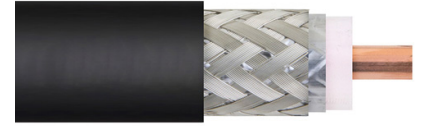


Low Loss Flexible LMR-600-DB Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



LMR-600-DB

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 87% VoP

Applications

- Laboratory Applications
- General Purpose RF Interconnect

Description

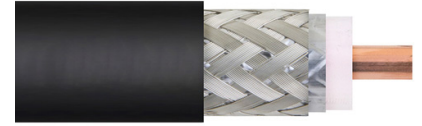
LMR-600-DB part number from Pasternack is a LMR-600-DB coax cable that is flexible. Pasternack LMR-600-DB flexible coax cable is 50 Ohm and has a PE (F) dielectric. Our LMR-600-DB coax is constructed with a 0.59 jacket made of PE. LMR-600-DB coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 8 GHz. LMR-600-DB coax cable has an attenuation at 1 GHz of 2.62 dB.

Pasternack LMR-600-DB coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-600-DB cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-600-DB 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 | | 10.3 | | GHz |
| Impedance | | 50 | | Ohms |
| Velocity of Propagation | | 87 | | % |
| Time Delay | | 1.17 [3.84] | | ns/ft [ns/m] |
| Shielding Effectiveness | 90 | | | dB |
| Dielectric Withstanding Voltage (DC) | | | 4,000 | Vdc |
| Jacket Spark | | | 8,000 | Vrms |
| Inner Conductor DC Resistance | | | 0.53 | Ohms/1000ft |
| Outer Conductor DC Resistance | | | 1.2 | Ohms/1000ft |
| Nominal Capacitance | | 23.4 [76.77] | | pF/ft [pF/m] |
| Nominal Inductance | | 0.058 [0.19] | | uH/ft [uH/m] |
| Input Power (Peak) | | | 40 | kWatts |

Low Loss Flexible LMR-600-DB Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



LMR-600-DB

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|-------|-------|-----|----------|
| Frequency | 50 | 150 | 220 | 450 | 900 | MHz |
| Attenuation, Typ | 0.5 | 1 | 1.2 | 1.7 | 2.5 | dB/100ft |
| | 1.64 | 3.28 | 3.94 | 5.58 | 8.2 | dB/100m |
| Input Power (CW), Max | 4,240 | 2,410 | 1,970 | 1,350 | 930 | Watts |

| Description | F6 | F7 | F8 | F9 | F10 | Units |
|-----------------------|-------|-------|------|-------|-------|----------|
| Frequency | 1.5 | 1.8 | 2 | 2.5 | 5.8 | GHz |
| Attenuation, Typ | 3.3 | 3.7 | 3.9 | 4.4 | 7.3 | dB/100ft |
| | 10.83 | 12.14 | 12.8 | 14.44 | 23.95 | dB/100m |
| Input Power (CW), Max | 700 | 630 | 590 | 520 | 320 | Watts |

Mechanical Specifications

| | |
|---------------------------------|-------------------------|
| Diameter | 0.59 in [14.99 mm] |
| Weight | 0.136 lbs/ft [0.2 kg/m] |
| Min. Bend Radius (Installation) | 1.5 in [38.1 mm] |
| Min. Bend Radius (Repeated) | 6 in [152.4 mm] |
| Bending Moment | 2.75 lbs-ft [3.73 N-m] |
| Tensile Strength | 350 lbs [158.76 kg] |
| Flat Plate Crush | 60 lbs/in [1.07 kg/mm] |

Construction Specifications

| Description | Material and Plating | Diameter |
|-----------------|--------------------------------|---------------------|
| Inner Conductor | Copper Clad Aluminum, 1 Strand | 0.176 in [4.47 mm] |
| Conductor Type | Solid | |
| Dielectric | PE (F) | 0.455 in [11.56 mm] |
| First Shield | Aluminum Tape | |
| Second Shield | Tinned Copper Braid | |
| Jacket | PE, Black | 0.59 in [14.99 mm] |

Environmental Specifications

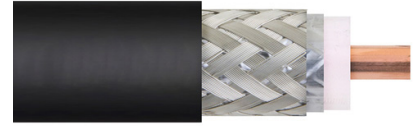
| | |
|--------------------|------------------|
| Temperature | |
| Operating Range | -40 to +85 deg C |
| Storage Range | -70 to +85 deg C |

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

Plotted and Other Data

Notes:

Low Loss Flexible LMR-600-DB Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



LMR-600-DB

Low Loss Flexible LMR-600-DB 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-600-DB Outdoor Rated Coax Cable Double Shielded with Black PE Jacket LMR-600-DB](#)

URL: <https://www.pasternack.com/50-ohm-low-loss-flexible-pe-jacket-double-shielded-lmr-600-db-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.