PRODUCT DATASHEET

NM-LCF78-E01

N Male Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and 360° compression sealing



CELLFLEX® 7/8" 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	7/8"	
Qualified Cable Types	LCF78-50JA / JFNA	LCF12-50JA / JFNA-ECO
Model Series	E01 Premium Series	
Connector Interface Size	N	
Connector Interface Gender	Male	

MECHANICAL SPECIFICATIONS

Connector Length	77.6mm (3.06in)
Connector Outer Diameter	37mm (1.46in)
Inner Conductor Material / Coating	Copper Alloy / Silver Plated
Outer Conductor Material / Coating	Copper Alloy / Trimetal Plated
Insulation Material	PTFE / TPX
Sealing Method	O-Ring

All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering

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ELECTRICAL SPECIFICATIONS

Nominal Impedance	50 Ω	
Connector Frequency Range	DC - 5.0 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 ≤ 1.0 GHz	1.02	40
1.0 < f ≤ 2.2 GHz	1.03	37
2.2 < f ≤ 2.7 GHz	1.03	36
2.7 < f ≤ 3.8 GHz	1.07	30
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

ACCESSORIES

Wrench Size Connector Interface	19mm (0.748in)
Wrench Size Connector Front Part	34mm (1.339in)
Wrench Size Connector Rear Part	34mm (1.339in)
Trimming Tool	TRIM-SET-L78-D01

Related Documents

Installation Instruction **-LCF78-E01
Installation Instructions

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