# SubConn® HF Coax 75 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 930 V, max nominal voltage acc. to MIL

Frequency\* 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\* 6.3 dB 7.4 dB 8.6 dB 9.9 dB 11.3 dB 12.8 dB 14.5 dB 15.7 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
Bulkhead body
Power contacts

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)

Chloroprene rubber

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 Mini-RG59 coax or

Mini-RG59 coax and 6 x 20 AWG, 0.52 mm<sup>2</sup> conductors

RG179 coax

RG179 coax and 6 x 20 AWG, 0.52 mm<sup>2</sup> coloured PTFE

## Face view (male)





### Inline cable colour code

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

#### Nominal cable outside diameter (OD)

Mini-RG59 PUR cable 0.220", 5.59 mm

Mini-RG59 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 (75 ohm). BNC connector for RG179 coax leads use Amphenol 112133 or equivalent. BNC connector for Mini-RG59 coax cable use Belden 1855ABHD3 or equivalent.

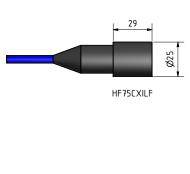
SubConn® Coax connectors are dry mate only, and cannot take open face pressure.

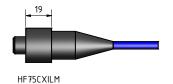
Locking sleeves are required. No greasing in the actual coax part.

Minimum bending radius on inline cable is 100 mm.

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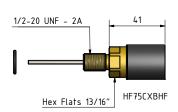


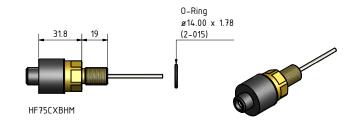


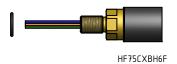


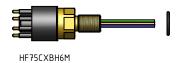
















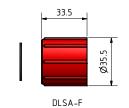


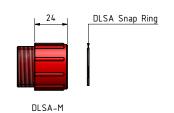














## **Drawing information**

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

