



43M-LCF158-E01

4.3-10 Male Straight Connector for 1 5/8" Coaxial Cable, OMNI FIT™ Premium, O-Ring 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 o-ring and 360° compression fit.

Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket

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
- Tri metal alloy 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 5/8 | |
| Cable Type | Foam Dielectric | Radiating |
| Model Series | LCF158-50A-Series | LCF158-50L-Series |
| Connector Interface | 4.3-10 | |
| Connector Type | OMNI FIT™ PREMIUM Straight | |
| Sealing Method | O-ring | |
| Gender | Male | |

ELECTRICAL SPECIFICATIONS

| | | |
|-----------------------------------|-----------|------------------------------------|
| Nominal Impedance, ohms | Ohm | 50 |
| 3rd Order IM Product @ 2x20 Watts | dBc | -163, typical -167dBc |
| Maximum Frequency | GHz | 2.75 |
| VSWR, Return Loss | VSWR (dB) | 0 < f ≤ 1.0 GHz: 1.02 (40.1) |
| | | 1.0 < f ≤ 2.2 GHz: 1.03 (36.6) |
| | | 2.2 < f ≤ 2.75 GHz: 1.06 (30.7) |



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MECHANICAL SPECIFICATIONS

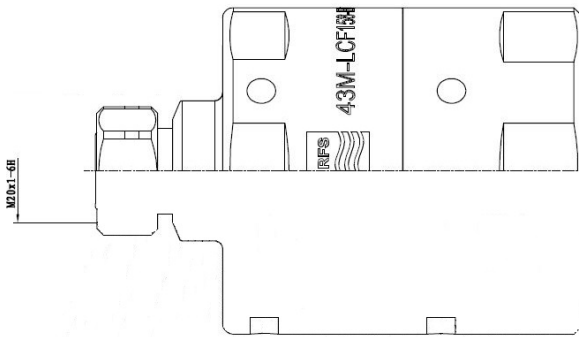
| | | |
|--------------------------|---------|-----------------|
| Plating Outer/Inner | | Trimetal/Silver |
| Length | mm (in) | 94.6 (3.724) |
| Outer Diameter | mm (in) | 62.8 (2.472) |
| Inner Contact Attachment | | Spring Finger |
| Outer Contact Attachment | | Spring Claw |

ACCESSORIES

| | | |
|-------------------|---------|---|
| Wrench size front | mm (in) | 60 |
| Wrench size rear | mm (in) | 60 |
| Poly Hook Spanner | mm (in) | PHS 60-90-5 Ø 60-90 (2.3-3.5) Pin 5 (0.2) |

TESTING AND ENVIRONMENTAL

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



External Document Links

Notes