

Low Loss Flexible LMR-100A-PVC Indoor / Outdoor Rated  
Coax Cable Double Shielded with Black PVC Jacket



**LMR-100A-PVC**



**Configuration**

- Low Loss, Indoor/Outdoor Flexible Cable
- 2 Shield(s)

**Features**

- PVC Jacket
- Max operating temperature 85°C
- Min Install Bend radius of 1 inches
- Phase Velocity 66% VoP
- Max operating Frequency of 5.8 GHz

**Applications**

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

**Description**

LMR-100A-PVC 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-100A-PVC coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-100A-PVC is constructed with a 0.11 inch diameter and Black PVC jacket.

LMR-100A-PVC flexible 50 Ohm coax cable with PVC jacket is rated for a 5.8 GHz maximum operating frequency. This 50 Ohm 0.11 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-100A-PVC coax is constructed with PE dielectric and a maximum operating temperature of 85 degrees C. Times Microwave LMR-100A-PVC coax cable specs for this wire properties can be found on its RF coax cable LMR-100A-PVC datasheet.

LMR-100A-PVC cable is part of more than one million RF, microwave parts in stock at L-com. This Times Microwave low loss LMR-100A-PVC 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
Cutoff Frequency		90		GHz
Impedance		50		Ohms
Velocity of Propagation		66		%
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			500	Vdc
Jacket Spark			2,000	Vrms
Nominal Capacitance		30.8 [101.05]		pF/ft [pF/m]
Nominal Inductance		0.077 [0.25]		uH/ft [uH/m]
Input Power (Peak)			600	Watts

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**Performance by Frequency Band**

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	3.9	8.9	10.9	15.8	22.8	dB/100ft
	12.8	29.2	35.76	51.84	74.8	dB/100m
Input Power (CW), Max	230	100	83	57	39	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	30.1	33.2	35.2	39.8	64.1	dB/100ft
	98.75	108.92	115.49	130.58	210.3	dB/100m
Input Power (CW), Max	29	27	25	22	13	Watts

**Mechanical Specifications**

Diameter	0.11 in [2.79 mm]
Weight	0.01 lbs/ft [0.01 Kg/m]
Min. Bend Radius (Installation)	0.25 in [6.35 mm]
Min. Bend Radius (Repeated)	1 in [25.4 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Tensile Strength	15 lbs [6.8 kg]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]

**Construction Specifications**

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel 1 Strand(s)	0.018in [0.46mm]
Conductor Type	Solid	
Dielectric	PE	0.06in [1.52mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper Braid	
Jacket	PVC, Black	0.11in [2.79mm]

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## LMR-100A-PVC



### Environmental Specifications

#### Temperature

Operating Range

-40°C to +85°C

Storage Range

-70°C to +85°C

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

### Plotted and Other Data

Low Loss Flexible LMR-100A-PVC Indoor / Outdoor Rated Coax Cable Double Shielded with Black PVC Jacket 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.

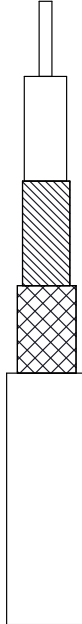
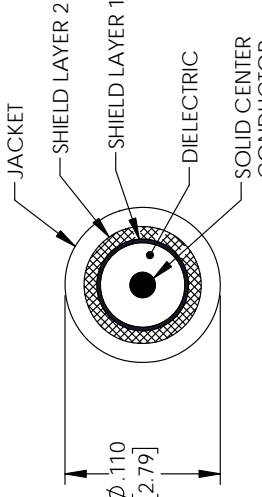
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L-com CAD Drawing

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	2/7/20
	APPROVED	S. ELLIS

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

X = ±.2	[.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.

**L-com™**  
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THIRD-ANGLE PROJECTION



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SCALE 8:1

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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	43321	DFRISIELLO	LMR-100A-PVC
			REV A

T-Rev.D