

N Male Connector for 1/4" Coaxial Cable, OMNI FIT™ Premium, Straight, 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 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.;

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OMNI FIT™ Premium Connectors

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

Transmission Line Type	Coaxial Cable		
Cable Size	1/4		
Cable Type	Foam Dielectric Superflexible		
Model Series	SCF14-50 Series		
Connector Interface	N		
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	6.0
VSWR, Return Loss	VSWR (dB)	$0 < f \le 1.0 \text{ GHz: } 1.03 \text{ (36.3)}$ $1.0 < f \le 2.0 \text{ GHz: } 1.06 \text{ (30.7)}$ $2.0 < f \le 2.7 \text{ GHz: } 1.08 \text{ (28.3)}$ $2.7 < f \le 3.7 \text{ GHz: } 1.12 \text{ (24.9)}$ $3.7 < f \le 5.0 \text{ GHz: } 1.13 \text{ (24.3)}$ $5.0 < f \le 6.0 \text{ GHz: } 1.14 \text{ (23.7)}$

MECHANICAL SPECIFICATIONS

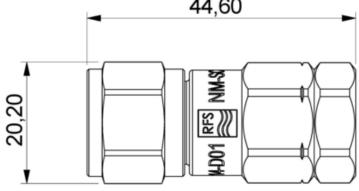
Plating Outer/Inner		NiTin/Silver
Length	mm (in)	44.6 (1.76)
Outer Diameter	mm (in)	20.2 (0.8)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

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ACCESSORIES Wrench size front | mm (in) | 18 (7/10) | Wrench size rear | mm (in) | 18 (7/10) | TESTING AND ENVIRONMENTAL Waterproof Level | IP68 | 44,60



External Document Links

Installation Instruction

Notes

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