

75 Ohm Low Loss Flexible LMR-400-75-DB Rated Coax Cable with 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

The LMR-400-75-DB part number from Pasternack is a low-loss coax cable that is flexible. Pasternack flexible coax RF cable has an impedance of 75 Ohm and a foam polyethylene dielectric. Our LMR-400-75-DB coax cable is constructed with a 0.4-inch jacket made of polyethylene. This RF coaxial cable is ideal for laboratory applications and general purpose RF interconnect applications. This black-colored low-loss coax cable has a nominal capacitance of 15.9 pF/Ft.

This LMR-400-75-DB flexible RF cable has a minimum RF shielding of 90 dB. Our coax cable from Pasternack has a maximum frequency of 2.5 GHz. 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 inches.

Our LMR-400-75-DB coax cable can operate at temperatures ranging from -40 to 85 degrees C. 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 6.3 dB/100ft at frequencies 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 flexible RF cable has a copper center conductor.

Pasternack LMR-400-75-DB low-loss coax cables are part of our RF, microwave, and millimeter wave components. These flexible cables and our other RF parts are available for same-day shipping worldwide. Custom RF cable assemblies using LMR-400-75-DB, or other coax can be built and shipped the same business day as well.

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
Nominal Capacitance		15.9 [52.17]		pF/ft [pF/m]
Nominal Inductance		0.09 [0.3]		uH/ft [uH/m]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
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:

75 Ohm Low Loss Flexible LMR-400-75-DB Rated Coax Cable with PE Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm Low Loss Flexible LMR-400-75-DB Rated Coax Cable with PE Jacket LMR-400-75-DB-BULK](#)

URL: <https://www.pasternack.com/75-ohm-low-loss-flexible-lmr40075db-pe-jacket-lmr-400-75-db-bulk-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. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

LMR-400-75-DB-BULK CAD Drawing
75 Ohm Low Loss Flexible LMR-400-75-DB Rated Coax Cable with PE Jacket

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ZONE

REV

DATE

CHANGED BY

APPROVED

INITIAL RELEASE

09/13/2024

AKRESOWSKI

AGANWANI

CABLE SPECIFICATION

CONSTRUCTION

CABLE

TYPE

LOW-LOSS COAXIAL

INNER CONDUCTOR

MATERIAL

SOLID BARE COPPER

DIELECTRIC

MATERIAL

FOAM POLYETHYLENE

OUTER CONDUCTOR

MATERIAL

ALUMINUM TAPE

OVERALL BRAID

MATERIAL

TINNED COPPER

JACKET

MATERIAL

POLYETHYLENE

COLOR

BLACK

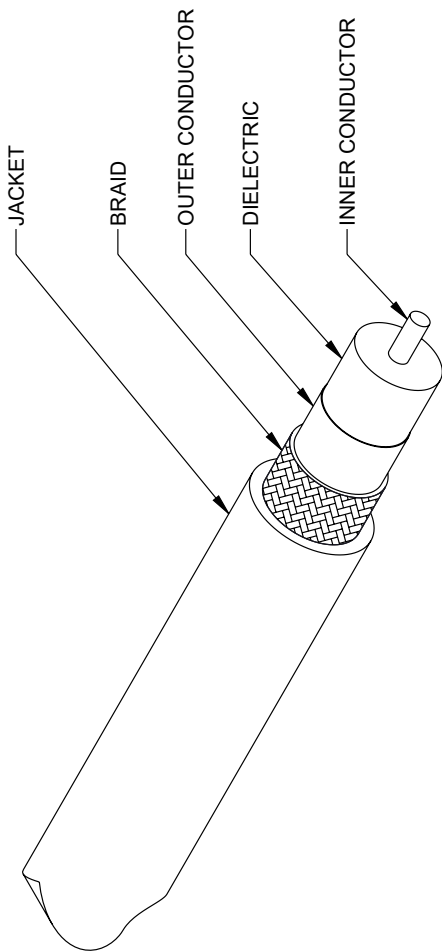
JACKET

BRAID

OUTER CONDUCTOR

DIELECTRIC

INNER CONDUCTOR



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

TOLERANCES:
X = ±.2 [5]
.XX = ±.02 [0.5]
.XXX = ±.005 [0.13]

FRACTIONS
± 1/32
ANGLES ± 1°

CABLE LENGTH TOLERANCES:
>12 [305] ≤ 60 [1524] = ±.1 [25] / -0
>60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
>120 [3048] ≤ 300 [7620] = ±.6 [152] / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

PE PASTERNAK

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

DESCRIPTION

75 OHM LOW LOSS FLEXIBLE LMR-400-DB RATED COAX CABLE WITH BLACK PE JACKET

SIZE

CAGE CODE

DRAWN BY

ITEM NO.

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53919

AKRESOWSKI

LMR-400-75-DB-BULK

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PE DB Rev-D4 Adda

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