



Low Loss Flexible LMR-100A-PVC Indoor/Outdoor Rated  
Coax Cable Double Shielded with Black PVC Jacket

## RF Cables Technical Data Sheet

## LMR-100A-PVC-BULK

### Times Microwave Systems Coax Cable Specification Configuration

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

### Electrical Specifications

| Description                          | Minimum | Typical       | Maximum | Units        |
|--------------------------------------|---------|---------------|---------|--------------|
| Frequency Range                      | DC      |               | 6       | GHz          |
| Cutoff Frequency                     |         | 90            |         | GHz          |
| Impedance                            |         | 50            |         | Ohms         |
| Velocity of Propagation              |         | 66            |         | %            |
| Time Delay                           |         | 1.54 [5.05]   |         | ns/ft [ns/m] |
| Shielding Effectiveness              | 90      |               |         | dB           |
| Dielectric Withstanding Voltage (DC) |         |               | 500     | Vdc          |
| Jacket Spark                         |         |               | 2,000   | Vrms         |
| Inner Conductor DC Resistance        |         |               | 81      | Ohms/1000ft  |
| Outer Conductor DC Resistance        |         |               | 9.5     | Ohms/1000ft  |
| Nominal Capacitance                  |         | 30.8 [101.05] |         | pF/ft [pF/m] |
| Nominal Inductance                   |         | 0.077 [0.25]  |         | uH/ft [uH/m] |
| Input Power (Peak)                   |         |               | 600     | Watts        |

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-100A-PVC Indoor/Outdoor Rated Coax Cable Double Shielded with Black PVC Jacket LMR-100A-PVC-BULK](#)



## Low Loss Flexible LMR-100A-PVC Indoor/Outdoor Rated Coax Cable Double Shielded with Black PVC Jacket

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#### Performance by Frequency Band

| Description           | F1   | F2   | F3    | F4    | F5   | Units    |
|-----------------------|------|------|-------|-------|------|----------|
| Frequency             | 50   | 150  | 220   | 450   | 900  | MHz      |
| Attenuation, Typ      | 3.9  | 8.9  | 10.9  | 15.8  | 22.8 | dB/100ft |
|                       | 12.8 | 29.2 | 35.76 | 51.84 | 74.8 | dB/100m  |
| Input Power (CW), Max | 230  | 100  | 83    | 57    | 39   | Watts    |

| Description           | F6    | F7     | F8     | F9     | F10   | Units    |
|-----------------------|-------|--------|--------|--------|-------|----------|
| Frequency             | 1.5   | 1.8    | 2      | 2.5    | 6     | GHz      |
| Attenuation, Typ      | 30.1  | 33.2   | 35.2   | 39.8   | 64.1  | dB/100ft |
|                       | 98.75 | 108.92 | 115.49 | 130.58 | 210.3 | dB/100m  |
| Input Power (CW), Max | 29    | 27     | 25     | 22     | 13    | Watts    |

#### Mechanical Specifications

|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.11 in [2.79 mm]        |
| Weight                          | 0.009 lbs/ft [0.01 kg/m] |
| Min. Bend Radius (Installation) | 0.25 in [6.35 mm]        |
| Min. Bend Radius (Repeated)     | 1 in [25.4 mm]           |
| Bending Moment                  | 0.1 lbs-ft [0.14 N-m]    |
| Tensile Strength                | 15 lbs [6.8 kg]          |
| Flat Plate Crush                | 10 lbs/in [0.18 kg/mm]   |

#### Construction Specifications

| Description     | Material and Plating        | Diameter           |
|-----------------|-----------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, 1 Strand | 0.018 in [0.46 mm] |
| Conductor Type  | Solid                       |                    |
| Dielectric      | PE                          | 0.06 in [1.52 mm]  |
| First Shield    | Aluminum Tape               | [ ]                |
| Second Shield   | Tinned Copper Braid         | [ ]                |

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**RF Cables**  
**Technical Data Sheet**

**LMR-100A-PVC-BULK**

|        |            |                   |
|--------|------------|-------------------|
| Jacket | PVC, Black | 0.11 in [2.79 mm] |
|--------|------------|-------------------|

**Environmental Specifications**

**Temperature**

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-100A-PVC Indoor/Outdoor Rated Coax Cable Double Shielded with Black PVC 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.

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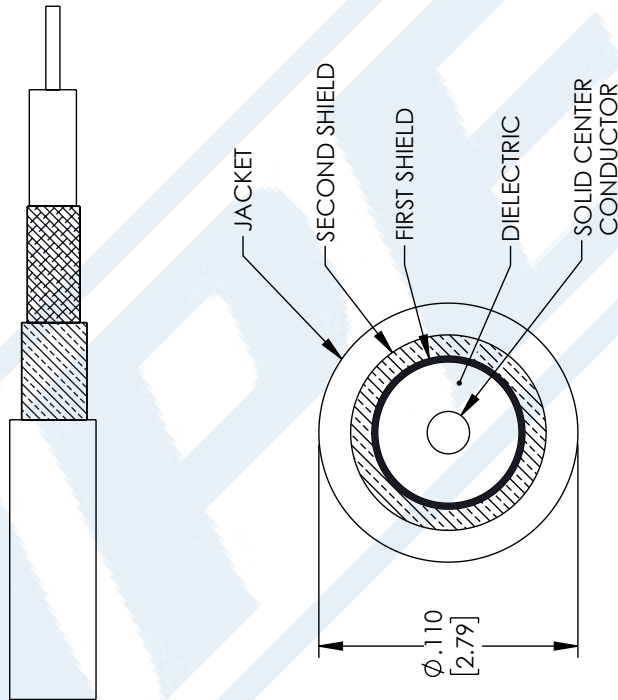
URL: <https://www.pasternack.com/50-ohm-low-loss-flexible-lmr-100apvc-jacket-double-shielded-lmr-100a-pvc-bulk-p.aspx>

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# LMR-100A-PVC-BULK CAD Drawing

Low Loss Flexible LMR-100A-PVC Indoor/Outdoor Rated Coax  
Cable Double Shielded with Black PVC Jacket

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



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                                                                                                                                                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>PE PASTERNAK</b><br>an INFINITI® brand<br>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                                                                                                                                                                                                                                                 |                                             | THIRD-ANGLE PROJECTION<br><br>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.<br>SHEET 1 OF 1<br>SCALE N/A |  |
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS<br>TOLERANCES:<br>X = ±.2 [5.08] FRACTIONS<br>.XX = ±.02 [.51] ±1/32<br>.XXX = ±.005 [.13] ANGLES ± 1°<br>CABLE LENGTH (L) TOLERANCES:<br>L ≤ 12 [305] = +1 [25] / -0<br>12 [305] < L ≤ 60 [1524] = +2 [51] / -0<br>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0<br>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0<br>300 [7620] < L = +5% / -0<br>ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY. | SIZE A<br>CAGE CODE 53919<br>DRAWN BY DZINN | ITEM NO. LMR-100A-PVC-BULK<br>REV A                                                                                                                                  |  |

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