



716F-SCF12-E01

7-16 DIN Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and 360° compression sealing



CELLFLEX® 1/2" superflexible 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	SCF
Cable Size	1/2"
Qualified Cable Types	SCF12-50J / JFN
Model Series	E01 Premium Series
Connector Interface Size	7/16
Connector Interface Gender	Female

MECHANICAL SPECIFICATIONS

Connector Length	57.7mm (2.272in)
Connector Outer Diameter	26mm (1.024in)
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
1.0 < 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	24mm (0.945in)
Wrench Size Connector Rear Part	22mm (0.866in)
Trimming Tool	TRIM-SET-S12-D01



Related Documents

 **Installation Instruction **-SCF12-E01**
Installation Instructions