



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



OMNI FIT™ Standard Connectors

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
Connector Interface		N	
Connector Type		OMNI FIT™ Standard	
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 $\leq f \leq 1.0 \text{ GHz}$: 1.03 (36.6) 1.0 $\leq f \leq 2.7 \text{ GHz}$: 1.04 (34.1) 2.7 $\leq f \leq 3.7 \text{ GHz}$: 1.08 (28.3) 3.7 $\leq f \leq 6.0 \text{ GHz}$: 1.08 (28)	

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver	
Length	mm (in)	58.7 (2.31)	
Outer Diameter	mm (in)	25.9 (1)	
Inner Contact Attachment		Basket	
Outer Contact Attachment		Spring C-Ring	

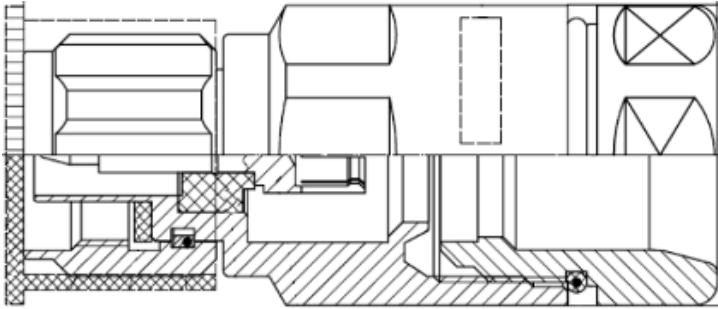
ACCESSORIES

Wrench size front	mm (in)	24 (15/16)	
Wrench size rear	mm (in)	24 (15/16)	
Trimming Tool		TRIM-SET-L12-C02	



TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
-------------------------	--	------



External Document Links

[Application Note](#)

[Installation instruction](#)

Notes