

## 43M-LCF78-C03

4.3-10 Male Connector for 7/8" 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-LCF78-C03

## Technical features

### GENERAL SPECIFICATIONS

|                        |                 |                    |
|------------------------|-----------------|--------------------|
| Transmission Line Type |                 | Coaxial Cable      |
| Cable Size             |                 | 7/8                |
| Cable Type             |                 | Foam Dielectric    |
| Model Series           | LCF78-50 Series | RCF78-50 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 &lt; f ≤ 1.0 GHz: 1.03 (36.6)<br>1.0 &lt; f ≤ 2.7 GHz: 1.04 (34.1)<br>2.7 &lt; f ≤ 3.7 GHz: 1.08 (28.3)<br>3.7 &lt; f ≤ 5.0 GHz: 1.10 (26.4)<br>5.0 &lt; f ≤ 6.0 GHz: 1.25 (19.1) |

### MECHANICAL SPECIFICATIONS

|                          |         |                 |
|--------------------------|---------|-----------------|
| Plating Outer/Inner      |         | Trimetal/Silver |
| Length                   | mm (in) | 57.5 (2.26)     |
| Outer Diameter           | mm (in) | 35.5 (1.4)      |
| Inner Contact Attachment |         | Spring Finger   |
| Outer Contact Attachment |         | Spring C-Ring   |



43M-LCF78-C03

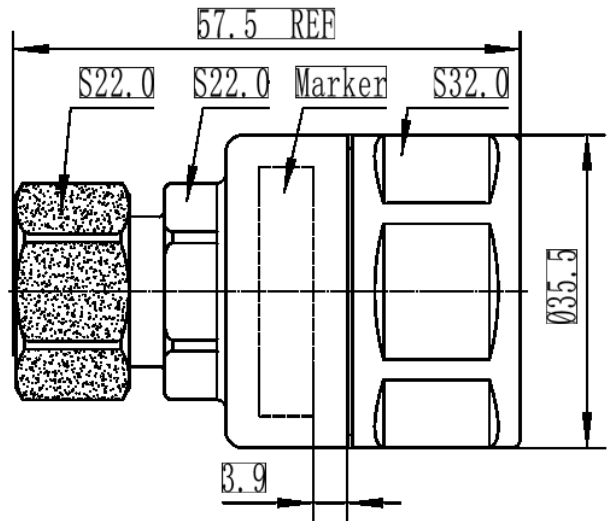
4.3-10 Male Connector for 7/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

ACCESSORIES

|                   |         |                  |
|-------------------|---------|------------------|
| Wrench size front | mm (in) | 22 (0.87)        |
| Wrench size rear  | mm (in) | 32 (1.26)        |
| Trimming Tool     |         | TRIM-SET-L78-C02 |

TESTING AND ENVIRONMENTAL

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



43M-LCF78-C03 Outline Drawing

[External Document Links](#)  
[Installation Instruction](#)

[Notes](#)