



OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS Technologies connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions. Sealing against outer conductor and jacket by means of O-Ring and 360° compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket.

**FEATURES / BENEFITS**

- Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Unique NiTin plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis



OMNI FIT™ Premium Connectors

**Technical features**

**GENERAL SPECIFICATIONS**

<b>Transmission Line Type</b>		Coaxial Cable
<b>Cable Size</b>		1-5/8
<b>Cable Type</b>		Foam Dielectric
<b>Model Series</b>		LCF158-50 Series, RCF158-50 Series
<b>Connector Interface</b>		7-16 DIN
<b>Connector Type</b>		OMNI FIT™ PREMIUM Straight
<b>Sealing Method</b>		O-Ring + 360° Compression
<b>Gender</b>		Male

**ELECTRICAL SPECIFICATIONS**

<b>Nominal Impedance, ohms</b>	Ohm	50
<b>3rd Order IM Product @ 2x20 Watts</b>	dBc	-163 ; typical -167
<b>Maximum Frequency</b>	GHz	2.75
<b>VSWR, Return Loss</b>	VSWR (dB)	0 &lt; f ≤ 1.0 GHz: 1.02 (40) 1.0 &lt; f ≤ 2.2 GHz: 1.03 (36.6) 2.2 &lt; f ≤ 2.75 GHz: 1.06 (30.7)

**MECHANICAL SPECIFICATIONS**

<b>Plating Outer/Inner</b>		NiTin/Silver
<b>Length</b>	mm (in)	83.25 (3.28)
<b>Outer Diameter</b>	mm (in)	60 (2.36)
<b>Inner Contact Attachment</b>		Spring Finger
<b>Outer Contact Attachment</b>		360° clamping



### 716M-LCF158-D01

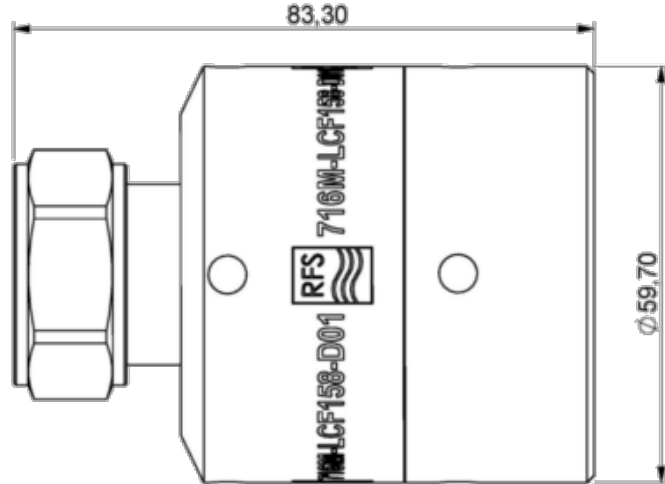
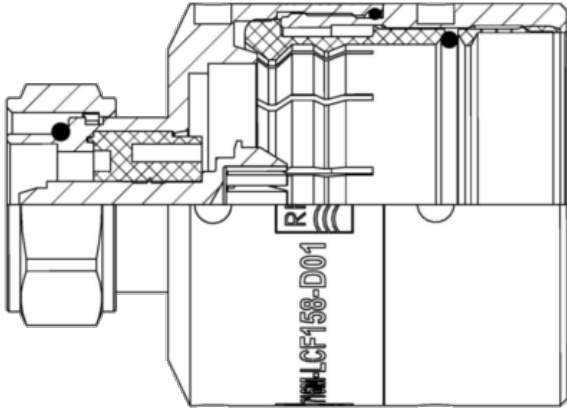
7-16 DIN Male Connector for 1-15/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing

#### ACCESSORIES

<b>Poly Hook Spanner</b>	mm (in)	PHS 60-90-5 Ø 60-90 (2.3-3.5) Pin 5 (0.2)
<b>Trimming Tool</b>		TRIM-SET-L114-D01 TRIM-LCF158-D01-A

#### TESTING AND ENVIRONMENTAL

<b>Waterproof Level</b>		IP68
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[External Document Links](#)  
[Installation Instruction](#)

[Notes](#)