



7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium,
Straight, threaded gasket and 360° compression sealing

Product Description

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 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 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 |
| Nominal Impedance, ohms | 50 |
| Connector Type | OMNI FIT™ PREMIUM Straight |
| Sealing Method | Threaded Gasket + 360° Compression |
| Gender | Male |
| Plating Outer/Inner | NiTIn/Silver |
| Length, mm (in) | 47.2 (1.9) |
| Outer Diameter, mm (in) | 35.8 (1.4) |
| Weight, kg (lb) | 0.11 (0.24) |
| Inner Contact Attachment | Spring Finger |
| Outer Contact Attachment | 360° clamping |
| 3rd Order IM Product @ 2x20 Watts, dBc | -163 ; typical -167 |
| Maximum Frequency, GHz | 3.7 |
| VSWR (Return Loss) for $0 < f \leq 1.0\text{GHz}$ | 1.02:1 (40.0 dB) |
| VSWR (Return Loss) for $1.0 < f \leq 2.7\text{GHz}$ | 1.03:1 (36.6 dB) |
| VSWR (Return Loss) for $2.7 < f \leq 3.7\text{GHz}$ | 1.06:1 (30.7 dB) |
| 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 |
| Waterproof Level | IP68 |

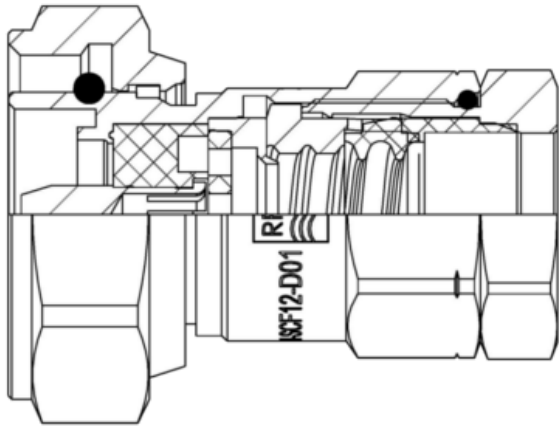
Notes

Other Documentation

Installation Instruction: [2800128-C_Inst_Con_SCF12-D01.pdf](#)



7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium,
Straight, threaded gasket and 360° compression sealing



All information contained in the present datasheet is subject to confirmation at time of ordering