

SubConn® Circular

Mini 1 contact

Connector specifications

Voltage rating	600 V DC/AC rms
Current rating	10 A
Insulation resistance	> 200 Mohm
Contact resistance	< 0.01 ohm
Wet matings	> 500 (open face rated)
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
Design depth rating	1,400 bar, 20,000 psi
Qualified pressure tested	800 bar, 11,600 psi

Material specifications

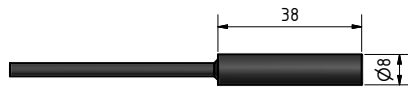
Connector body	Chloroprene rubber
Contacts	Gold plated brass UNS - C36000
Locking sleeves	POM
Inline cable (2 ft, 60 cm)	18 AWG, 0.82 mm ² synthetic rubber

Inline cable colour code

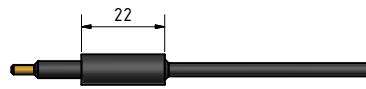
- 1 Black

Nominal cable outside diameter (OD)

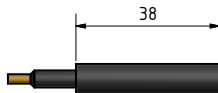
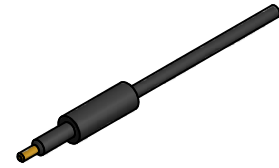
Synthetic rubber cable 0.142", 3.6 mm



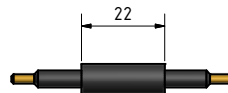
ILM1F



ILM1M



OMM1F



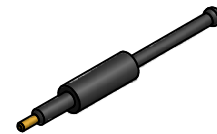
OMM1M



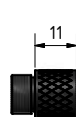
DCM1F



DCM1M



DLSM1-F



DLSM1-M



Drawing information

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

SubConn® Circular

2, 3, 4 and 5 contacts

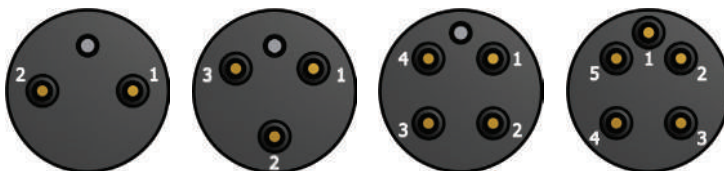
Connector specifications

Voltage rating	600 V DC/AC rms
2 contacts current rating	10 A per contact (max 20 A per connector)
3, 4 and 5 contacts current rating	10 A per contact (max 30 A per connector)
Insulation resistance	> 200 Mohm
Contact resistance	< 0.01 ohm
Wet matings	> 500 (open face rated)
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
Design depth rating	1,400 bar, 20,000 psi
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
Contacts	Gold plated brass UNS - C36000
Location pin	Stainless steel AISI 303
O-rings	Nitrile
Locking sleeves	POM or stainless steel
Snap rings	Stainless steel AISI 302
2, 3 and 4 conductor inline cable (2 ft, 60 cm)	16 AWG, 1.31 mm ² synthetic rubber
5 conductor inline cable (2 ft, 60 cm)	18 AWG, 0.82 mm ² synthetic rubber
Bulkhead and PBOF leads (1 ft, 30 cm)	18 AWG, 0.82 mm ² coloured PTFE
OM leads (3", 7 cm)	18 AWG, 0.82 mm ² coloured PTFE

Face view (male)



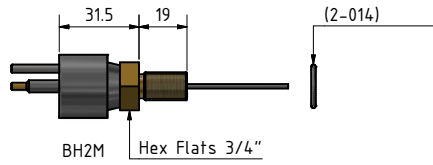
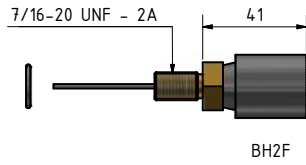
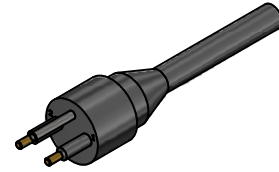
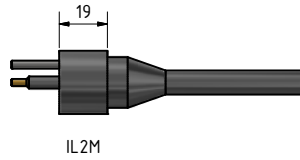
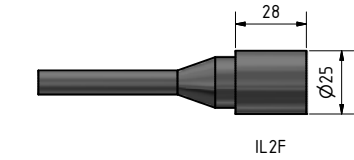
Inline cable colour code

1 Black	4 Green
2 White	5 Orange
3 Red	

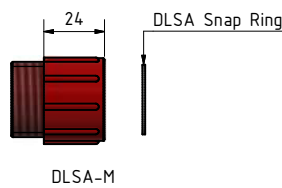
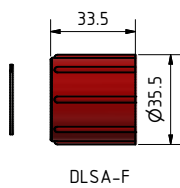
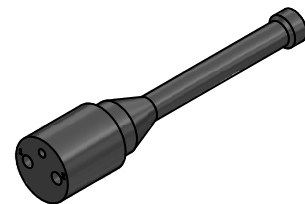
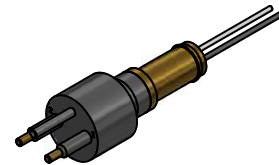
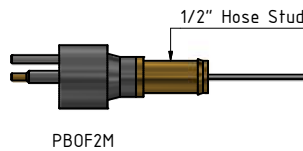
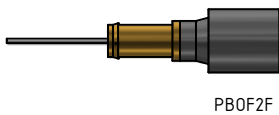
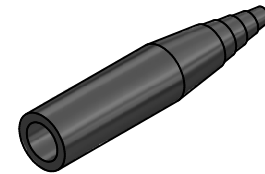
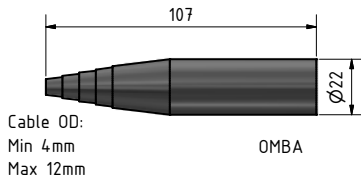
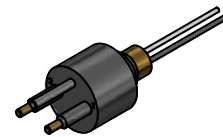
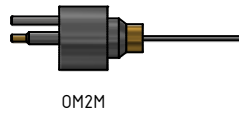
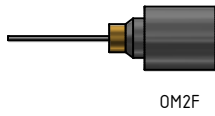
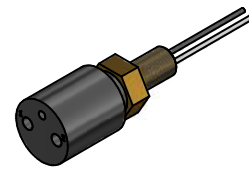
(3 conductor cable colour code: 1 black, 2 white, 3 green)

Nominal cable outside diameter (OD)

2 conductor cable 0.365", 9.3 mm
3 conductor cable 0.385", 9.8 mm
4 conductor cable 0.410", 10.4 mm
5 conductor cable 0.465", 11.8 mm



O-Ring
Ø12.42 x 1.78
(2-014)



Drawing information

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

SubConn® Circular Splitconn

2 contacts

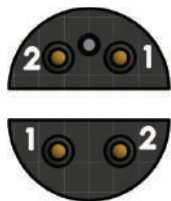
Connector specifications

Voltage rating	600 V DC/AC rms
2 contacts current rating	10 A per contact (max 20 A per connector)
Insulation resistance	> 200 Mohm
Contact resistance	< 0.01 ohm
Wet matings	> 500 (open face rated)
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
Design depth rating	1,400 bar, 20,000 psi
Qualified pressure tested	800 bar, 11,600 psi

Material specifications

Connector body	Chloroprene rubber
Contacts	Gold plated brass UNS - C36000
Location pin	Stainless steel AISI 303
Locking sleeves	POM
Snap rings	Stainless steel AISI 302
2 conductor inline cable (2 ft, 60 cm)	18 AWG, 0.82 mm ² synthetic rubber

Face view (male)



Inline cable colour code

- 1 Black
- 2 White

Nominal cable outside diameter (OD)

2 conductor cable 0.276", 7 mm

For more information
see page 12/13



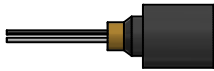
IL4F

For more information
see page 12/13

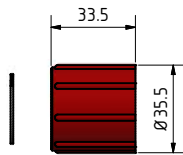


BH4F

For more information
see page 12/13



OM4F



DLSA-F



ILS2M-1



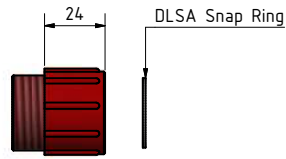
ILS2M



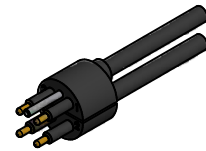
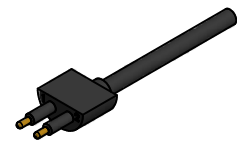
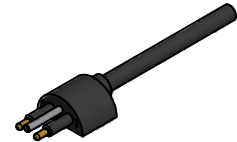
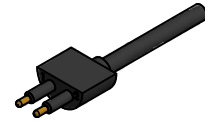
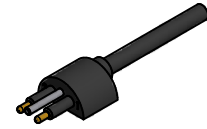
DCS2M-1



DCS2M



DLSA-M



Drawing information

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

SubConn® Circular

6, 8 and 10 contacts

Connector specifications

Voltage rating	600 V DC/AC rms
Current rating	10 A per contact (max 50 A per connector)
Insulation resistance	> 200 Mohm
Contact resistance	< 0.01 ohm
Wet matings	> 500 (open face rated)
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
Design depth rating	1,400 bar, 20,000 psi
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
Contacts	Gold plated brass UNS - C36000
Location pin	Stainless steel AISI 303
O-rings	Nitrile
Locking sleeves	POM or stainless steel
Snap rings	Stainless steel AISI 302
6 and 8 conductor inline cable (2 ft, 60 cm)	16 AWG, 1.31 mm ² synthetic rubber
10 conductor inline cable (2 ft, 60 cm)	18 AWG, 0.82 mm ² synthetic rubber
Bulkhead and PBOF leads (1 ft, 30 cm)	18 AWG, 0.82 mm ² coloured PTFE
OM leads (3", 7 cm)	18 AWG, 0.82 mm ² coloured PTFE

Face view (male)

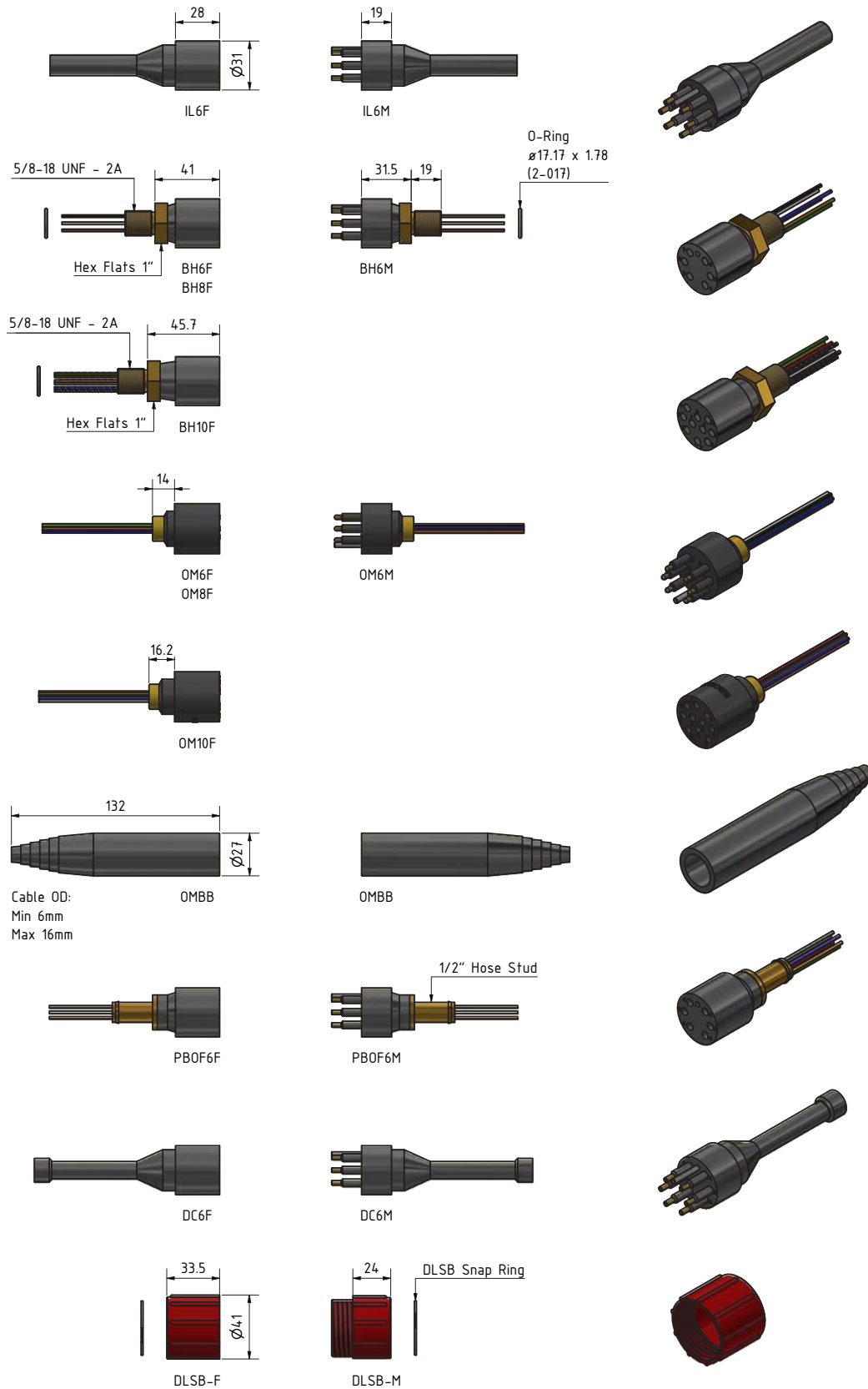


Inline cable colour code

1 Black	4 Green	7 White/black	10 Orange/black
2 White	5 Orange	8 Red/black	
3 Red	6 Blue	9 Green/black	

Nominal cable outside diameter (OD)

6 conductor cable 0.520", 13.2 mm
8 conductor cable 0.555", 14.1 mm
10 conductor cable 0.605", 15.4 mm



Drawing information

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

SubConn® Circular Right Angle

6, 8 and 10 contacts

Connector specifications

Voltage rating	600 V DC/AC rms
Current rating	10 A per contact (max 50 A per connector)
Insulation resistance	> 200 Mohm
Contact resistance	< 0.01 ohm
Wet matings	> 500 (open face rated)
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
Design depth rating	1,400 bar, 20,000 psi
Qualified pressure tested	800 bar, 11,600 psi

Material specifications

Connector body	Chloroprene rubber
Contacts	Brass UNS - C36000
Location pin	AISI 303
Locking sleeves	POM or stainless steel
Snap rings	AISI 302
6 and 8 conductor inline cable (2 ft, 60 cm)	16 AWG, 1.31 mm ² synthetic rubber
10 conductor inline cable (2 ft, 60 cm)	18 AWG, 0.82 mm ² synthetic rubber

Face view (male)

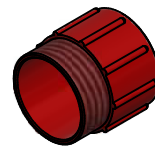
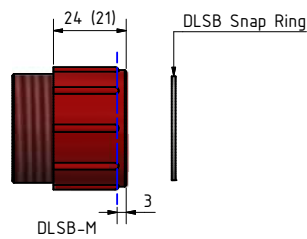
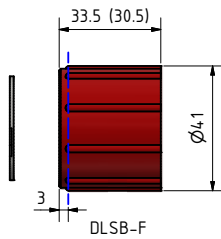
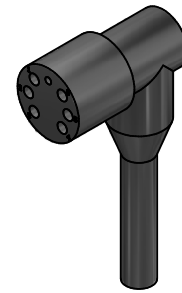
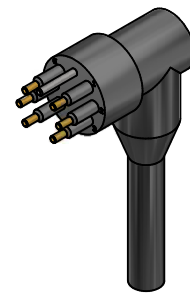
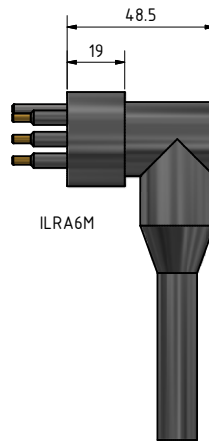
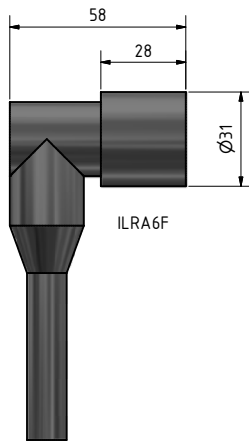


Inline cable colour code

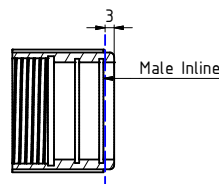
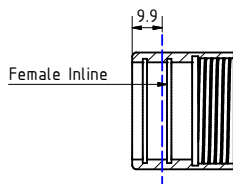
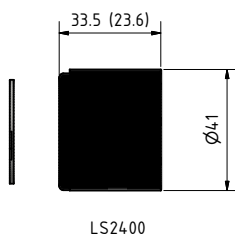
1 Black	3 Red	5 Orange	7 White/black	9 Green/black
2 White	4 Green	6 Blue	8 Red/black	10 Orange/black

Nominal cable outside diameter (OD)

6 conductor cable 0.520", 13.2 mm
8 conductor cable 0.555", 14.1 mm
10 conductor cable 0.605", 15.4 mm



Note:
Locking Sleeve has
to be modified to 30.5/21
to fit this RA connector



Note:
When used with Metal Shell
2400 Locking Sleeve has
to be modified to 23.6/30.5
to fit this RA connector

Drawing information

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

SubConn® Circular

12, 16 and 25 contacts

Connector specifications

Voltage rating	600 V DC/AC rms
12 and 16 contacts current rating	10 A per contact (max 60 A per connector)
25 contacts current rating	3 power contacts 10 A per contact, 22 signal contacts 5 A per contact (max 60 A per connector)
Insulation resistance	> 200 Mohm
Contact resistance	< 0.01 ohm
Wet matings	> 500 (open face rated)
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
12 and 16 contacts connector design depth rating	1,400 bar, 20,000 psi
12, 16 and 25 contacts conn. 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
12 and 16 contacts	Gold plated brass UNS - C36000
25 contacts	Contact 2, 4 and 6: gold plated brass UNS - C36000 Contact 1, 3, 5, 7 - 25: gold plated beryllium copper
O-rings	Nitrile
Locking sleeves	POM or stainless steel
Snap rings	Stainless steel AISI 302
12 and 16 conductor inline cable (2 ft, 60 cm)	18 AWG, 0.82 mm ² synthetic rubber
25 conductor inline cable (2 ft, 60 cm)	3 x 18 AWG, 0.82 mm ² , 22 x 20 AWG, 0.52 mm ² polyurethane
12 and 16 contact bulkhead and PBOF leads (1 ft, 30 cm)	18 AWG, 0.82 mm ² coloured PTFE
25 contact bulkhead and PBOF leads (1 ft, 30 cm)	3 x 18 AWG, 0.82 mm ² , 22 x 22 AWG, 0.33 mm ² white tagged PTFE
12 and 16 contact OM leads (3", 7 cm)	18 AWG, 0.82 mm ² coloured PTFE

Face view (male)



Inline cable colour code for 12 and 16 conductor

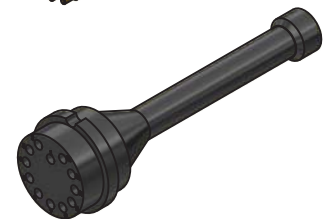
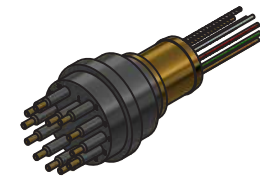
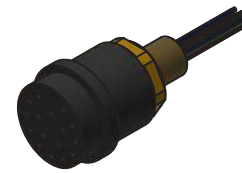
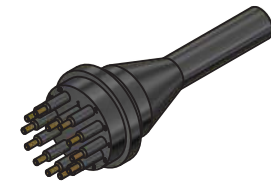
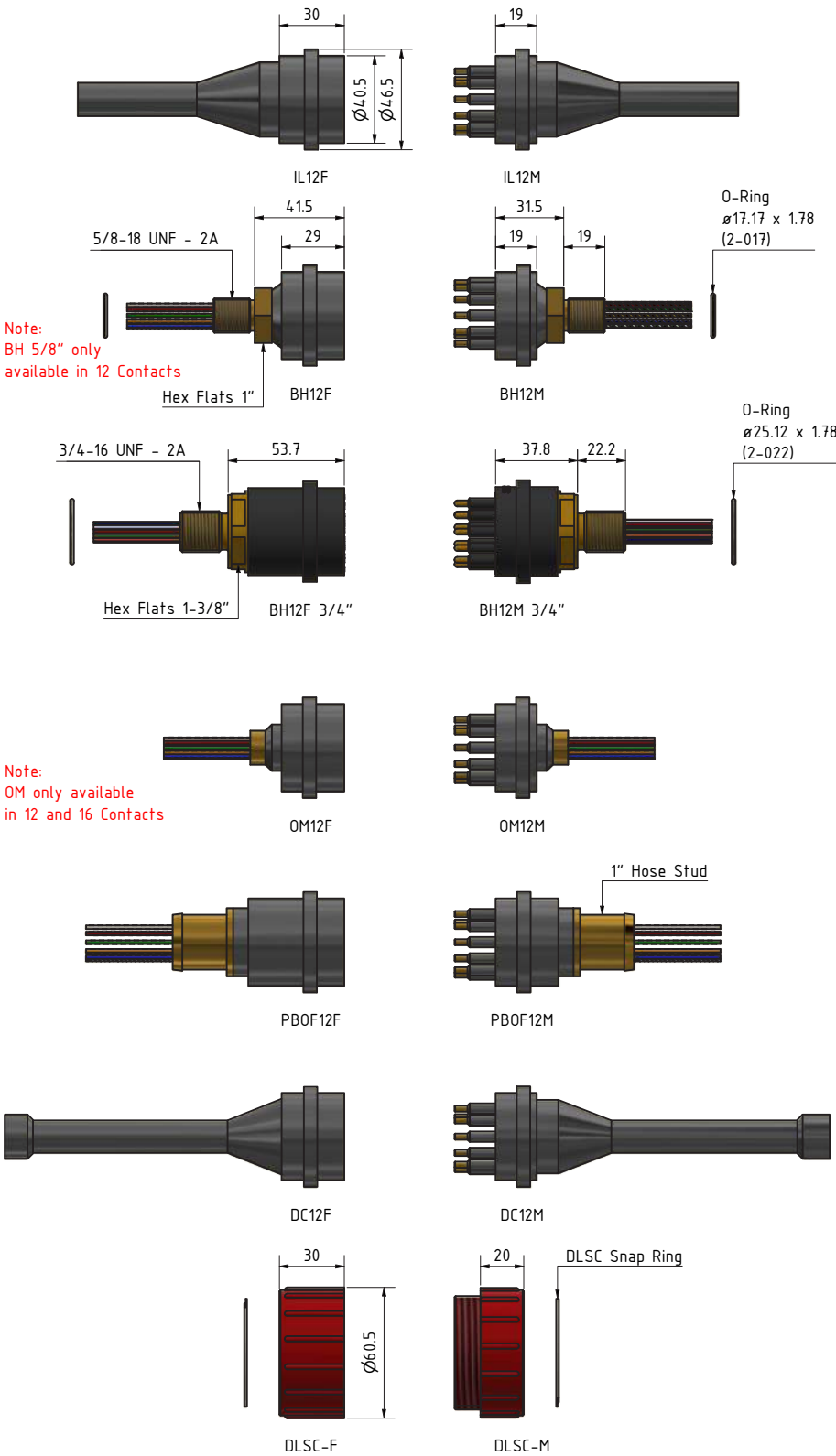
1 Black	5 Orange	9 Green/black	13 Red/white
2 White	6 Blue	10 Orange/black	14 Green/white
3 Red	7 White/black	11 Blue/black	15 Blue/white
4 Green	8 Red/black	12 Black/white	16 Black/red

Inline cable colour code for 25 conductor

1 Orange	6 Brown-18 AWG	11 Blue	16 White/grey	21 White/green/black
2 Black-18 AWG	7 Yellow	12 White/yellow	17 White/brown/black	22 White/blue/black
3 Grey	8 White/black	13 White/green	18 White/red/black	23 White/brown
4 Red-18 AWG	9 White	14 White/blue	19 White/orange/black	24 White/red
5 Green	10 Purple	15 White/purple	20 White/yellow/black	25 White/orange

Nominal cable outside diameter (OD)

12 conductor cable 0.605", 15.4 mm
16 conductor cable 0.704", 17.9 mm
25 conductor cable 0.589", 15.0 mm



Drawing information

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