

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



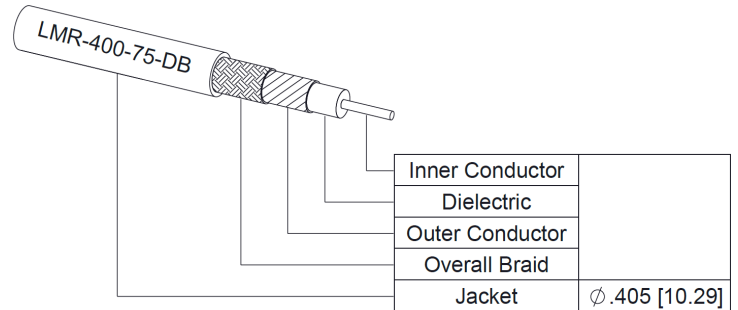
FMCA100032

Configuration

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

Features

- Max Frequency 2.5 GHz
- 85% Phase Velocity
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

The 75 ohm type N male to 75 ohm type N male cable using 75 ohm LMR-400-75-DB coax, part number FMCA100032, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to male gender configuration with 75 ohm LMR-400-75-DB coax. The FMCA100032 type N male to type N male cable assembly operates to 2.5 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		2.5	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	100	250	500	1000	2500	MHz	
FMCA100032	Custom Lengths Available	Insertion Loss (Typ.)	0.011	0.019	0.027	0.039	0.064	dB/ft	
			0.04	0.07	0.09	0.13	0.21	dB/m	
FMCA100032-12	12 Inch	Insertion Loss (Typ.)	0.22	0.22	0.23	0.24	0.27	dB	0.125
FMCA100032-24	24 Inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.28	0.33	dB	0.161
FMCA100032-36	36 Inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.32	0.4	dB	0.196
FMCA100032-48	48 Inch	Insertion Loss (Typ.)	0.25	0.28	0.31	0.36	0.46	dB	0.231
FMCA100032-60	60 Inch	Insertion Loss (Typ.)	0.26	0.3	0.34	0.4	0.52	dB	0.266

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: 0.125 pounds
 Additional Weight per Inch: 0.00292 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.125 lbs [56.7 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	N Male	N Male
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	Teflon	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	Brass, Tri-Metal
Coupling Nut Plating Specification	80 µin minimum	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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FMCA100032

Typical Performance Data

How to Order

Part Number Configuration: **FMCA100032** **- xx** **uu**

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

Length

Base Number

Example: FMCA100032-12 = 12 inches long cable
FMCA100032-100cm = 100 cm long cable

Low Loss 75 Ohm N 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.

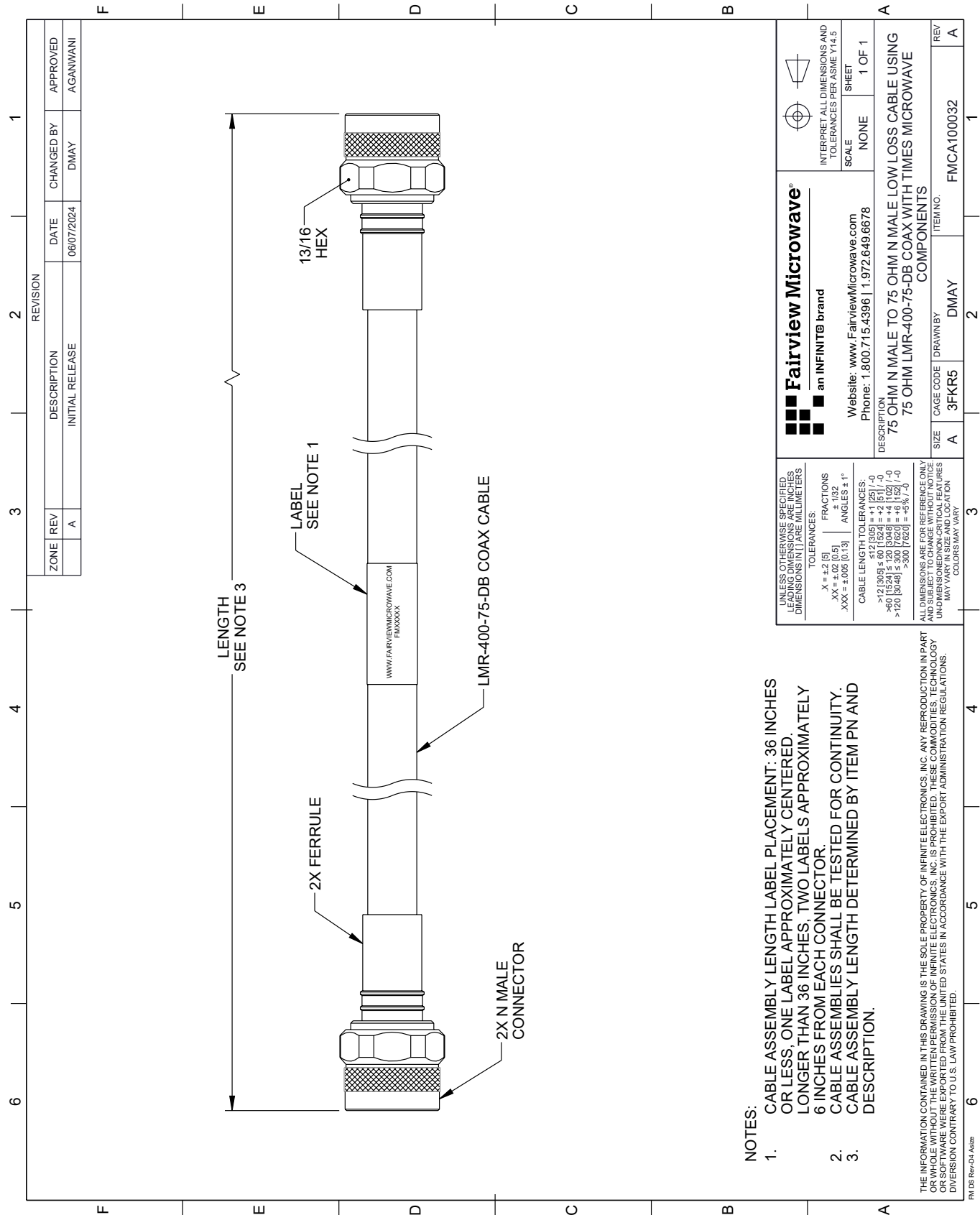
For additional information on this product, please click the following link: [Low Loss 75 Ohm N Male to 75 Ohm N Male Cable 75 Ohm LMR-400-75-DB Coax with Times Microwave Components FMCA100032](#)

URL: <https://www.fairviewmicrowave.com/low-loss-75-ohm-n-male-to-75-ohm-n-male-cable-75-ohm-lmr-400-75-db-coax-with-times-microwave-components-fmca100032-p.aspx>

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FMCA100032 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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FM DB Rev-D4 Alt20

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.		Fairview Microwave® an INFINITI® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		SCALE NONE	
X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]		FRACTIONS ± 1/32 ANGLES ± 1°		SHEET 1 OF 1	
CABLE LENGTH TOLERANCES:		DESCRIPTION 75 OHM N MALE TO 75 OHM N MALE LOW LOSS CABLE USING 75 OHM LMR-400-75-DB COAX WITH TIMES MICROWAVE COMPONENTS		REV A	
ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS SHALL BE TO THE CENTER OF THE CABLE UNLESS OTHERWISE SPECIFIED. DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		SIZE A		ITEM NO. FMCA100032	
		CAGE CODE 3FKR5		DRAWN BY DMAY	