

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 ≤ 1.0GHz	1.02:1 (40.0 dB)
VSWR (Return Loss) for 1.0 < f ≤ 2.7GHz	1.03:1 (36.6 dB)
VSWR (Return Loss) for 2.7 < f ≤ 3.7GHz	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

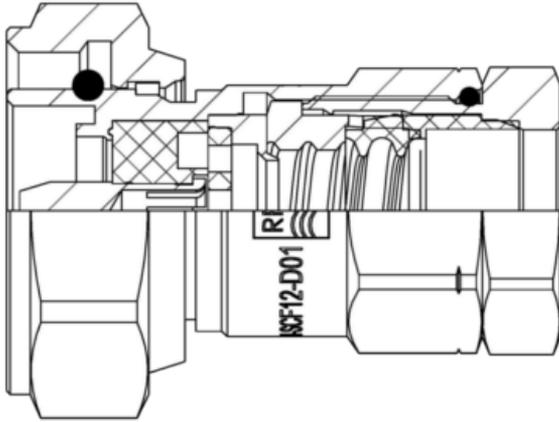
Notes

Other Documentation

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



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