

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



LMR-195-LLPX



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 low-loss coax cable from Fairview Microwave is only one of many radio frequency coaxial cable types specifically stocked to be ready for same business day shipment. Fairview Microwave's LMR-195-LLPX coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This flexible 50 Ohm coax cable is constructed with a PVC (FR) jacket of 0.195-inch diameter.

Fairview Microwave's LMR-195-LLPX flexible coax cable with a PVC (FR) jacket is rated for a maximum operating frequency of 8 GHz. This 50 Ohm flexible coax cable is built with a shield count of 2 and RF shielding of 90 dB. Our low-loss RF coaxial cable has a solid conductor of copper. 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.

The LMR-195-LLPX coax cable with low density PTFE dielectric can operate at temperatures ranging from -40 to 125 degrees C. Additional specifications for this LMR-195-LLPX double-shielded RF coaxial cable are on our downloadable PDF datasheet above. Our orange-colored flexible RF cable with 50 Ohm impedance has 11.8 dB/100ft of attenuation at 1 GHz. This outdoor-rated coaxial cable features a dual shield of tinned copper braid over the aluminum tape. Our low-loss cable has a dielectric withstanding voltage of 1000 Vdc. This low-loss RF cable has one time minimum bend radius of 0.5 inch and repeat minimum bend radius of 2 inch.

LMR-195-LLPX low-loss RF cable is part of more than one million RF, microwave, and millimeter wave parts in stock at Fairview Microwave. This LMR-195-LLPX 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 the same business day from our warehouse in the United States, as with the rest of our other RF/microwave and millimeter wave components.

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

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			3,000	Vrms
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
Input Power (CW), Max	540	310	260	180	120	Watts

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
Input Power (CW), Max	100	90	70	50	40	Watts

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]

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Construction Specifications

Description	Material and Plating	Diameter
Jacket	PVC (FR), Orange	0.195 in [4.95 mm]

Environmental Specifications

Temperature

Operating Range	-40 to +125 deg C
Storage Range	-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 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.

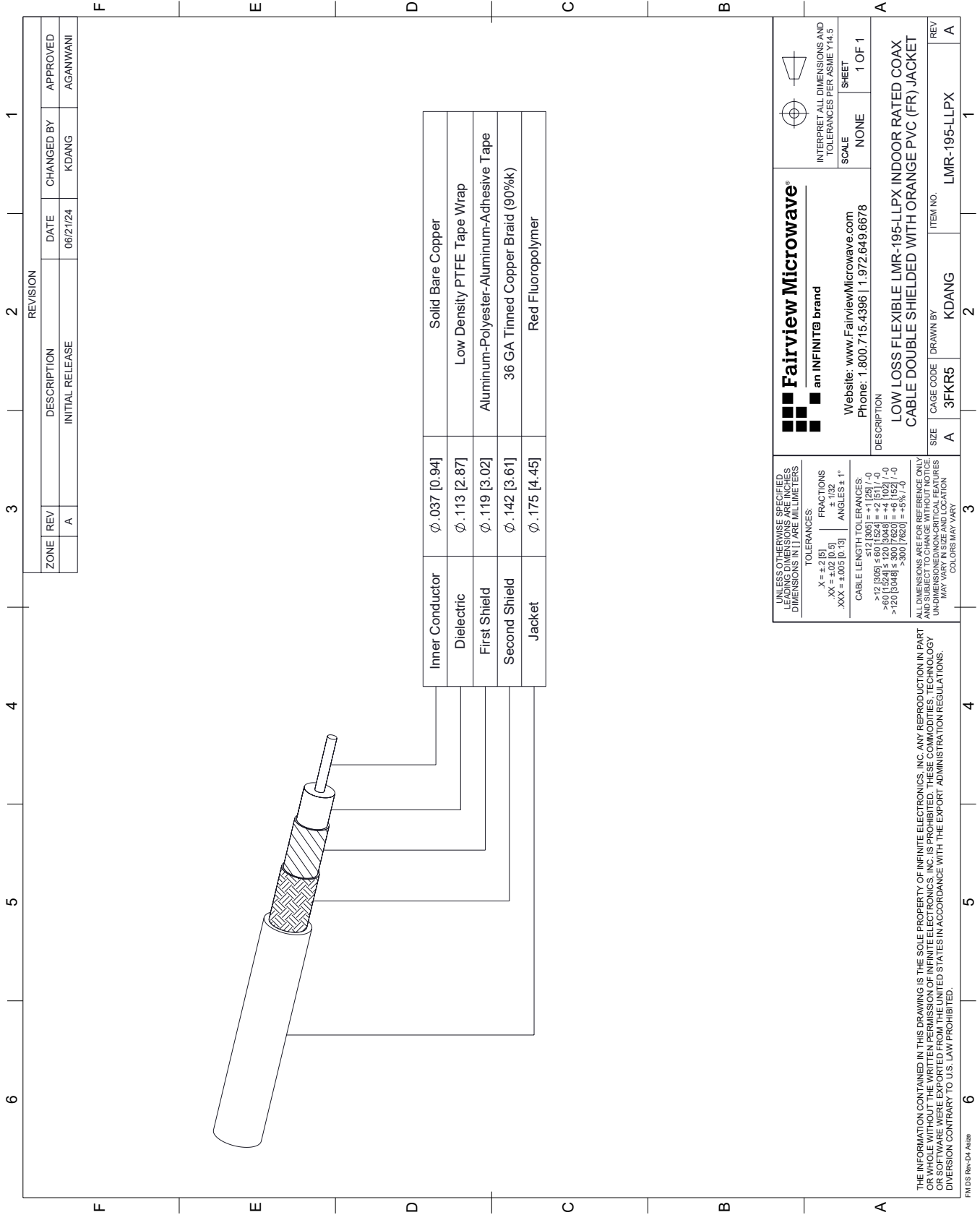
For additional information on this product, please click the following link: [Low Loss Flexible LMR-195-LLPX Outdoor Rated Coax Cable Double Shielded with Orange PVC \(FR\) Jacket LMR-195-LLPX](#)

URL: <https://www.fairviewmicrowave.com/lmr195llpx-low-loss-flexible-coax-cable-pvc-fr-jacket-lmr-195-llpx-p.aspx>

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LMR-195-LLPX CAD Drawing

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



Fairview Microwave
an INFINITB brand

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DESCRIPTION
LOW LOSS FLEXIBLE LMR-195-LLPX INDOOR RATED COAX CABLE DOUBLE SHIELDED WITH ORANGE PVC (FR) JACKET

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

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

TOLERANCES:
 .X = ±.2 [5] FRACTIONS ± 1/32
 .XX = ±.02 [0.5] ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
 ≤ 12 [305] = ±.1 [25] / -0
 ≤ 60 [1524] = ±.2 [5] / -0
 ≤ 10 [254] = ±.3 [7.62] / -0
 ≤ 30 [762] = ±.6 [15.2] / -0
 ≤ 120 [3048] = ±.30 [7.62] / -0
 > 300 [7620] = ±.6% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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FAIRVIEW MICROWAVE

CAGE CODE: 3FKR5 DRAWN BY: KDANG ITEM NO.: LMR-195-LLPX

SIZE: A SHEET: 1