PRODUCT DATASHEET

# 43M-LCF12-D01

4.3-10 Male Straight Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Polymer claw and compression sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS Technologies 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. Sealing against outer conductor and jacket by means of the polymer claw and 360° compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket.



OMNI FIT™ Premium Connectors

FEATURES / BENEFITS

- Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Unique NiTin plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) 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 |
| **Model Series** | | LCF12-50 Series, ICA12-50 Series, RCF12-50 Series |
| **Connector Interface** | | 4.3-10 |
| **Connector Type** | | OMNI FIT™ PREMIUM Straight |
| **Sealing Method** | | Polymer claw + 360° Compression |
| **Gender** | | Male |

### ELECTRICAL SPECIFICATIONS

| | | |
|---|---|---|
| **Nominal Impedance, ohms** | Ohm | 50 |
| **3rd Order IM Product @ 2x20 Watts** | dBc | -163 ; typical -167 |
| **Maximum Frequency** | GHz | 6.0 |
| **VSWR, Return Loss** | VSWR (dB) | 0 < f ≤ 1.0 GHz: 1.02 (40.1)<br>1.0 < f ≤ 2.7 GHz: 1.03 (36.6)<br>2.7 < f ≤ 3.7 GHz: 1.06 (30.7)<br>3.7 < f ≤ 5.0 GHz: 1.08 (28.3)<br>5.0 < f ≤ 6.0 GHz: 1.25 (19.1) |



All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering

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## MECHANICAL SPECIFICATIONS

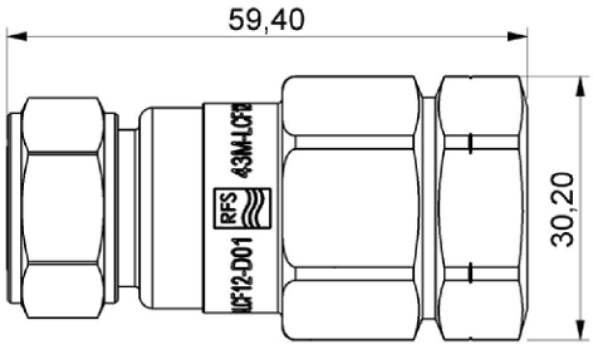
| | | |
|---|---|---|
| **Plating Outer/Inner** | | NiTin/Silver |
| **Length** | mm (in) | 59.4 (2.34) |
| **Outer Diameter** | mm (in) | 30.2 (1.18) |
| **Inner Contact Attachment** | | Basket |
| **Outer Contact Attachment** | | 360° clamping |

## ACCESSORIES

| | | |
|---|---|---|
| **Wrench size front** | mm (in) | 22 (7/8) |
| **Wrench size rear** | mm (in) | 22 (7/8) |
| **Trimming Tool** | | TRIM-SET-L12-D01, TRIM-LCF12-D01-A |

## TESTING AND ENVIRONMENTAL

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




43M-LCF12-D01 Outline Drawing

External Document Links

Installation Instruction

Notes




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