

7-16 DIN Female Connector for 1-5/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing

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 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 the o-ring and 360 compression fit.

#### 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
- Tri metal alloy 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

# Technical features

## **GENERAL SPECIFICATIONS**

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

### **ELECTRICAL SPECIFICATIONS**

Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
Maximum Frequency	GHz	2.75
VSWR, Return Loss	VSWR (dB)	$0 < f \le 1.0 \text{ GHz: } 1.02 \text{ (40)}$ $1.0 < f \le 2.2 \text{ GHz: } 1.03 \text{ (37)}$ $2.0 < f \le 2.75 \text{ GHz: } 1.06 \text{ (31)}$

# **MECHANICAL SPECIFICATIONS**

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	89.4 (3.52)
Outer Diameter	mm (in)	62.8 (2.472)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

**716F-LCF158-E01** REV : B REV DATE : 06 May 2024 **www.rfsworld.com** 

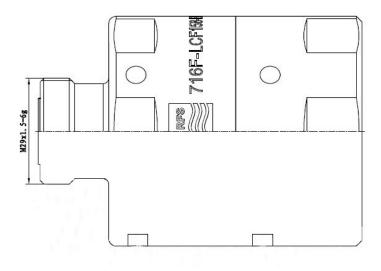


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# ACCESSORIES Wrench size front mm (in) 60 Wrench size rear mm (in) 60 Poly Hook Spanner mm (in) PHS 60-90-5 Ø 60-90 (2.3-3.5) Pin 5 (0.2) Trimming Tool TRIM-SET-L114-D01 TRIM-LCF158-D01-A

# **TESTING AND ENVIRONMENTAL**

Waterproof Level	IP68



External Document Links Installation Instruction

Notes

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