

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 / RENEFITS 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 716F-SCF12-C03 **Technical features GENERAL SPECIFICATIONS** Coaxial Cable **Transmission Line Type** Cable Size 1/2 Cable Type Foam Dielectric Superflexible **Model Series** SCF12-50 Series **Connector Interface** 7-16 OMNI FIT™ Standard **Connector Type Sealing Method** O-ring Gender Female **ELECTRICAL SPECIFICATIONS** Nominal Impedance, ohms Ohm 50 3rd Order IM Product @ 2x20 dBc -157; typical -160 Watts **Maximum Frequency** GHz 6

MECHANICAL SPECIFICATIONS

VSWR, Return Loss

WECHANICAL SPECIFICATIONS				
Plating Outer/Inner			Trimetal/Silver	
Length	mm (in)		46.6 (1.83)	
Outer Diameter	mm (in)		29 (1.14)	
Inner Contact Attachment			Basket	
Outer Contact Attachment			Rigidity impaction	
ACCESSORIES				
Wrench size front	mm (in)		20 (0.79)	
Wrench size rear	mm (in)		18 (0.71)	
Trimming Tool			TRIM-SET-S12-C02	
'16F-SCF12-C03		REV : C	REV DATE : 06 May 2024	www.rfsworld.com

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)

716F-SCF12-C03

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

VSWR (dB)



PRODUCT DATASHEET 716F-SCF12-C03

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

3.3

716F-SCF12-C03 Outline Drawing

TESTING AND ENVIRONMENTAL Waterproof Level IP68

External Document Links Installation Instruction Notes

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