

4.3-10 Male Straight Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, O-Ring and compression sealing

OMNI FIT<sup>M</sup> high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) 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. Sealing against outer conductor and jacket by means of the o-ring and 360° compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket.

#### **FEATURES / BENEFITS**

- Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Tri metal alloy plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis



# **Technical features**

### **GENERAL SPECIFICATIONS**

Transmission Line Type	Coaxial Cable	
Cable Size	1/2	
Cable Type	Foam Dielectric Superflexible	
Model Series	SCF12-50 Series	
Connector Interface	4.3-10	
Connector Type	OMNI FIT™ PREMIUM Straight	
Sealing Method	Polymer claw + 360° Compression	
Gender	Male	

# **ELECTRICAL SPECIFICATIONS**

Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40)
		1.0 < f ≤ 2.2 GHz: 1.03 (37)
		2.2 &It f ≤ 2.7 GHz: 1.03 (36)
		2.7 < f ≤ 3.8 GHz: 1.05 (30)
		3.8 < f ≤ 5.0 GHz: 1.11 (26)
		5.0 < f ≤ 6.0 GHz: 1.15 (23)

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# **MECHANICAL SPECIFICATIONS Plating Outer/Inner** Tri metal alloy / Silver Length mm (in) 54.1 (2.13) **Outer Diameter** 22.5 (0.89) mm (in) **Inner Contact Attachment** Basket **Outer Contact Attachment** 360° clamping **ACCESSORIES** Wrench size front mm (in) 22 (7/8) Wrench size rear 20 (7/8) mm (in) **Trimming Tool** TRIM-SET-S12-D01, TRIM-SCF12-D01-A **TESTING AND ENVIRONMENTAL Waterproof Level** IP68 (54, 1) HEX 22 HEX 22 Marker HEX 20

External Document Links Installation Instruction

Notes

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