

Times Microwave LMR-400-75-DB 75 Ohm
Low Loss Flexible Coax Cable PE Jacket



LMR-400-75-DB-BULK

Configuration

- Low Loss Flexible Cable

Features

- Max Operating Frequency of 2.5 GHz
- Phase Velocity 85% VoP
- Max Operating Temperature +85°C

Applications

- Laboratory Applications
- General Purpose RF Interconnect

Description

LMR-400-75-DB low-loss coax cable from Fairview Microwave is only one of many radio frequency coaxial cable types specifically stocked to be ready for same business day shipment. Fairview Microwave's LMR-400-75-DB coax cable is manufactured in a flexible design and has a 75 Ohm impedance. This flexible 75 Ohm coax cable is constructed with a polyethylene jacket of 0.4-inch diameter. Our RF coaxial cable is ideal for laboratory applications and general purpose RF interconnect applications.

Fairview Microwave's LMR-400-75-DB flexible coax cable with a polyethylene jacket is rated for a maximum operating frequency of 2.5 GHz. Our low-loss RF coaxial cable has a conductor made of copper. Our coax cable has a typical loss/attenuation of 0.6, 0.8, 1.5, 1.8, 2.6, 3.7, 4.9, 5.4, 5.7, and 6.4 dB/100ft at frequency of 30 MHz, 50 MHz, 150 MHz, 220 MHz, 450 MHz, 900 MHz, 1.5 GHz, 1.8 GHz, 2 GHz, and 2.5 GHz respectively.

The LMR-400-75-DB coax cable with foam polyethylene dielectric can operate at temperatures ranging from -40 to 85 degrees C. Additional specifications for this LMR-400-75-DB RF coaxial cable are on our downloadable PDF datasheet above. This low-loss RF cable has a one time minimum bend radius of 1 inch and a repeat minimum bend radius of 4 inch.

LMR-400-75-DB low-loss RF cable is part of more than one million RF, microwave, and millimeter wave parts in stock at Fairview Microwave. This LMR-400-75-DB coax cable is ready to buy and can be shipped worldwide. Fairview Microwave also maintains a wide selection of other radio frequency coaxial cable types that ship the same business day from our warehouse in the United States, as with the rest of our other RF/microwave and millimeter wave components.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2.5	GHz
Impedance		75 75		Ohms
Velocity of Propagation		85		%
Shielding Effectiveness	90			dB
Operating Voltage (DC)			2,000	Vdc
Jacket Spark			5,000	Vrms
Inner Conductor DC Resistance			2.5	Ohms/1000ft
Outer Conductor DC Resistance			1.65	Ohms/1000ft

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Nominal Capacitance		15.9 [52.17]		pF/ft [pF/m]
Nominal Inductance		0.09 [0.3]		uH/ft [uH/m]
Input Power (Peak)			10	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	30	50	150	220	450	MHz
Attenuation, Typ	0.6	0.8	1.5	1.8	2.6	dB/100ft
	1.97	2.62	4.92	5.91	8.53	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	0.9	1.5	1.8	2	2.5	GHz
Attenuation, Typ	3.7	4.9	5.4	5.7	6.4	dB/100ft
	12.14	16.08	17.72	18.7	21	dB/100m

Mechanical Specifications

Diameter	0.405 in [10.29 mm]
Weight	0.035 lbs/ft [0.05 kg/m]
Min. Bend Radius (Installation)	1 in [25.4 mm]
Min. Bend Radius (Repeated)	4 in [101.6 mm]
Bending Moment	0.5 lbs-ft [0.68 N-m]
Tensile Strength	160 lbs [72.57 kg]
Flat Plate Crush	40 lbs/in [0.71 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Strand	0.065 in [1.65 mm]
Dielectric	Foam PE	0.285 in [7.24 mm]
Outer Conductor	Aluminum Tape	0 in [0 mm]
Jacket	PE	0.405 in [10.29 mm]

Environmental Specifications

Temperature	
Operating Range	-40 to +85 deg C
Installation Range	-40 to +85 deg C
Storage Range	-70 to +85 deg C

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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Times Microwave LMR-400-75-DB 75 Ohm Low Loss Flexible Coax Cable PE Jacket 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.

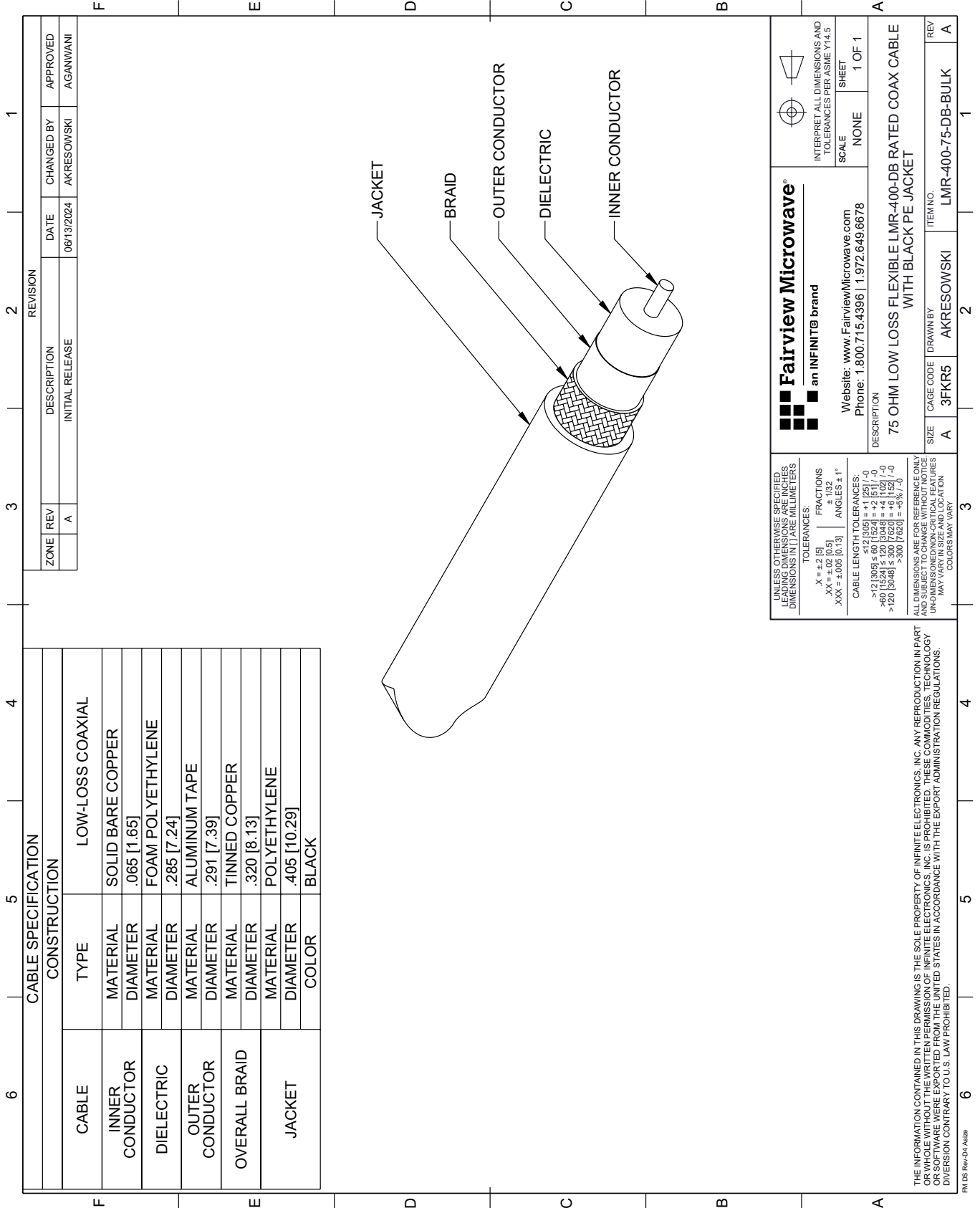
For additional information on this product, please click the following link: [Times Microwave LMR-400-75-DB 75 Ohm Low Loss Flexible Coax Cable PE Jacket LMR-400-75-DB-BULK](#)

URL: <https://www.fairviewmicrowave.com/75-ohm-lmr40075db-low-loss-flexible-coax-cable-pe-jacket-lmr-400-75-db-bulk-p.aspx>

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LMR-400-75-DB-BULK CAD Drawing

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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A		INITIAL RELEASE	06/13/2024	AKRESOWSKI	AGANWANI

CABLE SPECIFICATION	
CABLE	CONSTRUCTION
INNER CONDUCTOR	LOW-LOSS COAXIAL
DIELECTRIC	SOLID BARE COPPER
OUTER CONDUCTOR	.065 [1.65]
OVERALL BRAID	FOAM POLYETHYLENE
JACKET	.285 [7.24]
	ALUMINUM TAPE
	.291 [7.39]
	TINNED COPPER
	.320 [8.13]
	POLYETHYLENE
	.405 [10.29]
	BLACK

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

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

TOLERANCES:
 .X = ±.2 [5] FRACTIONS ± 1/32
 .XX = ±.02 [0.5] ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
 >12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [10.2] / -0
 >120 [3048] ≤ 300 [7620] = ±.8 [20.3] / -0

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

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PM 06 Rev-D4 Alt26

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	AKRESOWSKI	LMR-400-75-DB-BULK	A