



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**

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

**ELECTRICAL SPECIFICATIONS**

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

**MECHANICAL SPECIFICATIONS**

<b>Plating Outer/Inner</b>	Trimetal/Silver	
<b>Length</b>	mm (in)	52.3 (2.06)
<b>Outer Diameter</b>	mm (in)	49.5 (1.95)
<b>Inner Contact Attachment</b>	Basket	
<b>Outer Contact Attachment</b>	Spring C-Ring	



**ACCESSORIES**

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

**TESTING AND ENVIRONMENTAL**

<b>Waterproof Level</b>		IP68
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[Application Note](#)

[Installation instruction](#)