

Low Loss 75 Ohm BNC Male to 75 Ohm BNC Male Cable 75 Ohm LMR-400-75-DB Coax with Times Microwave Components



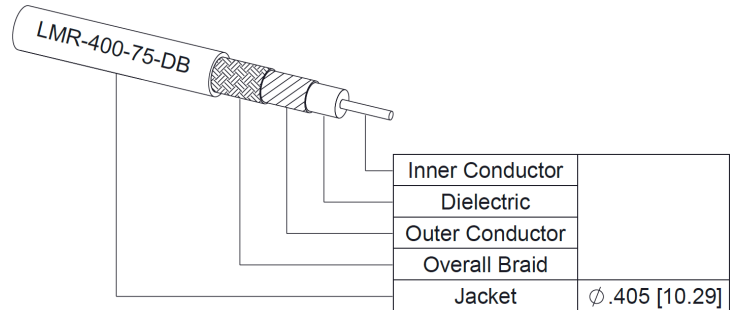
**FMCA100030**

**Configuration**

- Connector 1: BNC Male
- Connector 2: BNC Male
- Cable Type: LMR-400-75-DB
- Coax Cable Group: 95

**Features**

- Max Frequency 2 GHz
- 85% Phase Velocity
- PE Jacket
- 500 Mating Cycles



**Applications**

- General Purpose
- Laboratory Use

**Description**

The 75 ohm BNC male to 75 ohm BNC male cable using 75 ohm LMR-400-75-DB coax, part number FMCA100030, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to BNC cable assembly has a male to male gender configuration with 75 ohm LMR-400-75-DB coax. The FMCA100030 BNC male to BNC 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		85		%

**Specifications by Frequency**

Low Loss 75 Ohm BNC Male to 75 Ohm BNC Male Cable 75 Ohm LMR-400-75-DB Coax with Times Microwave Components



**FMCA100030**

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	50	100	250	500	2000	
FMCA100030	Custom Lengths Available	Insertion Loss (Typ.)	0.008	0.015	0.019	0.027	0.057	dB/ft	
			0.03	0.05	0.07	0.09	0.19	dB/m	
FMCA100030-12	12 Inch	Insertion Loss (Typ.)	0.06	0.08	0.12	0.17	0.34	dB	0.121
FMCA100030-24	24 Inch	Insertion Loss (Typ.)	0.07	0.1	0.14	0.2	0.4	dB	0.157
FMCA100030-36	36 Inch	Insertion Loss (Typ.)	0.07	0.11	0.16	0.23	0.46	dB	0.192
FMCA100030-48	48 Inch	Insertion Loss (Typ.)	0.08	0.13	0.18	0.25	0.52	dB	0.227
FMCA100030-60	60 Inch	Insertion Loss (Typ.)	0.09	0.14	0.2	0.28	0.57	dB	0.262

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\*SQRT(FGHz) dB  
 Base Weight: 0.121 pounds  
 Additional Weight per Inch: 0.00292 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.121 lbs [54.88 g]

**Cable**

Cable Type LMR-400-75-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 0.291 in [7.39 mm]  
 Jacket Material PE  
 Jacket Diameter 0.405 in [10.29 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	BNC Male	BNC Male
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold over Nickel over Copper	Brass, Gold over Nickel over Copper
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

Low Loss 75 Ohm BNC Male to 75 Ohm BNC Male Cable 75 Ohm LMR-400-75-DB Coax with Times Microwave Components



**FMCA100030**

**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: FMCA100030-12 = 12 inches long cable  
FMCA100030-100cm = 100 cm long cable

Low Loss 75 Ohm BNC Male to 75 Ohm BNC Male Cable 75 Ohm LMR-400-75-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 BNC Male Cable 75 Ohm LMR-400-75-DB Coax with Times Microwave Components FMCA100030](#)

URL: <https://www.fairviewmicrowave.com/low-loss-75-ohm-bnc-male-to-75-ohm-bnc-male-cable-75-ohm-lmr-400-75-db-coax-with-times-microwave-components-fmca100030-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.

# FMCA100030 CAD Drawing

Low Loss 75 Ohm BNC Male to 75 Ohm BNC Male Cable 75 Ohm LMR-400-75-DB Coax with Times Microwave Components

