

N Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, threaded gasket and 360° compression sealing

OMNI FIT^M 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 N connector meets all technical requirements and covers high frequencies as well as legacy applications. Sealing against outer conductor and jacket by means of threaded gasket 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	N			
Connector Type	OMNI FIT™ PREMIUM Straight			
Sealing Method	Threaded Gasket + 360° Compression			
Gender	Female			

ELECTRICAL SPECIFICATIONS

Nominal Impedance, ohms	Ohm	50		
3rd Order IM Product @ 2x20 Watts	dBc	-156 ; typical -162		
Maximum Frequency	GHz	3.7		
VSWR, Return Loss	VSWR (dB)	$0 < f \le 1.0 \text{ GHz: } 1.02 \text{ (40)}$ $1.0 < f \le 2.7 \text{ GHz: } 1.03 \text{ (36.6)}$ $2.7 < f \le 3.7 \text{ GHz: } 1.08 \text{ (28.3)}$		

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver	
Length	mm (in)	52.2 (2.1)	
Outer Diameter	mm (in)	24.8 (1)	
Inner Contact Attachment		Spring Finger	
Outer Contact Attachment		360° clamping	

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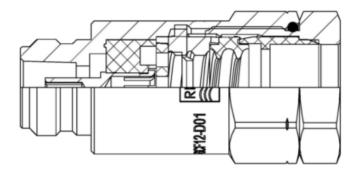
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ACCESSORIES

Wrench size front	mm (in)	22 (7/8)
Wrench size rear	mm (in)	22 (7/8)
Trimming Tool		TRIM-12-S06 TRIM-SCF12-D01-A

TESTING AND ENVIRONMENTAL

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Waterproof Level	IP68	



External Document Links

Installation Instruction

Notes

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