

Low Loss Ultra Flexible LMR-500-UF Indoor Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket, By The Foot



LMR-500-UF-LC

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 1.25 inches
- Phase Velocity 85% VoP
- Max Operating Frequency of 8 GHz
- Ultra Flexible Coax

Applications

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

Description

LMR-500-UF-LC 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-500-UF-LC coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-500-UF-LC is constructed with a 0.500 inch diameter and Black TPE jacket.

LMR-500-UF-LC flexible 50 Ohm coax cable with PVC jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.500 inch diameter and low loss flexible coax cable is built with a double shield count and RF shielding of 90 dB. L-com LMR-500-UF-LC coax is constructed with Foam PE dielectric and a maximum operating temperature of +85 degrees C. Times Microwave LMR-500-UF-LC coax cable specs for this wire properties can be found on its RF coax cable LMR-500-UF-LC datasheet.

LMR-500-UF-LC cable is part of more than one million RF, microwave parts in stock at L-com. This Times Microwave low loss LMR-500-UF-LC 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		85		%
Time Delay		1.2 [3.94]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			2,500	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resistance			0.68	Ohms/1000ft
Outer Conductor DC Resistance			1.27	Ohms/1000ft
Nominal Capacitance		23.9 [78.41]		pF/ft [pF/m]
Nominal Inductance		0.06 [0.2]		uH/ft [uH/m]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input Power (Peak)			22	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	0.8	1.5	1.8	2.6	3.8	dB/100ft
	2.62	4.92	5.91	8.53	12.47	dB/100m
Input Power (CW), Max	2,840	1,610	1,320	910	630	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	5	5.5	5.8	6.6	10.6	dB/100ft
	16.4	18.04	19.03	21.65	34.78	dB/100m
Input Power (CW), Max	480	430	410	360	220	Watts

Mechanical Specifications

Diameter	0.5 in [12.7 mm]
Weight	lbs/ft [0 kg/m]
Min. Bend Radius (Installation)	1.25 in [31.75 mm]
Min. Bend Radius (Repeated)	5 in [127 mm]
Bending Moment	1.25 lbs-ft [1.7 N-m]
Tensile Strength	260 lbs [117.93 kg]
Flat Plate Crush	35 lbs/in [0.63 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.142 in [3.61 mm]
Conductor Type	Stranded	
Dielectric	Foam PE	0.11 in [2.79 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper	
Jacket	TPE, Black	0.5 in [12.7 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-500-UF Indoor Outdoor Rated Coax Cable Double Shielded with Black TPE 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-ultra-flexible-lmr-500-uf-indoor-outdoor-rated-coax-cable-double-shielded-black-tpe-jacket-by-the-foot-lmr-500-uf-lc-p.aspx>

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