

### PRODUCT DATASHEET

### 716F-LCF12-E01

7-16 DIN Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression

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

**External Document Links** 

Notes

Installation Instruction

# **Technical features** CENERAL SPECIFICATIONS

GENERAL SPECIFICATIONS	L 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	Female		
FLECTRICAL 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)

www.rfstechnologies.com 716F-LCF12-E01 REV: A REV DATE: 18 Feb 2020



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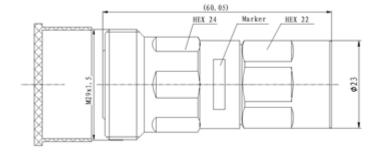
# 716F-LCF12-E01

7-16 DIN Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing

MECHANICAL SPECIFICATIONS				
Plating Outer/Inner		Tri metal alloy / Silver		
Length	mm (in)	60.05 (2.36)		
Outer Diameter	mm (in)	23 (0.91)		
Inner Contact Attachment		Basket		
Outer Contact Attachment		360° clamping		
ACCESSORIES	CCESSORIES			
Wrench size front	mm (in)	24 (7/8)		
Wrench size rear	mm (in)	22 (7/8)		
Trimming Tool		TRIM-SET-L12-D01 TRIM-LCF12-D01-A		

# **TESTING AND ENVIRONMENTAL**

Waterproof Level	IP68
Trace, proof Ecre.	11 00



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