

7-16 DIN Male Connector for 1/2" 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	1/2"
Cable Type	Foam Dielectric, Radiating
Model Series	LCF12-50 Series / ICA12-50 Series
Connector Interface	7-16 DIN
Nominal Impedance, ohms	50
Connector Type	OMNI FIT™ Standard
Sealing Method	O-ring
Gender	Male
Plating Outer/Inner	Trimetal/Silver
Length, mm (in)	60.1 (2.4)
Outer Diameter, mm (in)	36.0 (1.417)
Weight, kg (lb)	0.17 (0.37)
Inner Contact Attachment	Spring Finger
Outer Contact Attachment	Spring O-Ring
3rd Order IM Product @ 2x20 Watts, dBc	<-155
Maximum Frequency, GHz	3.7
VSWR (Return Loss) for 0 < f ≤ 1.0GHz	1.03:1 (36.6 dB)
VSWR (Return Loss) for 1.0 < f ≤ 2.7GHz	1.04:1 (34.1 dB)
VSWR (Return Loss) for 2.7 < f ≤ 3.7GHz	1.08:1 (28.3 dB)
Wrench size front, mm (in)	24 (15/16)
Wrench size rear, mm (in)	24 (15/16)
Waterproof Level	IP68

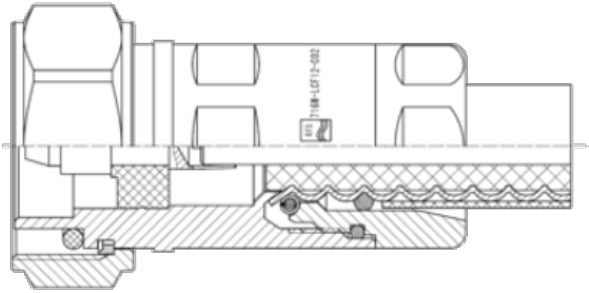
Notes

Other Documentation

Installation instruction: [2800119-D_Inst_Con_LCF12-C02.pdf](http://www.rfsworld.com/2800119-D_Inst_Con_LCF12-C02.pdf)



7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing



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