

Times Microwave LMR-200-FR Low Loss Flexible Coax Cable Black FRPE Jacket



LMR-200-FR

Configuration

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

Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 83% VoP

Applications

- Laboratory Applications
- General Purpose RF Interconnect

Description

LMR-200-FR coax cable from Fairview is only one of a large number of radio frequency twinaxial and coaxial cable types specifically stocked to be ready for quick shipment. Fairview 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 FRPE jacket.

LMR-200-FR flexible 50 Ohm coax cable with FRPE jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.195 inch diameter and low loss flexible coax cable is built with a shield count of 2 and RF shielding of 90 dB.

Fairview 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 PDF specifications above.

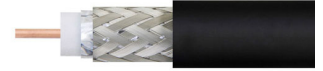
LMR-200-FR cable is part of more than one million RF, microwave and millimeter wave parts in stock at Fairview. This Times Microwave low loss LMR-200-FR coax cable is ready to buy and can be shipped worldwide. Fairview also maintains a wide selection of other radio frequency twinaxial and coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave and millimeter wave 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		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]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input Power (Peak)			2.5	kWatts

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
Input Power (CW), Typ						mWatts

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
Input Power (CW), Typ						mWatts

Mechanical Specifications

Diameter	0.195 in [4.95 mm]
Weight	0.028 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	Stranded	
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]

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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:

Times Microwave LMR-200-FR Low Loss Flexible Coax Cable Black FRPE 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®-200-FR Low Loss Flexible Coax Cable Black FRPE Jacket LMR-200-FR](#)

URL: <https://www.fairviewmicrowave.com/lmr200fr-low-loss-flexible-coax-cable-frpe-jacket-lmr-200-fr>

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LMR-200-FR CAD Drawing

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