PRODUCT DATASHEET

# 716M-SCF12-D01

7-16 DIN 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 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions. 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.



OMNI FIT™ Premium Connectors

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

## 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** | | 7-16 DIN |
| **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 | -163 ; typical -167 |
| **Maximum Frequency** | GHz | 3.7 |
| **VSWR, Return Loss** | VSWR (dB) | 0 < f ≤ 1.0 GHz: 1.02 (40)<br>1.0 < f ≤ 2.7 GHz: 1.03 (36.6)<br>2.7 < f ≤ 3.7 GHz: 1.06 (30.7) |



All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering

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## MECHANICAL SPECIFICATIONS

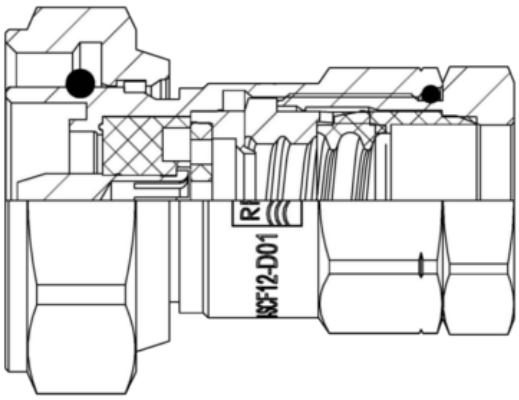
| | | |
|---|---|---|
| **Plating Outer/Inner** | | NiTin/Silver |
| **Length** | mm (in) | 47.2 (1.9) |
| **Outer Diameter** | mm (in) | 35.8 (1.4) |
| **Inner Contact Attachment** | | Spring Finger |
| **Outer Contact Attachment** | | 360° clamping |

## 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



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