

PRODUCT DATASHEET

NMR-SCF12-E01

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



Installation Instruction



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 Right Angle	
Sealing Method	Threaded Gasket + 360° Compression	
Gender	Male	

Notes

ELECTRICAL SPECIFICATIONS

Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-156 ; typical -162
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	0 < $f \le 1.0$ GHz: 1.03 (36) 1.0 < $f \le 2.2$ GHz: 1.04 (34) 2.2 < $f \le 2.7$ GHz: 1.06 (30) 2.7 < $f \le 3.8$ GHz: 1.13 (24) 3.8 < $f \le 5.0$ GHz: 1.15 (23) 5.0 < $f \le 6.0$ GHz: 1.22 (20)

NMR-SCF12-E01 REV : B REV DATE : 08 Oct 2021 www.rfstechnologies.com



Waterproof Level

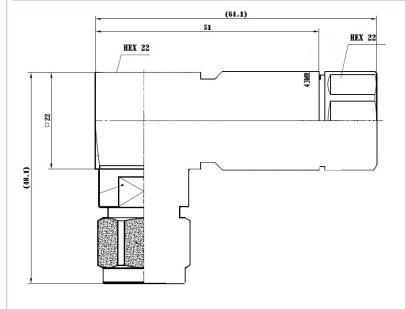
PRODUCT DATASHEET

NMR-SCF12-E01

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

MECHANICAL SPECIFICATIONS Plating Outer/Inner Tri metal alloy/Silver Length 64.1 (2.524) mm (in) **Outer Diameter** 29 (1.142) mm (in) **Inner Contact Attachment** Spring Finger **Outer Contact Attachment** 360° clamping **ACCESSORIES** Wrench size front 22 mm (in) Wrench size rear 22 mm (in) **TESTING AND ENVIRONMENTAL**

IP68



NMR-SCF12-E01 REV : B REV DATE : 08 Oct 2021 www.rfstechnologies.com