

4.3-10 Male Straight Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Polymer claw 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 polymer claw 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
- Unique NiTin 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



OMNI FIT™ Premium Connectors

Technical features

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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 < f ≤ 1.0 GHz: 1.02 (40.1)				
		1.0 < f ≤ 2.7 GHz: 1.03 (36.6)				
VSWR, Return Loss	VSWR (dB) $2.7 < f \le 3.7 \text{ GHz: } 1.06 (30.7)$ $3.7 < f \le 5.0 \text{ GHz: } 1.15 (23.1)$	2.7 < f ≤ 3.7 GHz: 1.06 (30.7)				
		3.7 < f ≤ 5.0 GHz: 1.15 (23.1)				
		5.0 < f ≤ 6.0 GHz: 1.25 (19.1)				

MECHANICAL SPECIFICATIONS

Plating Outer/Inner	NiTin/Silver
Inner Contact Attachment	Basket
Outer Contact Attachment	360° clamping

43M-SCF12-D01 REV : A REV DATE : 06 May 2024 www.rfsworld.com



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CCESSORIES			
Vrench size front	mm (in)	22 (7/8)	
Vrench size rear	mm (in)	22 (7/8)	
rimming Tool		TRIM-SET-S12-D01, TRIM-SCF12-D01-A	
ESTING AND ENVIRONMENTAL			
Vaterproof Level		IP68	
xternal Document Links stallation Instruction		Notes	

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