

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 N connector is one of the most common RF connector types and meets all requirements even under the most severe environmental conditions.

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
- Standard 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) compliant i.e. can be used on a global basis

Technical features

GENERAL SPECIFICATIONS



OMNI FIT[™] Standard Connectors

Transmission Line Type		Coaxial Cable				
Cable Size		1-1/4				
Cable Type		Foam Dielectric Ultraflexible Radia		Radiating		
Model Series		UCF114-50A	LCFS114-50A	UCF114-50L	LCFS114-50L Serie	
Connector Interface		Ν				
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	3.6				
VSWR, Return Loss		0 < f ≤ 1.0 GHz: 1.03 (36.6)				
	VSWR (dB)	VSWR (dB) $1.0 \text{ < } f \le 2.7 \text{ GHz: } 1.04 (34.1)$ $2.7 \text{ < } f \le 3.7 \text{ GHz: } 1.08 (28.3)$				
MECHANICAL SPECIFICATIONS						
Plating Outer/Inner		Trimetal/Silver				
Length	mm (in)	75.7 (2.98)				
Outer Diameter	mm (in)	48.8 (1.92)				
Inner Contact Attachment		Spring Finger				
Outer Contact Attachment		Spring C-Ring				

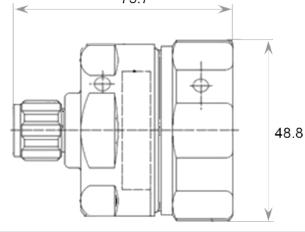
NM-LCF114-C02

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ACCESSORIES					
Wrench size front	mm (in)	Open end wrench 45 (1-3/4)			
Wrench size rear	mm (in)	Open end wrench 45 (1-3/4)			
Poly Hook Spanner	mm (in)	PHS 60-90-5 Ø 60-90 (2.3-3.5) Pin 5 (0.2)			
Trimming Tool		TRIM-SET-L114-C02			
TESTING AND ENVIRONMENTAL					
Waterproof Level		IP68			
75.7					



External Document Links Application Note Installation Instruction Notes