



43F-LCF78-E01

4.3-10 Female Straight Connector for 7/8" 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 connectors are fully tested for mechanical and electrical compliance to industry specifications. The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions. Sealing against outer conductor and jacket by means of the o-ring and 360° compression fit.

Feature / 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

| | |
|---------------------|----------------------------------|
| 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™ PREMIUM Straight |
| Sealing Method | Sealing Rubber+ 360° clamping |

TESTING AND ENVIRONMENTAL

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

MECHANICAL SPECIFICATIONS

| | |
|--------------------------|---------------|
| Plating Outer/Inner | NiTin/Silver |
| Length | 75mm (2.95in) |
| Outer Diameter | 37mm (1.46in) |
| Inner Contact Attachment | Basket |
| Outer Contact Attachment | 360° clamping |



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ELECTRICAL SPECIFICATIONS

| | | |
|-----------------------------------|---------------------|-------------------|
| Nominal Impedance | 50 ohms | |
| 3rd Order IM Product @ 2x20 Watts | -163 ; typical -167 | |
| Maximum Frequency | 6 GHz | |
| Frequency Range | VSWR value | Return Loss value |
| 0 < f ≤ 1.0 GHz | 1.02 | 40 |
| 1.0 < f ≤ 2.2 GHz | 1.03 | 37 |
| 2.2 < f ≤ 2.7 GHz | 1.03 | 36 |
| 2.7 < f ≤ 3.8 GHz | 1.06 | 31 |
| 3.8 < f ≤ 5.0 GHz | 1.11 | 26 |
| 5.0 < f ≤ 6.0 GHz | 1.15 | 23 |

ACCESSORIES

| | |
|---------------|------------------------------------|
| Trimming Tool | TRIM-SET-L78-D01, TRIM-LCF78-D01-A |
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External Document Links

Notes