



NF-LCF12-E01

N Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and 360° sealing rubber

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 | N | |
| Connector Interface Gender | Female | |

MECHANICAL SPECIFICATIONS

| | |
|------------------------------------|--------------------------------|
| Connector Length | 64mm (3in) |
| Connector Outer Diameter | 24mm (1in) |
| 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) | \leq -158 dBc | |
| PIM ratio Typical (2 x 20 W Carrier) | \leq -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 | 1.07 | 30 |
| 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 |
|--------------------------------|------|

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