

# 7-16 DIN Male 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. 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**

### **GENERAL SPECIFICATIONS**

Transmission Line Type		Coaxial Cable			
Cable Size		1/2			
Cable Type	Foam Dielectric	Foam Dielectric			
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
VSWR, Return Loss	VSWR (dB)	0 < $f \le 1.0$ GHz: 1.03 (36.6) 1.0 < $f \le 2.7$ GHz: 1.04 (34.1) 2.7 < $f \le 3.7$ GHz: 1.08 (28.3) 3.7 < $f \le 5.0$ GHz: 1.15 (23.1) 5.0 < $f \le 6.0$ 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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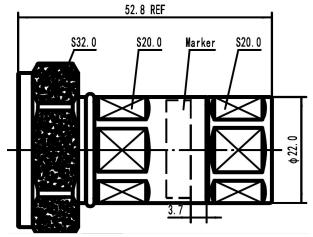


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# Wrench size front mm (in) 20 (13/16) Wrench size rear mm (in) 20 (13/16) Trimming Tool TRIM-SET-L12-C02

### **TESTING AND ENVIRONMENTAL**

Waterproof Level	IP68	



716M-LCF12-C03 Outline drawing

External Document Links Application Note Installation instruction Notes

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