

## 7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Right Angle, 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 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

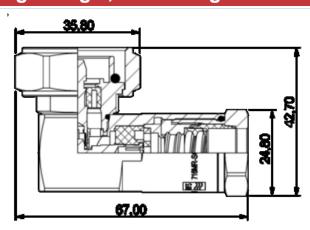
## **Technical Features**

| GENERAL SPECIFICATIONS            |           |  |
|-----------------------------------|-----------|--|
| Transmission Line Type            |           | Coaxial Cable  |
| Cable Size                        |           | 1/2"   |
| Cable Type                        |           | Foam Dielectric  |
| 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                 | 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)  |
| Weight                            | kg (lb)   | 0.2 (0.44)   |
| Inner Contact Attachment          |           | Spring Finger  |
| Outer Contact Attachment          |           | 360° clamping  |
| ACCESSORIES                       |           |  |
| Wrench size front                 | mm (in)   | 22 (7/8)   |
| Wrench size rear                  | mm (in)   | 18 (7/10)  |
| TESTING AND ENVIRONMENTAL         |           |  |
| Waterproof Level                  |           | IP68   |
|                                   |           |  |

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**External Document Links** 

**Notes** 

Installation Instruction

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