



### 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 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 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



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

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



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#### MECHANICAL SPECIFICATIONS

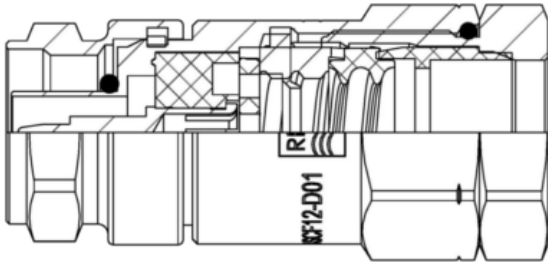
|                          |         |               |
|--------------------------|---------|---------------|
| Plating Outer/Inner      |         | NiTin/Silver  |
| Length                   | mm (in) | 52.5 (2.1)    |
| Outer Diameter           | mm (in) | 24.8 (1)      |
| Inner Contact Attachment |         | Spring Finger |
| Outer Contact Attachment |         | 360° clamping |

#### 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 |
|------------------|--|------|



[External Document Links](#)  
[Installation Instruction](#)

[Notes](#)