MDC2M



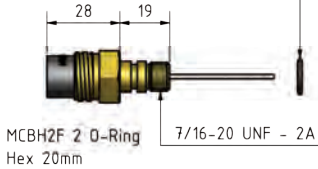
MCIL2F  
MCOM2F  
MCPB0F2F  
MDC2F



MCDLS F



MCBH2M 2 O-Ring  
Hex 20mm



MCBH2F 2 O-Ring  
Hex 20mm



MCBH2M 2 O-Ring  
Hex 22mm



MCBH2F 2 O-Ring  
Hex 22mm



O-Ring  
ø9.25 x 1.78  
(2-012)



O-Ring  
ø13.34 x 1.8  
(5-1014)



### Drawing information

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

# SubConn® Circular

## Micro 10, 12 and 16 pins

Connector specifications

Voltage rating	300 V AC rms
Current rating	5 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	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	Sockets in gold plated brass UNS - C36000
	Male pins in gold plated beryllium copper
O-rings	Nitrile
Locking sleeves	POM
Snap rings	Stainless steel AISI 302
Inline cable (60 cm, 2 ft)	20 AWG 0.5 mm² chloroprene rubber
Bulkhead leads (30 cm, 1 ft)	20 AWG 0.5 mm² coloured 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	

Nominal cable outside diameter (OD)

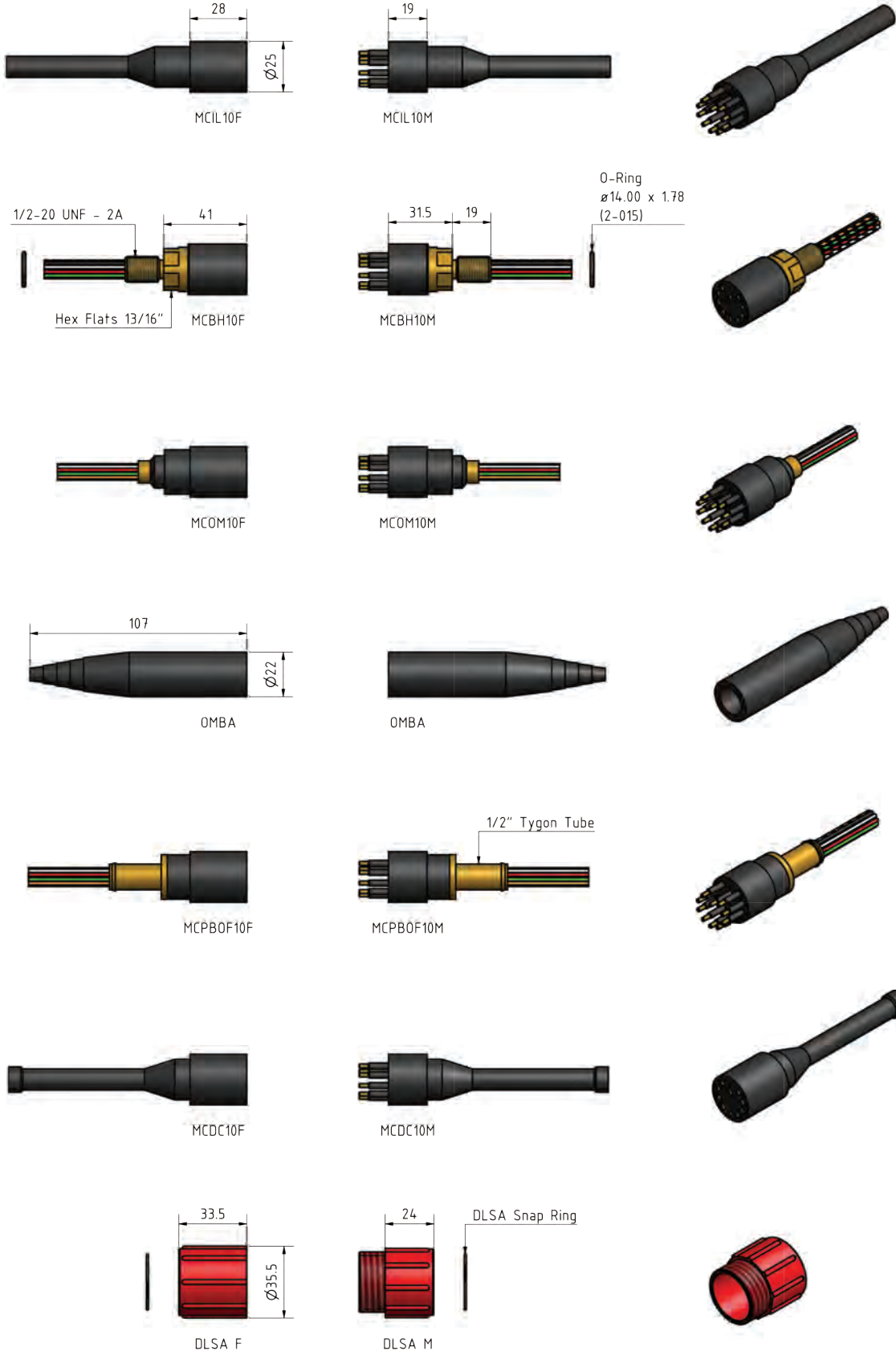
10 conductor cable 0.406", 10.3 mm
12 conductor cable 0.436", 11.0 mm
16 conductor cable 0.472", 12.0 mm

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)



# SubConn® Circular Double O-ring

## Micro 10, 12 and 16 pins

### Connector specifications

Voltage rating	300 V AC rms
Current rating	5 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	700 bar, 10,000 psi
Depth rating PEEK	300 bar, 4,350 psi

### Material specifications

Connector body	Chloroprene rubber
Bulkhead body	Titanium or anodised aluminium
Contacts	Sockets in gold plated brass UNS - C36000
	Male pins in gold plated beryllium copper
O-rings	Nitrile
Locking sleeves	POM
Snap rings	Stainless steel AISI 302
Bulkhead leads (30 cm, 1 ft)	20 AWG 0.5 mm² coloured 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	

### Nominal cable outside diameter (OD)

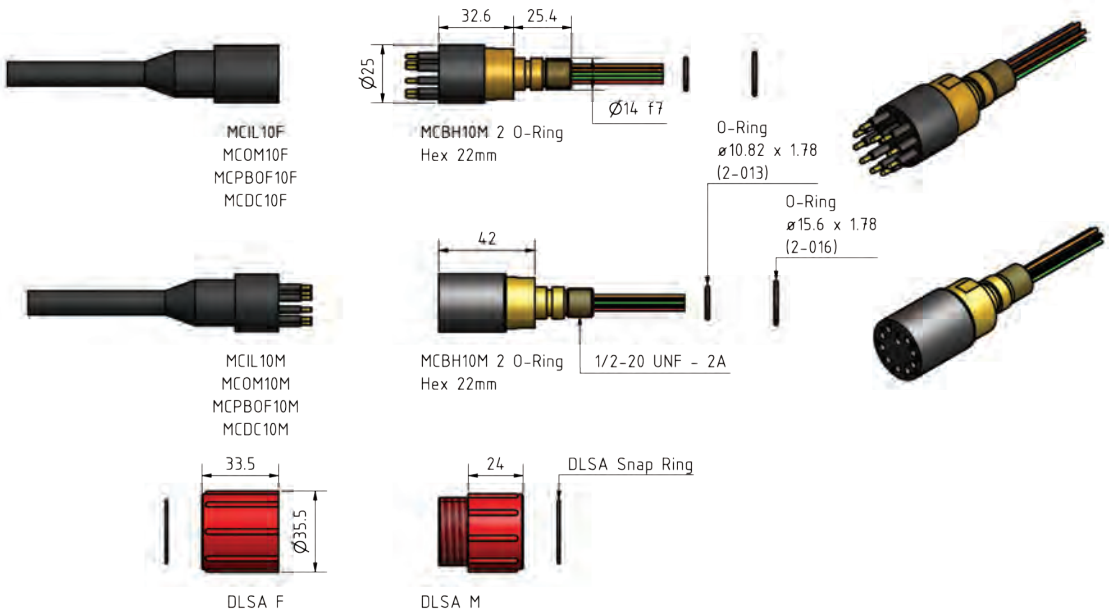
10 conductor cable 0.406", 10.3 mm
12 conductor cable 0.436", 11.0 mm
16 conductor cable 0.472", 12.0 mm

### Additional information

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

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### Drawing information

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