

## Low Loss Flexible LMR-900-DB Rated Coax Cable Double Shielded with Black PE Jacket



### LMR-900-DB-BULK



## Times Microwave Systems Connector Specification

### Configuration

- Low Loss Flexible Cable
- 2 Shield(s)

### Features

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

### Applications

- Laboratory Applications

### Description

The LMR-900-DB-BULK part number from Pasternack is a low-loss coax cable that is flexible. Pasternack flexible coax RF cable has an impedance of 50 Ohm and a foam polyethylene dielectric. Our LMR-900-DB-BULK coax cable is constructed with a 0.87-inch jacket made of polyethylene. This coaxial cable has a dielectric withstanding voltage of 4000 Vdc. This black-colored low-loss coax cable has a nominal capacitance of 23.7 pF/Ft.

This LMR-900-DB-BULK flexible RF cable has a shield count of 2 and RF shielding of 90 dB. Our coax cable from Pasternack has a maximum frequency of 6 GHz. Additional specifications for this LMR-900-DB-BULK double-shielded RF coaxial cable are on our downloadable PDF datasheet above. This low-loss RF cable has a one-time minimum bend radius of 3 inches and a repeat minimum bend radius of 9 inches. Our flexible 50 Ohm coax cable has a peak power rating of 62000 watts.

Our LMR-900-DB-BULK coax cable can operate at temperatures ranging from -40 to 85 degrees C. The LMR-900-DB-BULK flexible RF cable has a solid copper tube center conductor.

Pasternack LMR-900-DB-BULK 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-900-DB-BULK, or other coax can be built and shipped the same business day as well.

LMR® is a registered trademark of Times Microwave Systems.

### 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

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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Inner Conductor DC Resistance			0.54	Ohms/1000ft
Outer Conductor DC Resistance			0.55	Ohms/1000ft
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 in [0 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-BULK

Low Loss Flexible LMR-900-DB Rated Coax Cable Double Shielded with Black 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: [Low Loss Flexible LMR-900-DB Rated Coax Cable Double Shielded with Black PE Jacket LMR-900-DB-BULK](https://www.pasternack.com/low-loss-flexible-lmr900-pe-jacket-tinned-copper-outer-conductor-double-shielded-lmr-900-db-bulk-p.aspx)

URL: <https://www.pasternack.com/low-loss-flexible-lmr900-pe-jacket-tinned-copper-outer-conductor-double-shielded-lmr-900-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-900-DB-BULK CAD Drawing

Low Loss Flexible LMR-900-DB Rated Coax Cable Double Shielded with Black PE Jacket

