

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

OMNI FIT<sup>M</sup> 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



716M-LCF12-C03

### **Technical features**

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GENERAL SPECIFICATIONS					
Transmission Line Type		Coaxial Cable			
Cable Size		1/2			
Cable Type	Foam Dielectric		Radiating		
Model Series	LCF12-50 Series	ICA12-50 Series	RCF12-50 Series		
Connector Interface		7-16 DIN			
Connector Type		OMNI FIT™ Standard			
Sealing Method		O-ring			
Gender		Male			

#### **ELECTRICAL SPECIFICATIONS**

Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-157 ; typical -160
Maximum Frequency	GHz	6.0
		0 < f ≤ 1.0 GHz: 1.03 (36.6)
		1.0 < f ≤ 2.7 GHz: 1.04 (34.1)
VSWR, Return Loss	VSWR (dB)	2.7 < f ≤ 3.7 GHz: 1.08 (28.3)
		3.7 < f ≤ 5.0 GHz: 1.15 (23.1)
		5.0 < f ≤ 6.0 GHz: 1.25 (19.1)

#### **MECHANICAL SPECIFICATIONS**

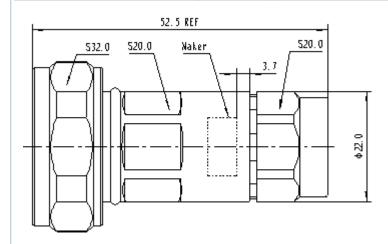
Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	52.8 (2.08)
Outer Diameter	mm (in)	36 (1.42)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring

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ACCESSORIES				
Wrench size front	mm (in)	20 (13/16)		
Wrench size rear	mm (in)	20 (13/16)		
Trimming Tool		TRIM-SET-L12-C02		
TESTING AND ENVIRONMENTAL				
Waterproof Level		IP68		



716M-LCF12-C03 Outline drawing

## **External Document Links**

Application Note Installation instruction

Notes

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