

PRODUCT DATASHEET

716F-LCF12-E01

7-16 DIN Female 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 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

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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
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)	$\begin{array}{l} 0 < f \leq 1.0 \; \text{GHz: } 1.02 \; (40) \\ 1.0 < f \leq 2.2 \; \text{GHz: } 1.03 \; (37) \\ 2.2 < f \leq 2.7 \; \text{GHz: } 1.03 \; (36) \\ 2.7 < f \leq 3.8 \; \text{GHz: } 1.06 \; (31) \\ 3.8 < f \leq 5.0 \; \text{GHz: } 1.11 \; (26) \\ 5.0 < f \leq 6.0 \; \text{GHz: } 1.15 \; (23) \end{array}$
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

360° clamping

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Outer Contact Attachment

REV : A

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ACCESSORIES Wrench size front mm (in) 24 (7/8) Wrench size rear mm (in) 22 (7/8) TRIM-SET-L12-D01 **Trimming Tool** TRIM-LCF12-D01-A **TESTING AND ENVIRONMENTAL** Waterproof Level IP68 (60.05) Marker HEX 24 HEX 22 M29x1.5 Ø23 **External Document Links** Notes Installation Instruction

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