

**716F-LCF114-D01****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 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

**Technical Features****STRUCTURE**

|                            |                    |
|----------------------------|--------------------|
| Cable Type                 | LCF                |
| Cable Size                 | 1-1/4"             |
| Model Series               | D01 Premium Series |
| Connector Interface Size   | 7-16               |
| Connector Interface Gender | Female             |

**MECHANICAL SPECIFICATIONS**

|                          |            |
|--------------------------|------------|
| Connector Length         | 72mm (3in) |
| Connector Outer Diameter | 50mm (2in) |

**ELECTRICAL SPECIFICATIONS**

|                                      |                  |             |
|--------------------------------------|------------------|-------------|
| Nominal Impedance                    | 50 Ω             |             |
| Connector Frequency Range            | DC - 3.7 GHz GHz |             |
| PIM Ratio (2 x 20 W Carrier)         | -163 dBc         |             |
| PIM ratio Typical (2 x 20 W Carrier) | -167 dBc         |             |
| Frequency Range                      | VSWR             | Return Loss |
| 0 < f ≤ 1.0 GHz                      | 1.02             | 40          |
| 1.0 < f ≤ 2.2 GHz                    | 1.04             | 34.1        |
| 2.2 < f ≤ 2.7 GHz                    | 1.06             | 30.7        |
| 2.7 < f ≤ 3.7 GHz                    | 1.08             | 28.3        |



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TESTING AND ENVIRONMENTAL

|                                |      |
|--------------------------------|------|
| Ingress Protection (IP) Rating | IP68 |
|--------------------------------|------|

ACCESSORIES

|                   |                                        |
|-------------------|----------------------------------------|
| Poly Hook Spanner | PHS 60-90-5                            |
| Trimming Tool     | TRIM-SET-L114-D01<br>TRIM-LCF114-D01-A |



Related Documents



Installation Instruction \*\*-LCF114-D01; \*\*-LCF158-D01

Installation Instructions