



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
- 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



OMNI FIT™ Standard Connectors

**Technical features**

**GENERAL SPECIFICATIONS**

Transmission Line Type		Coaxial Cable		
Cable Size		7/8		
Cable Type		Foam Dielectric	Ultraflexible	Radiating
Model Series		LCF78-50 Series		RCF78-50 Series
Connector Interface		7-16 DIN		
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	-159 typical		
Maximum Frequency	GHz	3.7		
VSWR, Return Loss	VSWR (dB)	0 <math>f \le 1.0 \text{ GHz}</math>: 1.03 (36.6) 1.0 <math>f \le 2.7 \text{ GHz}</math>: 1.04 (34.1) 2.7 <math>f \le 3.7 \text{ GHz}</math>: 1.08 (28.3)		

**MECHANICAL SPECIFICATIONS**

Plating Outer/Inner		Trimetal/Silver		
Length	mm (in)	51.7 (2)		
Outer Diameter	mm (in)	35.5 (1.4)		
Inner Contact Attachment		Spring Finger		
Outer Contact Attachment		Spring O-Ring		

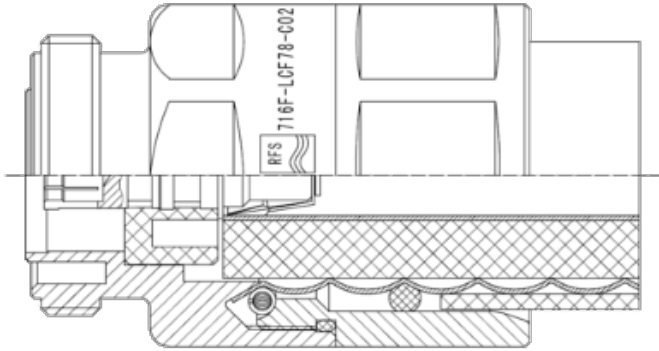
**ACCESSORIES**

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



**TESTING AND ENVIRONMENTAL**

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



**External Document Links**

[Application Note](#)

[Installation Instruction](#)

**Notes**