

N Female Connector for 1-1/4" 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 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.

OMNI FIT™ Premium Connectors

### 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

## Technical features

## **GENERAL SPECIFICATIONS**

Transmission Line Type	Coaxial Cable
Cable Size	1-1/4
Cable Type	Foam Dielectric
Model Series	UCF114-50 Series, LCFS114-50 Series, RCF114-50 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	3.8
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40)
		1.0 < f ≤ 2.2 GHz: 1.04 (34)
		2.2 < f ≤ 2.7 GHz: 1.06 (31)
		2.7 < f ≤ 3.8 GHz: 1.08 (28)

# **MECHANICAL SPECIFICATIONS**

Plating Outer/Inner		Tri metal alloy/Silver
Length	mm (in)	81.7 (3.217)
Outer Diameter	mm (in)	51 (2.008)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

NF-LCF114-E01 REV : A REV DATE : 06 May 2024 www.rfsworld.com



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# ACCESSORIES Poly Hook Spanner mm (in) PHS 60-90-5 Ø 60-90 (2.3-3.5) Pin 5 (0.2) Trimming Tool TRIM-SET-L114-D01 TRIM-LCF114-D01-A TESTING AND ENVIRONMENTAL Waterproof Level IP68

**External Document Links** 

Installation Instruction

Notes

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