

Low Loss 75 Ohm F Male to 75 Ohm F Male Cable 75 Ohm LMR-240-75-DB Coax with Times Microwave Components



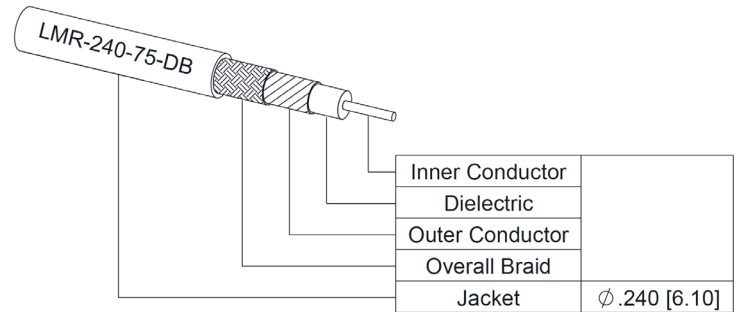
FMCA100027

Configuration

- Connector 1: F Male
- Connector 2: F Male
- Cable Type: LMR-240-75-DB
- Coax Cable Group: 94

Features

- Max Frequency 2 GHz
- 84% Phase Velocity
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

The 75 ohm type F male to 75 ohm type F male cable using 75 ohm LMR-240-75-DB coax, part number FMCA100027, 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-240-75-DB coax. The FMCA100027 type F male to type F male cable assembly operates to 2 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		2	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	50	100	250	500	2000	
FMCA100027	Custom Lengths Available	Insertion Loss (Typ.)	0.016	0.022	0.036	0.052	0.109	dB/ft	
			0.06	0.08	0.12	0.18	0.36	dB/m	
FMCA100027-12	12 Inch	Insertion Loss (Typ.)	0.22	0.23	0.24	0.26	0.31	dB	0.067
FMCA100027-24	24 Inch	Insertion Loss (Typ.)	0.24	0.25	0.28	0.31	0.42	dB	0.103
FMCA100027-36	36 Inch	Insertion Loss (Typ.)	0.25	0.27	0.31	0.36	0.53	dB	0.138
FMCA100027-48	48 Inch	Insertion Loss (Typ.)	0.27	0.29	0.35	0.41	0.64	dB	0.173
FMCA100027-60	60 Inch	Insertion Loss (Typ.)	0.28	0.31	0.38	0.46	0.75	dB	0.208

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: 0.067 pounds
 Additional Weight per Inch: 0.00292 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter: 0.5 in [12.7 mm]
 Weight: 0.067 lbs [30.39 g]

Cable

Cable Type: LMR-240-75-DB
 Impedance: 75 Ohms
 Inner Conductor Type: Stranded
 Inner Conductor Material and Plating: Copper
 Dielectric Type: Foam PE
 Outer Conductor 1 Material and Plating: Aluminum Tape
 Outer Conductor Diameter: 0.155 in [3.94 mm]
 Jacket Material: PE
 Jacket Diameter: 0.24 in [6.1 mm]

Connectors

Description	Connector 1	Connector 2
Type	F Male	F Male
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper	Beryllium Copper
Dielectric Type	PTFE	PTFE
Body Material and Plating	Nickel, Gold over Copper	Nickel, Gold over Copper
Body Plating Specification	50 µin minimum	50 µin minimum

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Environmental Specifications

Operating Range Temperature -40 to +85 deg C

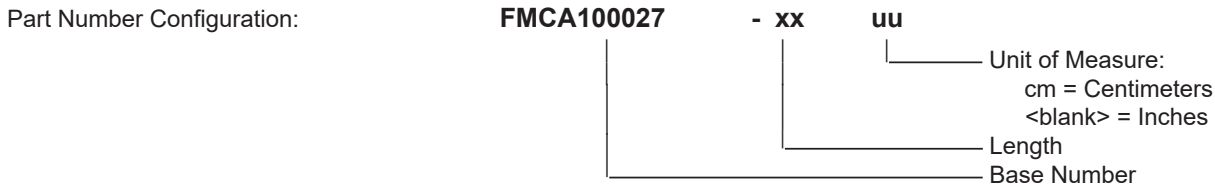
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

How to Order



Example: FMCA100027-12 = 12 inches long cable
FMCA100027-100cm = 100 cm long cable

Low Loss 75 Ohm F Male to 75 Ohm F Male Cable 75 Ohm LMR-240-75-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-240-75-DB Coax with Times Microwave Components FMCA100027](#)

URL: <https://www.fairviewmicrowave.com/low-loss-75-ohm-f-male-to-75-ohm-f-male-cable-75-ohm-lmr-240-75-db-coax-with-times-microwave-components-fmca100027-p.aspx>

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FMCA100027 CAD Drawing

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