



**716M-LCF12-E01**

7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, 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.

**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



[External Document Links](#)

[Notes](#)

[Installation Instruction](#)

**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    |  | 7-16 DIN  |
| Connector Type         |  | OMNI FIT™ PREMIUM Straight                        |
| Sealing Method         |  | o-ring + 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  |
| VSWR, Return Loss                 | VSWR (dB) | 0 < f ≤ 1.0 GHz: 1.02 (40)<br>1.0 < f ≤ 2.2 GHz: 1.03 (37)<br>2.2 < f ≤ 2.7 GHz: 1.03 (36)<br>2.7 < f ≤ 3.8 GHz: 1.06 (31)<br>3.8 < f ≤ 5.0 GHz: 1.11 (26)<br>5.0 < f ≤ 6.0 GHz: 1.15 (23) |

**MECHANICAL SPECIFICATIONS**

|                          |         |                          |
|--------------------------|---------|--------------------------|
| Plating Outer/Inner      |         | Tri metal alloy / Silver |
| Length                   | mm (in) | 56.7 (2.23)              |
| Outer Diameter           | mm (in) | 23 (0.91)                |
| Inner Contact Attachment |         | Basket                   |
| Outer Contact Attachment |         | 360° clamping            |



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**ACCESSORIES**

|                   |         |                                      |
|-------------------|---------|--------------------------------------|
| Wrench size front | mm (in) | 32 / 24                              |
| Wrench size rear  | mm (in) | 22                                   |
| Trimming Tool     |         | TRIM-SET-L12-D01<br>TRIM-LCF12-D01-A |

**TESTING AND ENVIRONMENTAL**

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

