

N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, extended frequency range

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.

## 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

**External Document Links** 

Notes

**Application Note** 

Installation instruction

## **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	
Connector Interface		N		
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	6		
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 ≤ 6.0 GHz: 1.08 (28)		
MECHANICAL SPECIFICATIONS				
Plating Outer/Inner		Trimetal/Silve	Trimetal/Silver	
Length	mm (in)	58.7 (2.31)		
Outer Diameter	mm (in)	25.9 (1)		
Inner Contact Attachment		Basket		
Outer Contact Attachment		Spring C-Ring		

NM-LCF12-C02-6 REV : B REV DATE : 26 Oct 2016 www.rfstechnologies.com

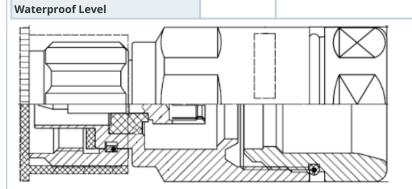
OMNI FIT™ Standard Connectors



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ACCESSORIES			
Wrench size front	mm (in)	24 (15/16)	
Wrench size rear	mm (in)	24 (15/16)	
Trimming Tool		TRIM-SET-L12-C02	
TESTING AND ENVIRONMENTAL			

IP68



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