

#### PRODUCT DATASHEET

### 716M-LCF158-E01

7-16 DIN Male Connector for 1-15/8" 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 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

**External Document Links** 

Notes

Installation Instruction

## **Technical features**

### **GENERAL SPECIFICATIONS**

Coaxial Cable
Coaxiai Cabic
1-5/8
Foam Dielectric
LCF158-50 Series, RCF158-50 Series
7-16 DIN
OMNI FIT™ PREMIUM Straight
O-Ring + 360° Compression
Male

#### **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 ≤ 1.0 GHz: 1.02 (40)   1.0 < f ≤ 2.2 GHz: 1.03 (36.6)   2.2 < f ≤ 2.75 GHz: 1.06 (30.7)

www.rfstechnologies.com 716M-LCF158-E01 REV: A REV DATE: 09 Dec 2020

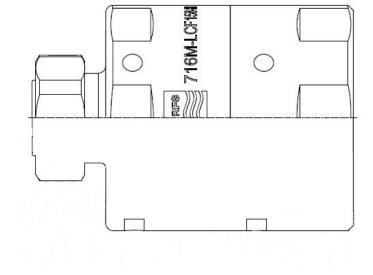


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Plating Outer/Inner		Tri Metal Alloy/Silver
Length	mm (in)	90.6 (3.567)
Outer Diameter	mm (in)	62.8 (2.472)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping
ACCESSORIES		
Wrench size front	mm (in)	60
Wrench size rear	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



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