



N Male Right Angle Connector for 1/2" Coaxial Cable, OMNI FIT™ standard

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.

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 Features

GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable
Cable Size		1/2"
Cable Type		Foam Dielectric Radiating
Model Series		LCF12-50 Series ICA12-50 Series RCF12-50 Series
Connector Interface		N
Connector Type		OMNI FIT™ Standard Right Angle
Sealing Method		O-ring
Gender		Male

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-159 typical
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	$0 < f \leq 1.0$ GHz: 1.04 (34.2) $1.0 < f \leq 2.0$ GHz: 1.06 (30.7) $2.0 < f \leq 2.7$ GHz: 1.10 (26.4) $2.7 < f \leq 3.7$ GHz: 1.12 (24.9) $3.7 < f \leq 6.0$ GHz: 1.15 (23.1)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	52.3 (2.06)
Outer Diameter	mm (in)	49.5 (1.95)
Weight	kg (lb)	0.185 (0.408)
Inner Contact Attachment		Basket
Outer Contact Attachment		Spring C-Ring

ACCESSORIES

Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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External Document Links

Application Note
Installation instruction

Notes