

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 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 oring and 360° compression fit.

FEATURES / BENEFITS

- Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- $\bullet \ \mathsf{Two-piece} \ \mathsf{design} \ \mathsf{i.e.} \ \mathsf{visual} \ \mathsf{inspection} \ \mathsf{of} \ \mathsf{interlocking} \ \mathsf{leads} \ \mathsf{to} \ \mathsf{improved} \ \mathsf{installation} \ \mathsf{security}$
- 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 SI ECHTCATIONS				
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			

Connector Type OMNI FIT™ PREMIUM Straigh

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 < f ≤ 1.0 GHz: 1.02 (40)
		1.0 < f ≤ 2.2 GHz: 1.03 (37)
		2.2 < f ≤ 2.7 GHz: 1.03 (36)
		2.7 < f ≤ 3.8 GHz: 1.06 (31)
		3.8 < f ≤ 5.0 GHz: 1.11 (26)
		5.0 < f ≤ 6.0 GHz: 1.15 (23)

MECHANICAL SPECIFICATIONS

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

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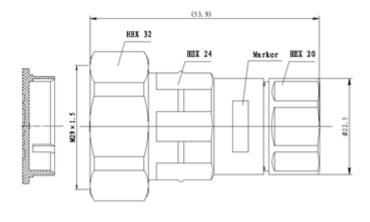


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ACCESSORIES		
Wrench size front	mm (in)	32 / 24
Wrench size rear	mm (in)	20
Trimming Tool		TRIM-12-S06 TRIM-SCF12-D01-A

TESTING AND ENVIRONMENTAL





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