

SubConn® HF Coax

50 ohm Coax

Connector specifications

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 steel, titanium or anodised aluminium

Coax contacts

Gold plated contacts

O-rings

Nitrile

Locking sleeves

POM or stainless steel

Snap rings

Stainless steel AISI 302

Inline cable (2 ft, 60 cm)

PUR jacket cable with RG58 coax

Coax bulkhead leads (3.3 ft, 100 cm)

RG316 coax

Face view (male)



Nominal cable outside diameter (OD)

RG58 PUR cable 0.220", 5.59 mm

Additional information

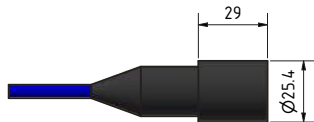
*All frequency and attenuation values are based on a 10 meter cable assembly test including 2 bulkhead connectors (50 ohm).

BNC connector for RG316 coax leads use Amphenol 031-315-RFX or equivalent.

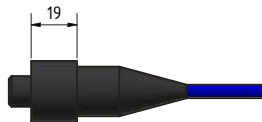
BNC connector for RG58 coax cable use Amphenol 112116 or equivalent.

Recommended SMB termination for Coax, see pages 128-129

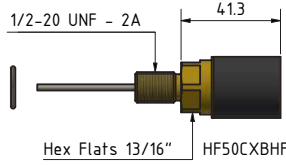
SubConn® Coax connectors are designed for dry mating only. The Coax series is not suitable for open-face pressure or waterblock applications. Locking sleeves are required. Avoid greasing the actual coax part. The minimum bending radius for inline cables is 100 mm.



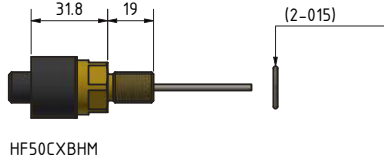
HF50CXILF



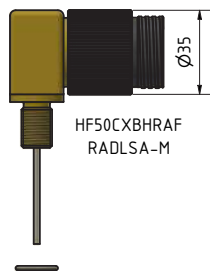
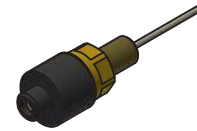
HF50CXILM



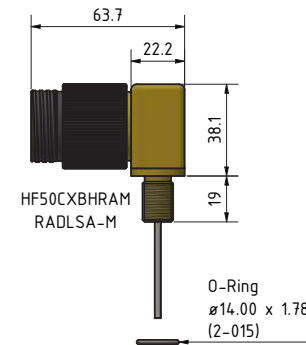
HF50CXBHF



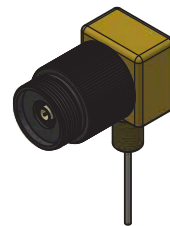
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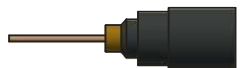
HF50CXBHRAF
RADLSA-M



HF50CXBHRAM
RADLSA-M



Note:
RA body are not available
in PEEK.
RADLSA-M locking sleeve
in colour black only
(female version not available)



HF50CXOMF



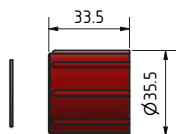
HF50CXOMM



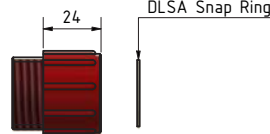
HF50CXDCF



HF50CXDCM



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)

SubConn® HF Coax

50 ohm 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	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 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 or stainless steel
Snap rings	Stainless steel AISI 302
Inline cable (2 ft, 60 cm)	RG58 coax and 6 x 20 AWG, 0.52 mm ² conductors
Coax and 6-contact bulkhead leads (3.3 ft, 100 cm)	RG316 coax and 6 x 20 AWG, 0.52 mm ² 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)

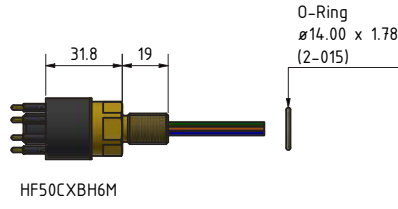
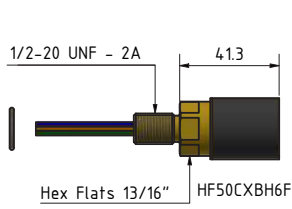
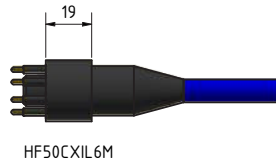
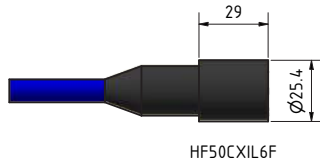
RG58 and 6-conductor PUR cable 0.382", 9.70 mm

Additional information

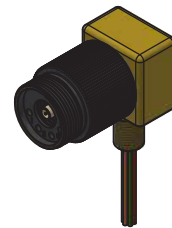
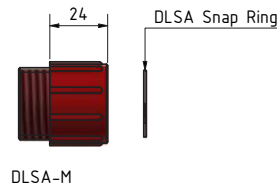
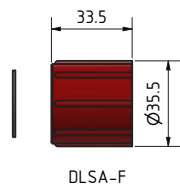
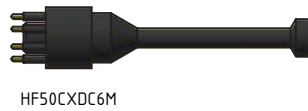
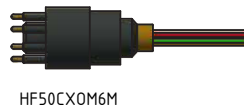
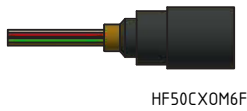
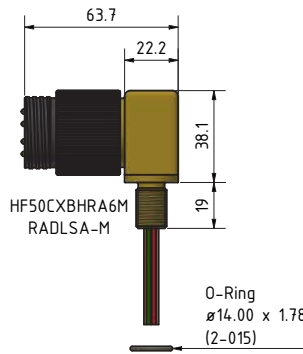
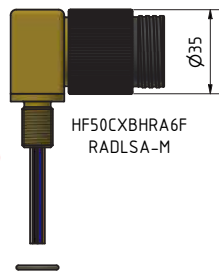
*All frequency and attenuation values are based on a 10 meter cable assembly test including 2 bulkhead connectors (50 ohm).
 BNC connector for RG316 coax leads use Amphenol 031-315-RFX or equivalent.
 BNC connector for RG58 coax cable use Amphenol 112116 or equivalent.

Recommended SMB termination for Coax, see pages 128-129

SubConn® Coax connectors are designed for dry mating only. The Coax series is not suitable for open-face pressure or waterblock applications. Locking sleeves are required. Avoid greasing the actual coax part.
 The minimum bending radius for inline cables is 100 mm.



Note:
RA body are not available
in PEEK.
RADLSA-M locking sleeve
in colour black only
(female version not available)



Drawing information

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

SubConn® HF Coax

75 ohm Coax

Connector specifications

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

Chloroprene rubber

Bulkhead body

Brass, stainless steel, titanium or anodised aluminium

Coax contacts

Gold plated contacts

O-rings

Nitrile

Locking sleeves

POM or stainless steel

Snap rings

Stainless steel AISI 302

Inline cable (2 ft, 60 cm)

PUR jacket cable with Mini-RG59 coax

Coax bulkhead leads (3.3 ft, 100 cm)

RG179 coax

Face view (male)



Nominal cable outside diameter (OD)

Mini-RG59 PUR cable 0.220", 5.59 mm

Additional information

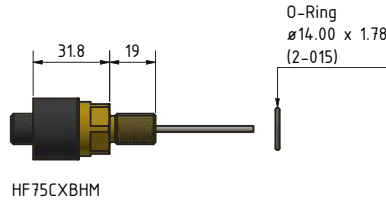
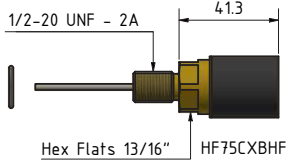
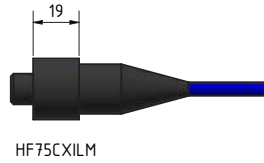
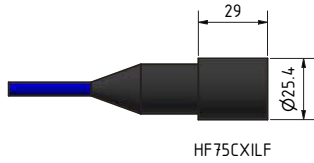
*All frequency and attenuation values are based on a 10 meter cable assembly test including 2 bulkhead connectors (75 ohm).

BNC connector for RG179 coax leads use Amphenol 112133 or equivalent.

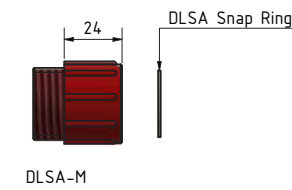
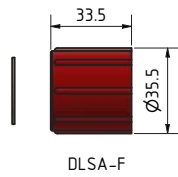
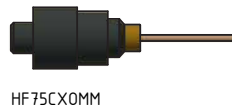
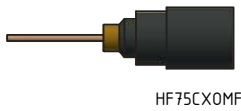
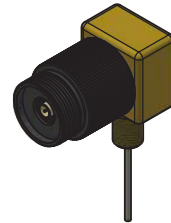
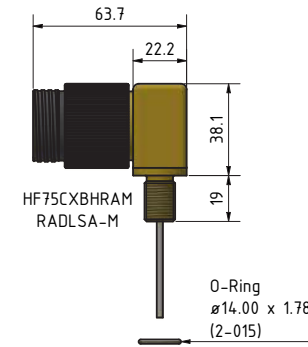
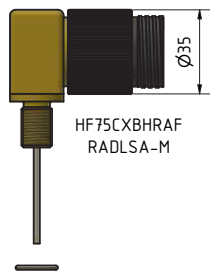
BNC connector for Mini-RG59 coax cable use Belden 1855ABHD3 or equivalent.

Recommended SMB termination for Coax, see pages 128-129

SubConn® Coax connectors are designed for dry mating only. The Coax series is not suitable for open-face pressure or waterblock applications. Locking sleeves are required. Avoid greasing the actual coax part. The minimum bending radius for inline cables is 100 mm.



Note:
RA body are not available
in PEEK.
RADLSA-M locking sleeve
in colour black only
(female version not available)



Drawing information

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

SubConn® HF Coax

75 ohm 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	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 or stainless steel
Snap rings	Stainless steel AISI 302
Inline cable (2 ft, 60 cm)	Mini-RG59 coax and 6 x 20 AWG, 0.52 mm ² conductors
Coax and 6-contact bulkhead leads (3.3 ft, 100 cm)	RG179 coax and 6 x 20 AWG, 0.52 mm ² 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)

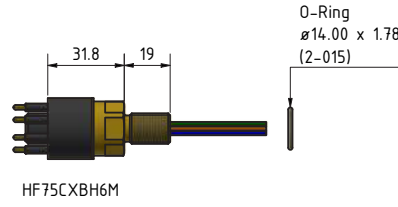
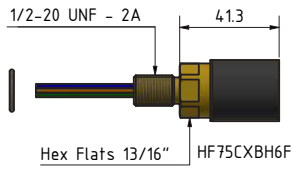
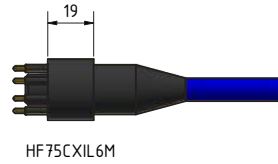
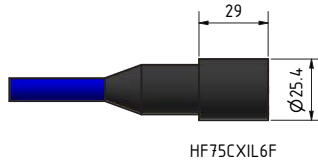
Mini-RG59 and 6-conductor PUR cable 0.382", 9.70 mm

Additional information

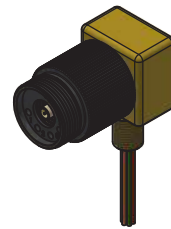
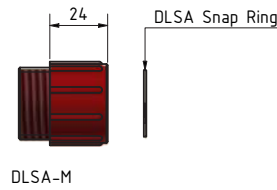
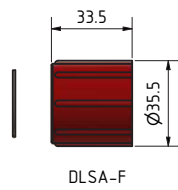
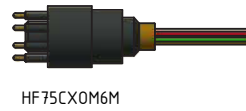
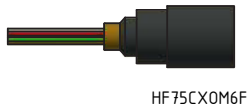
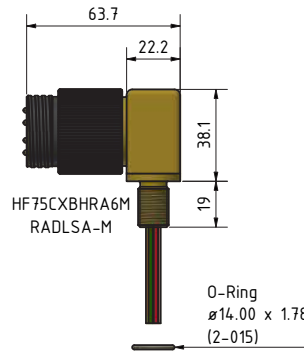
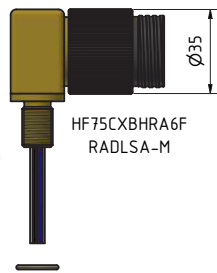
*All frequency and attenuation values are based on a 10 meter cable assembly test including 2 bulkhead connectors (75 ohm).
 BNC connector for RG179 coax leads use Amphenol 112133 or equivalent.
 BNC connector for Mini-RG59 coax cable use Belden 1855ABHD3 or equivalent.

Recommended SMB termination for Coax, see pages 128-129

SubConn® Coax connectors are designed for dry mating only. The Coax series is not suitable for open-face pressure or waterblock applications. Locking sleeves are required. Avoid greasing the actual coax part.
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Drawing information

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