



**43F-LCF12-E01**

4.3-10 Female Straight Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, O-Ring and compression sealing



CELLFLEX® 1/2" low loss connector

**Features / Benefits**

OMNI FIT™ E02 high-performance connectors are engineered for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They ensure a superior connector-to-cable interface while enabling fast, simple, and reliable installation. All RFS connectors are rigorously tested to meet and exceed industry standards for mechanical and electrical performance. Reliable environmental sealing is achieved via an integrated O-ring, protecting both the outer conductor and cable jacket.

- **Ultra-high PIM performance**  
Minimizes passive intermodulation, reducing signal interference and improving network quality
- **Two-piece connector design**  
Allows visual inspection of the interlock mechanism, ensuring secure and error-free installation
- **OMNI FIT™ concept**  
Simplifies ordering processes and reduces inventory complexity
- **Watertight sealing (in mated condition)**  
Enhances environmental protection, reducing installation effort and ensuring long-term operational reliability
- **Outstanding corrosion resistance**  
Ensures durability and performance even in harsh climatic and environmental conditions

**Technical Features**

**STRUCTURE**

Cable Type	LCF	
Cable Size	1/2"	
Qualified Cable Types	LCF12-50J / JFN	LCF12-50J / JFN-ECO
Model Series	E01 Premium Series	
Connector Interface Size	4.3-10	
Connector Interface Gender	Female	

**MECHANICAL SPECIFICATIONS**

Connector Length	62.7mm (2.47in)
Connector Outer Diameter	25mm (0.98in)
Inner Conductor Material / Coating	Copper Alloy / Silver Plated
Outer Conductor Material / Coating	Copper Alloy / Trimetal Plated
Insulation Material	PTFE / TPX
Sealing Method	O-Ring



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**ELECTRICAL SPECIFICATIONS**

Nominal Impedance	50 Ω	
Connector Frequency Range	DC - 6.0 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
1.0 < f ≤ 2.2 GHz	1.03	37
2.2 < f ≤ 2.7 GHz	1.03	36
2.7 < f ≤ 3.8 GHz	1.06	31
3.8 < f ≤ 5.0 GHz	1.11	26
5.0 < f ≤ 6.0 GHz	1.15	23

**TESTING AND ENVIRONMENTAL**

Ingress Protection (IP) Rating	IP68
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**ACCESSORIES**

Wrench Size Connector Front Part	22mm (0.866in)
Wrench Size Connector Rear Part	22mm (0.866in)
Trimming Tool	TRIM-SET-L12-D01

**Related Documents**



Installation Instruction \*\*-LCF12-E01  
Installation Instructions