

**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.

Feature / 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**GENERAL SPECIFICATIONS**

Cable Size	1/2
Cable Type	Foam Dielectric Superflexible
Model Series	SCF12-50 Series
Connector Interface	7-16 DIN
Connector Type	OMNI FIT™ PREMIUM Right Angle
Sealing Method	Threaded Gasket + 360° Compression

TESTING AND ENVIRONMENTAL

Waterproof Level	IP68
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MECHANICAL SPECIFICATIONS

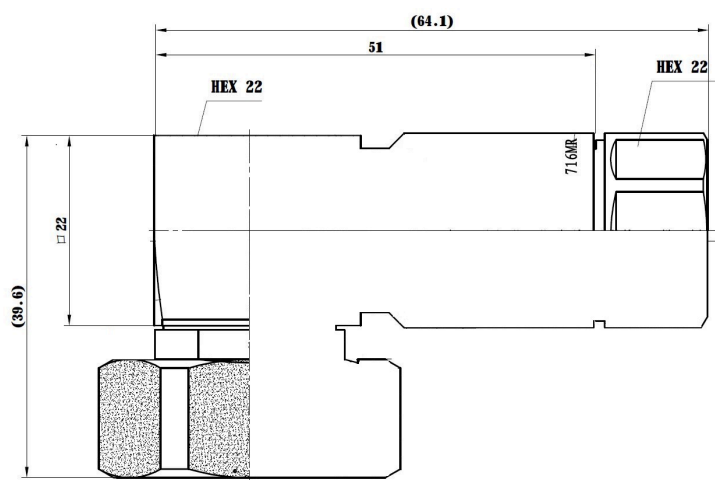
Plating Outer/Inner	Tri metal alloy/Silver
Length	64.1mm (2.524in)
Outer Diameter	29mm (1.142in)
Inner Contact Attachment	Spring Finger
Outer Contact Attachment	360° clamping

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ELECTRICAL SPECIFICATIONS

Nominal Impedance	50 ohms	
3rd Order IM Product @ 2x20 Watts	-163 ; typical -167	
Maximum Frequency	6 GHz	
Frequency Range	VSWR value	Return Loss value
0 < f ≤ 1.0 GHz	1.03	36
1.0 < f ≤ 2.2 GHz	1.04	34
2.2 < f ≤ 2.7 GHz	1.06	30
2.7 < f ≤ 3.8 GHz	1.13	24
3.8 < f ≤ 5.0 GHz	1.15	23
5.0 < f ≤ 6.0 GHz	1.22	20



External Document Links

Notes