

N Female Connector for 1/4" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing

## Product Description

Radio Frequency Systems' line of high performance coaxial cable connectors are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up the attachment of connectors to CELLFLEX® coaxial cables.

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 Specifications

Transmission Line Type	Coaxial Cable
Cable Size	1/4"
Cable Type	Foam Dielectric
Model Series	LCF14-50 Series
Connector Interface	N
Connector Type	OMNI FIT™ PREMIUM Straight
Sealing Method	O-Ring
Gender	Female
Plating Outer/Inner	NiTIn
Length, mm (in)	45.2 (1.78)
Outer Diameter, mm (in)	20.0 (0.79)
Weight, kg (lb)	0.05 (0.12)
Inner Contact Attachment	Spring Finger
Outer Contact Attachment	360° clamping
3rd Order IM Product @ 2x20 Watts, dBc	-156 ; typical -162
Maximum Frequency, GHz	3.7
VSWR (Return Loss) for 0 < f ≤ 1.0GHz	1.02:1 (40.0 dB)
VSWR (Return Loss) for 1.0 < f ≤ 2.7GHz	1.04:1 (34.2 dB)
VSWR (Return Loss) for 2.7 < f ≤ 3.7GHz	1.08:1 (28.3 dB)
Wrench size front, mm (in)	18 (7/10)
Wrench size rear, mm (in)	18 (7/10)
Waterproof Level	IP68

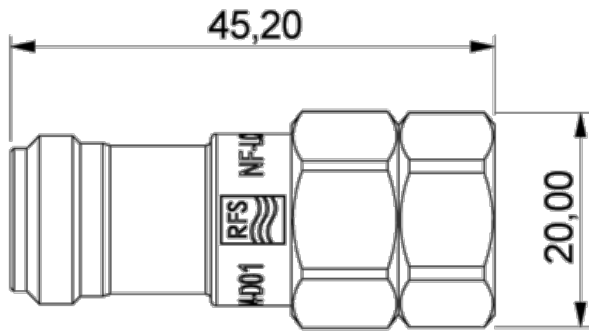
## Notes

## Other Documentation

Installation Instruction: [2800113-A.pdf](#)



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All information contained in the present datasheet is subject to confirmation at time of ordering