



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

|                        |  |                                  |
|------------------------|--|----------------------------------|
| Transmission Line Type |  | Coaxial Cable                    |
| 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   |
| Gender                 |  | Male                             |

ELECTRICAL SPECIFICATIONS

|                                   |           |  |
|-----------------------------------|-----------|--|
| Nominal Impedance, ohms           | Ohm       | 50   |
| 3rd Order IM Product @ 2x20 Watts | dBc       | -163 ; typical -167  |
| Maximum Frequency                 | GHz       | 6.0  |
| 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>2.2 &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) |



**MECHANICAL SPECIFICATIONS**

|                                 |         |               |
|---------------------------------|---------|---------------|
| <b>Plating Outer/Inner</b>      |         | NiTin/Silver  |
| <b>Length</b>                   | mm (in) | 74 (2.91)     |
| <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 (1,34)                          |
| <b>Wrench size rear</b>  | mm (in) | 34 (1,34)                          |
| <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](#)