F-Conn® Universal F Male Connector: FS11V

Features

The F-Conn FS11V connectors were designed using a patented guide and pin basket design. The major advantage is the position of the center pin's 360 degree basket which is aligned to the back end of the compression ring. This makes it very easy to insert the center conductor. The connector utilizes a standard quarter/quarter prep.

While designing the connector, a pin carrier and compression ring were added which are not normally seen in a conventional pin type connector. Full advantage was taken of the frequency matching and time domain studies completed on the connector in order to achieve a pin type connector with excellent return loss. Air is an excellent dielectric so the connector was hollowed out in the area behind the nut adjacent to the pin carrier, as well as the area in the post below the contact area.

FS11V

Physical Properties

- Nut and Collar: NiTin Plated Brass
- Post: Tin Plated Brass
- O-Rings: Ethylene Propylene

Electrical Properties

- Return Loss: $\geq$ -30 dB up to 1 GHz typical
- Insertion Loss: $\leq$ -0.2 dB up to 1 GHz typical
- RFI Shielding: -85 dB typical (60% bonded foil)

Mechanical Properties

- Cable Insertion Force: 20 lbs. maximum
- Cable Retention Force: 40 lbs. minimum per SCTE IPS SP-401

Environmental Properties

- Temperature Rating: -40 ºF (-40 ºC) to 140 ºF (60 ºC)
- Salt Fog: Passes 1,000 hours ANSI/SCTE 143 2007
- Moisture Migration: Passes ANSI/SCTE 60 2010

Cable Sizes

Inches	Minimum	~	Maximum
Center	.0634	~	.0647
Dielectric	.280	~	.294
Outer Jacket	.390	~	.417

Millimeters	Minimum	~	Maximum
Center	1.61	~	1.64
Dielectric	7.11	~	7.47
Outer Jacket	9.91	~	10.59

Recommended Installation Tools

CPLCCT-SS59/11

PS11

CP CABLE PRO.

FC F-CONN®

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MAINTAIN 75 OHM THROUGH TRANSITION AREA

AIR DIELECTRIC

DIAMETER RELATIONSHIP

DIAMETER RELATIONSHIP

DIAMETER RELATIONSHIP

INTERFACE PIN

75 OHM COAX SERIES 11
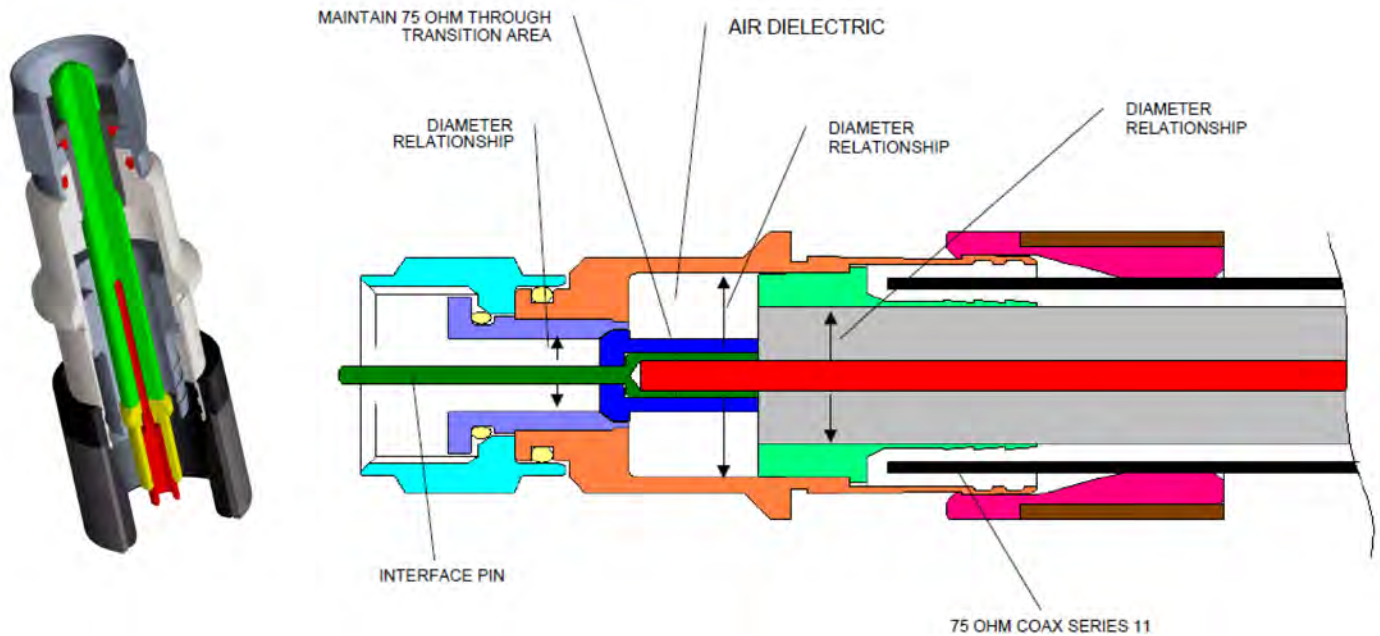
FS11V Connector RL Performance

Mean Return Loss

Frequency (Hz)	dB
5 MHz	-42.4 dB
15 MHz	-43.9 dB
550 MHz	-38.1 dB
750 MHz	-36.9 dB
1000 MHz	-33.1 dB
2000 MHz	-36.8 dB
3000 Mhz	-37.9 dB

Lower return loss (dB) equates to less reflection through the connector while maintaining signal strength

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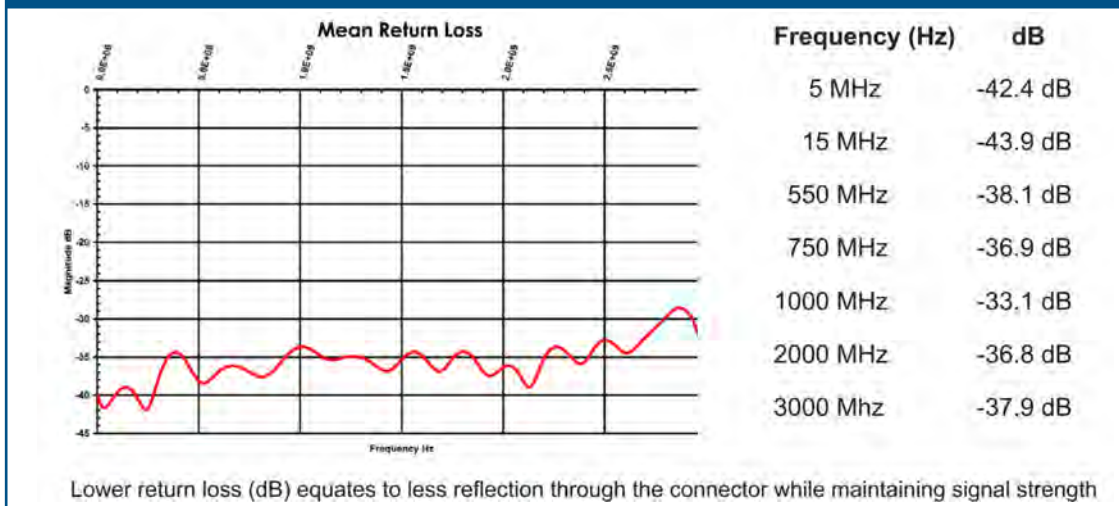
FS11V

Part Number	Cable Type	Description	Impedence (Ohms)	Color Band	Recommended Tools
FS11V	RG11	Universal "F" Male Connector for Standard or Quad-Shield RG11 Cable	75	Black	CPLCCT-SS59/11

Rev 2