

Low Loss 75 Ohm F Male to 75 Ohm F Male Cable 75 Ohm LMR-600-75-DB Coax with Times Microwave Components



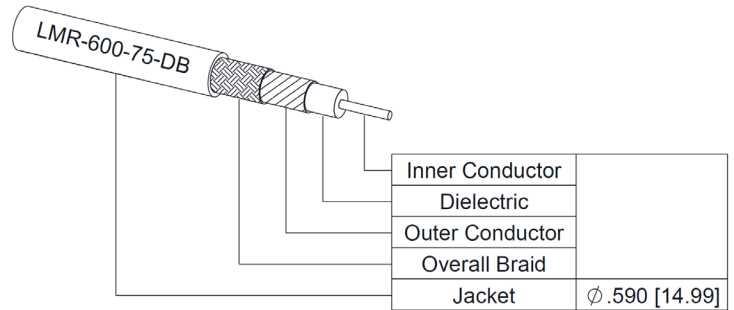
FMCA100034

Configuration

- Connector 1: F Male
- Connector 2: F Male
- Cable Type: LMR-600-75-DB
- Coax Cable Group: 96

Features

- Max Frequency 1 GHz
- 87% Phase Velocity
- PE Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

The 75 ohm type F male to 75 ohm type F male cable using 75 ohm LMR-600-75-DB coax, part number FMCA100034, from Fairview Microwave is in-stock and ships same day. This Fairview type F to type F cable assembly has a male to male gender configuration with 75 ohm LMR-600-75-DB coax. The FMCA100034 type F male to type F male cable assembly operates to 1 GHz.

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	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		87		%

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	50	100	250	500	1000	
FMCA100034	Custom Lengths Available	Insertion Loss (Typ.)	0.005	0.007	0.011	0.016	0.024	dB/ft	
			0.02	0.03	0.04	0.06	0.08	dB/m	
FMCA100034-12	12 Inch	Insertion Loss (Typ.)	0.21	0.21	0.22	0.22	0.23	dB	0.095
FMCA100034-24	24 Inch	Insertion Loss (Typ.)	0.21	0.22	0.23	0.24	0.25	dB	0.131
FMCA100034-36	36 Inch	Insertion Loss (Typ.)	0.22	0.23	0.24	0.25	0.28	dB	0.166
FMCA100034-48	48 Inch	Insertion Loss (Typ.)	0.22	0.23	0.25	0.27	0.3	dB	0.201
FMCA100034-60	60 Inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.28	0.32	dB	0.236

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.1 dB
 Loss due to Connector 2: 0.1 dB
 Base Weight: 0.095 pounds
 Additional Weight per Inch: 0.00292 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.095 lbs [43.09 g]

Cable

Cable Type LMR-600-75-DB
 Impedance 75 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper Clad Aluminum
 Dielectric Type PTFE
 Outer Conductor 1 Material and Plating Aluminum Tape
 Outer Conductor Diameter 0.461 in [11.71 mm]
 Jacket Material PE
 Jacket Diameter 0.59 in [14.99 mm]

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Connectors

Description	Connector 1	Connector 2
Type	F Male	F Male
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 µin minimum	80 µin minimum
Coupling Nut Material and Plating	Copper, Tri-Metal	Copper, Tri-Metal
Coupling Nut Plating Specification	80 µin minimum	80 µin minimum

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

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FMCA100034

Typical Performance Data

How to Order

Part Number Configuration:

FMCA100034

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Example: FMCA100034-12 = 12 inches long cable
FMCA100034-100cm = 100 cm long cable

Low Loss 75 Ohm F Male to 75 Ohm F Male Cable 75 Ohm LMR-600-75-DB Coax with Times Microwave Components from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Low Loss 75 Ohm F Male to 75 Ohm F Male Cable 75 Ohm LMR-600-75-DB Coax with Times Microwave Components FMCA100034](https://www.fairviewmicrowave.com/low-loss-75-ohm-f-male-to-75-ohm-f-male-cable-75-ohm-lmr-600-75-db-coax-with-times-microwave-components-fmca100034)

URL: <https://www.fairviewmicrowave.com/low-loss-75-ohm-f-male-to-75-ohm-f-male-cable-75-ohm-lmr-600-75-db-coax-with-times-microwave-components-fmca100034-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

FMCA100034 CAD Drawing

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