



**716F-LCF78-E01**

7-16 DIN Female Connector for 7/8" 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 Technologies 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 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



**Technical features**

**GENERAL SPECIFICATIONS**

|                               |  |                                  |
|-------------------------------|--|----------------------------------|
| <b>Transmission Line Type</b> |  | Coaxial Cable                    |
| <b>Cable Size</b>             |  | 7/8                              |
| <b>Cable Type</b>             |  | Foam Dielectric                  |
| <b>Model Series</b>           |  | LCF78-50 Series, RCF78-50 Series |
| <b>Connector Interface</b>    |  | 7-16 DIN                         |
| <b>Connector Type</b>         |  | OMNI FIT™ PREMIUM Straight       |
| <b>Sealing Method</b>         |  | O-Ring + 360° Compression        |
| <b>Gender</b>                 |  | Female                           |

**ELECTRICAL SPECIFICATIONS**

|  |           |  |
|--|-----------|--|
| <b>Nominal Impedance, ohms</b>           | Ohm       | 50   |
| <b>3rd Order IM Product @ 2x20 Watts</b> | dBc       | -163 ; typical -167  |
| <b>Maximum Frequency</b>                 | GHz       | 6.0  |
| <b>VSWR, Return Loss</b>                 | VSWR (dB) | 0 &lt; f ≤ 1.0 GHz: 1.02 (40)<br>1.0 &lt; f ≤ 2.2 GHz: 1.03 (37)<br>2.2 &lt; f ≤ 2.7 GHz: 1.03 (36)<br>2.7 &lt; f ≤ 3.8 GHz: 1.06 (31)<br>3.8 &lt; f ≤ 5.0 GHz: 1.11 (26)<br>5.0 &lt; f ≤ 6.0 GHz: 1.15 (23) |



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**MECHANICAL SPECIFICATIONS**

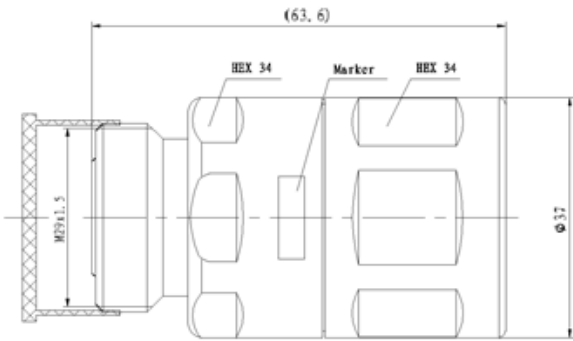
|                                 |         |                          |
|---------------------------------|---------|--------------------------|
| <b>Plating Outer/Inner</b>      |         | Tri metal alloy / Silver |
| <b>Length</b>                   | mm (in) | 63.6 (2.5)               |
| <b>Outer Diameter</b>           | mm (in) | 37 (1.46)                |
| <b>Inner Contact Attachment</b> |         | Spring Finger            |
| <b>Outer Contact Attachment</b> |         | 360° clamping            |

**ACCESSORIES**

|                          |         |                                    |
|--------------------------|---------|------------------------------------|
| <b>Wrench size front</b> | mm (in) | 34 (1-7/16)                        |
| <b>Wrench size rear</b>  | mm (in) | 34 (1-7/16)                        |
| <b>Trimming Tool</b>     |         | TRIM-SET-L78-D01, TRIM-LCF78-D01-A |

**TESTING AND ENVIRONMENTAL**

|                         |  |      |
|-------------------------|--|------|
| <b>Waterproof Level</b> |  | IP68 |
|-------------------------|--|------|



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

[Notes](#)