



**43F-SCF12-E01**

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

OMNI FIT™ 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 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		sealing rubber
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 <math>\leq f \leq 1.0 \text{ GHz}</math>: 1.02 (40) 1.0 <math>\leq f \leq 2.2 \text{ GHz}</math>: 1.03 (37) 2.2 <math>\leq f \leq 2.7 \text{ GHz}</math>: 1.03 (36) 2.7 <math>\leq f \leq 3.8 \text{ GHz}</math>: 1.05 (30) 3.8 <math>\leq f \leq 5.0 \text{ GHz}</math>: 1.11 (26) 5.0 <math>\leq f \leq 6.0 \text{ GHz}</math>: 1.15 (23)

**MECHANICAL SPECIFICATIONS**

Plating Outer/Inner		Tri metal alloy / Silver
Length	mm (in)	54.1 (2.13)
Outer Diameter	mm (in)	23.5 (0.9)
Inner Contact Attachment		spring finger
Outer Contact Attachment		clamping



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**ACCESSORIES**

<b>Wrench size front</b>	mm (in)	22 (7/8)
<b>Wrench size rear</b>	mm (in)	20 (7/8)
<b>Trimming Tool</b>		TRIM-SET-S12-D01, TRIM-SCF12-D01-A

**TESTING AND ENVIRONMENTAL**

<b>Waterproof Level</b>		IP68
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