

7-16 DIN Female 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 |
| Connector Type | OMNI FIT™ Standard |
| Sealing Method | O-ring |
| Gender | Female |
| 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 O-Ring |
| 3rd Order IM Product @ 2x20 Watts, dBc | <-155 |
| Maximum Frequency, GHz | 3.7 |
| VSWR (Return Loss) for $0 < f \leq 1.0$ GHz | 1.03:1 (36.6 dB) |
| VSWR (Return Loss) for $1.0 < f \leq 2.7$ GHz | 1.04:1 (34.1 dB) |
| VSWR (Return Loss) for $2.7 < f \leq 3.7$ GHz | 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 |

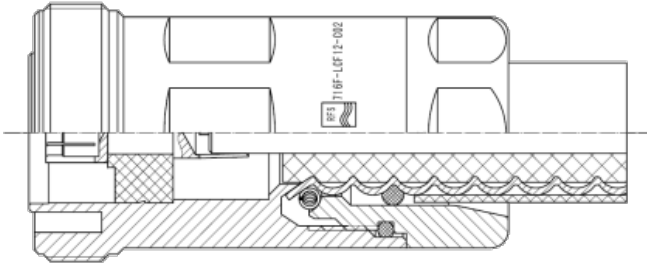
Notes

Other Documentation

Installation instruction: [2800119-C.pdf](#)



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