

PRODUCT DATASHEET 716MR-SCF12-E01

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.

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[™] 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

External Document Links	
Installation Instruction	

Technical features

GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable
Cable Size		1/2
Cable Type		Foam Dielectric Superflexible
Nodel Series		SCF12-50 Series
connector Interface		7-16 DIN
Connector Type		OMNI FIT™ PREMIUM Right Angle
ealing Method		Threaded Gasket + 360° Compression
Gender		Male
ELECTRICAL SPECIFICATIONS		
Nominal Impedance, ohms	Ohm	50
rd Order IM Product @ 2x20 Vatts	dBc	-163 ; typical -167
Maximum Frequency	GHz	6
/SWR, Return Loss	VSWR (dB)	0 < f \leq 1.0 GHz: 1.03 (36) 1.0 < f \leq 2.2 GHz: 1.04 (34) 2.2 < f \leq 2.7 GHz: 1.06 (30) 2.7 < f \leq 3.8 GHz: 1.13 (24) 3.8 < f \leq 5.0 GHz: 1.15 (23) 5.0 < f \leq 6.0 GHz: 1.22 (20)

Notes

OMNI FIT™ Premium Connectors

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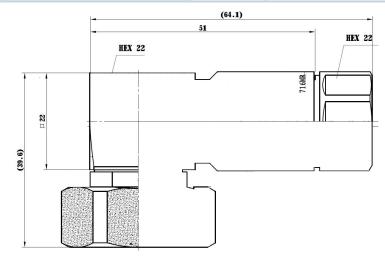
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MECHANICAL SPECIFICATIONS				
Plating Outer/Inner		Tri metal alloy/Silver		
Length	mm (in)	64.1 (2.524)		
Outer Diameter	mm (in)	29 (1.142)		
Inner Contact Attachment		Spring Finger		
Outer Contact Attachment		360° clamping		
ACCESSORIES				
Wrench size front	mm (in)	22 (32)		
Wrench size rear	mm (in)	22		

IP68

TESTING AND ENVIRONMENTAL

Waterproof Level



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