

## 7-16 DIN Female Connector for 1-5/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

**Product Description**

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.



OMNI FIT™ Standard Connectors

**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

**Technical Specifications**

Transmission Line Type	Coaxial Cable
Cable Size	1 5/8"
Cable Type	Foam Dielectric, Radiating
Model Series	LCF158-50A-Series, LCF158-50L-Series
Connector Interface	7-16 DIN
Nominal Impedance, ohms	50
Connector Type	OMNI FIT™ Standard
Sealing Method	O-ring
Gender	Female
Plating Outer/Inner	Trimetal/Silver
Length, mm (in)	64.6 (2.54)
Outer Diameter, mm (in)	62.9 (2.5)
Weight, kg (lb)	0.46 (1.01)
Inner Contact Attachment	Spring Finger
Outer Contact Attachment	Spring C-Ring
3rd Order IM Product @ 2x20 Watts, dBc	-159 typical
Maximum Frequency, GHz	2.75
VSWR (Return Loss, dB)	0 < f = 1.0 GHz: 1.03 (36.6) 1.0 < f = 2.2 GHz: 1.04 (34.1) 2.0 < f = 2.75 GHz: 1.07 (30.0)
Wrench size front, mm (in)	Open end wrench 55 (2-1/6)
Wrench size rear, mm (in)	Open end wrench 60 (2-1/3)
Poly Hook Spanner, mm (in)	PHS 60-90-5 Ø 60-90 (2.3-3.5) Pin 5 (0.2)
Waterproof Level	IP68

**Notes****Other Documentation**

Installation instruction: [10000006016-04.pdf](#)

Application Note: [10000009163-01\\_Application Note\\_Installation of Heat Shrink Sleeves for additional sealing of Connectors.pdf](#)



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