



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 Technologies 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
- Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- 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
- Superior 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) and CRoHS (China) compliant i.e. can be used on a global basis



716F-LCF12-C03

**Technical features**

**GENERAL SPECIFICATIONS**

<b>Transmission Line Type</b>		Coaxial Cable		
<b>Cable Size</b>		1/2		
<b>Cable Type</b>		Foam Dielectric		Radiating
<b>Model Series</b>		LCF12-50 Series	ICA12-50 Series	RCF12-50 Series
<b>Connector Interface</b>		7-16 DIN		
<b>Connector Type</b>		OMNI FIT™ Standard		
<b>Sealing Method</b>		O-ring		
<b>Gender</b>		Female		

**ELECTRICAL SPECIFICATIONS**

<b>Nominal Impedance, ohms</b>	Ohm	50		
<b>3rd Order IM Product @ 2x20 Watts</b>	dBc	-157 ; typical -160		
<b>Maximum Frequency</b>	GHz	6.0		
<b>VSWR, Return Loss</b>	VSWR (dB)	0 &lt; f ≤ 1.0 GHz: 1.03 (36.6) 1.0 &lt; f ≤ 2.7 GHz: 1.04 (34.1) 2.7 &lt; f ≤ 3.7 GHz: 1.08 (28.3) 3.7 &lt; f ≤ 5.0 GHz: 1.15 (23.1) 5.0 &lt; f ≤ 6.0 GHz: 1.25 (19.1)		

**MECHANICAL SPECIFICATIONS**

<b>Plating Outer/Inner</b>		Trimetal/Silver		
<b>Length</b>	mm (in)	51.8 (2)		
<b>Outer Diameter</b>	mm (in)	29 (1.14)		
<b>Inner Contact Attachment</b>		Spring Finger		
<b>Outer Contact Attachment</b>		Spring C-Ring		

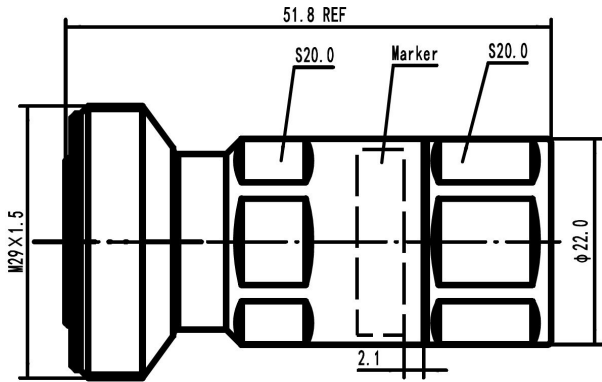


ACCESSORIES

Wrench size front	mm (in)	20 (0.79)
Wrench size rear	mm (in)	20 (0.79)
Trimming Tool		TRIM-SET-L12-C02

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
------------------	--	------



716F-LCF12-C03 Outline drawing

External Document Links  
[Installation instruction](#)

[Notes](#)