## Straight, threaded gasket and 360° compression sealing

PRODUCT DATASHEET NF-SCF12-D01

OMNI FIT<sup>™</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.

N Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium,

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<sup>™</sup> 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**

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		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)	$0 < f \le 1.0 \text{ GHz: } 1.02 (40)$ $1.0 < f \le 2.7 \text{ GHz: } 1.03 (36.6)$ $2.7 < f \le 3.7 \text{ GHz: } 1.08 (28.3)$
MECHANICAL SPECIFICATIONS		
Plating Outer/Inner		NiTin/Silver
Length	mm (in)	52.2 (2.1)

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

NF-SCF12-D01



OMNI FIT<sup>™</sup> Premium Connectors

www.rfsworld.com

REV : F

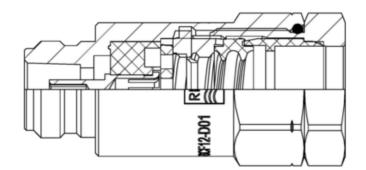
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N Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, threaded gasket and 360° compression sealing

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				
Waterproof Level		IP68		



External Document Links Installation Instruction Notes

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