

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

#### **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	
VSWR, Return Loss	SWR, Return Loss VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40.1)	
		1.0 < f ≤ 2.7 GHz: 1.03 (36.6)	
		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

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Wrench size rear mm (in) 22  Trimming Tool TRIM-SET-S12-D0  TESTING AND ENVIRONMENTAL	(7/8)		
TRIM-SET-S12-D0  TESTING AND ENVIRONMENTAL  Waterproof Level  xternal Document Links  Notes		mm (in)	Vrench size front
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