

PRODUCT DATASHEET

716F-LCF78-E01

7-16 DIN Female Connector for 7/8" 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.

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

GENERAL SPECIFICATIONS		
Transmission Line Type		Coaxial Cable
Cable Size		7/8
Cable Type		Foam Dielectric
Model Series		LCF78-50 Series, RCF78-50 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	6.0
VSWR, Return Loss	VSWR (dB)	$0 < f \le 1.0 \text{ GHz}: 1.02 (40)$ $1.0 < f \le 2.2 \text{ GHz}: 1.03 (37)$ $2.2 < f \le 2.7 \text{ GHz}: 1.03 (36)$ $2.7 < f \le 3.8 \text{ GHz}: 1.06 (31)$ $3.8 < f \le 5.0 \text{ GHz}: 1.11 (26)$ $5.0 < f \le 6.0 \text{ GHz}: 1.15 (23)$
MECHANICAL SPECIFICATIONS		
Plating Outer/Inner		Tri metal alloy / Silver
Length	mm (in)	63.6 (2.5)
Outer Diameter	mm (in)	37 (1.46)

Length	11111 (111)	05.0 (2.5)
Outer Diameter	mm (in)	37 (1.46)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

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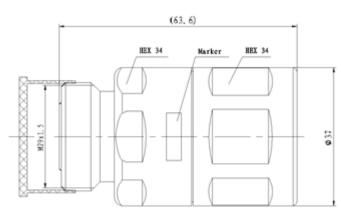




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ACCESSORIES			
Wrench size front	mm (in)	34 (1-7/16)	
Wrench size rear	mm (in)	34 (1-7/16)	
Trimming Tool		TRIM-SET-L78-D01, TRIM-LCF78-D01-A	
TESTING AND ENVIRONMENTAL			
Waterproof Level		IP68	



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