

## Low Loss Flexible LMR-100A-FR Fire Rated Rated Coax Cable Double Shielded with Black FRPE Jacket, By The Foot



### LMR-100A-FR-LC

#### Times Microwave Systems Coax Cable Specification

##### Configuration

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

##### Features

- FRPE Jacket
- Max Operating Temperature +85°C
- Min Install Bend Radius of 0.25 inches
- Phase Velocity 66% VoP
- Max Operating Frequency of 8 GHz
- CMR Fire Rated Coax

##### Applications

- In-Building Riser Runs
- Antenna Installations
- RF Test Systems
- General Purpose RF Interconnect
- Laboratory Applications

##### Description

LMR-100A-FR-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 LMR-100A-FR-LC coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-100A-FR-LC is constructed with a 0.110 inch diameter and Black FRPE jacket.

LMR-100A-FR-LC flexible 50 Ohm coax cable with PVC jacket is rated for a 8GHz maximum operating frequency. This 50 Ohm 0.110 inch diameter and low loss flexible coax cable is built with a double shield count and RF shielding of 90 dB. L-com LMR-100A-FR-LC coax is constructed with PE dielectric and a maximum operating temperature of +85 degrees C. Times Microwave LMR-100A-FR-LC coax cable specs for this wire properties can be found on its RF coax cable LMR-100A-FR-LC datasheet.

LMR-100A-FR-LC cable is part of more than one million RF, microwave parts in stock at L-com. This Times Microwave low loss LMR-100A-FR-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		8	GHz
Impedance		50		Ohms
Velocity of Propagation		66		%
Time Delay		1.54 [5.05]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			500	Vdc
Jacket Spark			2,000	Vrms
Inner Conductor DC Resistance			81	Ohms/1000ft
Outer Conductor DC Resistance			9.5	Ohms/1000ft
Nominal Capacitance		30.8 [101.05]		pF/ft [pF/m]

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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Nominal Inductance		0.077 [0.25]		uH/ft [uH/m]
Input Power (Peak)			600	Watts

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	5.1	8.9	10.9	15.8	22.8	dB/100ft
	16.73	29.2	35.76	51.84	74.8	dB/100m
Input Power (CW), Max	180	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	0.0092 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, 1 Strand	0.018 in [0.46 mm]
Conductor Type	Solid	
Dielectric	PE	0.06 in [1.52 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper	
Jacket	FRPE, Black	0.11 in [2.79 mm]

#### Environmental Specifications

Temperature Operating Range	-40 to +85 deg C
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Installation 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:

Low Loss Flexible LMR-100A-FR Fire Rated Rated Coax Cable Double Shielded with Black FRPE 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.

URL: <https://www.l-com.com/low-loss-flexible-lmr-100a-fr-fire-rated-rated-coax-cable-double-shielded-black-frpe-jacket-by-the-foot-lmr-100a-fr-lc-p.aspx>

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