

PRODUCT DATASHEET 716F-SCF12-E01

7-16 DIN Female 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 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.

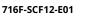
FEATURES / BENEFITS

- 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

External Document Links	Notes	
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	O-ring + 360° Compression			
Gender	Female			
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)	VSWR (dB) $\begin{array}{c} 0 < f \le 1.0 \text{ GHz: } 1.02 \text{ (40)} \\ 1.0 < f \le 2.2 \text{ GHz: } 1.03 \text{ (37)} \\ 2.2 < f \le 2.7 \text{ GHz: } 1.03 \text{ (36)} \\ 2.7 < f \le 3.8 \text{ GHz: } 1.06 \text{ (31)} \\ 3.8 < f \le 5.0 \text{ GHz: } 1.11 \text{ (26)} \\ 5.0 < f \le 6.0 \text{ GHz: } 1.15 \text{ (23)} \end{array}$		
MECHANICAL SPECIFICATIONS				
Plating Outer/Inner		Tri metal alloy / Silver		
Length	mm (in)	57.7 (2.272)		
Outer Diameter	mm (in)	26 (1.024)		
Inner Contact Attachment		Spring Finger		



Outer Contact Attachment

REV : B

REV DATE : 08 Oct 2021

360° clamping

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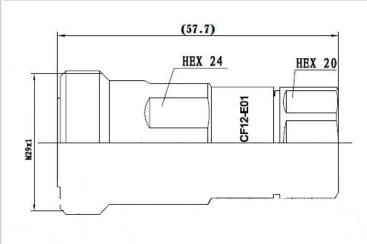
Straight, O-Ring and 360° compression sealing

ACCESSORIES			
Wrench size front	mm (in)	24	
Wrench size rear	mm (in)	20	
Trimming Tool		TRIM-12-S06 TRIM-SCF12-D01-A	

TESTING AND ENVIRONMENTAL

Waterproof Level

IP68



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All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering