

**716M-SCF12-E01**

7-16 DIN 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 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 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

[External Document Links](#)[Notes](#)[Installation Instruction](#)**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 | | O-ring + 360° Compression |
| Gender | | Male |

ELECTRICAL SPECIFICATIONS

| | | |
|-----------------------------------|-----------|--|
| Nominal Impedance, ohms | Ohm | 50 |
| 3rd Order IM Product @ 2x20 Watts | dBc | -163 ; typical -167 |
| Maximum Frequency | GHz | 6 |
| VSWR, Return Loss | VSWR (dB) | 0 < f ≤ 1.0 GHz: 1.02 (40) 1.0 < f ≤ 2.2 GHz: 1.03 (37) 2.2 < f ≤ 2.7 GHz: 1.03 (36) 2.7 < f ≤ 3.8 GHz: 1.06 (31) 3.8 < f ≤ 5.0 GHz: 1.11 (26) 5.0 < f ≤ 6.0 GHz: 1.15 (23) |

MECHANICAL SPECIFICATIONS

| | | |
|--------------------------|---------|--------------------------|
| Plating Outer/Inner | | Tri metal alloy / Silver |
| Length | mm (in) | 53.9 (2.12) |
| Outer Diameter | mm (in) | 22.5 (0.89) |
| Inner Contact Attachment | | Spring Finger |
| Outer Contact Attachment | | 360° clamping |



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ACCESSORIES

| | | |
|-------------------|---------|---------------------------------|
| Wrench size front | mm (in) | 32 / 24 |
| Wrench size rear | mm (in) | 20 |
| Trimming Tool | | TRIM-12-S06 TRIM-SCF12-D01-A |

TESTING AND ENVIRONMENTAL

| | | |
|------------------|--|------|
| Waterproof Level | | IP68 |
|------------------|--|------|

