

**43M-LCF12-C03**

4.3-10 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 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.

**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****STRUCTURE**

|                            |                     |                     |
|----------------------------|---------------------|---------------------|
| Cable Type                 | LCF                 |                     |
| Cable Size                 | 1/2"                |                     |
| Qualified Cable Types      | LCF12-50J / JFN     | LCF12-50J / JFN-ECO |
| Model Series               | C03 Standard Series |                     |
| Connector Interface Size   | 4.3-10              |                     |
| Connector Interface Gender | Male                |                     |

**MECHANICAL SPECIFICATIONS**

|                                    |                               |
|------------------------------------|-------------------------------|
| Connector Length                   | 51mm (2in)                    |
| Connector Outer Diameter           | 25mm (1in)                    |
| Inner Conductor Material / Coating | Brass Alloy / Silver Plated   |
| Outer Conductor Material / Coating | Brass Alloy / Trimetal Plated |
| Insulation Material                | TPX / PTFE                    |
| Sealing Method                     | O-Ring                        |

**ELECTRICAL SPECIFICATIONS**

|                                      |                  |             |
|--------------------------------------|------------------|-------------|
| Nominal Impedance                    | 50 Ω             |             |
| Connector Frequency Range            | DC - 6.0 GHz GHz |             |
| PIM Ratio (2 x 20 W Carrier)         | -162 dBc         |             |
| PIM ratio Typical (2 x 20 W Carrier) | -166 dBc         |             |
| Frequency Range                      | VSWR             | Return Loss |
| 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                    | 1.1              | 26.4        |
| 5.0 < f ≤ 6.0 GHz                    | 1.25             | 19.1        |



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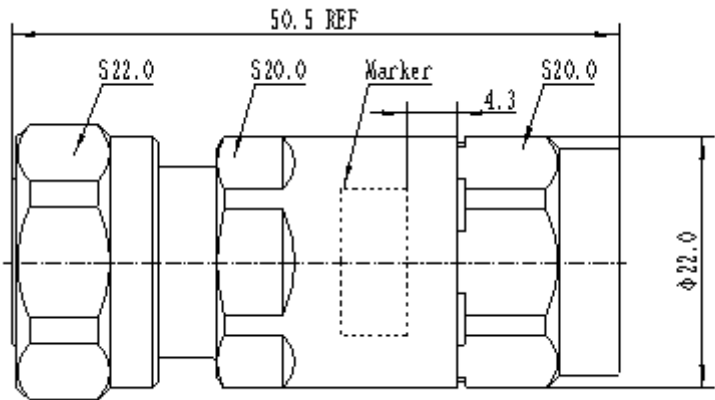
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TESTING AND ENVIRONMENTAL

|                                |      |
|--------------------------------|------|
| Ingress Protection (IP) Rating | IP68 |
|--------------------------------|------|

ACCESSORIES

|                                  |                  |
|----------------------------------|------------------|
| Wrench Size Connector Interface  | 22mm (0.866in)   |
| Wrench Size Connector Front Part | 20mm (13/16in)   |
| Wrench Size Connector Rear Part  | 20mm (13/16in)   |
| Trimming Tool                    | TRIM-SET-L12-C02 |



Related Documents

 Installation instruction \*\*LCF12-C03  
Installation Instructions