

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



- 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 | | |
|---------------------------|------------------------------------|--|
| 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 | | |

| 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 ≤ 1.0 GHz: 1.02 (40) 1.0 < f ≤ 2.7 GHz: 1.03 (36.6) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3) 3.7 < f ≤ 5.0 GHz: 1.10 (26.4) 5.0 < f ≤ 6.0 GHz: 1.11 (25.7) |

MECHANICAL SPECIFICATIONS 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

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Waterproof Level

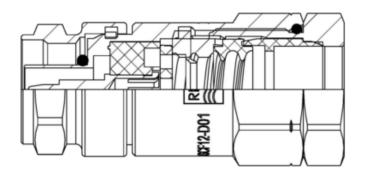
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| ACCESSORIES | | |
|---------------------------|---------|---------------------------------|
| Wrench size front | mm (in) | 22 (7/8) |
| Wrench size rear | mm (in) | 22 (7/8) |
| Trimming Tool | | TRIM-12-S06 TRIM-SCF12-D01-A |
| TESTING AND ENVIRONMENTAL | | |

IP68



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