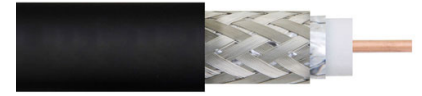


## Times Microwave LMR-240 Low Loss Flexible Coax Cable Black PE Jacket



### LMR-240-BULK



## Times Microwave Systems Connector Specification

### Configuration

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

### Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 84% VoP

### Applications

- Laboratory Applications
- General Purpose RF Interconnect

### Description

LMR-240 coax cable from Fairview is only one of a large number of radio frequency twinaxial and coaxial cable types specifically stocked to be ready for quick shipment. Fairview Microwave LMR-240-BULK coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-240 is constructed with a 0.24 inch diameter and PE jacket.

LMR-240 LMR-240-BULK flexible 50 Ohm coax cable with PE jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.24 inch diameter and low loss flexible coax cable is built with a shield count of 2 and RF shielding of 90 dB.

Fairview Microwave LMR-240 coax is constructed with PE (F) dielectric and a maximum operating temperature of 85 degrees C. Times Microwave LMR-240 coax cable specs for this wire properties can be found on its RF coax cable LMR-240 datasheet PDF specifications above.

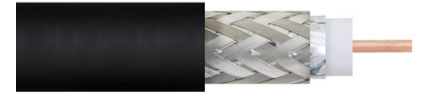
LMR-240 cable is part of more than one million RF, microwave and millimeter wave parts in stock at Fairview. This Times Microwave low loss LMR-240 coax cable is ready to buy and can be shipped worldwide. Fairview also maintains a wide selection of other radio frequency twinaxial and coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave and millimeter wave components.

\* LMR™ is a trademark of Times Microwave Systems.

### Electrical Specifications

| Description                          | Minimum | Typical     | Maximum | Units        |
|--------------------------------------|---------|-------------|---------|--------------|
| Frequency Range                      | DC      |             | 8       | GHz          |
| Cutoff Frequency                     |         | 31          |         | GHz          |
| Impedance                            |         | 50          |         | Ohms         |
| Velocity of Propagation              |         | 84          |         | %            |
| Time Delay                           |         | 1.21 [3.97] |         | ns/ft [ns/m] |
| Shielding Effectiveness              | 90      |             |         | dB           |
| Dielectric Withstanding Voltage (DC) |         |             | 1,500   | Vdc          |
| Jacket Spark                         |         |             | 5,000   | Vrms         |
| Inner Conductor DC Resistance        |         |             | 3.2     | Ohms/1000ft  |

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**LMR-240-BULK**

**Electrical Specifications**

| Description                   | Minimum | Typical     | Maximum | Units        |
|-------------------------------|---------|-------------|---------|--------------|
| Outer Conductor DC Resistance |         |             | 3.89    | Ohms/1000ft  |
| Nominal Capacitance           |         | 24.2 [79.4] |         | pF/ft [pF/m] |
| Nominal Inductance            |         | 0.06 [0.2]  |         | uH/ft [uH/m] |
| Input Power (Peak)            |         |             | 5.6     | kWatts       |

**Performance by Frequency Band**

| Description           | F1    | F2   | F3    | F4    | F5    | Units    |
|-----------------------|-------|------|-------|-------|-------|----------|
| Frequency             | 50    | 150  | 220   | 450   | 900   | MHz      |
| Attenuation, Typ      | 1.7   | 3    | 3.7   | 5.3   | 7.6   | dB/100ft |
|                       | 5.58  | 9.84 | 12.14 | 17.39 | 24.93 | dB/100m  |
| Input Power (CW), Max | 1,150 | 660  | 540   | 380   | 260   | Watts    |

| Description           | F6    | F7    | F8    | F9    | F10   | Units    |
|-----------------------|-------|-------|-------|-------|-------|----------|
| Frequency             | 1.5   | 1.8   | 2     | 2.5   | 6     | GHz      |
| Attenuation, Typ      | 9.9   | 10.9  | 11.5  | 12.9  | 20.4  | dB/100ft |
|                       | 32.48 | 35.76 | 37.73 | 42.32 | 66.93 | dB/100m  |
| Input Power (CW), Max | 200   | 180   | 170   | 150   | 100   | Watts    |

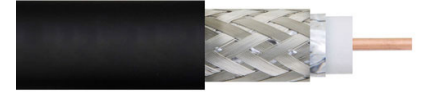
**Mechanical Specifications**

|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.24 in [6.1 mm]         |
| Weight                          | 0.033 lbs/ft [0.05 kg/m] |
| Min. Bend Radius (Installation) | 0.75 in [19.05 mm]       |
| Min. Bend Radius (Repeated)     | 2.5 in [63.5 mm]         |
| Bending Moment                  | 0.25 lbs-ft [0.34 N-m]   |
| Tensile Strength                | 80 lbs [36.29 kg]        |
| Flat Plate Crush                | 20 lbs/in [0.36 kg/mm]   |

**Construction Specifications**

| Description     | Material and Plating | Diameter           |
|-----------------|----------------------|--------------------|
| Inner Conductor | Copper, 1 Strand     | 0.056 in [1.42 mm] |
| Conductor Type  | Solid                |                    |
| Dielectric      | PE (F)               | 0.15 in [3.81 mm]  |
| First Shield    | Aluminum Tape        |                    |
| Second Shield   | Tinned Copper Braid  |                    |
| Jacket          | PE, Black            | 0.24 in [6.1 mm]   |

## Times Microwave LMR-240 Low Loss Flexible Coax Cable Black PE Jacket



### LMR-240-BULK

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#### 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:

Times Microwave LMR-240 Low Loss Flexible Coax Cable Black PE 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: [Times Microwave LMR-240 Low Loss Flexible Coax Cable Black PE Jacket LMR-240-BULK](#)

URL: <https://www.fairviewmicrowave.com/lmr240-low-loss-flexible-coax-cable-pe-jacket-lmr-240-bulk-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

# LMR-240-BULK CAD Drawing

Times Microwave LMR-240 Low Loss Flexible Coax Cable Black PE Jacket

