



**716M-SCF12-E01**

7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring 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 Technologies 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 o-ring and 360° compression fit.

**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
- Tri metal alloy 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**

**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		O-ring + 360° Compression
Gender		Male

**ELECTRICAL SPECIFICATIONS**

Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	0 &lt; f ≤ 1.0 GHz: 1.02 (40) 1.0 &lt; f ≤ 2.2 GHz: 1.03 (37) 2.2 &lt; f ≤ 2.7 GHz: 1.03 (36) 2.7 &lt; f ≤ 3.8 GHz: 1.06 (31) 3.8 &lt; f ≤ 5.0 GHz: 1.11 (26) 5.0 &lt; f ≤ 6.0 GHz: 1.15 (23)



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**MECHANICAL SPECIFICATIONS**

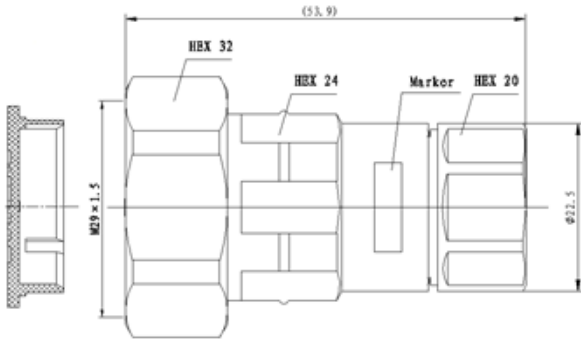
<b>Plating Outer/Inner</b>		Tri metal alloy / Silver
<b>Length</b>	mm (in)	53.9 (2.12)
<b>Outer Diameter</b>	mm (in)	22.5 (0.89)
<b>Inner Contact Attachment</b>		Spring Finger
<b>Outer Contact Attachment</b>		360° clamping

**ACCESSORIES**

<b>Wrench size front</b>	mm (in)	32 / 24
<b>Wrench size rear</b>	mm (in)	20
<b>Trimming Tool</b>		TRIM-12-S06 TRIM-SCF12-D01-A

**TESTING AND ENVIRONMENTAL**

<b>Waterproof Level</b>		IP68
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