

**716M-SCF12-D01**

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

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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

STRUCTURE

Cable Type	SCF
Cable Size	1/2"
Model Series	D01 Premium Series
Connector Interface Size	7/16
Connector Interface Gender	Male

MECHANICAL SPECIFICATIONS

Connector Length	47.2mm (1.9in)
Connector Outer Diameter	35.8mm (1.4in)

ELECTRICAL SPECIFICATIONS

Nominal Impedance	50 Ω	
Connector Frequency Range	DC - 3.7 GHz GHz	
PIM Ratio (2 x 20 W Carrier)	-163 dBc	
PIM ratio Typical (2 x 20 W Carrier)	-167 dBc	
Frequency Range	VSWR	Return Loss
0 < f ≤ 1.0 GHz	1.02	40
1.0 < f ≤ 2.7 GHz	1.03	36.6
2.7 < f ≤ 3.7 GHz	1.06	30.7



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TESTING AND ENVIRONMENTAL

Ingress Protection (IP) Rating	IP68
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ACCESSORIES

Wrench Size Connector Front Part	22mm (7/8in)
Wrench Size Connector Rear Part	22mm (7/8in)
Trimming Tool	TRIM-12-S06 TRIM-SCF12-D01-A



Related Documents

 **Installation Instruction ****-SCF12-D01
Installation Instructions