

N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Right Angle, polymer claw 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 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions. Sealing against outer conductor and jacket by means of the polymer claw 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



Notes

Installation Instruction



# GENERAL SPECIFICATIONS

CITIES I STATE OF THE STATE OF	
Transmission Line Type	Coaxial Cable
Cable Size	1/2
Cable Type	Foam Dielectric
Model Series	LCF12-50 Series, ICA12-50 Series, RCF12-50 Series
Connector Interface	N
Connector Type	OMNI FIT™ PREMIUM Right Angle
Sealing Method	Polymer claw + 360° Compression
Gender	Male

# **ELECTRICAL SPECIFICATIONS**

Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-156 ; typical -162
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	$0 < f \le 1.0 \text{ GHz: } 1.04 (34)$ $1.0 < f \le 2.2 \text{ GHz: } 1.06 (31)$ $2.0 < f \le 2.7 \text{ GHz: } 1.08 (28)$ $2.7 < f \le 3.8 \text{ GHz: } 1.11 (26)$ $3.8 < f \le 5.0 \text{ GHz: } 1.15 (23)$ $5.0 < f \le 6.0 \text{ GHz: } 1.22 (20)$

NMR-LCF12-E01 REV: B REV DATE: 08 Oct 2021 Www.rfsworld.com





OMNI FIT™ Premium Connectors



N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Right Angle, polymer claw and compression sealing

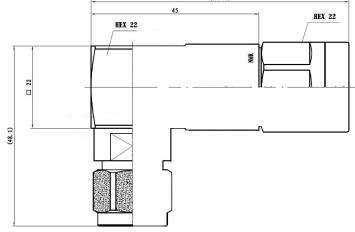
#### **MECHANICAL SPECIFICATIONS Plating Outer/Inner** Tri metal alloy/Silver 69.05 (2.718) Length mm (in) **Outer Diameter** mm (in) 29 (1.142) **Inner Contact Attachment** Basket **Outer Contact Attachment** 360° clamping **ACCESSORIES** Wrench size front mm (in) 22 Wrench size rear mm (in) 22 TRIM-SET-L12-D01

## **TESTING AND ENVIRONMENTAL**

**Trimming Tool** 



TRIM-LCF12-D01-A



NMR-LCF12-E01 REV : B REV DATE : 08 Oct 2021 www.rfsworld.com