



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. 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-LCF78-C03

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[Notes](#)

[Application Note](#)

[Installation Instruction](#)

**Technical features**

**GENERAL SPECIFICATIONS**

<b>Transmission Line Type</b>	Coaxial Cable		
<b>Cable Size</b>	7/8		
<b>Cable Type</b>	Foam Dielectric	Ultraflexible	Radiating
<b>Model Series</b>	LCF78-50 Series		RCF78-50 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**

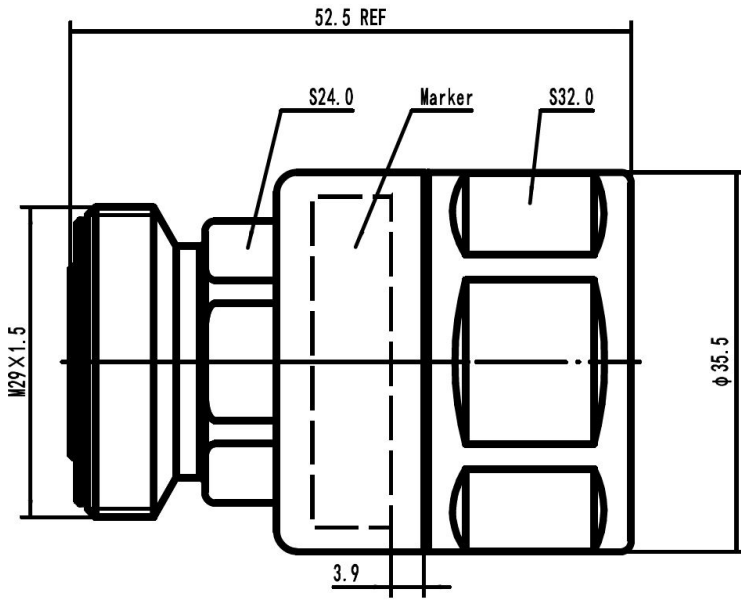
Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	52.5 (2.07)
Outer Diameter	mm (in)	35.5 (1.4)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring O-Ring

**ACCESSORIES**

Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	32 (1-1/4)

**TESTING AND ENVIRONMENTAL**

Waterproof Level		IP68
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716F-LCF78-C03 Outline drawing