

7-16 DIN Female Connector for 7/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

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

External Document Links

Application Note

Installation Instruction



OMNI FIT™ Standard Connectors

Technical features

GENERAL	SPECIFICATIONS

Transmission Line Type	Coaxial Cable			
Cable Size	7/8			
Cable Type	Foam Dielectric	Ultraf	lexible	Radiating
Model Series	LCF78-50 Series RCF78-50 Series		RCF78-50 Series	
Connector Interface	7-16 DIN			
Connector Type		OMNI FIT	™ Standard	
Sealing Method		1-O	ring	
Gender	Female			
ELECTRICAL SPECIFICATIONS				

Notes

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 < 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)

MECHANICAL SPECIFICATIONS

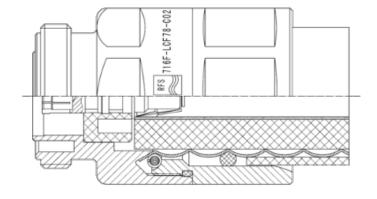
Plating Outer/Inner		Trimetal/Silver	
Length	mm (in)	51.7 (2)	
Outer Diameter	mm (in)	35.5 (1.4)	
Inner Contact Attachment		Spring Finger	
Outer Contact Attachment		Spring O-Ring	

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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		



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