

Low Loss Flexible LMR-600 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



LMR-600-BULK

Times Microwave Systems Coax Cable Specification

Configuration

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

Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 87% VoP

Applications

- Laboratory Applications
- General Purpose RF Interconnect

Description

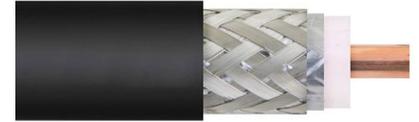
LMR-600-BULK part number from Pasternack is a LMR-600 coax cable that is flexible. Pasternack LMR-600 flexible coax cable is 50 Ohm and has a PE (F) dielectric. Our LMR-600 coax is constructed with a 0.59 jacket made of PE. LMR-600 coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 8 GHz. LMR-600 coax cable has an attenuation at 1 GHz of 2.62 dB.

Pasternack LMR-600 coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-600 cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-600 or other coax can be built and shipped same day as well.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Cutoff Frequency		10.3		GHz
Impedance		50		Ohms
Velocity of Propagation		87		%
Time Delay		1.17 [3.84]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			4,000	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resistance			0.53	Ohms/1000ft
Outer Conductor DC Resistance			1.2	Ohms/1000ft
Nominal Capacitance		23.4 [76.77]		pF/ft [pF/m]
Nominal Inductance		0.058 [0.19]		uH/ft [uH/m]
Input Power (Peak)			40	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	0.5	1	1.2	1.7	2.5	dB/100ft
	1.64	3.28	3.94	5.58	8.2	dB/100m
Input Power (CW), Max	4,240	2,410	1,970	1,350	930	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	6	GHz
Attenuation, Typ	3.3	3.7	3.9	4.4	7.3	dB/100ft
	10.83	12.14	12.8	14.44	23.95	dB/100m
Input Power (CW), Max	700	630	590	520	320	Watts

Mechanical Specifications

Diameter	0.59 in [14.99 mm]
Weight	0.137 lbs/ft [0.2 kg/m]
Min. Bend Radius (Installation)	1.5 in [38.1 mm]
Min. Bend Radius (Repeated)	6 in [152.4 mm]
Bending Moment	2.75 lbs-ft [3.73 N-m]
Tensile Strength	350 lbs [158.76 kg]
Flat Plate Crush	60 lbs/in [1.07 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Aluminum, 1 Strand	0.176 in [4.47 mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.455 in [11.56 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper Braid	
Jacket	PE, Black	0.59 in [14.99 mm]

Environmental Specifications

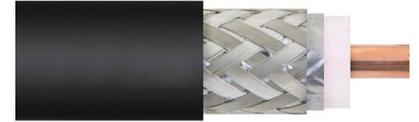
Temperature	
Operating Range	-40 to +85 deg C
Storage Range	-70 to +85 deg C

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

Plotted and Other Data

Notes:

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Low Loss Flexible LMR-600 Outdoor 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-600 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket LMR-600-BULK](#)

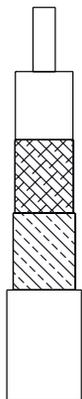
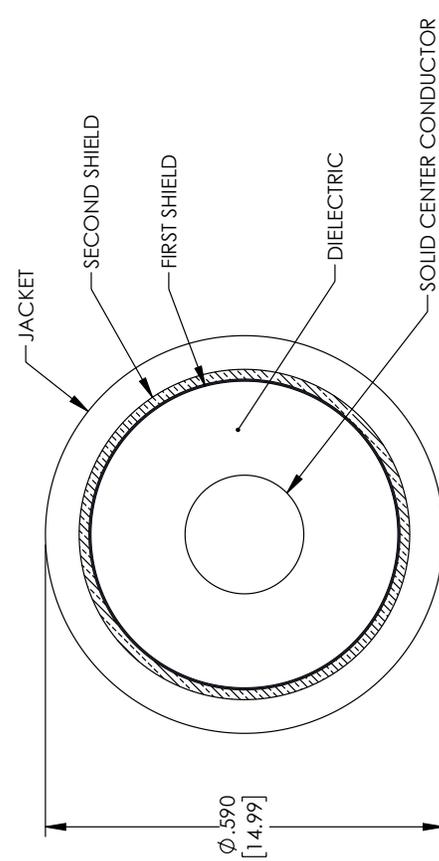
URL: <https://www.pasternack.com/50-ohm-low-loss-flexible-lmr600-pe-jacket-double-shielded-black-lmr-600-bulk-p.aspx>

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-600-BULK CAD Drawing

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REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	03/14/2022
		APPROVED AGANWANI

<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>X = ±.2 [5.08] FRACTIONS ± 1/32</p> <p>.XX = ±.02 [.51] ANGLES ± 1°</p> <p>.XXX = ±.005 [.13] CABLE LENGTH (L) TOLERANCES:</p> <p style="padding-left: 20px;">L ≤ 12 [305] = ±1.0% / -0</p> <p style="padding-left: 20px;">12 [305] < L ≤ 60 [1524] = ±2.6% / -0</p> <p style="padding-left: 20px;">60 [1524] < L ≤ 120 [3048] = ±4.1% / -0</p> <p style="padding-left: 20px;">120 [3048] < L ≤ 300 [7620] = ±6.1% / -0</p> <p style="padding-left: 20px;">300 [7620] < L = ±5% / -0</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	<p>PE PASTERNAK an INFINITE brand</p> <p>Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com</p>	<p>THIRD-ANGLE PROJECTION</p>  <p>THE INFORMATION AND DRAWING CONTENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>
<p>SIZE A</p>	<p>CAGE CODE 53919</p>	<p>DRAWN BY DZINN</p>
<p>ITEM NO. LMR-600-BULK</p>		<p>REV. A</p>

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