

PRODUCT DATASHEET 716F-LCF158-C02

7-16 DIN Female Connector for 1-5/8" 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 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.

FEATURES / BENEFITS

- $\boldsymbol{\cdot}$ 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



OMNI FIT[™] Standard Connectors

GENERAL SPECIFICATIONS				
Transmission Line Type		Coaxial Cable		
Cable Size		1 5/8		
Cable Type		Foam Dielectric	Radiating	
Model Series		LCF158-50 Series	RCF158-50 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	-159 typical		
Maximum Frequency	GHz	2.75		
VSWR, Return Loss	VSWR (dB)	0 < f=1.0 GHz: 1.03 (36.6) 1.0 < f=2.2 GHz: 1.04 (34.1)		
MECHANICAL SPECIFICATIONS				
Plating Outer/Inner		Trimetal	Trimetal/Silver	
Length	mm (in)	64.6 (2.54)		
Outer Diameter	mm (in)	62.9 (2.5)		

Inner Contact Attachment Outer Contact Attachment

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Weight

REV : D

REV DATE : 27.Jul,2016

0.46 (1.01)

Spring Finger

Spring C-Ring

www.rfsworld.com

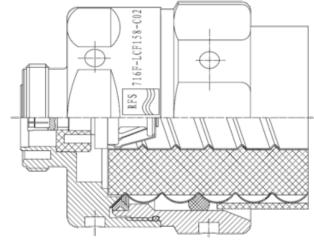
kg (lb)



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ACCESSORIES				
Wrench size front	mm (in)	Open end wrench 55 (2-1/6)		
Wrench size rear	mm (in)	Open end wrench 60 (2-1/3)		
Poly Hook Spanner	mm (in)	PHS 60-90-5 Ø 60-90 (2.3-3.5) Pin 5 (0.2)		
TESTING AND ENVIRONMENTAL				
Waterproof Level		IP68		



External Document Links Application Note Installation Instruction Notes

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