



**716MR-SCF12-D01**

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



OMNI FIT™ Premium Connectors

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.

**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 Right Angle      |
| 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: 1.03 (36.6)<br>1.0 < f ≤ 2.2 GHz: 1.04 (34.2)<br>2.2 < f ≤ 2.7 GHz: 1.06 (30.7)<br>2.7 < f ≤ 3.7 GHz: 1.13 (24.3) |

**MECHANICAL SPECIFICATIONS**

|                          |         |               |
|--------------------------|---------|---------------|
| Plating Outer/Inner      |         | NiTin/Silver  |
| Length                   | mm (in) | 67 (2.64)     |
| Outer Diameter           | mm (in) | 42.7 (1.68)   |
| Inner Contact Attachment |         | Spring Finger |
| Outer Contact Attachment |         | 360° clamping |



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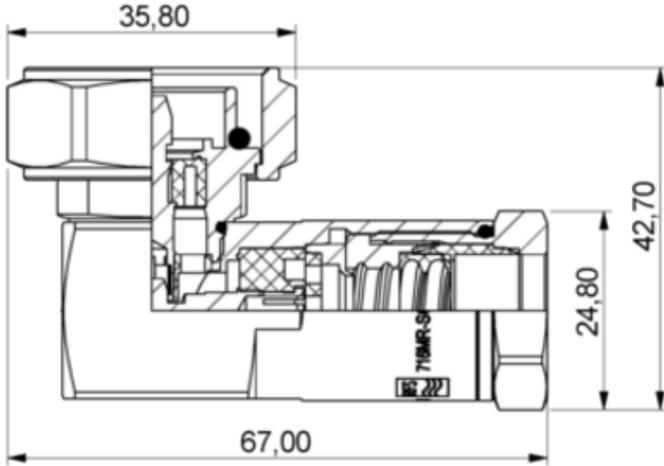
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**ACCESSORIES**

|                   |         |           |
|-------------------|---------|-----------|
| Wrench size front | mm (in) | 22 (7/8)  |
| Wrench size rear  | mm (in) | 18 (7/10) |

**TESTING AND ENVIRONMENTAL**

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



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

[Notes](#)