



## 7-16 DIN Female 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.

### 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



OMNI FIT™ Standard Connectors

### Technical Features

#### GENERAL SPECIFICATIONS

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

#### ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-159 typical
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3)

#### MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	56.6 (2.2)
Outer Diameter	mm (in)	28.9 (1.1)
Weight	kg (lb)	0.14 (0.31)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring

#### ACCESSORIES

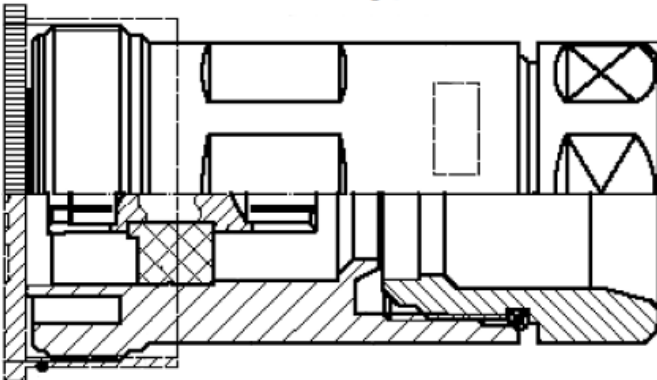
Wrench size front	mm (in)	24 (15/16)
Wrench size rear	mm (in)	24 (15/16)

#### TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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### External Document Links

Application Note  
Installation instruction

### Notes