



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 $\leq f \leq 1.0 \text{ GHz}$: 1.02 (40) 1.0 $\leq f \leq 2.2 \text{ GHz}$: 1.03 (37) 2.2 $\leq f \leq 2.7 \text{ GHz}$: 1.03 (36) 2.7 $\leq f \leq 3.8 \text{ GHz}$: 1.05 (30) 3.8 $\leq f \leq 5.0 \text{ GHz}$: 1.11 (26) 5.0 $\leq f \leq 6.0 \text{ GHz}$: 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	mm (in)	23.5 (0.9)
Weight	kg (lb)	0.08 (0.17)
Inner Contact Attachment		spring finger
Outer Contact Attachment		clamping

ACCESSORIES

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

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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[Installation Instruction](#)

[Notes](#)