

7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium,  
Right Angle, 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 Right Angle
Sealing Method	Threaded Gasket + 360° Compression
Gender	Male
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
3rd Order IM Product @ 2x20 Watts, dBc	-163 ; typical -167
Maximum Frequency, GHz	3.7
VSWR (Return Loss, dB)	0 < f = 1.0 GHz: 1.03 (36.6) 1.0 < f = 2.2 GHz: 1.04 (34.2) 2.2 < f = 2.7 GHz: 1.06 (30.7) 2.7 < f = 3.7 GHz: 1.13 (24.3)
Wrench size front, mm (in)	22 (7/8)
Wrench size rear, mm (in)	18 (7/10)
Waterproof Level	IP68

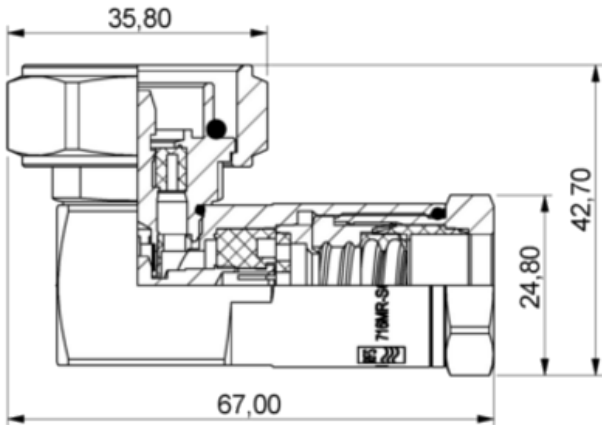
### Notes

### Other Documentation

Installation Instruction: [2800128-C\\_Inst\\_Con\\_SCF12-D01.pdf](#)



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