

## 7-16 DIN Male Right Angle 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
Model Series	LCF12-50 Series / ICA12-50 Series
Connector Interface	7-16 DIN
Nominal Impedance, ohms	50
Connector Type	OMNI FIT™ Standard Right Angle
Sealing Method	O-Ring
Gender	Male
Plating Outer/Inner	Trimetal/Silver
Length, mm (in)	60.0 (2.4)
Outer Diameter, mm (in)	48.0 (1.9)
Weight, kg (lb)	0.25 (0.55)
Inner Contact Attachment	Basket
Outer Contact Attachment	Spring O-Ring
3rd Order IM Product @ 2x20 Watts, dBc	-159 typical
Maximum Frequency, GHz	3.7
VSWR (Return Loss) for $0 < f \leq 1.0$ GHz	1.04:1 (34.1 dB)
VSWR (Return Loss) for $1.0 < f \leq 2.2$ GHz	1.07:1 (29.4 dB)
VSWR (Return Loss) for $2.2 < f \leq 2.7$ GHz	1.09:1 (27.3 dB)
VSWR (Return Loss) for $2.7 < f \leq 3.7$ GHz	1.13:1 (24.3dB)
Wrench size front, mm (in)	24 (15/16)
Wrench size rear, mm (in)	24 (15/16)
Waterproof Level	IP68

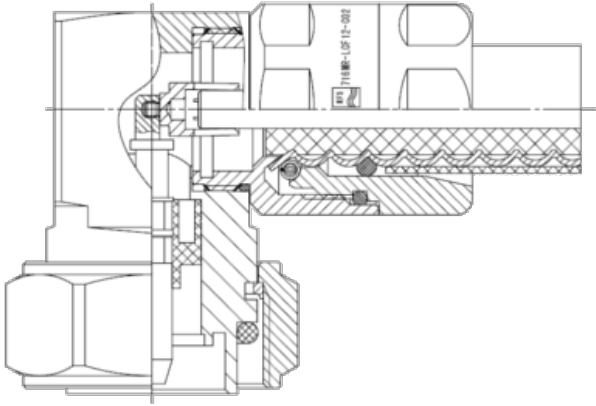
### Notes

### Other Documentation

Installation instruction: [2800119-D\\_Inst\\_Con\\_LCF12-C02.pdf](#)



7-16 DIN Male Right Angle 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