

# N Male Right Angle Connector for 1/2" Coaxial Cable, OMNI FIT™ standard

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.



### **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		1/2			
Cable Type	Foam Dielectric	Foam Dielectric R			
Model Series	LCF12-50 Series	ICA12-50 Series	RCF12-50 Series		
Connector Interface		N			
Connector Type	OMNI FIT™ Standard Right Angle				
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: 1.04 (34.2) 1.0 < f ≤ 2.0 GHz: 1.06 (30.7)	

#### **MECHANICAL SPECIFICATIONS**

Plating Outer/Inner		Trimetal/Silver	
Length	mm (in)	52.3 (2.06)	
Outer Diameter	mm (in)	49.5 (1.95)	
Inner Contact Attachment		Basket	
Outer Contact Attachment		Spring C-Ring	

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ACCESSORIES				
Vrench size front	mm (in)	24 (15/16)		
Vrench size rear	mm (in)	24 (15/16)		
ESTING AND ENVIRONMENTAL				
Vaterproof Level		IP68		
kternal Document Links pplication Note		Notes		
estallation instruction				

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