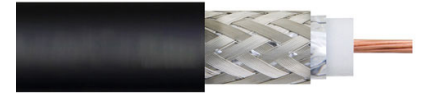


Times Microwave LMR-200-UF Flexible Coax
Cable Black TPE Jacket LMR-200-UF



LMR-200-UF-BULK



Times Microwave Systems Connector Specification

Configuration

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

Features

- Easily Routed
- Low Loss Cable
- RF Shielding > 90dB
- Designed for Outdoor Use
- Watertight

Applications

- Jumper Assemblies
- Short Antenna Feeder Runs
- Wireless Communications

Description

LMR-200-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-200-UF-BULK coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-200-UF is constructed with a 0.195 inch diameter and TPE jacket.

LMR-200-UF LMR-200-UF-BULK flexible 50 Ohm coax cable with TPE jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.195 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-200-UF coax is constructed with PE (F) dielectric and a maximum operating temperature of 85 degrees C. Times Microwave LMR-200-UF coax cable specs for this wire properties can be found on its RF coax cable LMR-200-UF datasheet PDF specifications above.

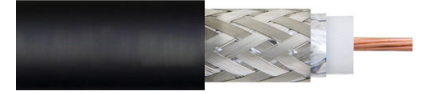
LMR-200-UF cable is part of more than one million RF, microwave and millimeter wave parts in stock at Fairview. This Times Microwave low loss LMR-200-UF coax cable is ready to buy and can be shipped worldwide. Fairview also maintains a wide selection of other radio frequency twinaxial and coaxial cable 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 | | 83 | | % |
| Time Delay | | 1.22 [4] | | ns/ft [ns/m] |
| Shielding Effectiveness | 90 | | | dB |
| Dielectric Withstanding Voltage (DC) | | | 1,000 | Vdc |
| Jacket Spark | | | 3,000 | Vrms |

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LMR-200-UF-BULK

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|--------------|
| Inner Conductor DC Resistance | | | 7.5 | Ohms/1000ft |
| Outer Conductor DC Resistance | | | 4.9 | Ohms/1000ft |
| Nominal Capacitance | | 24.5 [80.38] | | pF/ft [pF/m] |
| Nominal Inductance | | 0.061 [0.2] | | uH/ft [uH/m] |
| Input Power (Peak) | | | 2.5 | kWatts |

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-------|-------|-------|-------|----------|
| Frequency | 50 | 150 | 220 | 450 | 900 | MHz |
| Attenuation, Typ | 2.7 | 4.8 | 5.8 | 8.3 | 11.9 | dB/100ft |
| | 8.86 | 15.75 | 19.03 | 27.23 | 39.04 | |
| Input Power (CW), Max | 730 | 420 | 350 | 240 | 170 | Watts |

| Description | F6 | F7 | F8 | F9 | F10 | Units |
|-----------------------|-------|------|-------|-------|--------|----------|
| Frequency | 1.5 | 1.8 | 2 | 2.5 | 6 | GHz |
| Attenuation, Typ | 15.5 | 17.1 | 18 | 20.2 | 31.6 | dB/100ft |
| | 50.85 | 56.1 | 59.06 | 66.27 | 103.67 | |
| Input Power (CW), Max | 130 | 120 | 110 | 100 | 60 | Watts |

Electrical Specification Notes:
Values at 25°C, sea level.
Attenuation = 0.385082*sqrt(FMHz) + 0.000396

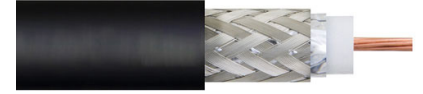
Mechanical Specifications

| | |
|---------------------------------|--------------------------|
| 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 | 0.1 lbs-ft [0.14 N-m] |
| Tensile Strength | 40 lbs [18.14 kg] |
| Flat Plate Crush | 10 lbs/in [0.18 kg/mm] |

Construction Specifications

| Description | Material and Plating | Diameter |
|-----------------|----------------------|--------------------|
| Inner Conductor | Copper, Strand | 0.044 in [1.12 mm] |
| Conductor Type | Stranded | |
| Dielectric | PE (F) | 0.116 in [2.95 mm] |
| First Shield | Aluminum Tape | 0.121 in [3.07 mm] |

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LMR-200-UF-BULK

Construction Specifications

| Description | Material and Plating | Diameter |
|---------------|----------------------|--------------------|
| Second Shield | Tinned Copper Braid | 0.144 in [3.66 mm] |
| Jacket | TPE, Black | 0.195 in [4.95 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-200-UF Flexible Coax Cable Black TPE Jacket LMR-200-UF 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-200-UF Flexible Coax Cable Black TPE Jacket LMR-200-UF LMR-200-UF-BULK](#)

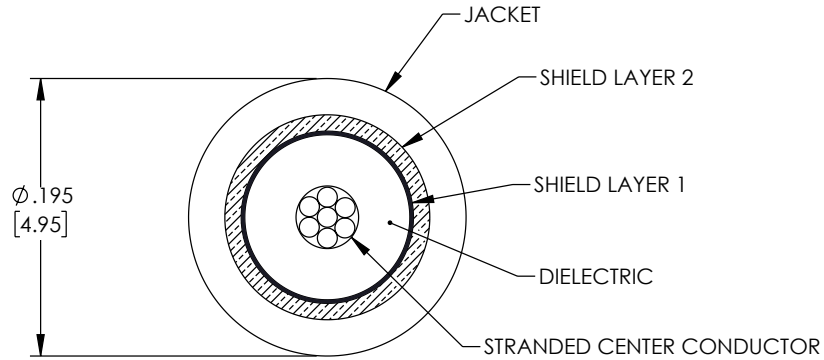
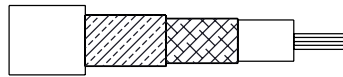
URL: <https://www.fairviewmicrowave.com/lmr200uf-flexible-coax-cable-pe-jacket-lmr-200-uf-bulk-p.aspx>

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-200-UF-BULK CAD Drawing

Times Microwave LMR-200-UF Flexible Coax Cable Black TPE Jacket LMR-200-UF

| REVISIONS | | | |
|-----------|-----------------|------------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 02/13/2023 | AGANWANI |



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TITLE

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

| TOLERANCES: | | CABLE LENGTH (L) TOLERANCES: | |
|--------------------|------------------|---|--|
| .X = ±.2 [5.08] | FRACTIONS ± 1/32 | L ≤ 12 [305] = +1 [25] / -0 | |
| .XX = ±.02 [.51] | | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 | |
| .XXX = ±.005 [.13] | ANGLES ± 1° | 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 | |
| | | 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 | |
| | | 300 [7620] < L = +5%L / -0 | |

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE

N/A

| | | | | |
|-----------|--------------------|------------------------|-----------------------------|----------|
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY AKRESOWSKI | ITEM NO. LMR-200-UF-BULK | REV A |
|-----------|--------------------|------------------------|-----------------------------|----------|

T-Rev.D