

Flexible LMR-200-UF Indoor/Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket LMR-200-UF



LMR-200-UF

Configuration

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

Features

- Easily Routed
- Low Loss Cable
- RF Shielding > 90dB
- Designed for Outdoor Use
- Watertight

Applications

- Jumper Assemblies
- Short Antenna Feeder Runs
- Wireless Communications

Description

LMR-200-UF part number from Pasternack is a LMR-200-UF coax cable that is flexible. Pasternack LMR-200-UF flexible coax cable is 50 Ohm and has a PE (F) dielectric. Our LMR-200-UF coax is constructed with a 0.195 jacket made of TPE. LMR-200-UF coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 8 GHz. LMR-200-UF coax cable has an attenuation at 1 GHz of 12.18 dB.

Pasternack LMR-200-UF coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-200-UF cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-200-UF or other coax can be built and shipped same day as well.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Velocity of Propagation		83		%
Time Delay		1.22 [4]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			1,000	Vdc
Jacket Spark			3,000	Vrms
Inner Conductor DC Resistance			7.5	Ohms/1000ft
Outer Conductor DC Resistance			4.9	Ohms/1000ft
Nominal Capacitance		24.5 [80.38]		pF/ft [pF/m]
Nominal Inductance		0.061 [0.2]		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

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Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Attenuation, Typ	2.7	4.8	5.8	8.3	11.9	dB/100ft
	8.86	15.75	19.03	27.23	39.04	dB/100m
Input Power (CW), Max	730	420	350	240	170	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	15.5	17.1	18	20.2	31.6	dB/100ft
	50.85	56.1	59.06	66.27	103.67	dB/100m
Input Power (CW), Max	130	120	110	100	60	Watts

Electrical Specification Notes:

Values at 25°C, sea level.

$$\text{Attenuation} = 0.385082 \cdot \sqrt{\text{FMHz}} + 0.000396$$

Mechanical Specifications

Diameter	0.195 in [4.95 mm]
Weight	0.022 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, Strand	0.044 in [1.12 mm]
Conductor Type	Stranded	
Dielectric	PE (F)	0.116 in [2.95 mm]
First Shield	Aluminum Tape	0.121 in [3.07 mm]
Second Shield	Tinned Copper Braid	0.144 in [3.66 mm]
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

Environmental Specification Notes:

Designed for indoor and outdoor use.

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

Plotted and Other Data

Notes:

Flexible LMR-200-UF Indoor/Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket LMR-200-UF 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.

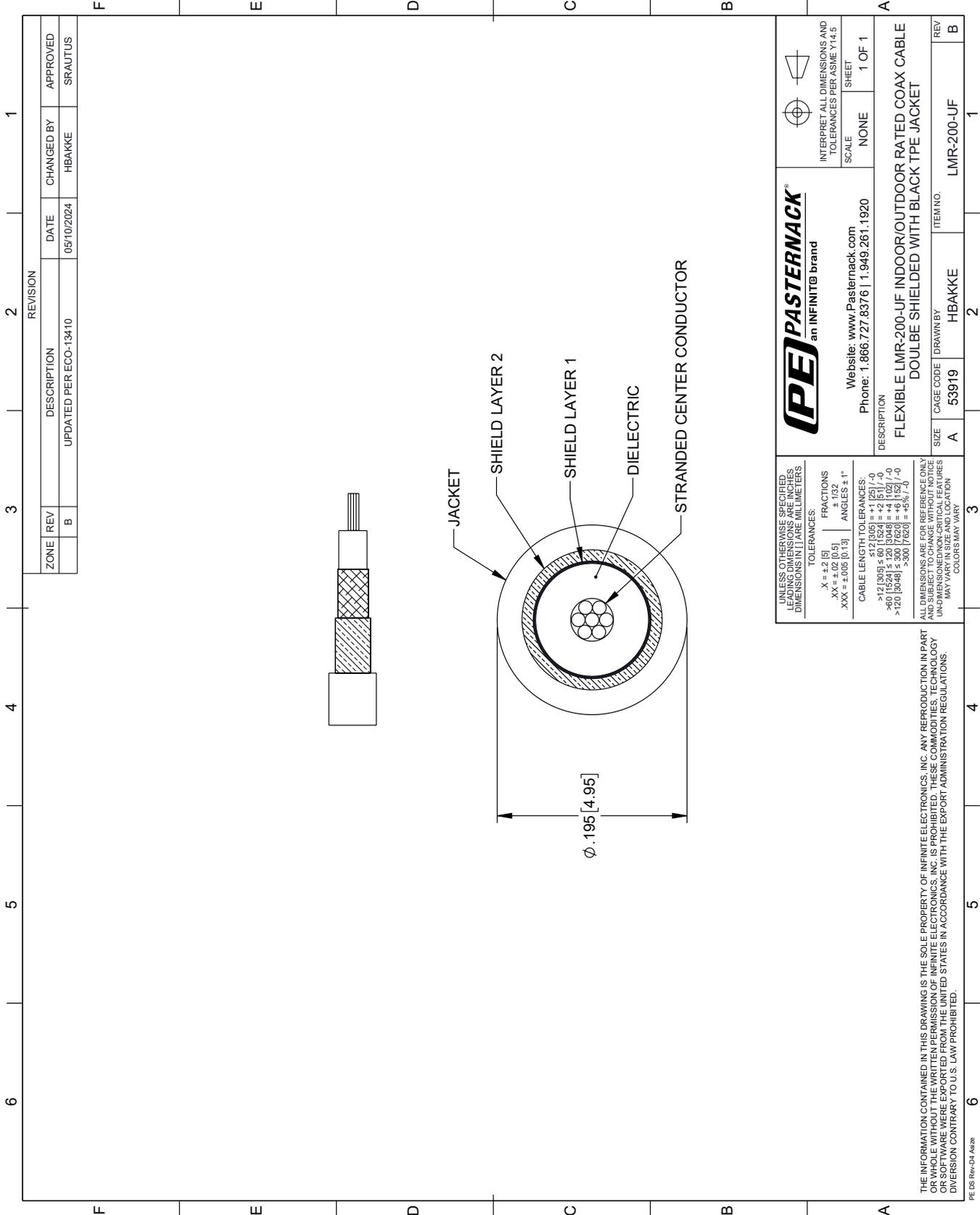
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible LMR-200-UF Indoor/Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket LMR-200-UF LMR-200-UF](#)

URL: <https://www.pasternack.com/50-ohm-flexible-lmr-200-uf-pe-jacket-tinned-copper-over-aluminum-tape-outer-conductor-single-shielded-black-lmr-200-uf-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-200-UF CAD Drawing

Flexible LMR-200-UF Indoor/Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket LMR-200-UF



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION		
	B	UPDATED PER ECO-13410	HBAKKE	SRAUTUS

PE PASTERNAK
an INFINIT® brand

Website: www.Pasternack.com
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: FLEXIBLE LMR-200-UF INDOOR/OUTDOOR RATED COAX CABLE DOUBLE SHIELDED WITH BLACK TPE JACKET

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	HBAKKE	LMR-200-UF

REV B

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS

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

CABLE LENGTH TOLERANCES:
 <12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [10.2] / -0
 >120 [3048] ≤ 300 [7620] = ±.8 [20.3] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS. COLORS MAY VARY.

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