

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

OMNI FITM 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 polymer claw 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

- 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
- 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

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CENTER I STATISTICS					
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	Polymer claw + 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)	$0 < f \le 1.0 \text{ GHz: } 1.02 \text{ (40)}$ $1.0 < f \le 2.7 \text{ GHz: } 1.03 \text{ (36.6)}$ $2.7 < f \le 3.7 \text{ GHz: } 1.06 \text{ (30.7)}$				

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	52.2 (2.05)
Outer Diameter	mm (in)	30.2 (1.19)
Inner Contact Attachment		Basket
Outer Contact Attachment		360° clamping

716F-LCF12-D01 REV: F REV DATE: 06 May 2024 **www.rfsworld.com**

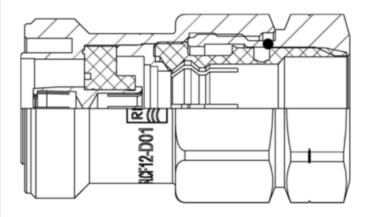


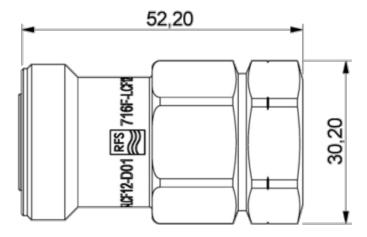
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ACCESSORIES Wrench size front mm (in) 27 (1-1/16) Wrench size rear mm (in) 27 (1-1/16) Trimming Tool TRIM-SET-L12-D01
TRIM-LCF12-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level	IP68
water proof Level	11 00





External Document Links

Installation Instruction

Notes

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