

**NF-LCF12-E02**

N Female Connector for LCF1/2 Coaxial Cable, OMNI FIT™ E02 Premium Series



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
- **Tool-free installation (no torque wrench required)**
Integrated mechanical stop guarantees correct tightening, reducing installation time and eliminating the need for special tools

Technical Features**STRUCTURE**

Cable Type	LCF	
Cable Size	1/2"	
Qualified Cable Types	LCF12-50J / JFN	LCF12-50J / JFN-ECO
Model Series	E02 Premium Series	
Connector Interface Size	N	
Connector Interface Gender	Female	

MECHANICAL SPECIFICATIONS

Connector Length	56.8mm (2.236in)
Connector Outer Diameter	25.5mm (1.004in)
Inner Conductor Material / Coating	Copper Alloy / Silver Plated
Outer Conductor Material / Coating	Lead Free Brass Alloy / Trimetal
Insulation Material	PTFE
Sealing Method	O-Ring

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ELECTRICAL SPECIFICATIONS

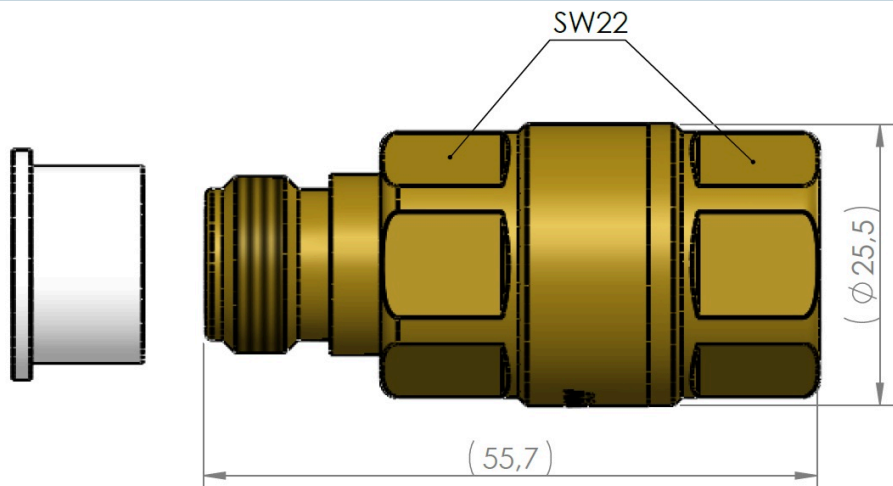
Nominal Impedance	50 Ω	
Connector Frequency Range	DC - 6.0 GHz GHz	
PIM Ratio (2 x 20 W Carrier)	≤ -158 dBc	
PIM ratio Typical (2 x 20 W Carrier)	≤ -162 dBc	
Frequency Range	VSWR	Return Loss
$0 < f \leq 1.0$ GHz	1.02	40
$1.0 < f \leq 2.2$ GHz	1.03	37
$2.2 < f \leq 2.7$ GHz	1.03	36
$2.7 < f \leq 3.8$ GHz	1.06	31
$3.8 < f \leq 5.0$ GHz	1.11	26
$5.0 < f \leq 6.0$ 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**10000039390-01_Install-Instr_Conn-E02_LCF12
Installation Instructions