

PRODUCT DATASHEET

716F-LCF78-D01

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 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 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

- $\bullet \ \mathsf{Ultra} \ \mathsf{high} \ \mathsf{PIM} \ \mathsf{performance} \ \mathsf{i.e.} \ \mathsf{reduced} \ \mathsf{interference} \ \mathsf{leading} \ \mathsf{to} \ \mathsf{high} \ \mathsf{customer} \ \mathsf{satisfaction}$
- 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



OMNI FIT™ Premium Connectors

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	3.7
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40) 1.0 < f ≤ 2.7 GHz: 1.03 (36.6) 2.7 < f ≤ 3.7 GHz: 1.06 (30.7)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	61.95 (2.44)
Outer Diameter	mm (in)	40 (1.57)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

716F-LCF78-D01 REV: E REV DATE: 02 Dec 2013 www.rfstechnologies.com



PRODUCT DATASHEET

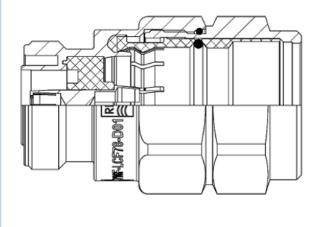
716F-LCF78-D01

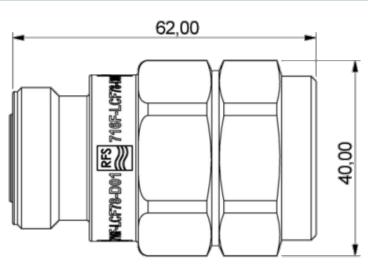
7-16 DIN Female Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing

Wrench size front mm (in) 36 (1-7/16) Wrench size rear mm (in) 36 (1-7/16) Trimming Tool TRIM-78-L TRIM-SET-L78-D01 TRIM-LCF78-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level IP68





External Document Links Installation Instruction

Notes

716F-LCF78-D01 REV: E REV DATE: 02 Dec 2013 www.rfstechnologies.com