

4.3-10 Right Angle Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard

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 4.3-10 connector is an innovative, space-saving RF connection meeting all requirements even under the most severe environmental conditions and not relying on coupling nut torque to meet PIM performance.



43MR-LCF12-C03

FEATURES / BENEFITS

- ➡ Cost effective two-piece design for safe and easy installation
- ➡ 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
- ➡ Standard 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) 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 Coaxial |
| Model Series | | LCF12-50 Series |
| Connector Interface | | 4.3-10 Right Angle |
| 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 ≤ 2.2 GHz: 1.04 (34.1) 2.2 < f ≤ 2.7 GHz: 1.06 (30.7) 2.7 < f ≤ 3.7 GHz: 1.13 (24.3) 3.7 < f ≤ 5.0 GHz: 1.20 (20.8) 5.0 < f ≤ 6.0 GHz: 1.33 (17.0) |

MECHANICAL SPECIFICATIONS

| | | |
|--------------------------|---------|-----------------|
| Plating Outer/Inner | | Trimetal/Silver |
| Length | mm (in) | 56.8 (2.23) |
| Outer Diameter | mm (in) | 36.1 (1.4) |
| Weight | kg (lb) | 0.105 (0.23) |
| Inner Contact Attachment | | Spring Finger |
| Outer Contact Attachment | | Spring O-Ring |

ACCESSORIES

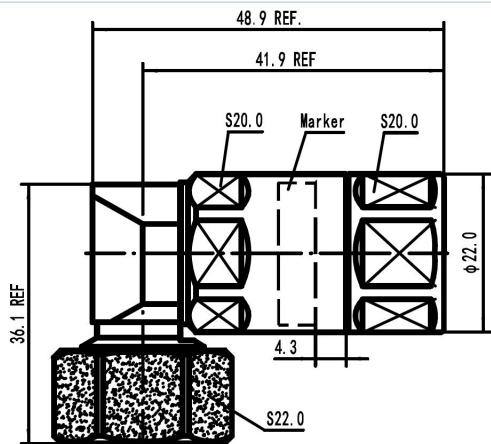
| | | |
|-------------------|---------|------------|
| Wrench size front | mm (in) | 20 (13/16) |
| Wrench size rear | mm (in) | 20 (13/16) |

TESTING AND ENVIRONMENTAL

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



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43MR-LCF12-C03 Outline drawing

| External Document Links | Notes |
|--|-------|
| Application Note Installation instruction | |