

### PRODUCT DATASHEET NF-LCF78-E01

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

## Straight, O-Ring and 360° 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 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.

#### 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
- Tri metal alloy 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

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Transmission Line Type		Coaxial Cable
Cable Size		7/8
Cable Type		Foam Dielectric Superflexible
Model Series		LCF78-50 Series
Connector Interface		Ν
Connector Type		OMNI FIT™ PREMIUM Straight
Sealing Method		sealing rubber
Gender		Female
ELECTRICAL SPECIFICATIONS		
Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-158 ; typical -162
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	$\begin{array}{l} 0 < f \leq 1.0 \; \text{GHz: } 1.02 \; (40) \\ 1.0 < f \leq 2.2 \; \text{GHz: } 1.03 \; (37) \\ 2.2 < f \leq 2.7 \; \text{GHz: } 1.03 \; (36) \\ 2.7 < f \leq 3.8 \; \text{GHz: } 1.07 \; (30) \\ 3.8 < f \leq 5.0 \; \text{GHz: } 1.11 \; (26) \\ 5.0 < f \leq 6.0 \; \text{GHz: } 1.15 \; (23) \end{array}$
MECHANICAL SPECIFICATIONS		
Plating Outer/Inner		Tri metal alloy / Silver
Length	mm (in)	75.1 (2.96)
Outer Diameter	mm (in)	37 (1.46)
Inner Contact Attachment		Spring Finger

Spring Finger 360° clamping

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**Outer Contact Attachment** 

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ACCESSORIES			
Wrench size front	mm (in)	34	
Wrench size rear	mm (in)	34	
Trimming Tool		TRIM-SET-L78-D01, TRIM-LCF78-D01-A	
TESTING AND ENVIRONMENTAL			
Waterproof Level		IP68	
External Document Links		Notes	
Installation Instruction			

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