

N Male Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium,

### Straight, O-Ring and compression sealing

OMNI FIT<sup>™</sup> high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) 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 meets all technical requirements and covers high frequencies as well as legacy applications. Sealing against outer conductor and jacket by means of O-Ring and 360° compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket.

#### FEATURES / BENEFITS

- Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT<sup>™</sup> concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Unique NiTin plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

## **Technical features**

#### **GENERAL SPECIFICATIONS**



OMNI FIT™ Premium Connectors

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™ PREMIUM Straight	
Sealing Method		O-Ring + 360° Compression	
Gender		Male	
ELECTRICAL SPECIFICATIONS			
Nominal Impedance, ohms	Ohm	50	
3rd Order IM Product @ 2x20 Watts	dBc	-156 ; typical -162	
Maximum Frequency	GHz	3.7	
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40) 1.0 < f ≤ 2.7 GHz: 1.03 (36.6) 2.7 < f ≤ 3.7 GHz: 1.06 (30.7)	
MECHANICAL SPECIFICATIONS			
Plating Outer/Inner		NiTin/Silver	
Length	mm (in)	73.65 (2.9)	
Outer Diameter	mm (in)	40 (1.57)	
Inner Contact Attachment		Spring Finger	
Outer Contact Attachment		360° clamping	

NM-LCF78-D01

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# PRODUCT DATASHEET NM-LCF78-D01

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ACCESSORIES			
Wrench size front	mm (in)	) 36 (1-7/16)	
Wrench size rear	mm (in)	36 (1-7/16)	
Trimming Tool		TRIM-78-L TRIM-SET-L78-D01 TRIM-LCF78-D01-A	
TESTING AND ENVIRONMENTAL			
Waterproof Level	IP68		

External Document Links Installation Instruction Notes

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