

**716F-LCF12-D01****7-16 DIN Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, Polymer claw 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 the polymer claw 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	1/2"
Model Series	D01 Premium Series
Connector Interface Size	7/16
Connector Interface Gender	Female

MECHANICAL SPECIFICATIONS

Connector Length	52.2mm (2.05in)
Connector Outer Diameter	30.2mm (1.19in)

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 ≤ 2.7 GHz	1.03	36.6
2.7 < f ≤ 3.7 GHz	1.06	30.7



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TESTING AND ENVIRONMENTAL

Ingress Protection (IP) Rating	IP68
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ACCESSORIES

Wrench Size Connector Front Part	27mm (1-1/16in)
Wrench Size Connector Rear Part	27mm (1-1/16in)
Trimming Tool	TRIM-SET-L12-D01 TRIM-LCF12-D01-A



Related Documents

 **Installation Instruction **-LCF12-D01**
Installation Instructions