



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 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



**Technical features**

**GENERAL SPECIFICATIONS**

|                        |  |                                    |
|------------------------|--|------------------------------------|
| Transmission Line Type |  | Coaxial Cable                      |
| Cable Size             |  | 1-5/8                              |
| Cable Type             |  | Foam Dielectric                    |
| Model Series           |  | LCF158-50 Series, RCF158-50 Series |
| Connector Interface    |  | 7-16 DIN                           |
| Connector Type         |  | OMNI FIT™ PREMIUM Straight         |
| Sealing Method         |  | O-Ring + 360° Clamping             |
| Gender                 |  | Female                             |

**ELECTRICAL SPECIFICATIONS**

|                                   |           |                                                                                                      |
|-----------------------------------|-----------|------------------------------------------------------------------------------------------------------|
| Nominal Impedance, ohms           | Ohm       | 50                                                                                                   |
| 3rd Order IM Product @ 2x20 Watts | dBc       | -163 ; typical -167                                                                                  |
| Maximum Frequency                 | GHz       | 2.75                                                                                                 |
| VSWR, Return Loss                 | VSWR (dB) | 0 &lt; f ≤ 1.0 GHz: 1.02 (40)<br>1.0 &lt; f ≤ 2.2 GHz: 1.03 (37)<br>2.0 &lt; f ≤ 2.75 GHz: 1.06 (31) |

**MECHANICAL SPECIFICATIONS**

|                          |         |               |
|--------------------------|---------|---------------|
| Plating Outer/Inner      |         | NiTin/Silver  |
| Length                   | mm (in) | 89.4 (3.52)   |
| Outer Diameter           | mm (in) | 62.8 (2.472)  |
| Inner Contact Attachment |         | Spring Finger |
| Outer Contact Attachment |         | 360° clamping |



### 716F-LCF158-E01

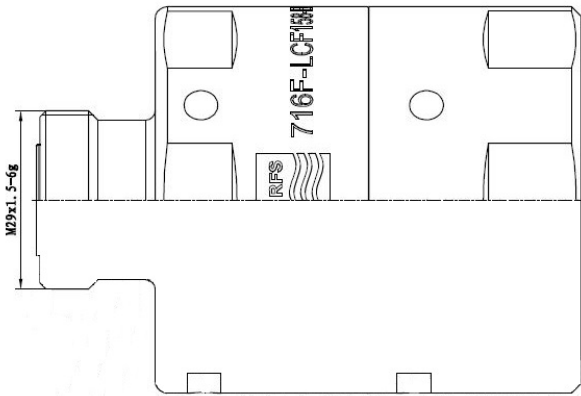
7-16 DIN Female Connector for 1-5/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing

#### 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) |
| Trimming Tool     |         | TRIM-SET-L114-D01<br>TRIM-LCF158-D01-A    |

#### TESTING AND ENVIRONMENTAL

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



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

[Notes](#)