

### PRODUCT DATASHEET

# NF-LCF78-D01

N Female Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing

OMNI FIT™ 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™ 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



OMNI FIT™ Premium Connectors

# **Technical features**

# **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	N
Connector Type	OMNI FIT™ PREMIUM Straight
Sealing Method	O-Ring + 360° Compression
Gender	Female

# **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)	68.5 (2.62)
Outer Diameter	mm (in)	40 (1.57)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

NF-LCF78-D01 REV : E REV DATE : 15 Sep 2011 www.rfstechnologies.com



# PRODUCT DATASHEET

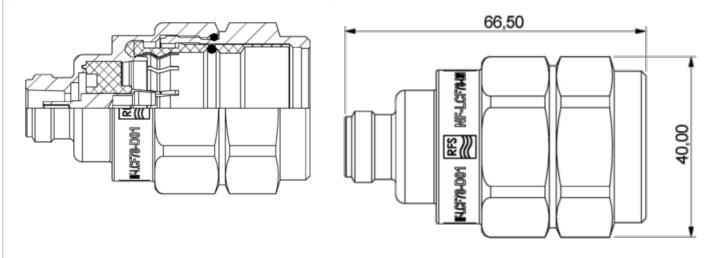
# NF-LCF78-D01

N Female Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing

# 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**

w	Inco
Waterproof Level	IP68



External Document Links Installation Instruction

Notes

NF-LCF78-D01 REV : E REV DATE : 15 Sep 2011 www.rfstechnologies.com