

**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



43M-LCF12-C03

[External Document Links](#)[Notes](#)[Installation Instruction](#)**Technical features****GENERAL SPECIFICATIONS**

|                        |  |                    |                 |                 |
|------------------------|--|--------------------|-----------------|-----------------|
| Transmission Line Type |  | Coaxial Cable      |                 |                 |
| Cable Size             |  | 1/2                |                 |                 |
| Cable Type             |  | Foam Dielectric    |                 | Radiating       |
| Model Series           |  | LCF12-50 Series    | ICA12-50 Series | RCF12-50 Series |
| Connector Interface    |  | 4.3-10             |                 |                 |
| Connector Type         |  | OMNI FIT™ Standard |                 |                 |
| Sealing Method         |  | O-ring             |                 |                 |
| Gender                 |  | Male               |                 |                 |

**ELECTRICAL SPECIFICATIONS**

|                                   |           |   |  |  |
|-----------------------------------|-----------|---|--|--|
| Nominal Impedance, ohms           | Ohm       | 50  |  |  |
| 3rd Order IM Product @ 2x20 Watts | dBc       | -162 ; typical -166   |  |  |
| Maximum Frequency                 | GHz       | 6.0   |  |  |
| VSWR, Return Loss                 | VSWR (dB) | 0 <math>\leq f \leq 1.0 \text{ GHz}</math>: 1.03 (36.6)<br>1.0 <math>\leq f \leq 2.7 \text{ GHz}</math>: 1.04 (34.1)<br>2.7 <math>\leq f \leq 3.7 \text{ GHz}</math>: 1.08 (28.3)<br>3.7 <math>\leq f \leq 5.0 \text{ GHz}</math>: 1.10 (26.4)<br>5.0 <math>\leq f \leq 6.0 \text{ GHz}</math>: 1.25 (19.1) |  |  |

**MECHANICAL SPECIFICATIONS**

|                          |         |                 |  |  |
|--------------------------|---------|-----------------|--|--|
| Plating Outer/Inner      |         | Trimetal/Silver |  |  |
| Length                   | mm (in) | 51 (2)          |  |  |
| Outer Diameter           | mm (in) | 25 (1)          |  |  |
| Inner Contact Attachment |         | Spring Finger   |  |  |
| Outer Contact Attachment |         | Spring C-Ring   |  |  |



43M-LCF12-C03

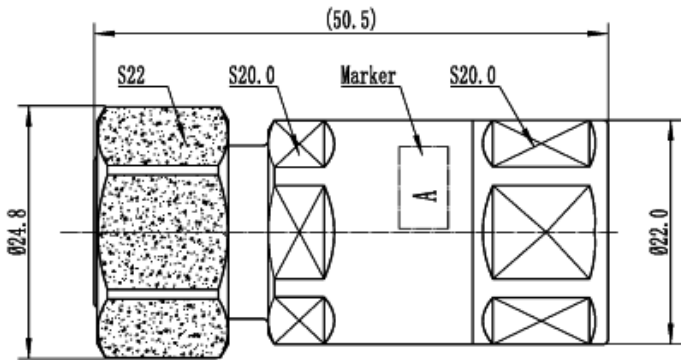
4.3-10 Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

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 |
|------------------|--|------|



43M-LCF12-C03 Outline Drawing