

**Times Microwave LMR-195-UF Low Loss Flexible
Coax Cable Black TPE Jacket Ultra Flex**

Times Microwave Systems Coax Cable Specification

LMR-195-UF Ultra Flex version of the 195 series Low Loss Coax from Times Microwave is part of the large product offering by Fairview Microwave of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Fairview Microwave LMR-195-UF coax cable is manufactured in an ultra flexible design and has a 50 Ohm impedance. This low loss and ultra flexible 50 Ohm coax cable LMR-195-UF is constructed with a 0.195 inch diameter and Black TPE jacket.

LMR-195-UF flexible 50 Ohm coax cable with TPE jacket is rated for a 5.8 GHz maximum operating frequency. This 50 Ohm 0.195 inch diameter and low loss ultra flexible coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-195-UF TPE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Fairview Microwave's offering of LMR-195-UF coax cable provides specs for this wire on its RF coax cable LMR-195-UF datasheet.

LMR-195-UF cable is part of more than one million RF, microwave parts in stock at Fairview Microwave. This Times Microwave low loss ultra flexible LMR-195-UF 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 same-day from our warehouse as with the rest of our other RF/microwave components.

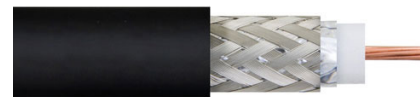
* LMR™ is a trademark of Times Microwave Systems.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Velocity of Propagation		74		%
Time Delay		1.27 [4.17]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
DWV (DC)			1,000	Vdc
Jacket Spark			3,000	Vrms
Inner Conductor DC Resist.			9.5	Ohms/1000ft
Outer Conductor DC Resist.			4.9	Ohms/1000ft
Nominal Capacitance		25.4		pF/ft
		[83.33]		[pF/m]
Nominal Inductance		0.064		uH/ft
		[0.21]		[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	3	5.3	6.4	9.3	13.2	dB/100ft
	9.84	17.39	21	30.51	43.31	dB/100m



Configuration:

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

Features:

- Max Operating Frequency of 5.8 GHz
- Phase Velocity 74% VoP
- Stranded Center Conductor Resulting in an Ultra Flexible Coax
- Max Operating Temperature +85°C
- TPE Jacket
- Min Install Bend Radius of 0.5 inches

Applications:

- Laboratory Applications
- General Purpose RF Interconnect
- RF Test Systems Requiring Highly Flexible Coax
- Antenna Installs

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sales@fairviewmicrowave.com

Power In (CW), Max	610	350	280	200	140	Watts
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Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	6	GHz
Attenuation, Typ	17.3	19	20.1	22.6	35.6	dB/100ft
	56.76	62.34	65.94	74.15	116.8	dB/100m
Power In (CW), Max	100	90	90	80	50	Watts

Mechanical Specifications

Diameter	0.195 in [4.95 mm]
Weight	0.021 lbs/ft [0.03 kg/m]
Min. Bend Radius (Installation)	0.5 in [12.7 mm]
Min. Bend Radius (Repeated)	2 in [50.8 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Tensile Strength	40 lbs [18.14 kg]
Flat Plate Crush	10 lbs/in [0.18 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strands	0.038 in [0.97 mm]
Conductor Type	Stranded	
Dielectric	Foam PE	0.11 in [2.79 mm]
First Shield	Aluminum Tape	[]
Second Shield	Tinned Copper	[]
Jacket	TPE, Black	0.195 in [4.95 mm]

Environmental Specifications

Temperature	
Operating Range	-40 to +85 deg C
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:

Times Microwave LMR-195-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Times Microwave LMR-195-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex LMR-195-UF-BULK](https://www.fairviewmicrowave.com/lmr-195-uf-low-loss-flexible-coax-cable-tpe-jacket-lmr-195-uf-bulk-p.aspx)

URL: <https://www.fairviewmicrowave.com/lmr-195-uf-low-loss-flexible-coax-cable-tpe-jacket-lmr-195-uf-bulk-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/13/2023	AGANWANI

Ø.195
[4.95]

JACKET

SECOND SHIELD

FIRST SHIELD

DIELECTRIC

STRANDED CENTER CONDUCTOR

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<div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>Fairview Microwave</div><div>an INFINIT® brand</div></div> <div>TITLE</div> <div>Times Microwave LMR-195-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex</div>	UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		THIRD-ANGLE PROJECTION THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.	
TOLERANCES:		CABLE LENGTH (L) TOLERANCES:		
.X = ±.2 [5.08] FRACTIONS .XX = ±.02 [.51] ± 1/32 XXX = ±.005 [.13] ANGLES ± 1°		L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0		
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.				
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	AKRESOWSKI	LMR-195-UF-BULK	A

T-Rev.D