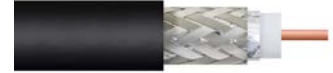


Low Loss Flexible LMR-240-DB Direct Burial Coax Cable  
Double Shielded with Black PE Jacket By The Foot



**LMR-240-DB-LC**



**Configuration**

- Low Loss Flexible Cable
- 2 Shield(s)

**Features**

- PE Jacket
- Max operating temperature 85°C
- Min Install Bend radius of 2.5 inches
- Phase Velocity 84% VoP
- Max operating Frequency of 5.8 GHz

**Applications**

- Antenna Installs
- RF Test systems
- General Purpose RF Interconnect
- Laboratory applications

**Description**

LMR-240-DB-LC coax cable from L-com is only one of a large number of radio frequency coaxial cable types specifically stocked to be ready for quick shipment. L-com Microwave LMR-240-DB-LC coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-240-DB-LC is constructed with a 0.24 inch diameter and Black PE jacket.

LMR-240-DB-LC flexible 50 Ohm coax cable with PE jacket is rated for a 5.8 GHz maximum operating frequency. This 50 Ohm 0.24 inch diameter and low loss flexible coax cable is built with a double shield count and RF shielding of 90 dB. L-com Microwave LMR-240-DB-LC coax is constructed with PE (F) dielectric and a maximum operating temperature of 85 degrees C. Times Microwave LMR-240-DB-LC coax cable specs for this wire properties can be found on its RF coax cable LMR-240-DB-LC datasheet.

LMR-240-DB-LC cable is part of more than one million RF, microwave parts in stock at L-com. This Times Microwave low loss LMR-240-DB-LC coax cable is ready to buy and can be shipped worldwide. L-com also maintains a wide selection of other radio frequency coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave components.

\* LMR™ is a trademark of Times Microwave Systems.

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
Impedance		50		Ohms
Velocity of Propagation		84		%
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			1,500	Vdc
Jacket Spark			5,000	Vrms
Nominal Capacitance		24.2 [79.4]		pF/ft [pF/m]
Nominal Inductance		0.06 [0.2]		uH/ft [uH/m]
Input Power (Peak)			5.6	kWatts

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**Performance by Frequency Band**

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	1.7	3	3.7	5.3	7.6	dB/100ft
	5.58	9.84	12.14	17.39	24.93	dB/100m
Input Power (CW), Max	1,150	660	540	380	260	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	9.9	10.9	11.5	12.9	20.4	dB/100ft
	32.48	35.76	37.73	42.32	66.93	dB/100m
Input Power (CW), Max	200	180	170	150	100	Watts

Electrical Specification Notes:

- Values at 25°C, sea level.
- Attenuation = 0.242080\*sqrt(FMHz) + 0.000330

**Mechanical Specifications**

Diameter	0.24 in [6.1 mm]
Weight	0.033 lbs/ft [0.05 Kg/m]
Min. Bend Radius (Installation)	0.75 in [19.05 mm]
Min. Bend Radius (Repeated)	2.5 in [63.5 mm]
Bending Moment	0.25 lbs-ft [0.34 N-m]
Tensile Strength	80 lbs [36.29 kg]
Flat Plate Crush	20 lbs/in [0.36 Kg/mm]

**Construction Specifications**

Description	Material and Plating	Diameter
Inner Conductor	Copper 1 Strand(s)	0.056in [1.42mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.15in [3.81mm]
First Shield	Aluminum Tape	0.155 in [3.94 mm]
Second Shield	Tinned Copper Braid	0.178 in [4.52 mm]
Jacket	PE, Black	0.24in [6.1mm]

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## LMR-240-DB-LC



### Environmental Specifications

#### Temperature

Operating Range	-40°C to +85°C
Installation Range	-40°C to +85°C
Storage Range	-70°C to +85°C

Environmental Specification Notes:  
Designed for indoor and outdoor use.

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

### Plotted and Other Data

Low Loss Flexible LMR-240-DB Direct Burial Coax Cable Double Shielded with Black PE Jacket By The Foot from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

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. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

# Low Loss Flexible LMR-240-DB Direct Burial Coax Cable Double Shielded with Black PE Jacket By The Foot

L-com CAD Drawing

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	01/31/20
		APPROVED S.ELLIS

$\phi .240$   
 $[.6, .10]$

JACKET  
 SHIELD LAYER 2  
 SHIELD LAYER 1  
 DIELECTRIC  
 SOLID CENTER CONDUCTOR

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS  TOLERANCES: X = ±.2 [5.08]    FRACTIONS XX = ±.02 [51]    +.1/32 XXX = ±.005 [13]    ANGLES ±.1°  CABLE LENGTH (L) TOLERANCES: L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0  ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	 THIRD-ANGLE PROJECTION  THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.  SHEET 1 OF 1  SCALE N/A	 <b>an INFINITE brand</b> 50 High Street, West Mill, 3rd Floor, Suite #30 North Andover, MA 01845 USA Phone: 1.800.341.5266   1.978.682.6936 Fax: 1.978.689.9484 Website: www.L-com.com E-mail: CustomerService@L-com.com  DRAWN BY DFRISIELLO ITEM NO. LMR-240-DB-LC REV. A
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