



**43MP-SCF12-C03**

4.3-10 Male Push-Pull Connector for 1/2" Coaxial SuperFlexibleCable, OMNI FIT™ standard

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.

Push-Pull lock and unlock attachment mechanism that is ideal for the smallest installation spaces.

**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
- Push-Pull Type connector possesses special mechanical design to support quickest lock & unlock feature within the most confined smallest installation space where only accommodates one of the hands



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**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 Push-Pull
<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 ≤ 1.0 GHz: 1.03 (36.6) 1.0 &lt; f ≤ 2.7 GHz: 1.04 (34.1) 2.7 &lt; f ≤ 3.7 GHz: 1.08 (28.3) 3.7 &lt; f ≤ 5.0 GHz: 1.10 (26.4) 5.0 &lt; f ≤ 6.0 GHz: 1.25 (19.1)



MECHANICAL SPECIFICATIONS

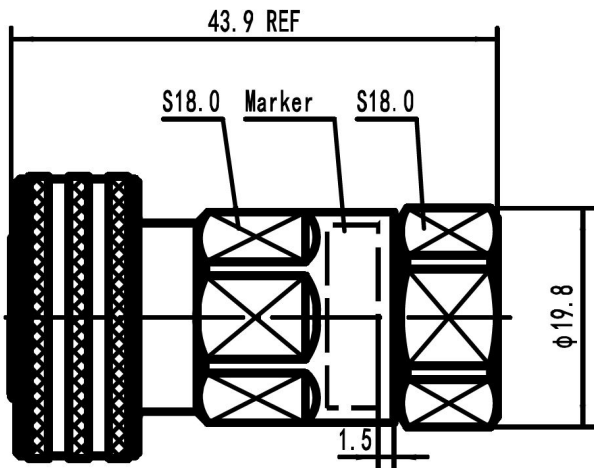
Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	43.9 (1.73)
Outer Diameter	mm (in)	25 (1)
Inner Contact Attachment		Basket
Outer Contact Attachment		Rigidity impaction

ACCESSORIES

Wrench size front	mm (in)	18 (3/4)
Wrench size rear	mm (in)	18 (3/4)
Trimming Tool		TRIM-SET-S12-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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43MP-SCF12-C03 Outline drawing

External Document Links  
Installation Instruction

Notes