

## Times Microwave LMR-600-LLPX Low Loss Flexible Coax Cable Fluoropolymer Jacket



### LMR-600-LLPX-BULK

#### Configuration

- Low Loss Flexible Cable

#### Features

- Max Operating Frequency of 8 GHz
- Phase Velocity 76% VoP
- Max Operating Temperature +125°C

#### Applications

- Laboratory Applications
- General Purpose RF Interconnect

#### Description

LMR-600-LLPX low-loss coax cable from Fairview Microwave is only one of many radio frequency coaxial cable types specifically stocked to be ready for same business day shipment. Fairview Microwave's LMR-600-LLPX coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This flexible 50 Ohm coax cable is constructed with a Fluoropolymer jacket of 0.56-inch diameter. Our RF coaxial cable is ideal for laboratory applications and general purpose RF interconnect applications.

Fairview Microwave's LMR-600-LLPX flexible coax cable with a polyethylene jacket is rated for a maximum operating frequency of 8 GHz. Our low-loss RF coaxial cable has a conductor made of copper. Our coax cable has a typical loss/attenuation of 0.5, 1, 1.2, 1.8, 2.6, 3.4, 3.9, 5.3, 7.1, and 8.8 dB/100ft at frequency of 30 MHz, 150 MHz, 450 MHz, 900 MHz, 1.5 GHz, 2 GHz, 2.5 GHz, 3.4 GHz, 5.8 GHz, and 8 GHz respectively.

The LMR-600-LLPX coax cable with PTFE dielectric can operate at temperatures ranging from -40 to 125 degrees C. Additional specifications for this LMR-600-LLPX RF coaxial cable are on our downloadable PDF datasheet above. This low-loss RF cable has a one time minimum bend radius of 1.5 inch and a repeat minimum bend radius of 6 inch.

LMR-600-LLPX low-loss RF cable is part of more than one million RF, microwave, and millimeter wave parts in stock at Fairview Microwave. This LMR-600-LLPX coax cable is ready to buy and can be shipped worldwide. Fairview Microwave also maintains a wide selection of other radio frequency coaxial cable types that ship the same business day from our warehouse in the United States, as with the rest of our other RF/microwave and millimeter wave components.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Velocity of Propagation		76		%
Shielding Effectiveness	90			dB
Operating Voltage (DC)			4,000	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resistance			0.73	Ohms/1000ft
Outer Conductor DC Resistance			1.2	Ohms/1000ft

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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Nominal Capacitance		26.7 [87.6]		pF/ft [pF/m]
Nominal Inductance		0.067 [0.22]		uH/ft [uH/m]
Input Power (Peak)			40	Watts

**Performance by Frequency Band**

Description	F1	F2	F3	F4	F5	Units
Frequency	30	150	220	450	900	MHz
Attenuation, Typ	0.5	1	1.2	1.8	2.6	dB/100ft
	1.64	3.28	3.94	5.91	8.53	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	2	3.4	5.8	8	GHz
Attenuation, Typ	3.4	3.9	5.3	7.1	8.8	dB/100ft
	11.15	12.8	17.39	23.29	28.87	dB/100m

**Mechanical Specifications**

Diameter	0.565 in [14.35 mm]
Weight	0.035 lbs/ft [0.05 kg/m]
Min. Bend Radius (Installation)	1.5 in [38.1 mm]
Min. Bend Radius (Repeated)	6 in [152.4 mm]
Tensile Strength	265 lbs [120.2 kg]
Flat Plate Crush	210 lbs/in [3.75 kg/mm]

**Construction Specifications**

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Aluminum, Strand	0.15 in [3.81 mm]
Dielectric	PTFE	0.455 in [11.56 mm]
Outer Conductor	Aluminum Tape	0 in [0 mm]
Jacket	Fluoropolymer	0.565 in [14.35 mm]

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-40 to +125 deg C
Installation Range	-40 to +125 deg C
Storage Range	-40 to +125 deg C

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

#### Plotted and Other Data

Notes:

Times Microwave LMR-600-LLPX Low Loss Flexible Coax Cable Fluoropolymer Jacket from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Times Microwave LMR-600-LLPX Low Loss Flexible Coax Cable Fluoropolymer Jacket LMR-600-LLPX-BULK](#)

URL: <https://www.fairviewmicrowave.com/lmr600llpx-low-loss-flexible-coax-cable-fluoropolymer-jacket-lmr-600-llpx-bulk-p.aspx>

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# LMR-600-LLPX-BULK CAD Drawing

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