



**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.

**Features / 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**

**STRUCTURE**

Cable Type	SCF
Cable Size	1/2"
Qualified Cable Types	SCF12-50J / JFN
Model Series	C03 Standard Series
Connector Interface Size	7/16
Connector Interface Gender	Male

**MECHANICAL SPECIFICATIONS**

Connector Length	43.5mm (1.72in)
Connector Outer Diameter	36mm (1.42in)
Inner Conductor Material / Coating	Brass Alloy / Silver Plated
Outer Conductor Material / Coating	Brass Alloy / Trimetal Plated
Insulation Material	TPX / PTFE
Sealing Method	O-Ring

**ELECTRICAL SPECIFICATIONS**

Nominal Impedance	50 Ω	
Connector Frequency Range	DC - 6.0 GHz GHz	
PIM Ratio (2 x 20 W Carrier)	-157 dBc	
PIM ratio Typical (2 x 20 W Carrier)	-160 dBc	
Frequency Range	VSWR	Return Loss
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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#### TESTING AND ENVIRONMENTAL

Ingress Protection (IP) Rating	IP68
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#### ACCESSORIES

Wrench Size Connector Interface	32mm (1.26in)
Wrench Size Connector Front Part	18mm (0.71in)
Wrench Size Connector Rear Part	18mm (0.71in)
Trimming Tool	TRIM-SET-S12-C02

#### Related Documents



Installation Instruction \*\*-SCF12-C03  
Installation Instructions