

PRODUCT DATASHEET

NM-SCF12-E01

N Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring 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 Technologies 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 o-ring and 360° compression fit.

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
- Tri metal alloy 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 | 1/2 |
| Cable Type | Foam Dielectric Superflexible |
| Model Series | SCF12-50 Series |
| Connector Interface | N |
| Connector Type | OMNI FIT™ PREMIUM Straight |
| Sealing Method | O-ring + 360° Compression |
| Gender | Male |

ELECTRICAL SPECIFICATIONS

| Nominal Impedance, ohms | Ohm | 50 |
|--------------------------------------|-----------|--|
| 3rd Order IM Product @ 2x20 Watts | dBc | -158 ; typical -162 |
| Maximum Frequency | GHz | 6.0 |
| VSWR, Return Loss | VSWR (dB) | 0 < $f \le 1.0$ GHz: 1.02 (40) 1.0 < $f \le 2.2$ GHz: 1.03 (37) 2.2 < $f \le 2.7$ GHz: 1.03 (36) 2.7 < $f \le 3.8$ GHz: 1.07 (30) 3.8 < $f \le 5.0$ GHz: 1.11 (26) 5.0 < $f \le 6.0$ GHz: 1.15 (23) |

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MECHANICAL SPECIFICATIONS

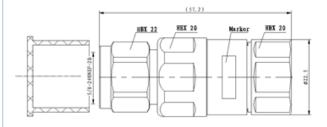
| Plating Outer/Inner | | Tri metal alloy / Silver |
|--------------------------|---------|--------------------------|
| Length | mm (in) | 57.2 (2.25) |
| Outer Diameter | mm (in) | 22.5 (0.89) |
| Inner Contact Attachment | | Spring Finger |
| Outer Contact Attachment | | 360° clamping |

ACCESSORIES

| Wrench size front | mm (in) | 20 / 22 |
|-------------------|---------|---------------------------------|
| Wrench size rear | mm (in) | 20 |
| Trimming Tool | | TRIM-12-S06 TRIM-SCF12-D01-A |

TESTING AND ENVIRONMENTAL

| Waterproof Level | IP68 |
|-------------------|-------|
| Water proof Level | 11 00 |



External Document Links Installation Instruction

Notes

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