

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



LMR-200-FR-BULK



Times Microwave Systems Connector Specification

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-BULK 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 LMR-200-FR-BULK 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

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
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

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	6			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

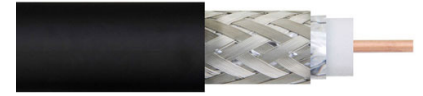
Mechanical Specifications

Diameter	0.195 in [4.95 mm]
Weight	0.028 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	
Second Shield	Tinned Copper Braid	
Jacket	FRPE, Black	0.195 in [4.95 mm]

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Environmental Specifications

Temperature

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:

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-BULK](#)

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

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LMR-200-FR-BULK CAD Drawing

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