

## Times Microwave LMR-900-DB Low Loss Flexible Coax Cable Black PE Jacket



### LMR-900-DB

#### Configuration

- Low Loss Flexible Cable
- 2 Shield(s)

#### Features

- Max Operating Frequency of 6 GHz
- Phase Velocity 87% VoP

#### Applications

- Laboratory Applications

#### Description

LMR-240-75-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-240-75-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 0.24-inch diameter. Our RF coaxial cable is ideal for laboratory applications and general purpose RF interconnect applications.

Fairview Microwave's LMR-240-75-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 1.3, 1.6, 2.9, 3.5, 5, 7.2, 9.4, 10.3, 10.9, and 12.3 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-240-75-DB coax cable with foam polyethylene dielectric can operate at temperatures ranging from -40 to 85 degrees C. Additional specifications for this LMR-240-75-DB RF coaxial cable are on our downloadable PDF datasheet above. This low-loss RF cable has a one time minimum bend radius of 0.75 inch and a repeat minimum bend radius of 2.5 inch.

LMR-240-75-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-240-75-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		6	GHz
Impedance		50		Ohms
Velocity of Propagation		87		%
Time Delay		1.17 [3.84]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Operating Voltage (DC)			5,000	Vdc
Dielectric Withstanding Voltage (DC)			4,000	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resistance			0.54	Ohms/1000ft
Outer Conductor DC Resistance			0.55	Ohms/1000ft

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**LMR-900-DB**

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Nominal Capacitance		23.7 [77.76]		pF/ft [pF/m]
Nominal Inductance		0.058 [0.19]		uH/ft [uH/m]
Input Power (Peak)			62	kWatts

**Mechanical Specifications**

Diameter	0.87 in [22.1 mm]
Weight	0.266 lbs/ft [0.4 kg/m]
Min. Bend Radius (Installation)	3 in [76.2 mm]
Min. Bend Radius (Repeated)	9 in [228.6 mm]
Bending Moment	9 lbs-ft [12.2 N-m]
Tensile Strength	750 lbs [340.19 kg]
Flat Plate Crush	100 lbs/in [1.79 kg/mm]

**Construction Specifications**

Description	Material and Plating	Diameter
Inner Conductor	Copper Tube, 1 Strand	0.252 in [6.4 mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.68 in [17.27 mm]
First Shield	Tinned Copper	
Outer Conductor	Aluminum Tape	0.87 in [22.1 mm]
Jacket	PE, Black	0.87 in [22.1 mm]

**Environmental Specifications**

Temperature

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

**Plotted and Other Data**

Notes:

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### LMR-900-DB

Times Microwave LMR-900-DB Low Loss Flexible Coax Cable Black 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-900-DB Low Loss Flexible Coax Cable Black PE Jacket LMR-900-DB](#)

URL: <https://www.fairviewmicrowave.com/lmr900-low-loss-flexible-coax-cable-pe-jacket-lmr-900-db-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.