

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

## **RF Cables Technical Data Sheet**





# **Times Microwave Systems Coax Cable Specification** Configuration

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

#### **Features**

- · CMR Riser Rated Coax
- · Non-Halogen, Low Smoke PE Jacket
- · Max Operating Frequency of 5.8 GHz

- Phase Velocity 85% VoP
- Max Operating Temperature +85°C
- Min Install Bend Radius of 1.5 inches

### **Applications**

- In-Building Riser Runs
- Short Antenna Installs
- RF Test Systems
- · General Purpose RF Interconnect
- · Laboratory Applications

#### **Description**

LMR-600-FR Fire Rated version of the 600 series Low Loss Coax from Times Microwave is part of the large product offering by Pasternack of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Pasternack LMR-600-FR coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss and CMR riser rated 50 Ohm coax cable LMR-600-FR is constructed with a 0.590 inch diameter and Black PE jacket.

LMR-600-FR flexible 50 Ohm coax cable with PE jacket is rated for a 5.8 GHz maximum operating frequency. This 50 Ohm 0.590 inch diameter and low loss fire rated coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-600-FR PE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Pasternack's offering of LMR-600-FR coax cable provides specs for this wire on its RF coax cable LMR-600-FR datasheet.

LMR-600-FR cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss flexible LMR-600-FR coax cable is ready to buy and can be shipped worldwide. Pasternack 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.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
Impedance		50		Ohms
Velocity of Propagation		85		%
Time Delay		1.17 3.84		ns/ft ns/m
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			4,000	Vdc

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-FR Outdoor Rated Coax Cable Double Shielded with Black PE Jacket Fire Rated LMR-600-FR

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

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<sup>\*</sup> LMR™ is a trademark of Times Microwave Systems.



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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

### 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	5.8	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 Weight

Min. Bend Radius (Installation) Min. Bend Radius (Repeated)

**Bending Moment** Tensile Strength Flat Plate Crush

0.59 in [14.99 mm] 0.131 lbs/ft [0.19 Kg/m]

1.5 in [38.1 mm] 6 in [152.4 mm] 2.75 lbs-ft [3.73 N-m] 350 lbs [158.76 kg] 60 lbs/in [1.07 Kg/mm]

#### **Construction Specifications**

Description	Material and Plating	Diameter	
Inner Conductor	Copper, 1 Strand	0.176 in 4.47 mm	

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Conductor Type	Solid	
Dielectric	Foam PE	0.455 in [11.56 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper	
Jacket	PE, Black	0.59 in [14.99 mm]

## **Environmental Specifications**

#### **Temperature**

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

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

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

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URL: https://www.pasternack.com/50-ohm-low-loss-flexible-lmr195-pe-jacket-double-shielded-black-lmr-195-p.aspx

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

