

## PRODUCT DATASHEET 716M-SCF12-D01

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

OMNI FIT<sup>™</sup> 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
- ${\boldsymbol{\cdot}}$  Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT^ $\operatorname{\mathsf{M}}$  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
- $\boldsymbol{\cdot}$  RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

External Document Links					
Installation Instruction					

### **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 Straight	
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		0 < f ≤ 1.0 GHz: 1.02 (40)	
	VSWR (dB)	1.0 < f ≤ 2.7 GHz: 1.03 (36.6)	
		2.7 < f ≤ 3.7 GHz: 1.06 (30.7)	

Notes

716M-SCF12-D01

REV DATE : 08 Feb 2012

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OMNI FIT<sup>™</sup> Premium Connectors

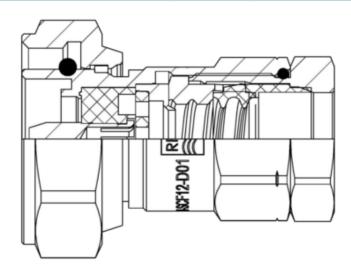


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MECHANICAL SPECIFICATIONS					
Plating Outer/Inner		NiTin/Silver			
Length	mm (in)	47.2 (1.9)			
Outer Diameter	mm (in)	35.8 (1.4)			
Inner Contact Attachment		Spring Finger			
Outer Contact Attachment		360° clamping			
ACCESSORIES					
Wrench size front	mm (in)	22 (7/8)			
Wrench size rear	mm (in)	22 (7/8)			
Trimming Tool		TRIM-12-S06			
		TRIM-SCF12-D01-A			
TESTING AND ENVIRONMENTAL					

#### Waterproof Level



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REV : E

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