PRODUCT DATASHEET

716F-LCF12-C03

7-16 DIN Female Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) 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.



716F-LCF12-C03

FEATURES / BENEFITS

- Cost effective two-piece design for safe and easy installation
- Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical features

GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable		
Cable Size		1/2		
Cable Type		Foam Dielectric		Radiating
Model Series		LCF12-50 Series	ICA12-50 Series	RCF12-50 Series
Connector Interface		7-16 DIN		
Connector Type		OMNI FIT™ Standard		
Sealing Method		O-ring		
Gender		Female		

ELECTRICAL SPECIFICATIONS

Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-157 ; typical -160
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3) 3.7 < f ≤ 5.0 GHz: 1.15 (23.1) 5.0 < f ≤ 6.0 GHz: 1.25 (19.1)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	51.8 (2)
Outer Diameter	mm (in)	29 (1.14)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring

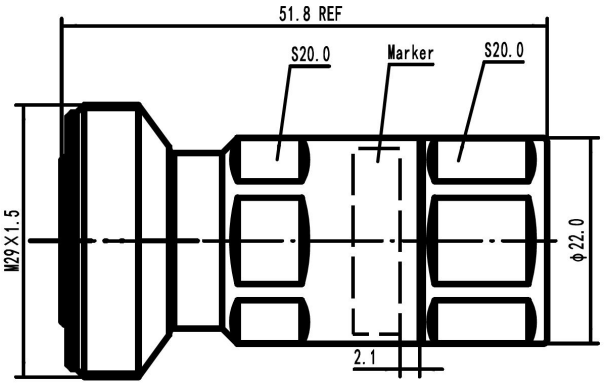
All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering

ACCESSORIES

Wrench size front	mm (in)	20 (0.79)
Wrench size rear	mm (in)	20 (0.79)
Trimming Tool		TRIM-SET-L12-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68



716F-LCF12-C03 Outline drawing

External Document Links
Installation instruction

Notes

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