



716MR-LCF12-C03

7-16 DIN Male Right Angle Connector for 1/2" 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.

Feature / 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

Technical features

GENERAL SPECIFICATIONS

Cable Size	1/2		
Cable Type	Foam Dielectric		
Model Series	LCF12-50 Series	ICA12-50 Series	RCF12-50 Series
Connector Interface	7-16 DIN		
Connector Type	OMNI FIT™ Standard Right Angle		
Sealing Method	O-Ring		

TESTING AND ENVIRONMENTAL

Waterproof Level	IP68
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MECHANICAL SPECIFICATIONS

Plating Outer/Inner	Trimetal/Silver
Length	57.9mm (2.28in)
Outer Diameter	38.7mm (1.5in)
Inner Contact Attachment	Basket
Outer Contact Attachment	Spring C-Ring



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ELECTRICAL SPECIFICATIONS

Nominal Impedance	50 ohms	
3rd Order IM Product @ 2x20 Watts	-157 ; typical -160	
Maximum Frequency	6.0 GHz	
Frequency Range	VSWR value	Return Loss value
0 < f ≤ 1.0 GHz	1.04	34.1
1.0 < f ≤ 2.2 GHz	1.07	29.4
2.2 < f ≤ 2.7 GHz	1.09	27.3
2.7 < f ≤ 3.7 GHz	1.13	24.3
3.7 < f ≤ 5.0 GHz	1.25	19.1
5.0 < f ≤ 6.0 GHz	1.3	17.7

External Document Links

Notes