

#### PRODUCT DATASHEET

#### 716M-LCF12-E01

7-16 DIN Male Connector for 1/2" 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 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 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	1/2	
Cable Type	Foam Dielectric	
Model Series	LCF12-50 Series, ICA12-50 Series, RCF12-50 Series	
Connector Interface	7-16 DIN	
Connector Type	OMNI FIT™ PREMIUM Straight	
Sealing Method	o-ring + 360° Compression	
Gender	Male	

## **ELECTRICAL SPECIFICATIONS**

Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	0 < $f \le 1.0$ GHz: 1.02 (40) 1.0 < $f \le 2.2$ GHz: 1.03 (37) 2.2 < $f \le 2.7$ GHz: 1.03 (36) 2.7 < $f \le 3.8$ GHz: 1.06 (31) 3.8 < $f \le 5.0$ GHz: 1.11 (26) 5.0 < $f \le 6.0$ GHz: 1.15 (23)

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### **MECHANICAL SPECIFICATIONS**

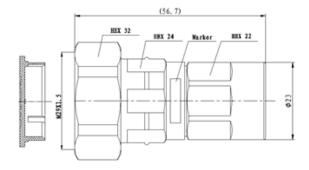
Plating Outer/Inner		Tri metal alloy / Silver
Length	mm (in)	56.7 (2.23)
Outer Diameter	mm (in)	23 (0.91)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping

### **ACCESSORIES**

Wrench size front	mm (in)	32 / 24
Wrench size rear	mm (in)	22
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A

### **TESTING AND ENVIRONMENTAL**

Waterproof Level	IP68
Trace: p. oo. zeve.	11 00



External Document Links Installation Instruction

Notes

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