



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 Technologies 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, ohms	Ohm	50		
3rd Order IM Product @ 2x20 Watts	dBc	-159 typical		
Maximum Frequency	GHz	6		
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.04 (34.2) 1.0 < f ≤ 2.0 GHz: 1.06 (30.7) 2.0 < f ≤ 2.7 GHz: 1.10 (26.4) 2.7 < f ≤ 3.7 GHz: 1.12 (24.9) 3.7 < f ≤ 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)		
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](#)

[Notes](#)

[Application Note](#)

[Installation instruction](#)