



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

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. The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions.



716M-LCF12-C03

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 Features

GENERAL SPECIFICATIONS

| | | |
|------------------------|--|--------------------------------|
| Transmission Line Type | | Coaxial Cable |
| Cable Size | | 1/2" |
| Cable Type | | Foam Dielectric Radiating |
| Model Series | | LCF12-50 Series CA12-50 Series |
| Connector Interface | | 7-16 DIN |
| Connector Type | | OMNI FIT™ Standard |
| Sealing Method | | O-ring |
| Gender | | Male |

ELECTRICAL SPECIFICATIONS

| | | |
|-----------------------------------|-----------|--|
| Nominal Impedance | Ohm | 50 |
| 3rd Order IM Product @ 2x20 Watts | dBc | -160 typical |
| Maximum Frequency | GHz | 6.0 |
| VSWR, Return Loss | VSWR (dB) | 0 < f ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3) 3.7 < f ≤ 5.0 GHz: 1.15 (23.1) 5.0 < f ≤ 6.0 GHz: 1.25 (19.1) |

MECHANICAL SPECIFICATIONS

| | | |
|--------------------------|---------|-----------------|
| Plating Outer/Inner | | Trimetal/Silver |
| Length | mm (in) | 52.8 (2.08) |
| Outer Diameter | mm (in) | 32 (1.26) |
| Weight | kg (lb) | 0.105 (0.23) |
| Inner Contact Attachment | | Spring Finger |
| Outer Contact Attachment | | Spring C-Ring |

ACCESSORIES

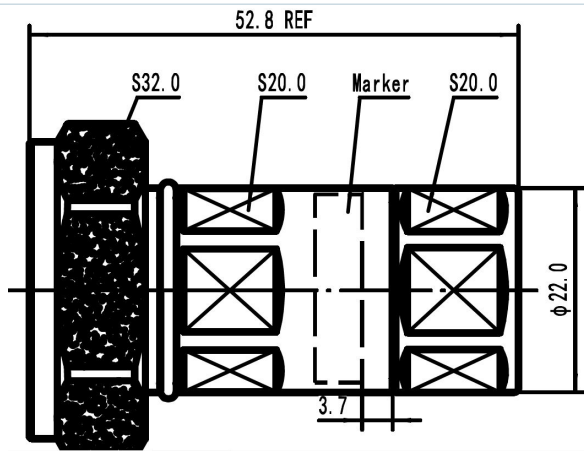
| | | |
|-------------------|---------|------------------|
| Wrench size front | mm (in) | 20 (13/16) |
| Wrench size rear | mm (in) | 20 (13/16) |
| Trimming Tool | | TRIM-SET-L12-C02 |

TESTING AND ENVIRONMENTAL

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



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



716M-LCF12-C03 Outline drawing

External Document Links

Application Note
Installation instruction

Notes