



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.

Hand-Screw attachment mechanism that is ideal for indoor and outdoor spaces where installation must be completed using only one hand.

**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
- Hand-Screw Type connector could be torqued by hand, possesses special feature to prevent unwanted loosening of the coupling nut which could fit for both indoor and outdoor application where small installation space is required to accommodate one of the hands



43MH-LCF12-C03

**Technical features**

**GENERAL SPECIFICATIONS**

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

**ELECTRICAL SPECIFICATIONS**

|  |           |   |  |  |
|--|-----------|---|--|--|
| <b>Nominal Impedance, ohms</b>           | Ohm       | 50  |  |  |
| <b>3rd Order IM Product @ 2x20 Watts</b> | dBc       | -162 ; typical -166   |  |  |
| <b>Maximum Frequency</b>                 | GHz       | 6.0   |  |  |
| <b>VSWR, Return Loss</b>                 | 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**

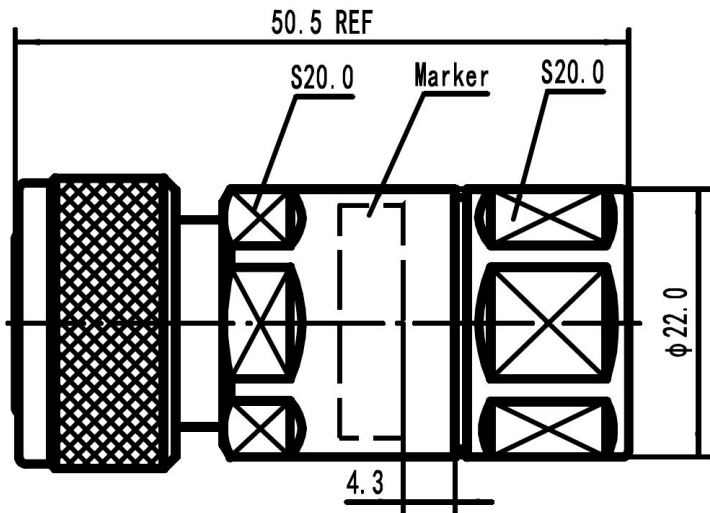
|                          |         |                 |
|--------------------------|---------|-----------------|
| Plating Outer/Inner      |         | Trimetal/Silver |
| Length                   | mm (in) | 51 (2)          |
| Outer Diameter           | mm (in) | 25 (1)          |
| Inner Contact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

**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 |
|------------------|--|------|



43MH-LCF12-C03 Outline drawing

**External Document Links**

[Installation Instruction](#)

**Notes**