



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

NO IMAGE
AVAILABLE**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, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-159 typical
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	0 $\leq f \leq 1.0 \text{ GHz}$: 1.04 (34.2) 1.0 $\leq f \leq 2.0 \text{ GHz}$: 1.06 (30.7) 2.0 $\leq f \leq 2.7 \text{ GHz}$: 1.10 (26.4) 2.7 $\leq f \leq 3.7 \text{ GHz}$: 1.12 (24.9) 3.7 $\leq f \leq 6.0 \text{ GHz}$: 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