SubConn® HF Coax 50 ohm Coax and Coax/Electric

Connector specifications

Voltage rating on electric contacts 300 V DC/AC rms

Current rating on electric contacts 5 A per contact (max 20 A per connector)

Voltage rating on coax insert only 800 V, max nominal voltage acc. to MIL

Frequency* 0.3 GHz 0.6 GHz 0.9 GHz 1.2 GHz 1.5 GHz 1.8 GHz 2.1 GHz 2.4 GHz 2.7 GHz 3.0 GHz Attenuation* 5.0 dB 7.7 dB 9.9 dB 11.6 dB 13.4 dB 15.3 dB 17.3 dB 19.3 dB 21 dB 22.5 dB

Recommended max frequency 3.0 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

Qualified pressure tested

600 bar, 8,700 psi

Material specifications

Connector body Chloroprene rubber
Bulkhead body Brass, stainless stee

Bulkhead body

Power contacts

Brass, stainless steel, titanium or anodised aluminium

Female sockets in gold plated brass UNS - C36000

Male pins in gold plated beryllium copper

Gold plated contacts

Nitrile

POM or stainless steel Stainless steel AISI 302

PUR jacket cable with RG58 coax or

RG58 coax and 6 x 20 AWG, 0.52 mm² conductors

RG316 coax

RG316 coax and 6 x 20 AWG, 0.52 mm² coloured PTFE

Coax contacts

O-rings Locking sleeves

Snap rings Inline cable (2 ft, 60 cm)

Coax bulkhead leads (3.3 ft, 100 cm)

Coax and 6-contact bulkhead leads (3.3 ft, 100 cm)

Face view (male)





Inline cable colour code

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

Nominal cable outside diameter (OD)

RG58 PUR cable 0.220", 5.59 mm

RG58 and 6-conductor PUR cable 0.382", 9.70 mm

Additional information

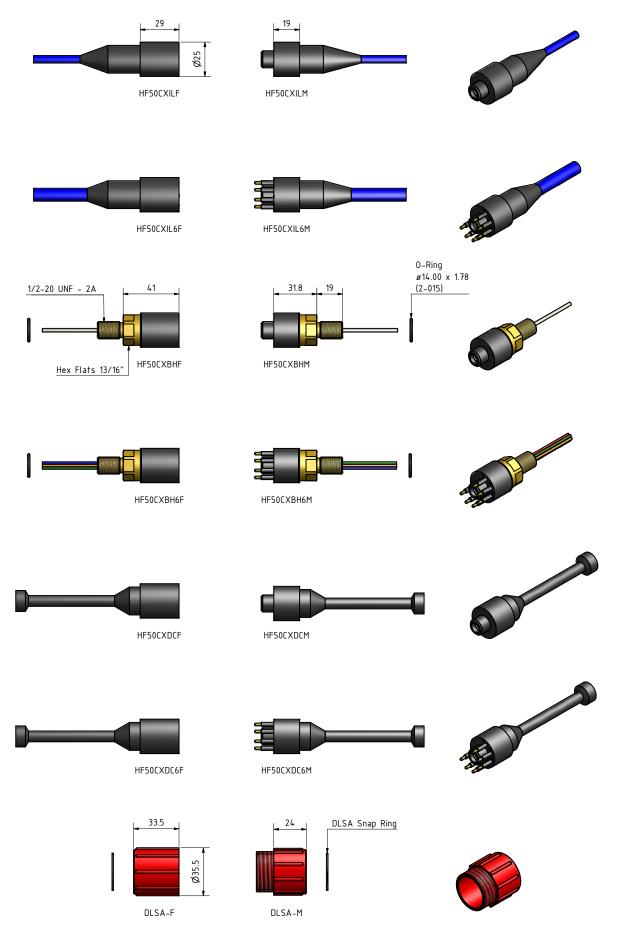
*All frequency and attenuation values are based on a 10 meter cable assembly test including 2 bulkhead connectors (50 ohm). BNC connector for RG316 coax leads use Amphenol 031-315-RFX or equivalent. BNC connector for RG58 coax cable use Amphenol 112116 or equivalent.

SubConn® Coax connectors are dry mate only, and cannot take open face pressure. Locking sleeves are required. No greasing in the actual coax part. Minimum bending radius on inline cable is 100 mm.

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Accessories





Drawing information

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

