

N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, extended frequency range

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.



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
- Superior 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) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Specifications

Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric, Radiating
Model Series	LCF12-50 Series, ICA12-50 Series
Connector Interface	N
Nominal Impedance, ohms	50
Connector Type	OMNI FIT™ Standard
Sealing Method	O-ring
Gender	Male
Plating Outer/Inner	Trimetal/Silver
Length, mm (in)	58.7 (2.31)
Outer Diameter, mm (in)	25.9 (1)
Weight, kg (lb)	0.12 (0.26)
Inner Contact Attachment	Basket
Outer Contact Attachment	Spring C-Ring
3rd Order IM Product @ 2x20 Watts, dBc	-159 typical
Maximum Frequency, GHz	6
VSWR (Return Loss, dB)	0 < f = 1.0 GHz: 1.030 (36.6) 1.0 < f = 2.7 GHz: 1.040 (34.1) 2.7 < f = 3.7 GHz: 1.080 (28.3) 3.7 < f = 6.0 GHz: 1.083 (28.0)
Wrench size front, mm (in)	24 (15/16)
Wrench size rear, mm (in)	24 (15/16)
Waterproof Level	IP68

Notes

Other Documentation

Application Note: [10000009163-01_Application Note_Installation of Heat Shrink Sleeves for additional sealing of Connectors.pdf](#)
 Installation instruction: [10000009476-02.pdf](#)



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