

N Male 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

Length

Outer Diameter

Inner Contact Attachment

Outer Contact Attachment

Notes

Technical features GENERAL SPECIFICATIONS

GENERAL SPECIFICATIONS						
Transmission Line Type	Coaxial Cable					
Cable Size		1-1/4				
Cable Type		Foam Dielectric Ultraflexible		exible	Radiating	
Model Series		UCF114-50A	LCF	-S114-50A	UCF114-50L	LCFS114-50L 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	3.6				
VSWR, Return Loss		0 < f ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1)				
	VSWR (dB)					
		2.7 < f ≤ 3.7 GHz: 1.08 (28.3)				
MECHANICAL SPECIFICATIONS						
Plating Outer/Inner		Trimetal/Silver				

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75.7 (2.98)

48.8 (1.92)

Spring Finger

Spring C-Ring

mm (in)

mm (in)

OMNI FIT™ Standard Connectors

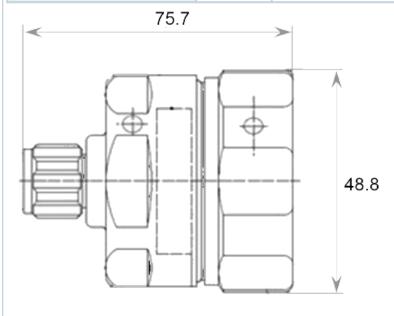


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ACCESSORIES		
Wrench size front	mm (in)	Open end wrench 45 (1-3/4)
Wrench size rear	mm (in)	Open end wrench 45 (1-3/4)
Poly Hook Spanner	mm (in)	PHS 60-90-5 Ø 60-90 (2.3-3.5) Pin 5 (0.2)
Trimming Tool		TRIM-SET-L114-C02

TESTING AND ENVIRONMENTAL

Waterproof Level IP68



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