

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

**FMCA100023**

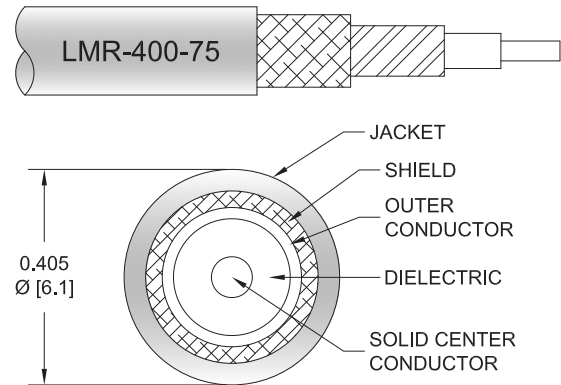


### Configuration

- Connector 1: BNC Male
- Connector 2: N Male
- Cable Type: LMR-400-75
- Coax Flex Type: Flexible

### Features

- Max Frequency 2 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- PE Jacket



### Applications

- General Purpose
- Laboratory Use

### Description

The 75 ohm BNC male to 75 ohm type N male cable using 75 ohm LMR-400-75 coax, part number FMCA100023, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to type N cable assembly has a male to male gender configuration with 75 ohm flexible LMR-400-75 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100023 BNC male to type N 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		%
RF Shielding	90			dB
Capacitance		15.9 [52.17]		pF/ft [pF/m]
Inductance		0.09 [0.3]		uH/ft [uH/m]
DC Resistance Inner Conductor		2.5 [8.2]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ohms/1000ft [Ohms/Km]

### 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	MHz	
FMCA100023	Custom Lengths Available	Insertion Loss (Typ.)	0.008	0.013	0.019	0.027	0.057	dB/ft	
			0.03	0.05	0.07	0.09	0.19	dB/m	
FMCA100023-12	12 Inch	Insertion Loss (Typ.)	0.14	0.15	0.17	0.2	0.3	dB	0.158
FMCA100023-24	24 Inch	Insertion Loss (Typ.)	0.14	0.16	0.19	0.23	0.36	dB	0.229
FMCA100023-36	36 Inch	Insertion Loss (Typ.)	0.15	0.18	0.21	0.26	0.42	dB	0.299
FMCA100023-48	48 Inch	Insertion Loss (Typ.)	0.16	0.19	0.23	0.28	0.47	dB	0.369
FMCA100023-60	60 Inch	Insertion Loss (Typ.)	0.17	0.2	0.25	0.31	0.53	dB	0.439

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\*SQRT(FGHz) dB  
 Base Weight: 0.158 pounds  
 Additional Weight per Inch: 0.00584 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.158 lbs [71.67 g]

**Cable**

Cable Type LMR-400-75  
 Impedance 75 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Beryllium Copper  
 Dielectric Type PE (F)  
 Outer Conductor 1 Material and Plating Aluminum Tape  
 Outer Conductor Diameter 0.291 in [7.39 mm]  
 Jacket Material PE, Black  
 Jacket Diameter 0.405 in [10.29 mm]  
 One Time Minimum Bend Radius 1 in [25.4 mm]  
 Repeated Minimum Bend Radius 4 in [101.6 mm]  
 Bending Moment 0.5 lbs-ft [0.68 N-m]  
 Flat Plate Crush 40 lbs/in [0.71 Kg/mm]  
 Tensile Strength 160 lbs [72.57 Kg]

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**Connectors**

Description	Connector 1	Connector 2
Type	BNC Male	N Male
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Brass, Gold over Nickel over Copper	Brass, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 µin minimum	80 µin minimum
Coupling Nut Material and Plating		Brass, Tri-Metal
Coupling Nut Plating Specification		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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### FMCA100023

#### Typical Performance Data

#### How to Order

Part Number Configuration: **FMCA100023**    **- xx**    **uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example: FMCA100023-12 = 12 inches long cable  
FMCA100023-100cm = 100 cm long cable

Low Loss 75 Ohm BNC Male to 75 Ohm N Male Cable 75 Ohm LMR-400-75 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 N Male Cable 75 Ohm LMR-400-75 Coax with Times Microwave Components FMCA100023](#)

URL: <https://www.fairviewmicrowave.com/low-loss-75-ohm-bnc-male-to-75-ohm-n-male-cable-75-ohm-lmr-400-75-coax-with-times-microwave-components-fmca100023-p.aspx>

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FMCA100023 CAD Drawing

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