

SubConn® Coax

Coax and Coax/Electric (50 and 75 ohms)

Connector specifications

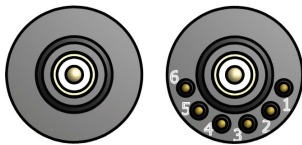
Voltage rating on electric contacts	300 V AC rms							
DC rating	85% of above AC rating							
Current rating on electric contacts	5 A per contact (max 20 A per connector)							
HD video (75 ohms connector version)	HD-SDI SMPTE292M (1.485 Gbps), 1920x1080 60i							
50 ohm frequency*	0.1 GHz	0.3 GHz	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							

SubConn® Coax connectors are dry mate only, and cannot take open face pressure. Locking sleeves are required.

Material specifications

Connector body	Chloroprene rubber
Bulkhead body	Brass, stainless steel, titanium or anodised aluminium
Power contacts	Female 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)	PUR jacket cable with either 50 or 75 ohm coax and 6 x 20 AWG, 0.52 mm ² conductors RG188 coax RG179 coax
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 contacts bulkhead leads (100 cm 3.3 ft)	5 x 20 AWG, 0.52 mm ² coloured PTFE wires and RG188 coax
75 ohm 6 contacts bulkhead leads (100 cm 3.3 ft)	5 x 20 AWG, 0.52 mm ² coloured PTFE wires and RG179 coax

Face view (male)



Inline cable colour code

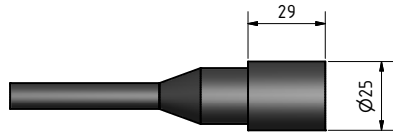
1 Black	4 Green
2 White	5 Orange
3 Red	6 Blue

Nominal cable outside diameter (OD)

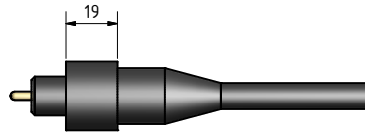
50 ohm coax PUR cable 0.290", 7.38 mm	75 ohm coax PUR cable 0.305", 7.75 mm
50 ohm, 6 conductor PUR cable 0.385", 9.80 mm	75 ohm, 6 conductor PUR cable 0.385", 9.80 mm

Additional information

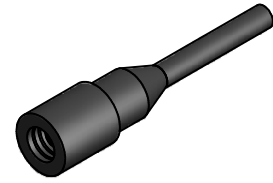
*All frequency and attenuation values are based on a 7 metre cable assembly test including 2 bulkhead connectors.



50CXILF
75CXILF



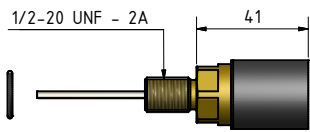
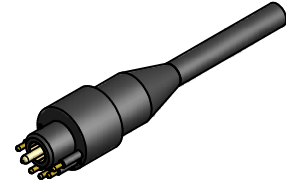
50CXILM
75CXILM



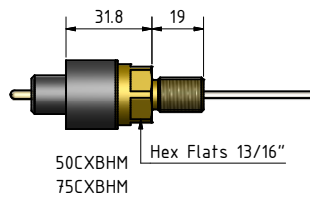
50CXIL6F
75CXIL6F



50CXIL6M
75CXIL6M

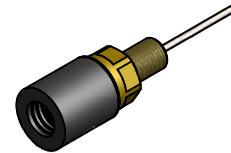


50CXBHF
75CXBHF



50CXBHM
75CXBHM

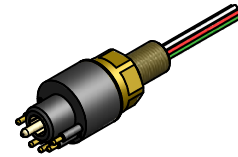
O-Ring
Ø14.00 x 1.78
(2-015)



50CXBH6F
75CXBH6F



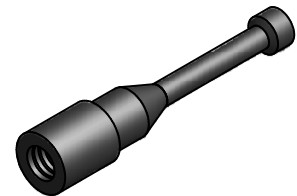
50CXBH6M
75CXBH6M



CXDCF



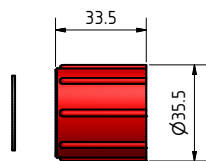
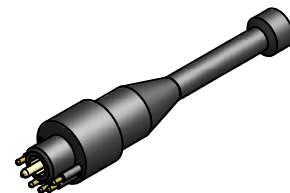
CXDCM



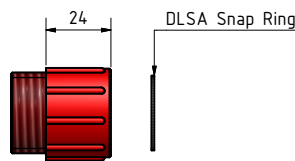
CXDC6F



CXDC6M

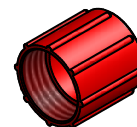


DLSA-F



DLSA-M

DLSA Snap Ring



Drawing information

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