

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

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 low VSWR i.e. improved 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



OMNI FIT™ Standard Connectors

Technical Features

GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable
Cable Size		7/8"
Cable Type		Foam Dielectric Ultraflexible Radiating
Model Series		LCF78-50A-Series, RCF78-50A-Series
Connector Interface		7-16 DIN
Connector Type		OMNI FIT™ Standard
Sealing Method		O-ring
Gender		Male

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-159 typical
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	$0 < f \leq 1.0 \text{ GHz: } 1.03 \text{ (36.6)}$ $1.0 < f \leq 2.7 \text{ GHz: } 1.04 \text{ (34.1)}$ $2.7 < f \leq 3.7 \text{ GHz: } 1.08 \text{ (28.3)}$

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	57.3 (2.3)
Outer Diameter	mm (in)	35.5 (1.4)
Weight	kg (lb)	0.18 (0.4)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring O-Ring

ACCESSORIES

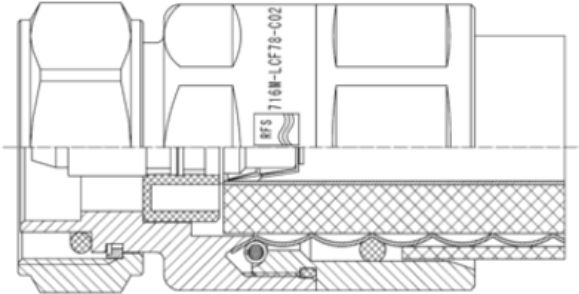
Wrench size front	mm (in)	32 (1-1/4)
Wrench size rear	mm (in)	32 (1-1/4)

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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External Document Links

Application Note
Installation instruction

Notes