

**716M-SCF12-C03**

7-16 Male Connector for 1/2" Coaxial SuperFlexibleCable, OMNI FIT™ standard



OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) 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.

Feature / Benefits

- Cost effective two-piece design for safe and easy installation
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up, reduces the number of dropped calls and avoids revenue losses
- Standard electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) 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
Connector Type	OMNI FIT™ Standard
Sealing Method	O-ring

TESTING AND ENVIRONMENTAL

Waterproof Level	IP68
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MECHANICAL SPECIFICATIONS

Plating Outer/Inner	Trimetal/Silver
Length	43.5mm (1.72in)
Outer Diameter	36mm (1.42in)
Inner Contact Attachment	Basket
Outer Contact Attachment	Rigidity impaction

ELECTRICAL SPECIFICATIONS

Nominal Impedance	50 ohms	
3rd Order IM Product @ 2x20 Watts	-157 ; typical -160	
Maximum Frequency	6 GHz	
Frequency Range	VSWR value	Return Loss value
0 < f ≤ 1.0 GHz	1.03	36.6
1.0 < f ≤ 2.7 GHz	1.04	34.1
2.7 < f ≤ 3.7 GHz	1.08	28.3
3.7 < f ≤ 5.0 GHz	1.15	23.1
5.0 < f ≤ 6.0 GHz	1.25	19.1



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ACCESSORIES

Trimming Tool	TRIM-SET-S12-C02
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External Document Links

Notes