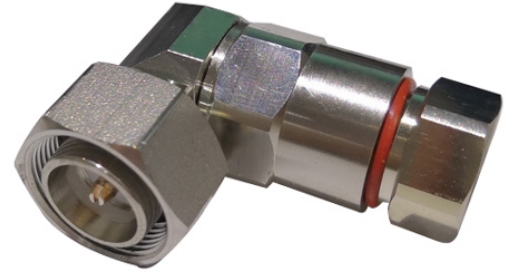




OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS Technologies connectors are fully tested for mechanical and electrical compliance to industry specifications. 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.

**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



43MR-SCF12-C03

**Technical features**

**GENERAL SPECIFICATIONS**

<b>Transmission Line Type</b>		Coaxial Cable
<b>Cable Size</b>		1/2
<b>Cable Type</b>		Foam Dielectric Superflexible
<b>Model Series</b>		SCF12-50 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**

<b>Plating Outer/Inner</b>		Trimetal/Silver
<b>Length</b>	mm (in)	56.8 (2.23)
<b>Outer Diameter</b>	mm (in)	36.4 (1.4)
<b>Inner Contact Attachment</b>		Spring Finger
<b>Outer Contact Attachment</b>		Spring O-Ring

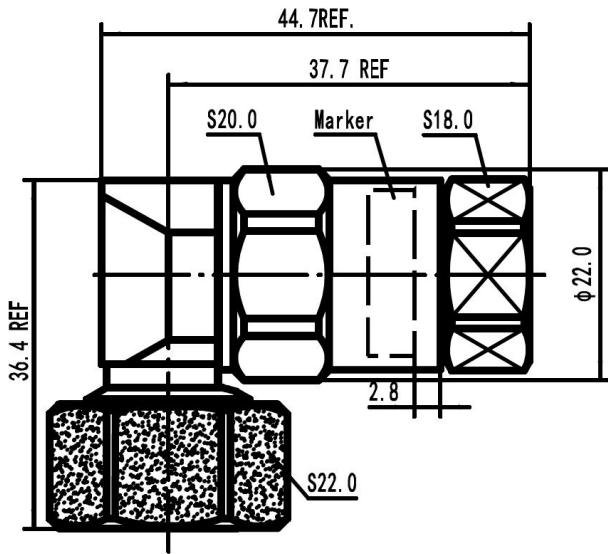


**ACCESSORIES**

<b>Wrench size front</b>	mm (in)	20 (13/16)
<b>Wrench size rear</b>	mm (in)	18 (3/4)

**TESTING AND ENVIRONMENTAL**

<b>Waterproof Level</b>		IP68
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43MR-SCF12-C03 Outline drawing

[External Document Links](#)  
[Application Note](#)  
[Installation instruction](#)

[Notes](#)