

4.3-10 Male 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

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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		
	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40)		
		1.0 < f ≤ 2.2 GHz: 1.03 (37) 2.2 < f ≤ 2.7 GHz: 1.03 (36)		
VSWD Dotum Loss				
VSWR, Return Loss		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)		

MECHANICAL SPECIFICATIONS

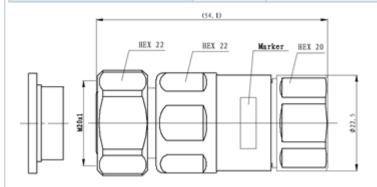
Plating Outer/Inner		Tri metal alloy / Silver			
Length	mm (in)	54.1 (2.13)			
Outer Diameter	mm (in)	22.5 (0.89)			
Inner Contact Attachment		Basket			
Outer Contact Attachment		360° clamping			

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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			



External Document Links

Installation Instruction

Notes

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