

#### PRODUCT DATASHEET

#### NM-SCF12-D01

N Male Connector for 1/2" 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

- 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



OMNI FIT™ Premium Connectors

### **Technical features**

GENERAL SPECIFICATIONS

| 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 Straight         |  |  |
| Sealing Method         | Threaded Gasket + 360° Compression |  |  |
| Gender                 | Male                               |  |  |

# **ELECTRICAL SPECIFICATIONS**

| Nominal Impedance, ohms              | Ohm       | 50   |
|--------------------------------------|-----------|--|
| 3rd Order IM Product @ 2x20<br>Watts | dBc       | -156 ; typical -162  |
| Maximum Frequency                    | GHz       | 6.0  |
| VSWR, Return Loss                    | VSWR (dB) | 0 < $f \le 1.0$ GHz: 1.02 (40)<br>1.0 < $f \le 2.7$ GHz: 1.03 (36.6)<br>2.7 < $f \le 3.7$ GHz: 1.08 (28.3)<br>3.7 < $f \le 5.0$ GHz: 1.10 (26.4)<br>5.0 < $f \le 6.0$ GHz: 1.11 (25.7) |

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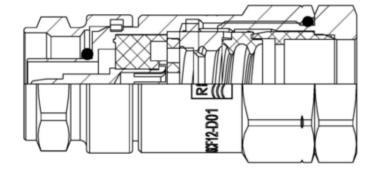


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| Plating Outer/Inner       |         | NiTin/Silver                    |  |
|---------------------------|---------|---------------------------------|--|
| Length                    | mm (in) | 52.5 (2.1)                      |  |
| Outer Diameter            | mm (in) | 24.8 (1)                        |  |
| Inner Contact Attachment  |         | Spring Finger                   |  |
| Outer Contact Attachment  |         | 360° clamping                   |  |
| ACCESSORIES               |         |                                 |  |
| Wrench size front         | mm (in) | 22 (7/8)                        |  |
| Wrench size rear          | mm (in) | 22 (7/8)                        |  |
| Trimming Tool             |         | TRIM-12-S06<br>TRIM-SCF12-D01-A |  |
| TESTING AND ENVIRONMENTAL |         |                                 |  |
| Waterproof Level          |         | IP68                            |  |



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