

Low Loss Flexible LMR-195-LLPX Outdoor Rated Coax Cable Double Shielded with Orange PVC (FR) Jacket



LMR-195-LLPX-BULK



Times Microwave Systems Connector Specification

Configuration

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

Features

- Indoor highly fire retardant cable
- Highly flexible and bendable
- Low Loss
- RF Shielding is 50 dB, greater than typical single shielded coax (40 dB)

Applications

- Indoor/Outdoor Plenum Feeder runs
- Drop in replacement for RG-142
- UL/NEC/CSA rated CMP/FT6
- Any wireless application

Description

LMR-195-LLPX part number from Pasternack is a low-loss coax cable that is flexible. Pasternack flexible coax RF cable has an impedance of 50 Ohm and a low density PTFE dielectric. Our LMR-195-LLPX coax cable is constructed with a 0.195-inch jacket made of PVC (FR). This coaxial cable has a dielectric withstanding voltage of 1000 Vdc. This orange-colored low-loss coax cable has a nominal capacitance of 25.40 pF/Ft.

The LMR-195-LLPX coax RF cable has a shield count of 2 and RF shielding of 90 dB. Our coax cable from Pasternack has a maximum frequency of 8 GHz. This LMR-195-LLPX low-loss cable has an attenuation of 11.8 dB/100ft at 1 GHz. Additional specifications for this LMR-195-LLPX double-shielded RF coaxial cable are on our downloadable PDF datasheet above. This low-loss RF cable has a one-time minimum bend radius of 0.5 inch and a repeat minimum bend radius of 2 inch.

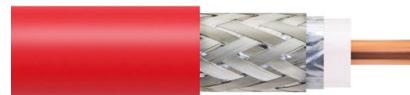
Our LMR-195-LLPX coax cable can operate at temperatures ranging from -40 to 125 degrees C. The LMR-195-LLPX flexible RF cable has a solid copper center conductor. This outdoor-rated coaxial cable features a dual shield of tinned copper braid over the aluminum tape. Our orange-colored coax cable has a typical loss/attenuation of 2.5, 4.4, 5.3, 7.8, 10.9, 14.1, 15.4, 18.3, 28.2 and 35.7 dB/100ft at a frequency of 50 MHz, 150 MHz, 220 MHz, 450 MHz, 900 MHz, 1.5 GHz, 1.8 GHz, 2.5 GHz, 5.8 GHz, and 8 GHz respectively.

Pasternack LMR-195-LLPX low-loss coax cables are part of our RF, microwave, and millimeter wave components. These flexible cables and our other RF parts are available for same-day shipping worldwide. Custom RF cable assemblies using LMR-195-LLPX, or other coax can be built and shipped the same business day as well.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Impedance	50			Ohms
Velocity of Propagation	80			%
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

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Inner Conductor DC Resistance			7.6	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]
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	2.5	4.4	5.3	7.8	10.9	dB/100ft
	8.2	14.44	17.39	25.59	35.76	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2.5	5.8	8	GHz
Attenuation, Typ	14.1	15.4	18.3	28.2	35.7	dB/100ft
	46.26	50.52	60.04	92.52	117.13	dB/100m

Mechanical Specifications

Diameter	0.195 in [4.95 mm]
Weight	0.027 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	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	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	PTFE (LD)	0.113 in [2.87 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper Braid	
Outer Conductor		0 in [0 mm]
Jacket	PVC (FR), Orange	0.195 in [4.95 mm]

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Environmental Specifications

Temperature

Operating Range
Storage Range

-40 to +125 deg C
-40 to +125 deg C

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

Plotted and Other Data

Notes:

Low Loss Flexible LMR-195-LLPX Outdoor Rated Coax Cable Double Shielded with Orange PVC (FR) Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible LMR-195-LLPX Outdoor Rated Coax Cable Double Shielded with Orange PVC \(FR\) Jacket LMR-195-LLPX-BULK](#)

URL: <https://www.pasternack.com/low-loss-flexible-lmr195llpxbulk-pvc-fr-jacket-aluminum-tape-over-tinned-copper-braid-outer-conductor-double-shielded-lmr-195-llpx-bulk-p.aspx>

The information contained within 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. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

LMR-195-LLPX-BULK CAD Drawing

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