

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	<-155
Maximum Frequency, GHz	2.75
VSWR (Return Loss) for $0 < f \leq 1.0$ GHz	1.03:1 (36.6 dB)
VSWR (Return Loss) for $1.0 < f \leq 2.2$ GHz	1.04:1 (34.1 dB)
VSWR (Return Loss) for $2.2 < f \leq 2.75$ GHz	1.065:1 (30.0 dB)
Wrench size front, mm (in)	55 (2-1/6), Poly Hook Spanner Wrench
Wrench size rear, mm (in)	60 (2-1/3), Poly Hook Spanner Wrench
Waterproof Level	IP68

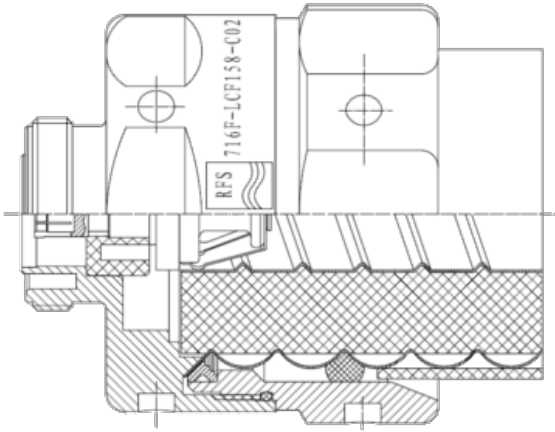
## Notes

## Other Documentation

Installation instruction: [2800122-C\\_Inst\\_Con\\_LCF158-C02.pdf](http://www.rfsworld.com/2800122-C_Inst_Con_LCF158-C02.pdf)



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All information contained in the present datasheet is subject to confirmation at time of ordering