

Low Loss Ultra Flexible LMR-195-UF Indoor Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket



LMR-195-UF-LC-BULK

Times Microwave Systems Coax Cable Specification

Configuration

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

Features

- TPE Jacket
- Max Operating Temperature +85°C
- Min Install Bend Radius of 0.5 inches
- Phase Velocity 74% VoP
- Max Operating Frequency of 8 GHz
- Ultra Flexible Coax

Applications

- RF Test Systems
- Antenna Installations
- Laboratory Applications
- General Purpose RF Interconnect

Description

LMR-195-UF-LC-BULK 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-195-UF-LC-BULK coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-195-UF-LC-BULK is constructed with a 0.195 inch diameter and Black TPE jacket.

LMR-195-UF-LC-BULK flexible 50 Ohm coax cable with PVC 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 double shield count and RF shielding of 90 dB. L-com LMR-195-UF-LC-BULK coax is constructed with Foam PE dielectric and a maximum operating temperature of +85 degrees C. Times Microwave LMR-195-UF-LC-BULK coax cable specs for this wire properties can be found on its RF coax cable LMR-195-UF-LC-BULK datasheet.

LMR-195-UF-LC-BULK cable is part of more than one million RF, microwave parts in stock at L-com. This Times Microwave low loss LMR-195-UF-LC-BULK 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		74		%
Time Delay		1.27 [4.17]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			1,000	Vdc
Jacket Spark			3,000	Vrms
Inner Conductor DC Resistance			9.5	Ohms/1000ft
Outer Conductor DC Resistance			4.9	Ohms/1000ft
Nominal Capacitance		25.4 [83.33]		pF/ft [pF/m]
Nominal Inductance		0.064 [0.21]		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	3	5.3	6.4	9.3	13.2	dB/100ft
	9.84	17.39	21	30.51	43.31	dB/100m
Input Power (CW), Max	610	350	280	200	140	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	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
Input Power (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 Strand	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

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

Plotted and Other Data

Notes:

Low Loss Ultra Flexible LMR-195-UF Indoor Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket 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-ultra-flexible-lmr-195-uf-indoor-outdoor-rated-coax-cable-double-shielded-black-tpe-jacket-by-the-foot-lmr-195-uf-lc-bulk-p.aspx>

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LMR-195-UF-LC-BULK CAD Drawing

Low Loss Ultra Flexible LMR-195-UF Indoor Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket

Technical drawing of a cable cross-section and side view. The side view shows a rectangular cable with a central conductor and insulation. The cross-section view shows a circular cable with a central conductor, surrounded by a dielectric, then a first shield, then a second shield, and finally a jacket. Dimensions are given in inches and millimeters.

Labels in the cross-section view:

- JACKET
- SECOND SHIELD
- FIRST SHIELD
- DIELECTRIC
- STRANDED CENTER CONDUCTOR

Dimension: $\phi .195$ [4.95]

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/28/2022	AGANWANI

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UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE IN INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = ± .2	[5.08]	FRACTIONS
.XX = ± .02	[.51]	± 1/32
.XXX = ± .005	[.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

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
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ITEM NO.
DZINN
LMR-195-UF-LC-BULK

SCALE
N/A

THIRD-ANGLE PROJECTION

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