

Low Loss 7/16 DIN Male to RA 7/16 DIN Male Cable LMR-600-UF Coax

The 7/16 DIN male to RA 7/16 DIN male cable using LMR-600-UF coax, part number FMC01157, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to 7/16 DIN cable assembly has a male to male gender configuration with 50 ohm flexible LMR-600-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC01157 7/16 DIN male to 7/16 DIN male cable assembly operates to 3 GHz. The right angle 7/16 DIN interface on the LMR-600-UF cable allows for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		87		%
RF Shielding	90			dB
Group Delay		1.17 [3.84]		ns/ft [ns/m]
Capacitance		23.4 [76.77]		pF/ft [pF/m]
Inductance		0.058 [0.19]		uH/ft [uH/m]
DC Resistance Inner Conductor		0.43 [1.41]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		1.2 [3.94]		Ω /1000ft [Ω /Km]
Jacket Spark			8,000	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.009	0.014	0.022	0.031	0.058	dB/ft
	0.03	0.05	0.07	0.1	0.19	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.65 lbs [294.84 g]

Cable

Cable Type LMR-600-UF



Configuration:

- 7/16 DIN Male
- 7/16 DIN Male Right Angle
- LMR-600-UF

Features:

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- TPE Jacket

Applications:

- General Purpose
- Laboratory Use

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Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	Foam PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper
Jacket Material	TPE, Black
Jacket Diameter	0.59 in [14.99 mm]

One Time Minimum Bend Radius	1.5 in [38.1 mm]
Repeated Minimum Bend Radius	6 in [152.4 mm]
Bending Moment	1.75 lbs-ft [2.37 N-m]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]
Tensile Strength	350 lbs [158.76 Kg]

Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Male	7/16 DIN Male
Specification	IEC 169-4	
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Silver	Brass, Silver
Contact Plating Spec.		118µin minimum
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating		Brass, Tri-Metal
Outer Cond Plating Spec.		118µin minimum
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.		118µin minimum
Coupling Nut Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Spec.		118µin minimum
Hex Size		1 1/4 in.
Torque		18.417 ft-lbs 24.97 Nm

Environmental Specifications

Shock	MIL-STD 202, Method 213, Condition I
Vibration	MIL-STD 202, Method 204, Condition B

Compliance Certifications (see [product page](#) for current document)

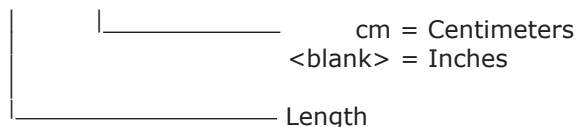
Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMC01157 - xx uu



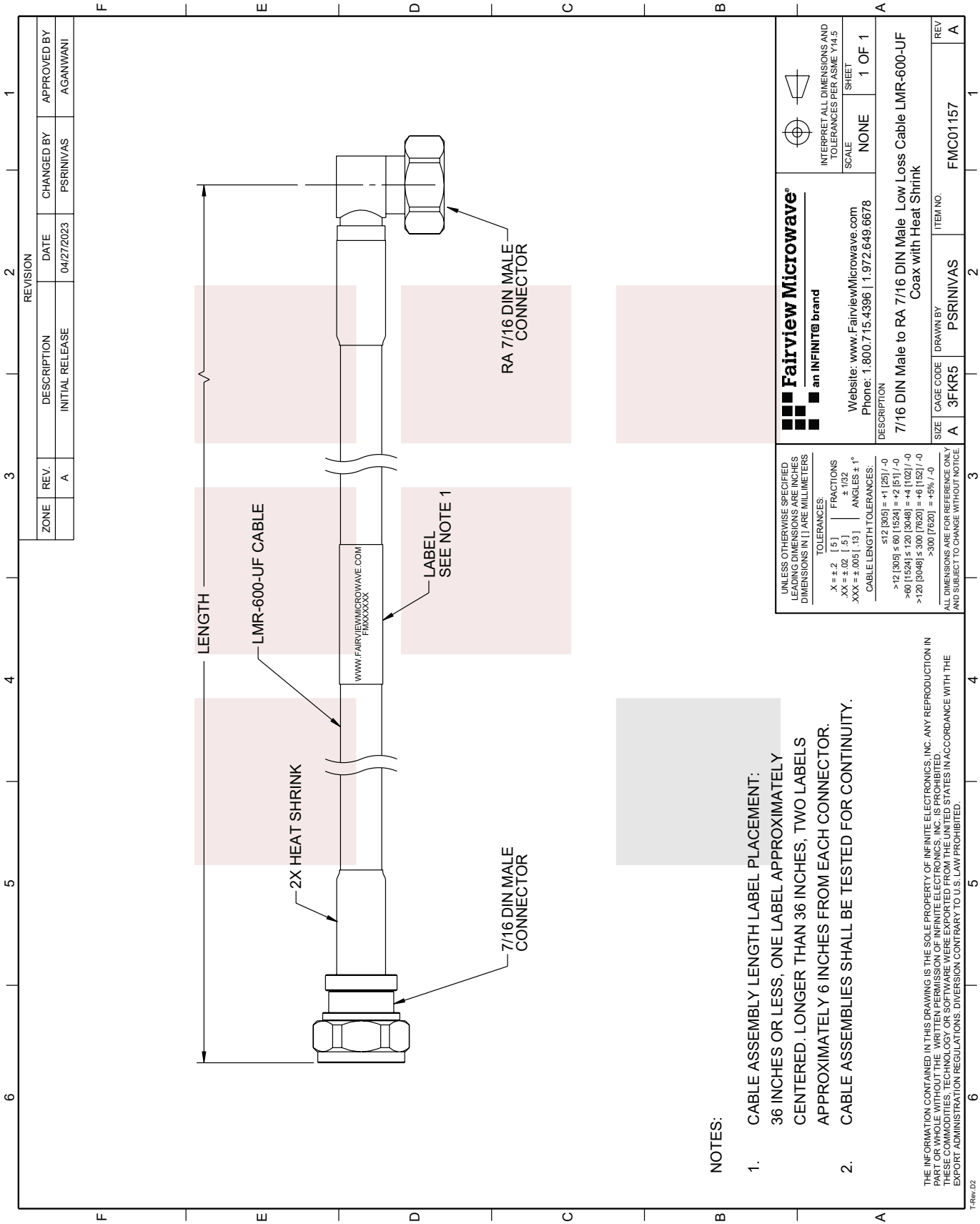
Example: FMC01157-12 = 12 inches long cable
FMC01157-100cm = 100 cm long cable

Low Loss 7/16 DIN Male to RA 7/16 DIN Male Cable LMR-600-UF Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss 7/16 DIN Male to RA 7/16 DIN Male Cable LMR-600-UF Coax FMC01157](https://www.fairviewmicrowave.com/low-loss-7-16-din-male-to-ra-7-16-din-male-cable-lmr-600-uf-coax-fmc01157-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-loss-7-16-din-male-to-ra-7-16-din-male-cable-lmr-600-uf-coax-fmc01157-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



LENGTH

LMR-600-UF CABLE

2X HEAT SHRINK

WWW.FAIRVIEWMICROWAVE.COM
FMC000000

LABEL
SEE NOTE 1

7/16 DIN MALE CONNECTOR

RA 7/16 DIN MALE CONNECTOR

NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:
36 INCHES OR LESS, ONE LABEL APPROXIMATELY
CENTERED. LONGER THAN 36 INCHES, TWO LABELS
APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.

2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

UNLESS OTHERWISE SPECIFIED,
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
X = ± .2 [.5] FRACTIONS
XX = ± .02 [.5] ± .132 ANGLES ± 1°
XXX = ± .005 [.13]
CABLE LENGTH TOLERANCES:
≤ 12 [305] = ± .125 / -0
> 12 [305] ≤ 60 [1524] = ± .25 [.1] / -0
> 60 [1524] ≤ 120 [3048] = ± .5 [.125] / -0
> 120 [3048] ≤ 300 [7620] = ± 1 [.25] / -0
> 300 [7620] = ± 2 [.5] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE

Fairview Microwave®
an INFINITE brand

Website: www.FairviewMicrowave.com
Phone: 1.800.715.4396 | 1.972.649.6678

INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5
SCALE NONE SHEET 1 OF 1

DESCRIPTION

7/16 DIN Male to RA 7/16 DIN Male Low Loss Cable LMR-600-UF
Coax with Heat Shrink

SIZE A

CAGE CODE 3FKR5

DRAWN BY PSRINIVAS

ITEM NO. FMC01157

REV A

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