

## Times Microwave LMR-240-UF Flexible Coax Cable Black TPE Jacket



### LMR-240-UF



## Times Microwave Systems Connector Specification

### Configuration

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

### Features

- Highly Flexible
- Low Loss Cable
- RF Shielding > 90dB
- Designed for Indoor/Outdoor Use

### Applications

- Jumper Assemblies
- Short Antenna Feeder Runs
- Wireless Communications

### Description

LMR-240-UF 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-UF coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-240-UF is constructed with a 0.24 inch diameter and TPE jacket.

LMR-240-UF flexible 50 Ohm coax cable with TPE 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-UF coax is constructed with PE (F) dielectric and a maximum operating temperature of 85 degrees C. Times Microwave LMR-240-UF coax cable specs for this wire properties can be found on its RF coax cable LMR-240-UF datasheet PDF specifications above.

LMR-240-UF 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-UF 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          |
| 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        |         |             | 4.28    | Ohms/1000ft  |

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#### 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      | 2.1  | 3.6   | 4.4   | 6.3   | 9.1   | dB/100ft |
|                       | 6.89 | 11.81 | 14.44 | 20.67 | 29.86 | dB/100m  |
| Input Power (CW), Max | 960  | 550   | 450   | 310   | 220   | Watts    |

| Description           | F6    | F7    | F8    | F9    | F10   | Units    |
|-----------------------|-------|-------|-------|-------|-------|----------|
| Frequency             | 1.5   | 1.8   | 2     | 2.5   | 5.8   | GHz      |
| Attenuation, Typ      | 11.8  | 13    | 13.8  | 15.5  | 24.4  | dB/100ft |
|                       | 38.71 | 42.65 | 45.28 | 50.85 | 80.05 | dB/100m  |
| Input Power (CW), Max | 170   | 150   | 140   | 130   | 80    | Watts    |

Electrical Specification Notes:  
Values at 25°C, sea level.  
Attenuation =  $0.290501 \cdot \sqrt{\text{FMHz}} + 0.000396$

#### Mechanical Specifications

|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.24 in [6.1 mm]         |
| Weight                          | 0.032 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                  | 0.13 lbs-ft [0.18 N-m]   |
| Tensile Strength                | 80 lbs [36.29 kg]        |
| Flat Plate Crush                | 13 lbs/in [0.23 kg/mm]   |

#### Construction Specifications

| Description     | Material and Plating | Diameter           |
|-----------------|----------------------|--------------------|
| Inner Conductor | Copper, Strand       | 0.056 in [1.42 mm] |
| Conductor Type  | Stranded             |                    |
| Dielectric      | PE (F)               | 0.15 in [3.81 mm]  |
| First Shield    | Aluminum Tape        | 0.155 in [3.94 mm] |
| Second Shield   | Tinned Copper Braid  | 0.178 in [4.52 mm] |

## Times Microwave LMR-240-UF Flexible Coax Cable Black TPE Jacket



### LMR-240-UF

#### Construction Specifications

| Description | Material and Plating | Diameter         |
|-------------|----------------------|------------------|
| Jacket      | TPE, Black           | 0.24 in [6.1 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.

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

#### Plotted and Other Data

Notes:

Times Microwave LMR-240-UF Flexible Coax Cable Black TPE 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-UF Flexible Coax Cable Black TPE Jacket LMR-240-UF](#)

URL: <https://www.fairviewmicrowave.com/lmr240uf-flexible-coax-cable-pe-jacket-lmr-240-uf-p.aspx>

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**LMR-240-UF CAD Drawing**  
 Times Microwave LMR-240-UF Flexible Coax Cable Black TPE Jacket

