

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 performanceWaterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) compliant i.e. can be used on a global basis



OMNI FIT[™] Standard Connectors

External Document Links
Application Note
Installation Instruction

Tec

GENERAL SPECIFICATIONS			
Transmission Line Type	Coaxial Cable		
Cable Size		7/8	
Cable Type		Foam Dielectric	
Model Series		LCF78-50 Series	RCF78-50 Series
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 typica	al
Maximum Frequency	GHz	3.7	
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1 1.0 < f ≤ 2.7 GHz: 2.7 < f ≤ 3.7 GHz:	1.04 (34.1)
MECHANICAL SPECIFICATIONS			
Plating Outer/Inner		Trimetal/Silver	
Length	mm (in)	62.8 (2.47)	
Outer Diameter	mm (in)	35.5 (1.4)	
Inner Contact Attachment		Spring Finger	
Outer Contact Attachment		Spring O-Ring	

Notes

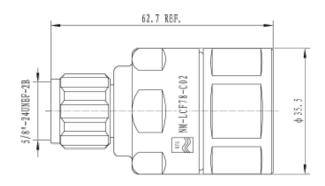
NM-LCF78-C02

REV DATE : 16 May 2014

www.rfstechnologies.com



ACCESSORIES				
Wrench size front	mm (in)	32 (1-1/4)		
Wrench size rear	mm (in)	32 (1-1/4)		
TESTING AND ENVIRONMENTAL				
Waterproof Level		IP68		





REV : E

REV DATE : 16 May 2014

www.rfstechnologies.com