7-16 DIN Male Right Angle Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

OMNI FIT^M 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.

FFATURES / RENEFITS

- 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

716MR-LCF12-C03

Technical features

GENERAL SPECIFICATION	

Transmission Line Type	Coaxial Cable		
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		
Gender	Male Right Angle		

ELECTRICAL SPECIFICATIONS

Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-157 ; typical -160
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	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: 1.30 (17.7)

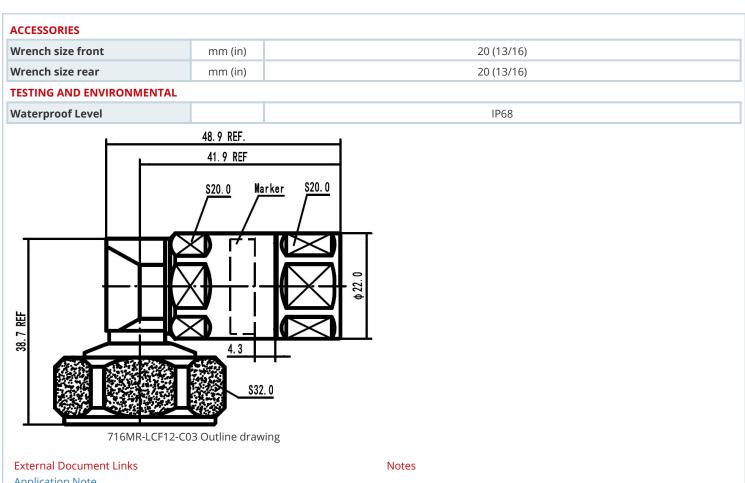
MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	57.9 (2.28)
Outer Diameter	mm (in)	38.7 (1.5)
Weight	kg (lb)	0.135 (0.3)
Inner Contact Attachment		Basket
Outer Contact Attachment		Spring C-Ring

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Application Note Installation instruction

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