

PRODUCT DATASHEET

NM-SCF14-E01

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.; **FEATURES / BENEFITS**



OMNI FIT™ Premium Connectors

- 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

External Document Links

Installation Instruction

Notes

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 | -152 ; typical -158 |
| Maximum Frequency | GHz | 6.0 |
| VSWR, Return Loss | VSWR (dB) | 0 < $f \le 1.0$ GHz: 1.03 (37) 1.0 < $f \le 2.2$ GHz: 1.06 (31) 2.2 < $f \le 2.7$ GHz: 1.08 (28) 2.7 < $f \le 3.7$ GHz: 1.12 (25) 3.7 < $f \le 5.0$ GHz: 1.17 (22) 5.0 < $f \le 6.0$ GHz: 1.22 (20) |

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Waterproof Level

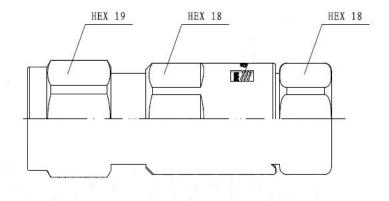
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MECHANICAL SPECIFICATIONS Plating Outer/Inner Tri metal aloy/Silver Length 55 (2.165) mm (in) **Outer Diameter** 20 (0.787) mm (in) **Inner Contact Attachment** Spring Finger **Outer Contact Attachment** 360° clamping **ACCESSORIES** Wrench size front 19/18 mm (in) Wrench size rear mm (in) 18 **TESTING AND ENVIRONMENTAL**

IP68



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