

Times Microwave LMR-600-75-DB 75 Ohm Low Loss Flexible Coax Cable PE Jacket



LMR-600-75-DB-BULK

Configuration

- Low Loss Flexible Cable
- 1 Shield(s)

Features

- Max Operating Frequency of 2.5 GHz
- Phase Velocity 87% VoP
- Max Operating Temperature +85°C

Applications

- Laboratory Applications
- General Purpose RF Interconnect

Description

LMR-600-75-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-600-75-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 0.59-inch diameter. Our RF coaxial cable is ideal for laboratory applications and general purpose RF interconnect applications.

Fairview Microwave's LMR-600-75-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 0.4, 0.5, 0.9, 1.1, 1.3, 1.6, 2.3, 3.1, 3.7, and 4.2 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.

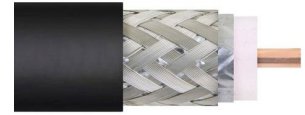
The LMR-600-75-DB coax cable with PTFE dielectric can operate at temperatures ranging from -40 to 85 degrees C. Additional specifications for this LMR-600-75-DB RF coaxial cable are on our downloadable PDF datasheet above. This low-loss RF cable has a repeat minimum bend radius of 1 inch.

LMR-600-75-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-600-75-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		Ohms
Velocity of Propagation		87		%
Inner Conductor DC Resistance			1.39	Ohms/1000ft
Outer Conductor DC Resistance			1.2	Ohms/1000ft

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Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	30	50	150	220	300	MHz
Attenuation, Typ	0.4	0.5	0.9	1.1	1.3	dB/100ft
	1.31	1.64	2.95	3.61	4.27	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	0.45	0.9	1.5	2	2.5	GHz
Attenuation, Typ	1.6	2.3	3.1	3.7	4.2	dB/100ft
	5.25	7.55	10.17	12.14	13.78	dB/100m

Mechanical Specifications

Diameter	0.59 in [14.99 mm]
Weight	0.035 lbs/ft [0.05 kg/m]
Min. Bend Radius (Repeated)	1 in [25.4 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Aluminum, Strand	0.108 in [2.74 mm]
Dielectric	PTFE	0.455 in [11.56 mm]
First Shield	Aluminum Tape	
Outer Conductor		0 in [0 mm]
Jacket	PE	0.59 in [14.99 mm]

Environmental Specifications

Temperature Operating Range	-40 to +85 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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Times Microwave LMR-600-75-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.

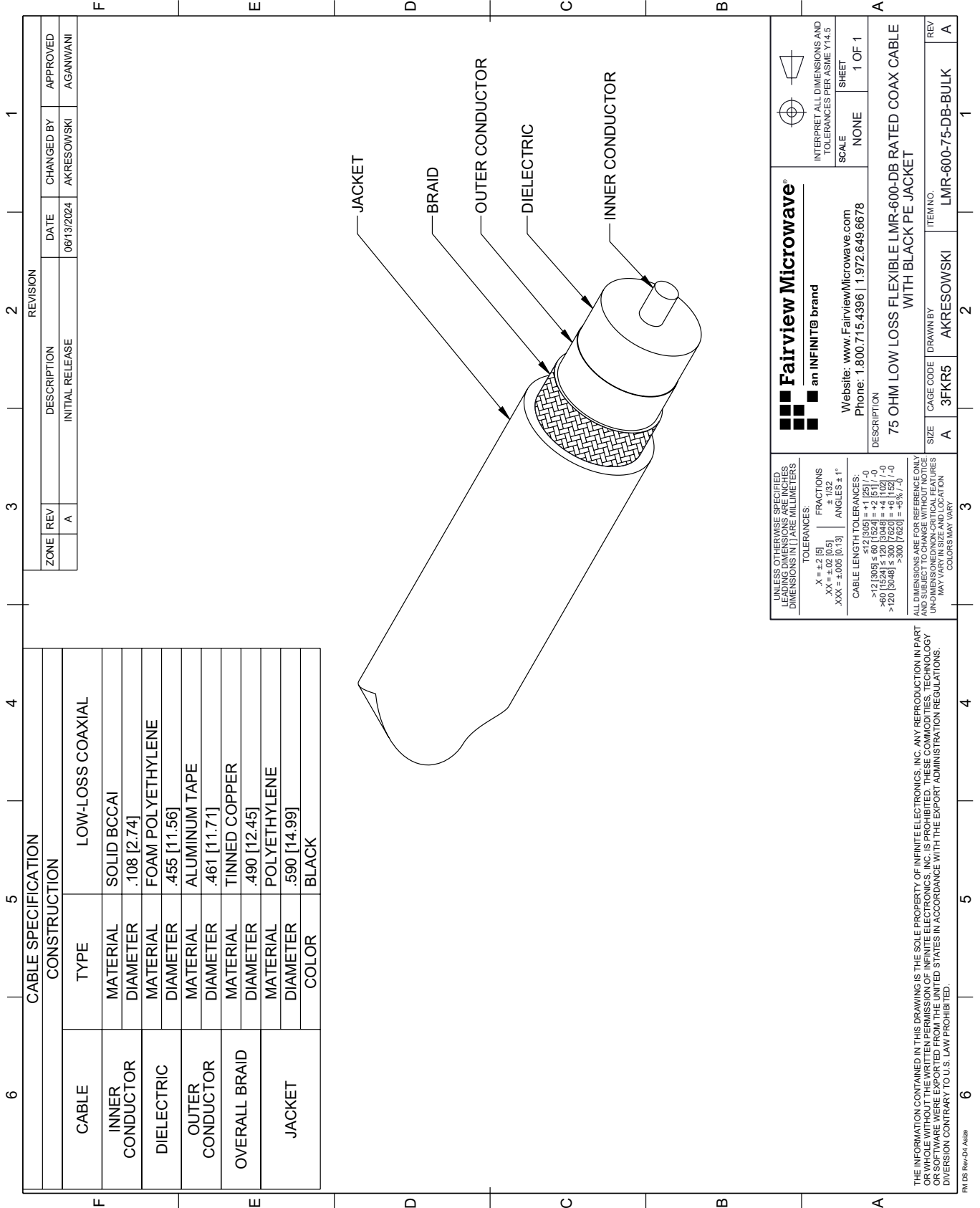
For additional information on this product, please click the following link: [Times Microwave LMR-600-75-DB 75 Ohm Low Loss Flexible Coax Cable PE Jacket LMR-600-75-DB-BULK](https://www.fairviewmicrowave.com/75-ohm-lmr60075db-low-loss-flexible-coax-cable-pe-jacket-lmr-600-75-db-bulk-p.aspx)

URL: <https://www.fairviewmicrowave.com/75-ohm-lmr60075db-low-loss-flexible-coax-cable-pe-jacket-lmr-600-75-db-bulk-p.aspx>

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LMR-600-75-DB-BULK CAD Drawing

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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A		INITIAL RELEASE	09/13/2024	AKRESOWSKI	AGANWANI

CABLE SPECIFICATION	
CONSTRUCTION	
CABLE	LOW-LOSS COAXIAL
INNER CONDUCTOR	SOLID BCCAI
DIELECTRIC	FOAM POLYETHYLENE
OUTER CONDUCTOR	ALUMINUM TAPE
OVERALL BRAID	TINNED COPPER
JACKET	POLYETHYLENE
	BLACK

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Website: www.FairviewMicrowave.com
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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 [25] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [15] / -0

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

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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	AKRESOWSKI	LMR-600-75-DB-BULK

PM 05 Rev-D4 A426