PRODUCT DATASHEET

716M-LCF158-C02

7-16 DIN Male 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 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.

OMNI FIT™ Standard Connectors

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 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		Male	

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) 2.2 < f ≤ 2.75 GHz: 1.07 (30)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	69.9 (2.8)
Outer Diameter	mm (in)	62.9 (2.5)
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

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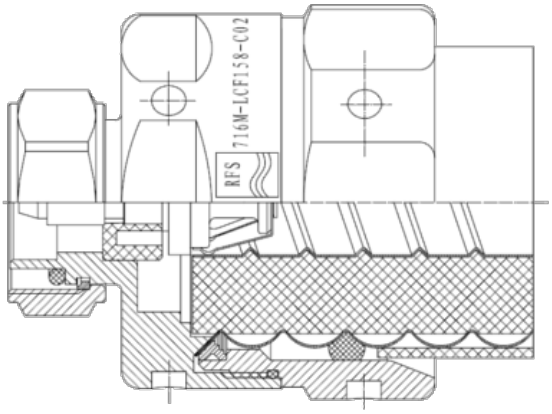
ACCESSORIES

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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