# N Female Connector for 1-1/4" 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 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

**External Document Links** 

**Application Note** 

Installation Instruction



OMNI FIT™ Standard Connectors

# **Technical features**

**Outer Contact Attachment** 

GENERAL SPECIFICATIONS						
Transmission Line Type		Coaxial Cable				
Cable Size		1-1/4				
Cable Type		Foam Dielectric	n Dielectric Ultraflexible Radiating		Radiating	
Model Series		UCF114-50A	LCFS114-50A	UCF114-50L	LCFS114-50L Series	
Connector Interface		N				
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	3.6				
VSWR, Return Loss		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)				
	VSWR (dB)					
MECHANICAL SPECIFICATIONS						
Plating Outer/Inner		Trimetal/Silver				
Length	mm (in)	70.1 (2.76)				
Outer Diameter	mm (in)	48.8 (1.92)				
Inner Contact Attachment		Spring Finger				

Notes

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Spring C-Ring

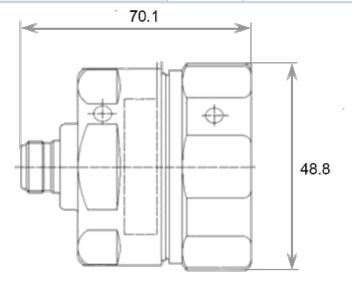


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# ACCESSORIES Wrench size front mm (in) Open end wrench 45 (1-3/4) Wrench size rear mm (in) Open end wrench 45 (1-3/4) Poly Hook Spanner mm (in) PHS 60-90-5 Ø 60-90 (2.3-3.5) Pin 5 (0.2) Trimming Tool TRIM-SET-L114-C02

### **TESTING AND ENVIRONMENTAL**

Waterproof Level	IP68



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