

## 7-16 DIN Male Connector for 1-1/4" 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** 

Notes

**Application Note** 

Installation Instruction

OMNI FIT™ Standard Connectors

# Technical features

Transmission Line Type     Coaxial Cable       Cable Size     1 1/4       Cable Type     Foam Dielectric     Ultraflexible     Radiating       Model Series     UCF114-50A-Series     LCF114-50A-Series     LCFS114-50A-Series       Connector Interface     7-16 DIN       Connector Type     OMNI FIT™ Standard       Sealing Method     O-ring       Gender     Male       ELECTRICAL SPECIFICATIONS	GENERAL SPECIFICATIONS					
Cable Type       Foam Dielectric       Ultraflexible       Radiating         Model Series       UCF114-50A-Series       LCF114-50A-Series       LCFS114-50A-Series         Connector Interface       7-16 DIN         Connector Type       OMNI FIT™ Standard         Sealing Method       O-ring         Gender       Male	Transmission Line Type		Coaxial Cable			
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Sealing Method O-ring Gender Male	Connector Interface		7-16 DIN			
Gender Male	Connector Type		OMNI FIT™ Standard			
	Sealing Method		O-ring			
ELECTRICAL SPECIFICATIONS	Gender		Male			
	ELECTRICAL SPECIFICATIONS					

Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-159 typical
Maximum Frequency	GHz	3.6
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.05 (32.3) 2.7 < f ≤ 3.6 GHz: 1.08 (28.3)

### **MECHANICAL SPECIFICATIONS**

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	69.3 (2.7)
Outer Diameter	mm (in)	48.8 (1.9)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring

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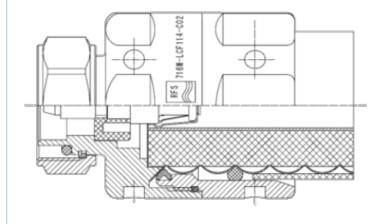


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ACCESSORIES		
Wrench size front	mm (in)	Open end wrench 45 (1-3/4)
Wrench size rear	mm (in)	Open end wrench 45 (1-3/4)
Poly Hook Spanner	mm (in)	PHS 60-90-5 Ø 60-90 (2.3-3.5) Pin 5 (0.2)
TECTINIC AND ENVIRONMENTAL		

### TESTING AND ENVIRONMENTAL

Ш	Waterproof Level	IP68	
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