

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



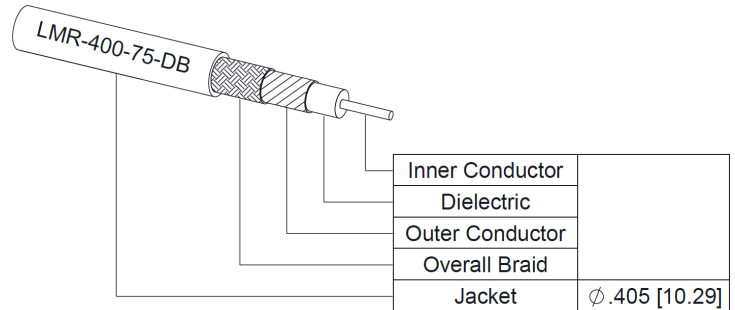
FMCA100031

Configuration

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

Features

- Max Frequency 2 GHz
- 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-DB coax, part number FMCA100031, 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 LMR-400-75-DB coax. The FMCA100031 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 | | % |

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 | |
| FMCA100031 | 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 | |
| FMCA100031-12 | 12 Inch | Insertion Loss (Typ.) | 0.14 | 0.15 | 0.17 | 0.2 | 0.3 | dB | 0.123 |
| FMCA100031-24 | 24 Inch | Insertion Loss (Typ.) | 0.14 | 0.17 | 0.19 | 0.23 | 0.36 | dB | 0.159 |
| FMCA100031-36 | 36 Inch | Insertion Loss (Typ.) | 0.15 | 0.18 | 0.21 | 0.26 | 0.42 | dB | 0.194 |
| FMCA100031-48 | 48 Inch | Insertion Loss (Typ.) | 0.16 | 0.2 | 0.23 | 0.28 | 0.47 | dB | 0.229 |
| FMCA100031-60 | 60 Inch | Insertion Loss (Typ.) | 0.17 | 0.21 | 0.25 | 0.31 | 0.53 | dB | 0.264 |

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: 0.123 pounds
 Additional Weight per Inch: 0.00292 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.123 lbs [55.79 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]

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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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FMCA100031

Typical Performance Data

How to Order

Part Number Configuration: **FMCA100031** **- xx** **uu**

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

Length

Base Number

Example: FMCA100031-12 = 12 inches long cable
FMCA100031-100cm = 100 cm long cable

Low Loss 75 Ohm BNC Male to 75 Ohm N 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 N Male Cable 75 Ohm LMR-400-75-DB Coax with Times Microwave Components FMCA100031](#)

URL: <https://www.fairviewmicrowave.com/low-loss-75-ohm-bnc-male-to-75-ohm-n-male-cable-75-ohm-lmr-400-75-db-coax-with-times-microwave-components-fmca100031-p.aspx>

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