



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.

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



OMNI FIT™ Standard Connectors

Technical features

GENERAL SPECIFICATIONS

| | | | | |
|------------------------|--|--------------------|-------------------|------------------|
| Transmission Line Type | | Coaxial Cable | | |
| Cable Size | | 1 1/4 | | |
| Cable Type | | Foam Dielectric | Ultraflexible | Radiating |
| Model Series | | UCF114-50 Series | LCFS114-50 Series | RCF114-50 Series |
| Connector Interface | | 7-16 | | |
| Connector Type | | OMNI FIT™ Standard | | |
| Sealing Method | | O-ring | | |
| Gender | | Female | | |

ELECTRICAL SPECIFICATIONS

| | | |
|-----------------------------------|-----------|--|
| Nominal Impedance, ohms | Ohm | 50 |
| 3rd Order IM Product @ 2x20 Watts | dBc | -159 typical |
| Maximum Frequency | GHz | 3.6 |
| VSWR, Return Loss | VSWR (dB) | 0 < f ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.05 (32.3) 2.7 < f ≤ 3.6 GHz: 1.08 (28.3) |

MECHANICAL SPECIFICATIONS

| | | |
|--------------------------|---------|-----------------|
| Plating Outer/Inner | | Trimetal/Silver |
| Length | mm (in) | 61 (2) |
| Outer Diameter | mm (in) | 49 (2) |
| Inner Contact Attachment | | Spring Finger |
| Outer Contact Attachment | | Spring C-Ring |



716F-LCF114-C02

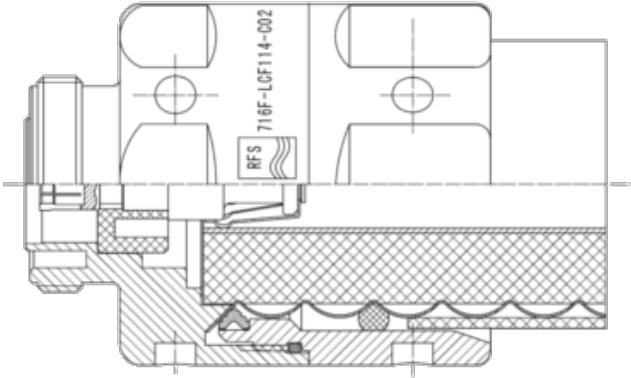
7-16 DIN Female Connector for 1-1/4" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

ACCESSORIES

| | | |
|-------------------|---------|---|
| Wrench size front | mm (in) | Open end wrench 45 (1-3/4) |
| Wrench size rear | mm (in) | Open end wrench 45 (1-3/4) |
| Poly Hook Spanner | mm (in) | PHS 60-90-5 Ø 60-90 (2.3-3.5) Pin 5 (0.2) |

TESTING AND ENVIRONMENTAL

| | | |
|------------------|--|------|
| Waterproof Level | | IP68 |
|------------------|--|------|



External Document Links

[Application Note](#)

[Installation Instruction](#)

Notes