



7-16 DIN Female Connector for 1-1/4" 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. 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
- 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



OMNI FIT™ Premium Connectors

**Technical features**

**GENERAL SPECIFICATIONS**

|                               |  |   |
|-------------------------------|--|---|
| <b>Transmission Line Type</b> |  | Coaxial Cable   |
| <b>Cable Size</b>             |  | 1-1/4   |
| <b>Cable Type</b>             |  | Foam Dielectric                                       |
| <b>Model Series</b>           |  | UCF114-50 Series, LCFS114-50 Series, RCF114-50 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       | 3.6  |
| <b>VSWR, Return Loss</b>                 | VSWR (dB) | 0 &lt; f ≤ 1.0 GHz: 1.02 (40)<br>1.0 &lt; f ≤ 2.2 GHz: 1.04 (34.1)<br>2.2 &lt; f ≤ 2.7 GHz: 1.06 (30.7)<br>2.7 &lt; f ≤ 3.7 GHz: 1.08 (28.3) |



### 716F-LCF114-D01

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#### MECHANICAL SPECIFICATIONS

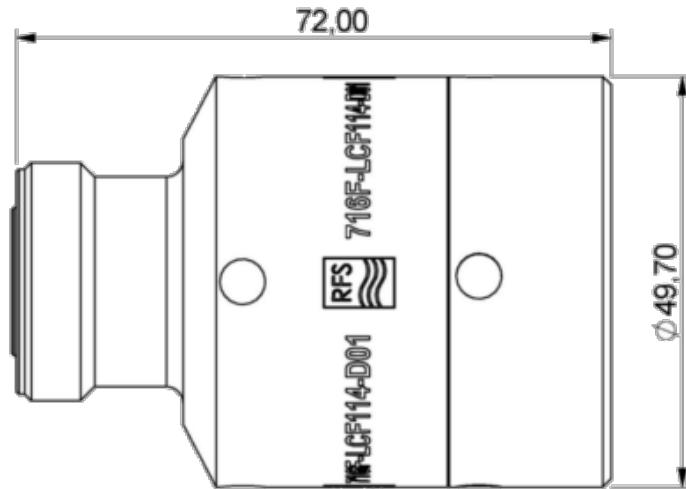
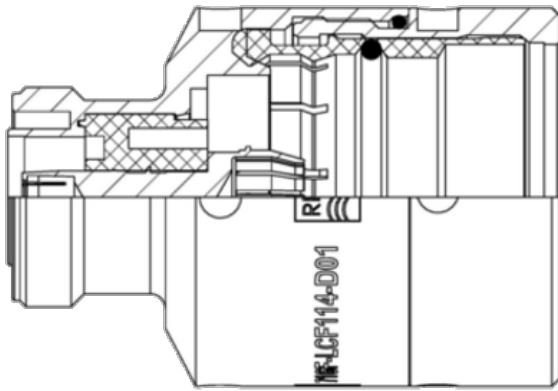
|                          |         |               |
|--------------------------|---------|---------------|
| Plating Outer/Inner      |         | NiTin/Silver  |
| Length                   | mm (in) | 71.95 (2.83)  |
| Outer Diameter           | mm (in) | 49.5 (1.95)   |
| Inner Contact Attachment |         | Spring Finger |
| Outer Contact Attachment |         | 360° clamping |

#### ACCESSORIES

|                   |         |   |
|-------------------|---------|---|
| Poly Hook Spanner | mm (in) | PHS 60-90-5 Ø 60-90 (2.3-3.5) Pin 5 (0.2) |
| Trimming Tool     |         | TRIM-SET-L114-D01<br>TRIM-LCF114-D01-A    |

#### TESTING AND ENVIRONMENTAL

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



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

[Notes](#)