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## 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	

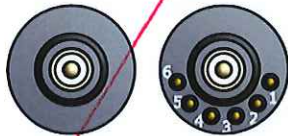
Recommended max frequency for 50 and 75 ohm	1.5 GHz
Insulation resistance	> 200 Mohm
Contact resistance	< 0.01 ohm
Wet matings	N/A (dry mating only)
Temperature rating (water)	- 4 to 60°C, 25 to 140°F
Temperature rating (air)	- 40 to 60°C, - 40 to 140°F
Storage temperature rating	- 40 to 60°C, - 40 to 140°F
Depth rating	600 bar, 8,700 psl

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 <sup>2</sup> 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 contacts bulkhead leads (100 cm 3.3 ft)	5 x 20 AWG, 0.52 mm <sup>2</sup> coloured PTFE wires and RG188 coax
75 ohm 6 contacts bulkhead leads (100 cm 3.3 ft)	5 x 20 AWG, 0.52 mm <sup>2</sup> coloured PTFE wires and RG179 coax

#### Face view (male)



#### Inline cable colour code

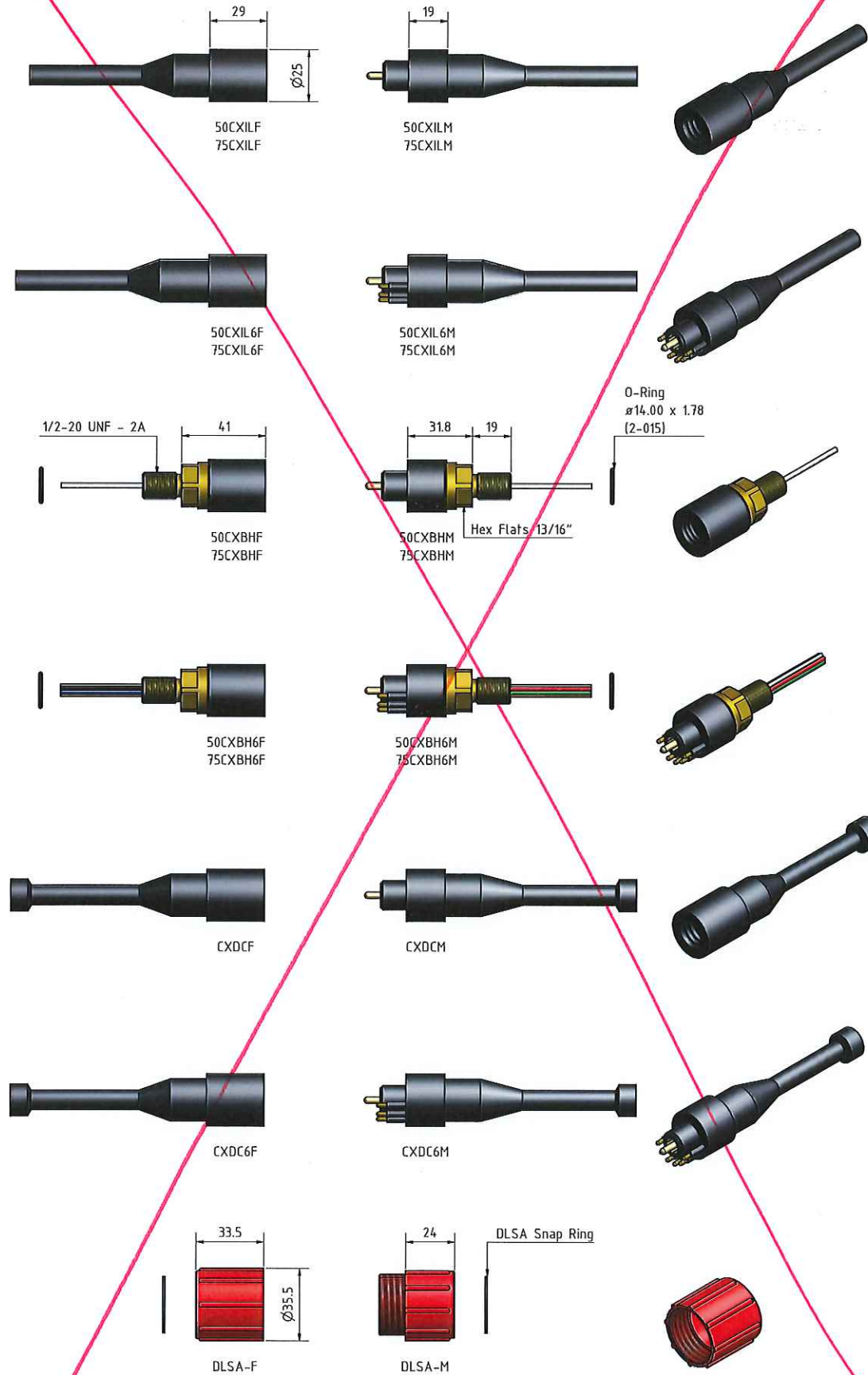
1 Black	4 Green
2 White	5 Orange
3 Red	6 Blue

#### 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.



**Drawing information**

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