

SubConn® Coax

Coax and Coax/Electric (50 and 75 ohm)

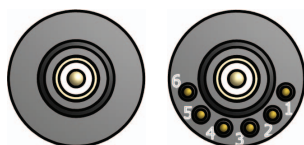
Connector specifications

Voltage rating on electric pins	300 V AC rms								
Current rating on electric pins	5 A per pin (max 20 A per connector)								
HD video (75 Ohm connector version)	HD-SDI SMPTE292M (1.485 Gbps), 1920x1080 60i								
50 ohm frequency*	0.1 GHz	0.3 GHz	0.5 GHz	0.7 GHz	0.9 GHz	1.1 GHz	1.3 GHz	1.5 GHz	
50 ohm attenuation*	1.4 dB	3.0 dB	4.1 dB	6.3 dB	8.0 dB	11.2 dB	15.9 dB	18.5 dB	
75 ohm frequency*	0.1 GHz	0.3 GHz	0.5 GHz	0.7 GHz	0.9 GHz	1.1 GHz	1.3 GHz	1.5 GHz	
75 ohm attenuation*	1.6 dB	3.4 dB	4.5 dB	6.9 dB	7.9 dB	13.7 dB	18.4 dB	22.5 dB	
Recommended max frequency for 50 and 75 ohm	1.5 GHz								
Insulation resistance	> 200 Mohm								
Contact resistance	< 0.01 ohm								
Wet matings	N/A (dry mating only)								
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	600 bar, 8,700 psi								

Material specifications

Connector body	Chloroprene rubber
Bulkhead body	Brass, stainless steel, titanium or anodised aluminium
Power Contacts	Sockets in gold plated brass UNS - C36000
	Male pins in gold plated beryllium copper
Coax contacts	Gold plated contacts
O-rings	Nitrile
Locking sleeves	POM
Snap rings	Stainless steel AISI 302
Inline cable (60 cm, 2 ft)	Polyurethane jacket cable with either 50 or 75 ohm coax and 6 x 20 AWG, 0.50 mm ² conductors
50 ohm bulkhead leads (100 cm 3.3 ft)	RG188 coax
75 ohm bulkhead leads (100 cm 3.3 ft)	RG179 coax
50 ohm, 6 pin bulkhead leads (100 cm 3.3 ft)	5 x 20 AWG, 0.50 mm ² coloured PTFE wires and RG188 coax
75 ohm, 6 pin bulkhead leads (100 cm 3.3 ft)	5 x 20 AWG, 0.50 mm ² coloured PTFE wires and RG179 coax

Face view (male)



Inline cable colour code

1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue

Nominal cable outside diameter (OD)

50 ohm coax polyurethane cable 0.290", 7.38 mm
50 ohm, 6 conductor polyurethane cable 0.385", 9.80 mm
75 ohm coax polyurethane cable 0.305", 7.75 mm
75 ohm, 6 conductor polyurethane cable 0.385", 9.80 mm

Additional information

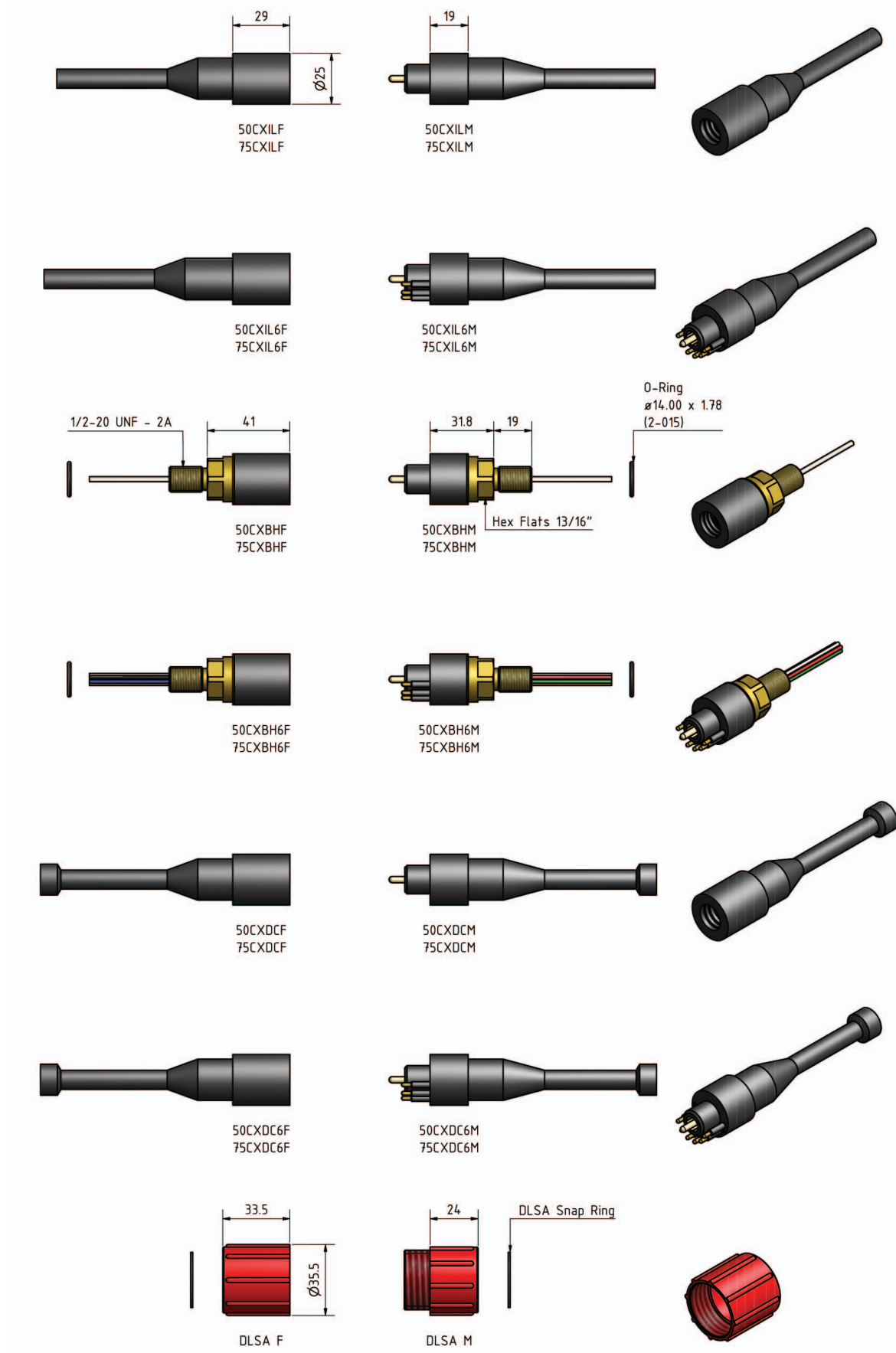
*All frequency and attenuation values are based on a 7 metre cable assembly test including 2 bulkhead connectors

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

Mounting screws can be supplied in stainless steel AISI 316

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)