

N Male Connector for 3/8" 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.;



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	3/8
Cable Type	Foam Dielectric Superflexible
Model Series	SCF38-50 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
VSWR, Return Loss	VSWR (dB)	$0 < f \le 1.0 \text{ GHz: } 1.02 \text{ (40)}$ $1.0 < f \le 2.2 \text{ GHz: } 1.03 \text{ (37)}$ $2.2 < f \le 2.7 \text{ GHz: } 1.03 \text{ (37)}$ $2.7 < f \le 3.8 \text{ GHz: } 1.08 \text{ (28)}$ $3.8 < f \le 5.0 \text{ GHz: } 1.15 \text{ (23)}$ $5.0 < f \le 6.0 \text{ GHz: } 1.22 \text{ (20)}$

MECHANICAL SPECIFICATIONS

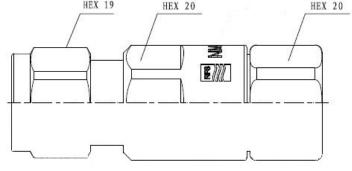
Plating Outer/Inner		Tri metal alloy/Silver
Length	mm (in)	59 (2.323)
Outer Diameter	mm (in)	22 (0.79)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

NM-SCF38-E01 REV : A REV DATE : 06 May 2024 www.rfsworld.com



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ACCESSORIES Wrench size front mm (in) 20 Wrench size rear mm (in) 20 TESTING AND ENVIRONMENTAL Waterproof Level IP68



External Document Links

Installation Instruction

Notes

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