

## Low Loss Flexible LMR-195 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



### LMR-195-BULK

#### Times Microwave Systems Coax Cable Specification

##### Configuration

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

##### Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 80% VoP

##### Applications

- Laboratory Applications
- General Purpose RF Interconnect

##### Description

LMR-195-BULK part number from Pasternack is a LMR-195 coax cable that is flexible. Pasternack LMR-195 flexible coax cable is 50 Ohm and has a PE (F) dielectric. Our LMR-195 coax is constructed with a 0.195 jacket made of PE. LMR-195 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-195 coax cable has an attenuation at 1 GHz of 11.8 dB.

Pasternack LMR-195 coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-195 cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-195 or other coax can be built and shipped same day as well.

#### Electrical Specifications

| Description                          | Minimum | Typical      | Maximum | Units        |
|--------------------------------------|---------|--------------|---------|--------------|
| Frequency Range                      | DC      |              | 8       | GHz          |
| Cutoff Frequency                     |         | 41           |         | 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         |
| 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       |

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#### Performance by Frequency Band

| Description           | F1  | F2    | F3    | F4    | F5    | Units    |
|-----------------------|-----|-------|-------|-------|-------|----------|
| Frequency             | 50  | 150   | 220   | 450   | 900   | MHz      |
| Attenuation, Typ      | 2.5 | 4.4   | 5.4   | 7.8   | 11.1  | dB/100ft |
|                       | 8.2 | 14.44 | 17.72 | 25.59 | 36.42 | dB/100m  |
| Input Power (CW), Max | 680 | 390   | 320   | 220   | 160   | Watts    |

| Description           | F6    | F7    | F8    | F9    | F10  | Units    |
|-----------------------|-------|-------|-------|-------|------|----------|
| Frequency             | 1.5   | 1.8   | 2     | 2.5   | 6    | GHz      |
| Attenuation, Typ      | 14.5  | 16    | 16.9  | 19    | 29.9 | dB/100ft |
|                       | 47.57 | 52.49 | 55.45 | 62.34 | 98.1 | dB/100m  |
| Input Power (CW), Max | 120   | 110   | 100   | 90    | 60   | Watts    |

#### 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                  | 0.2 lbs-ft [0.27 N-m]    |
| Tensile Strength                | 40 lbs [18.14 kg]        |
| Flat Plate Crush                | 15 lbs/in [0.27 kg/mm]   |

#### Construction Specifications

| Description     | Material and Plating | Diameter           |
|-----------------|----------------------|--------------------|
| Inner Conductor | Copper, 1 Strand     | 0.037 in [0.94 mm] |
| Conductor Type  | Solid                |                    |
| Dielectric      | PE (F)               | 0.11 in [2.79 mm]  |
| First Shield    | Aluminum Tape        |                    |
| Second Shield   | Tinned Copper Braid  |                    |
| Jacket          | PE, Black            | 0.195 in [4.95 mm] |

#### Environmental Specifications

|                    |                  |
|--------------------|------------------|
| <b>Temperature</b> |                  |
| Operating Range    | -40 to +85 deg C |
| Storage Range      | -70 to +85 deg C |

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

#### Plotted and Other Data

Notes:

## Low Loss Flexible LMR-195 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



### LMR-195-BULK

Low Loss Flexible LMR-195 Outdoor Rated Coax Cable Double Shielded with Black PE 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 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket LMR-195-BULK](#)

URL: <https://www.pasternack.com/50-ohm-low-loss-flexible-lmr195-pe-jacket-double-shielded-black-lmr-195-bulk-p.aspx>

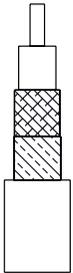
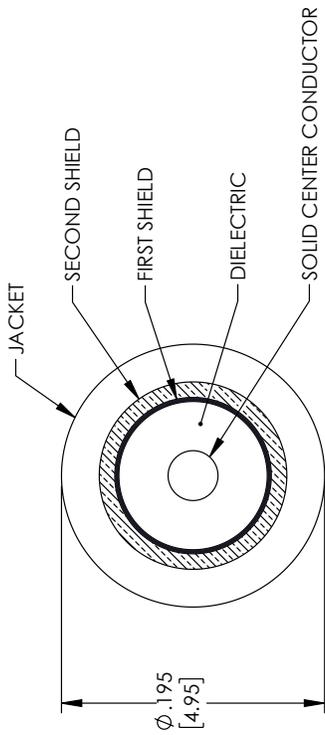
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# LMR-195-BULK CAD Drawing

Low Loss Flexible LMR-195 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket

| REVISIONS |                 | DATE       | APPROVED |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 03/01/2022 | AGANWANI |

|  |  |  |                      |
|--|--|--|----------------------|
| <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p><b>TOLERANCES:</b></p> <p>X = ±.2 [5.08]      FRACTIONS ± 1/32</p> <p>.XX = ±.02 [ .51]      ANGLES ± 1°</p> <p>.XXX = ±.005 [ .13]      CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = ±1.0% / -0</p> <p>12 [305] &lt; L ≤ 60 [1524] = ±2.6% / -0</p> <p>60 [1524] &lt; L ≤ 120 [3048] = ±4.10% / -0</p> <p>120 [3048] &lt; L ≤ 300 [7620] = ±6.15% / -0</p> <p>300 [7620] &lt; L = ±5% / -0</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> | <p><b>PE PASTERNAK</b><br/>an INFINITE brand</p> <p>Pasternack Enterprises, Inc.<br/>P.O. Box 16759, Irvine, CA 92623.<br/>Phone: 1.949.261.1920   1.866.727.8376<br/>Fax: 1.949.261.7451<br/>Website: www.pasternack.com<br/>E-mail: sales@pasternack.com</p> | <p>THIRD-ANGLE PROJECTION</p>  <p>THE INFORMATION AND DIMENSIONS ON THIS DRAWING IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> |                      |
| SIZE A   | CAGE CODE 53919  | DRAWN BY DZINN   | ITEM NO. LMR195-BULK |
|  |  |  | REV A                |

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