

PRODUCT DATASHEET

N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Right Angle, threaded gasket and 360° 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 Technologies 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

Technical features

GENERAL SPECIFICATIONS



OMNI FIT[™] Premium Connectors

Transmission Line Type		Coaxial Cable
Cable Size		1/2
Cable Type		Foam Dielectric Superflexible
Model Series		SCF12-50 Series
Connector Interface		Ν
Connector Type		OMNI FIT™ PREMIUM Straight
Sealing Method		Threaded Gasket + 360° Compression
Gender		Male
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		0 < f ≤ 1.0 GHz: 1.04 (34.2)
	VSWR (dB)	1.0 < f ≤ 2.0 GHz: 1.04 (34.2)
		2.0 < f ≤ 2.7 GHz: 1.06 (30.7)
		2.7 < f ≤ 3.7 GHz: 1.13 (24.3)



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Plating Outer/Inner		NiTin/Silver	
Length	mm (in)	60.2 (2.37)	
Outer Diameter	mm (in)	496 (1.95)	
Inner Contact Attachment		Spring Finger	
Outer Contact Attachment		360° clamping	
ACCESSORIES			
Wrench size front	mm (in)	22 (7/8)	
Wrench size rear	mm (in)	18 (7/10)	
TESTING AND ENVIRONMENTAL			
Waterproof Level		IP68	
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	24,80		