

## Low Loss Flexible LMR-200-FR Fire Rated Coax Cable Double Shielded with Black FRPE Jacket By The Foot



### LMR-200-FR

#### Configuration

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

#### Features

- FRPE Jacket
- Max operating temperature 185°C
- Min Install Bend radius of 2 inches
- Phase Velocity 83% VoP
- Max operating Frequency of 5.8 GHz

#### Applications

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

#### Description

LMR-200-FR 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-200-FR coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-200-FR is constructed with a 0.195 inch diameter and Black FRPE jacket.

LMR-200-FR flexible 50 Ohm coax cable with FRPE jacket is rated for a 5.8 GHz maximum operating frequency. This 50 Ohm 0.195 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-200-FR coax is constructed with PE dielectric and a maximum operating temperature of 185 degrees C. Times Microwave LMR-200-FR coax cable specs for this wire properties can be found on its RF coax cable LMR-200-FR datasheet.

LMR-200-FR cable is part of more than one million RF, microwave parts in stock at L-com. This Times Microwave low loss LMR-200-FR 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
Impedance		50		Ohms
Velocity of Propagation		83		%
Time Delay		1.22 [4]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			1,000	Vdc
Jacket Spark			3,000	Vrms
Inner Conductor DC Resistance			5.36	Ohms/1000ft
Outer Conductor DC Resistance			4.9	Ohms/1000ft
Nominal Capacitance		24.5 [80.38]		pF/ft [pF/m]
Nominal Inductance		0.061 [0.2]		uH/ft [uH/m]
Input Power (Peak)			2.5	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	2.3	4	4.8	7	9.9	dB/100ft
	7.55	13.12	15.75	22.97	32.48	dB/100m
Input Power (CW), Max	790	450	370	260	180	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.8	2.5	5.8			GHz
Attenuation, Typ	14.2	16.9	26.4			dB/100ft
	46.59	55.45	86.61			dB/100m
Input Power (CW), Max	130	110	70			Watts

#### Mechanical Specifications

Diameter	0.195 in [4.95 mm]
Weight	0.026 lbs/ft [0.04 kg/m]
Min. Bend Radius (Installation)	0.5 in [12.7 mm]
Min. Bend Radius (Repeated)	2 in [50.8 mm]
Bending Moment	2 lbs-ft [2.71 N-m]
Tensile Strength	40 lbs [18.14 kg]
Flat Plate Crush	15 lbs/in [0.27 kg/mm]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.044 in [1.12 mm]
Conductor Type	Solid	
Dielectric	PE	0.116 in [2.95 mm]
First Shield	Aluminum Tape	0.121 in [3.07 mm]
Second Shield	Tinned Copper Braid	0.144 in [3.66 mm]
Jacket	FRPE, Black	0.195 in [4.95 mm]

#### Environmental Specifications

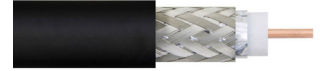
<b>Temperature</b>	
Operating Range	-40 to +185 deg C
Storage Range	-94 to +185 deg C

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

#### Plotted and Other Data

Notes:

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### LMR-200-FR

Low Loss Flexible LMR-200-FR Fire 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-200-fr-fire-rated-coax-cable-double-shielded-black-frpe-jacket-lmr-200-fr-p.aspx>

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