

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



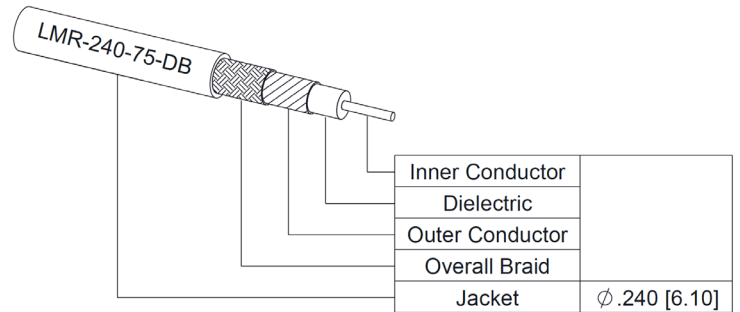
FMCA100025

Configuration

- Connector 1: BNC 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 BNC male to 75 ohm type F male cable using 75 ohm LMR-240-75-DB coax, part number FMCA100025, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to type F cable assembly has a male to male gender configuration with 75 ohm LMR-240-75-DB coax. The FMCA100025 BNC 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	
FMCA100025	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	
FMCA100025-12	12 Inch	Insertion Loss (Typ.)	0.14	0.16	0.19	0.23	0.36	dB	0.094
FMCA100025-24	24 Inch	Insertion Loss (Typ.)	0.16	0.18	0.23	0.28	0.46	dB	0.13
FMCA100025-36	36 Inch	Insertion Loss (Typ.)	0.18	0.2	0.26	0.33	0.57	dB	0.165
FMCA100025-48	48 Inch	Insertion Loss (Typ.)	0.19	0.22	0.3	0.38	0.68	dB	0.2
FMCA100025-60	60 Inch	Insertion Loss (Typ.)	0.21	0.25	0.33	0.44	0.79	dB	0.235

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*SQRT(FGHz) dB
 Loss due to Connector 2: 0.1 dB
 Base Weight: 0.094 pounds
 Additional Weight per Inch: 0.00292 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter: 0.5 in [12.7 mm]
 Weight: 0.094 lbs [42.64 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	BNC Male	F Male
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Brass, Gold over Nickel over Copper	Beryllium Copper
Contact Plating Specification	50 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Nickel, Gold over Copper
Body Plating Specification	80 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)

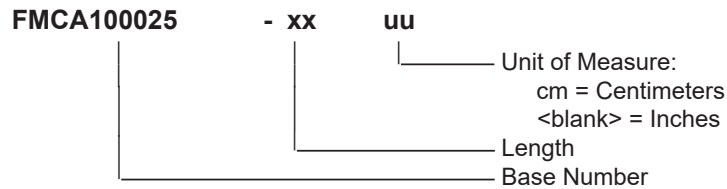
Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:



Example: FMCA100025-12 = 12 inches long cable
FMCA100025-100cm = 100 cm long cable

Low Loss 75 Ohm BNC 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.

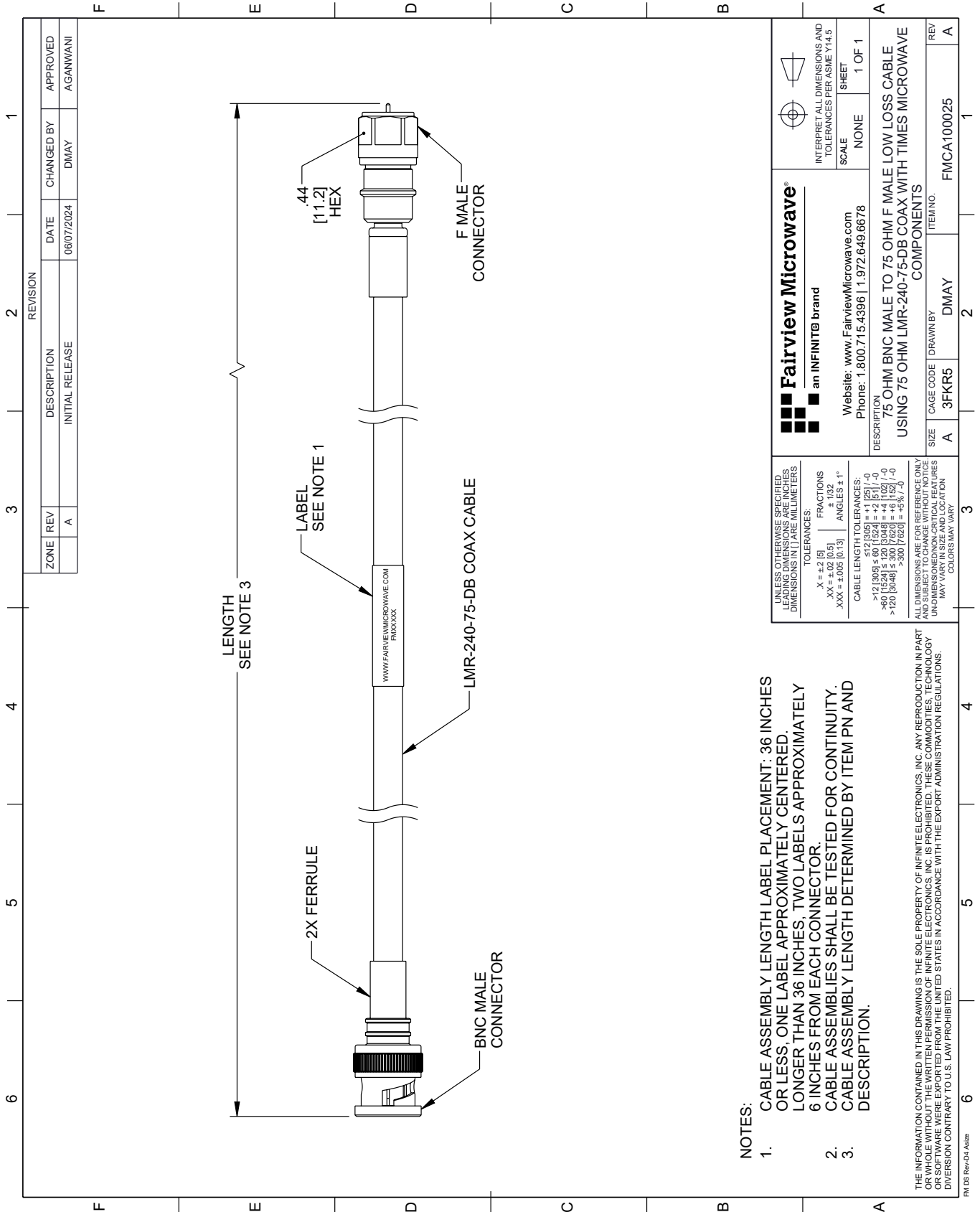
For additional information on this product, please click the following link: [Low Loss 75 Ohm BNC Male to 75 Ohm F Male Cable 75 Ohm LMR-240-75-DB Coax with Times Microwave Components FMCA100025](#)

URL: <https://www.fairviewmicrowave.com/low-loss-75-ohm-bnc-male-to-75-ohm-f-male-cable-75-ohm-lmr-240-75-db-coax-with-times-microwave-components-fmca100025-p.aspx>

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FMCA100025 CAD Drawing

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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.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

FRACTIONS
 ± 1/32

ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 >12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [15.2] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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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:
 75 OHM BNC MALE TO 75 OHM F MALE LOW LOSS CABLE USING 75 OHM LMR-240-75-DB COAX WITH TIMES MICROWAVE COMPONENTS

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	DMAY	FMCA100025

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