

**716M-LCF158-C02**

7-16 DIN Male Connector for 1-5/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

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OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions.

Features / Benefits

- Cost effective two-piece design for safe and easy installation
- Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up reduces the number of dropped calls and avoids revenue losses
- Superior electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- Waterproof to IP 68 i.e. no downtime risk, secures revenue
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features**STRUCTURE**

Cable Type	LCF
Cable Size	1-5/8"
Qualified Cable Types	LCF158-50JA / JFNA
Model Series	C02 Standard Series
Connector Interface Size	7/16
Connector Interface Gender	Male

MECHANICAL SPECIFICATIONS

Connector Length	69.9mm (2.8in)
Connector Outer Diameter	62.9mm (2.5in)
Inner Conductor Material / Coating	Brass Alloy / Silver Plated
Outer Conductor Material / Coating	Brass Alloy / Trimetal Plated
Insulation Material	TPX
Sealing Method	O-Ring



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ELECTRICAL SPECIFICATIONS

Nominal Impedance	50 Ω	
Connector Frequency Range	DC - 2.75 GHz GHz	
PIM ratio Typical (2 x 20 W Carrier)	-159 dBc	
Frequency Range	VSWR	Return Loss
0 < f ≤ 1.0 GHz	1.03	36.6
1.0 < f ≤ 2.2 GHz	1.04	34.1
2.2 < f ≤ 2.75 GHz	1.07	30

TESTING AND ENVIRONMENTAL

Ingress Protection (IP) Rating	IP68
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ACCESSORIES

Wrench Size Connector Interface	32mm (1.26in)
Wrench Size Connector Front Part	55mm (2.165in)
Wrench Size Connector Rear Part	55mm (2.165in)
Poly Hook Spanner	PHS 60-90-7
Trimming Tool	TRIM-SET-L158-C02



Related Documents

 **Application Note**
External Datasheet

 **Installation Instruction ****-LCF158-C02
Installation Instructions