

N Female Connector for 7/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

Product Description

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) 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 is one of the most common RF connector types and meets all requirements even under the most severe environmental conditions.



OMNI FIT™ Standard Connectors

Features/Benefits

- Cost effective two-piece design for safe and easy installation
- Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up, reduces the number of dropped calls and avoids revenue losses
- Standard electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) compliant i.e. can be used on a global basis

Technical Specifications

Transmission Line Type	Coaxial Cable
Cable Size	7/8"
Cable Type	Foam Dielectric
Model Series	UCF78-50A-Series, LCF78-50A-Series, UCF78-50L-Series, LCF78-50L-Series, RCF78-50A-Series
Connector Interface	N
Nominal Impedance, ohms	50
Connector Type	OMNI FIT™ Standard
Sealing Method	O-ring
Gender	Female
Plating Outer/Inner	Trimetal/Silver
Length, mm (in)	56.8 (2.23)
Outer Diameter, mm (in)	35.5 (1.4)
Weight, kg (lb)	0.15 (0.33)
Inner Contact Attachment	Spring Finger
Outer Contact Attachment	Spring O-Ring
3rd Order IM Product @ 2x20 Watts, dBc	-159 typical
Maximum Frequency, GHz	3.7
VSWR (Return Loss, dB)	0 < f = 1.0 GHz: 1.03 (36.6) 1.0 < f = 2.7 GHz: 1.04 (34.1) 2.7 < f = 3.7 GHz: 1.08 (28.3)
Wrench size front, mm (in)	32 (1-1/4)
Wrench size rear, mm (in)	32 (1-1/4)
Waterproof Level	IP68

Notes

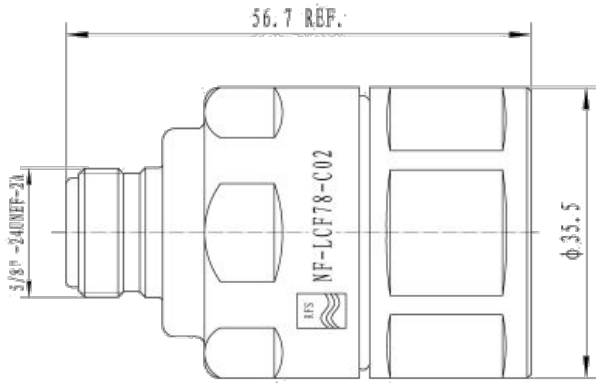
Other Documentation

Installation instruction: [1000006027-04.pdf](#)

Application Note: [1000009163-01_Application Note_Installation of Heat Shrink Sleeves for additional sealing of Connectors.pdf](#)



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