

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

OMNI FIT<sup>™</sup> 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**

## **GENERAL SPECIFICATIONS**

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Transmission Line Type			Coaxial Cable	
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	
Gender			Female	
ELECTRICAL SPECIFICATIONS				
Nominal Impedance, ohms	Ohm		50	
3rd Order IM Product @ 2x20 Watts	dBc		-157 ; typical -160	
Maximum Frequency	GHz		6.0	
VSWR, Return Loss	VSWR (dB)		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)	
MECHANICAL SPECIFICATIONS				
Plating Outer/Inner			Trimetal/Silver	
.ength	mm (in)		46.6 (1.83)	
Duter Diameter	mm (in)		29 (1.14)	
nner 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	
165-50512-003	a	EV.	PE// DATE · 07 Oct 2018	www.rfsworld.co



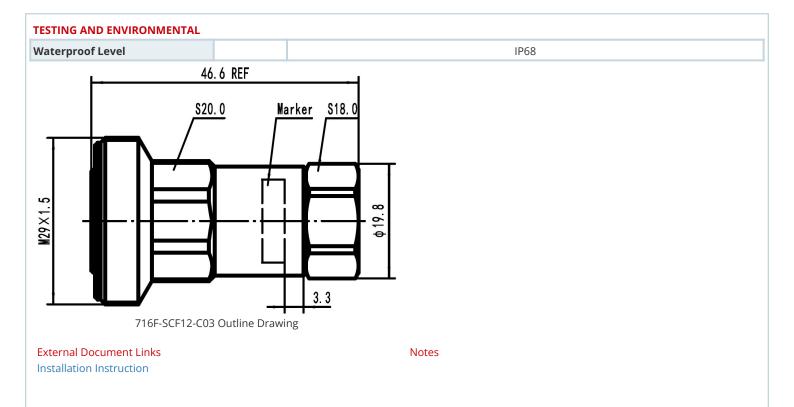


716F-SCF12-C03



## PRODUCT DATASHEET 716F-SCF12-C03

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REV DATE : 07 Oct 2018