



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. The 4.3-10 connector is an innovative, space-saving RF connection meeting all requirements even under the most severe environmental conditions and not relying on coupling nut torque to meet PIM performance.



43MR-LCF12-C03

**FEATURES / BENEFITS**

- Cost effective two-piece design for safe and easy installation
- 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
- Standard 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) compliant i.e. can be used on a global basis

[External Document Links](#)

[Notes](#)

[Application Note](#)

[Installation instruction](#)

**Technical features**

**GENERAL SPECIFICATIONS**

<b>Transmission Line Type</b>		Coaxial Cable		
<b>Cable Size</b>		1/2		
<b>Cable Type</b>		Foam Dielectric		
<b>Model Series</b>		LCF12-50 Series	ICA12-50 Series	RCF12-50 Series
<b>Connector Interface</b>		4.3-10 Right Angle		
<b>Connector Type</b>		OMNI FIT™ Standard		
<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	-162 ; typical -166		
<b>Maximum Frequency</b>	GHz	6.0		
<b>VSWR, Return Loss</b>	VSWR (dB)	0 &lt; f ≤ 2.2 GHz: 1.04 (34.1) 2.2 &lt; f ≤ 2.7 GHz: 1.06 (30.7) 2.7 &lt; f ≤ 3.7 GHz: 1.13 (24.3) 3.7 &lt; f ≤ 5.0 GHz: 1.20 (20.8) 5.0 &lt; f ≤ 6.0 GHz: 1.33 (17)		



**MECHANICAL SPECIFICATIONS**

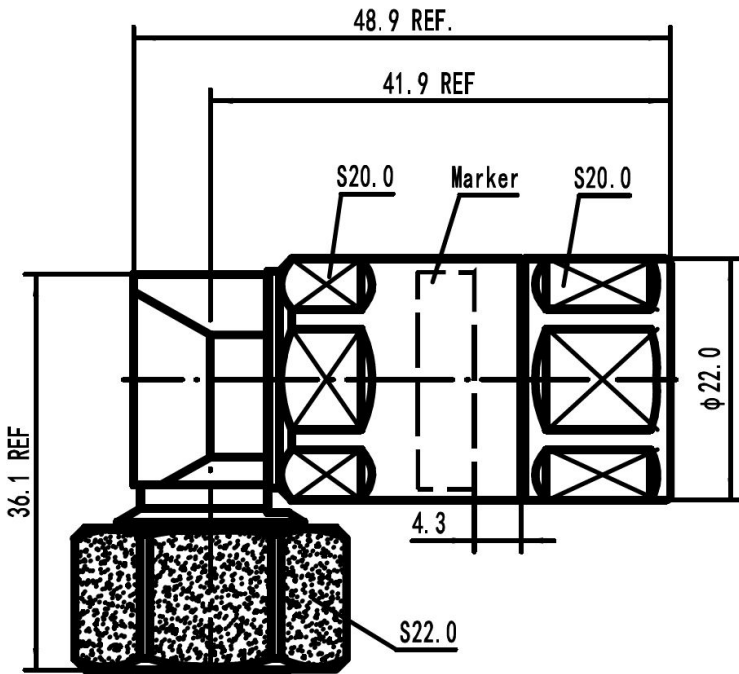
Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	56.8 (2.23)
Outer Diameter	mm (in)	36.1 (1.4)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring O-Ring

**ACCESSORIES**

Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)

**TESTING AND ENVIRONMENTAL**

Waterproof Level		IP68
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43MR-LCF12-C03 Outline drawing