

## UHF Male Connector Crimp/Non-Solder Contact Attachment for LMR-600, LMR-600-DB Cable

### Times Microwave Systems Connector Specification

UHF Male Standard Connector Crimp/Non-Solder Contact Attachment for LMR-600, LMR-600-DB and PE-C600 Cable, part number EZ-600-UM-X, from Times Microwave offered by Fairview Microwave is in-stock and ships same day. This UHF male connector operates up to a maximum frequency of 3 GHz.

Times Microwave's UHF male connector EZ-600-UM-X datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

### Electrical Specifications

| Description           | Min    | Typ | Max   | Units |
|-----------------------|--------|-----|-------|-------|
| Frequency Range       | DC     |     | 3     | GHz   |
| Insertion Loss        |        |     | 0.17  | dB    |
| DWV (AC)              |        |     | 2,000 | Vrms  |
| Insulation Resistance | 10,000 |     |       | MOhms |

### Performance by Frequency

| Description | F1         | F2 | F3 | F4 | F5 | Units |
|-------------|------------|----|----|----|----|-------|
| Freq. Range | DC to 2.45 |    |    |    |    | GHz   |
| VSWR, Max   | 1.3:1      |    |    |    |    |       |

### Mechanical Specifications

#### Size

|            |                      |
|------------|----------------------|
| Length     | 2.54 in [64.52 mm]   |
| Width/Dia. | 0.689 in [17.50 mm]  |
| Height     | 0.689 in [17.5 mm]   |
| Weight     | 0.01188 lbs [5.39 g] |

### Material Specifications

| Description  | Material        | Plating              |
|--------------|-----------------|----------------------|
| Contact      | Phosphor Bronze | Silver<br>200µin     |
| Insulation   | PTFE            |                      |
| Body         | Brass           | Tin/Nickel<br>100µin |
| Coupling Nut | Brass           | Tin/Nickel<br>100µin |



### Configuration:

- UHF Male Connector
- 50 Ohms
- Straight Body Geometry
- LMR-600, LMR-600-DB, PE-C600 Interface Type
- Crimp/Non-Solder Contact Attachment

### Features:

- Operating Frequency of 3 GHz Max.
- Silver Plated Phosphor Bronze Contact
- 200µin contact plating

### Applications:

- General Purpose Test
- Custom Cable Assemblies

Fairview Microwave  
301 Leora Ln., Suite 100  
Lewisville, TX 75056  
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[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

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 Crimp Sleeve

Copper

 Tin/Nickel  
 100µin
 

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## Environmental Specifications

### Temperature

Operating Range

-40 to +125 deg C

Shock

MIL-STD-202, Meth. 213, Cond. G

Vibration

MIL-STD-202, Meth. 204, Cond. B

Thermal Shock

MIL-STD-202, Meth. 107, Cond. B

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

## Plotted and Other Data

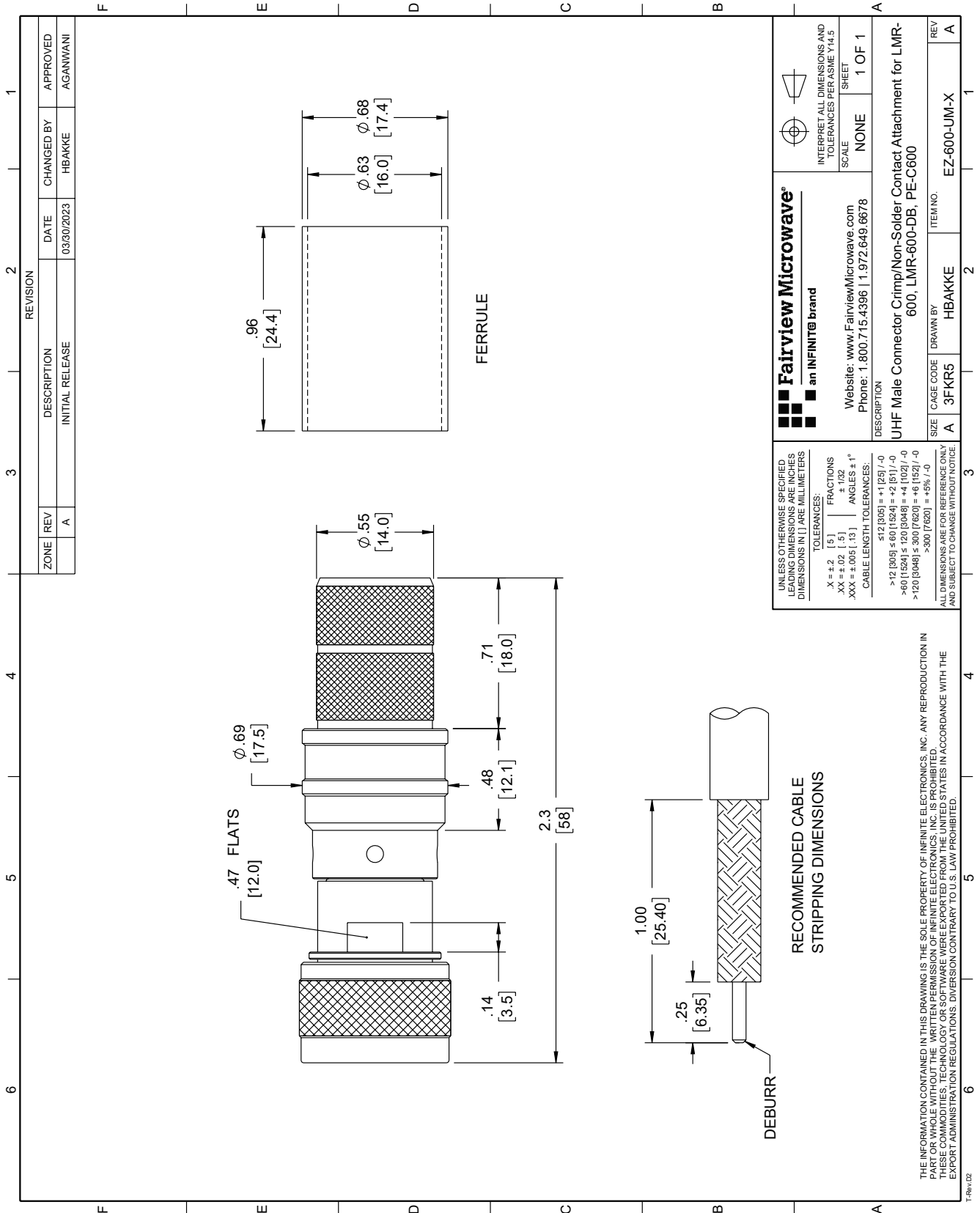
Notes:

UHF Male Connector Crimp/Non-Solder Contact Attachment for LMR-600, LMR-600-DB Cable 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: [UHF Male Connector Crimp/Non-Solder Contact Attachment for LMR-600, LMR-600-DB Cable EZ-600-UM-X](#)

URL: <https://www.fairviewmicrowave.com/uhf-male-lmr-600-connector-ez-600-um-x-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.



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Vibration

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Thermal Shock

MIL-STD-202, Meth. 107, Cond. B

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

## Plotted and Other Data

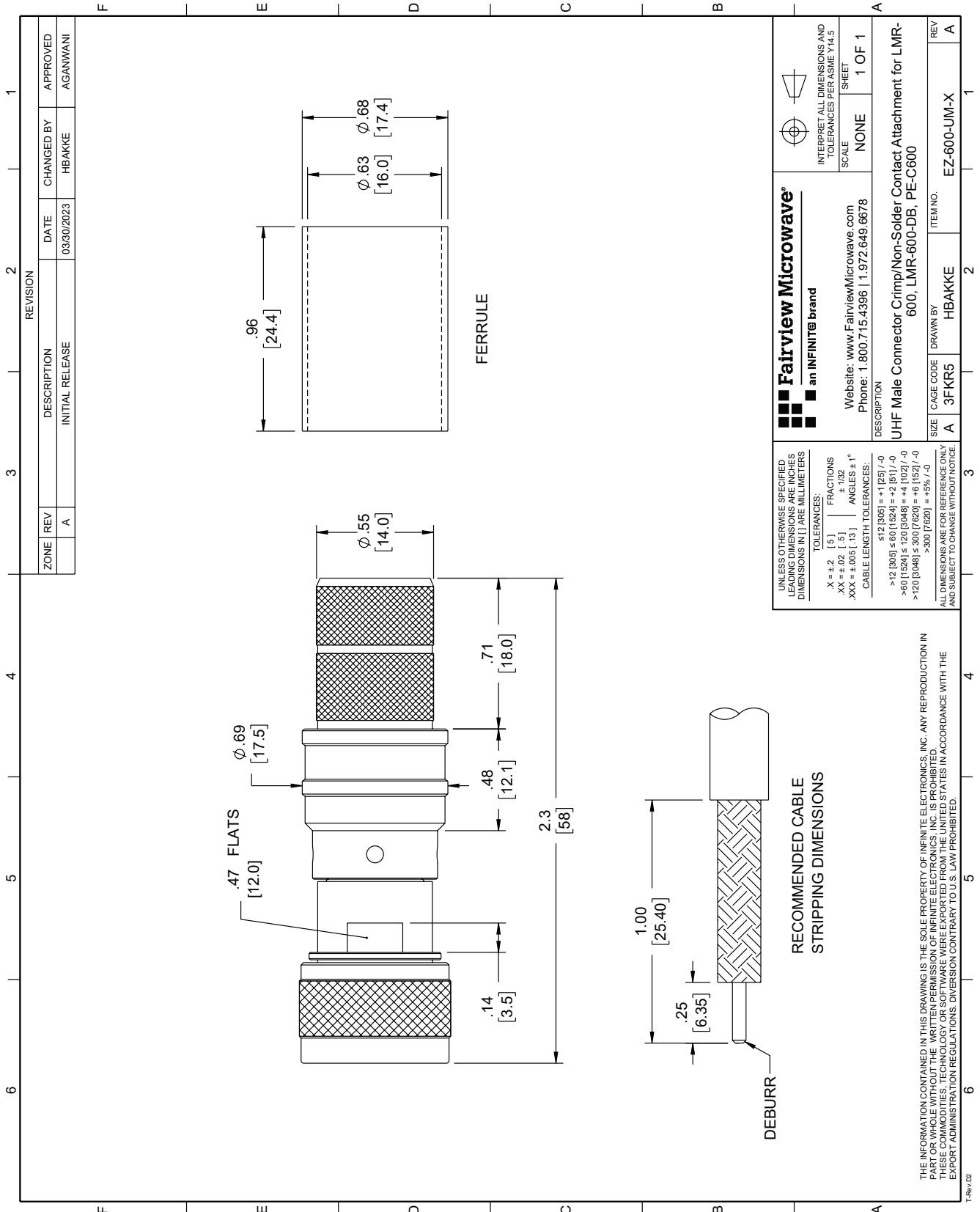
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For additional information on this product, please click the following link: [UHF Male Connector Crimp/Non-Solder Contact Attachment for LMR-600, LMR-600-DB Cable EZ-600-UM-X](#)

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## Times Microwave LMR-600-FR Low Loss Flexible Coax Cable Black PE Jacket Fire Rated

### Times Microwave Systems Coax Cable Specification

LMR-600-FR Fire Rated version of the 600 series Low Loss Coax from Times Microwave is part of the large product offering by Fairview Microwave of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Fairview Microwave LMR-600-FR coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss and CMR riser rated 50 Ohm coax cable LMR-600-FR is constructed with a 0.590 inch diameter and Black PE jacket.

LMR-600-FR flexible 50 Ohm coax cable with PE jacket is rated for a 5.8 GHz maximum operating frequency. This 50 Ohm 0.590 inch diameter and low loss fire rated coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-600-FR PE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Fairview Microwave's offering of LMR-600-FR coax cable provides specs for this wire on its RF coax cable LMR-600-FR datasheet.

LMR-600-FR cable is part of more than one million RF, microwave parts in stock at Fairview Microwave. This Times Microwave low loss flexible LMR-600-FR coax cable is ready to buy and can be shipped worldwide. Fairview Microwave also maintains a wide selection of other radio frequency coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave components.

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

### Electrical Specifications

| Description                | Min | Typ         | Max   | Units        |
|----------------------------|-----|-------------|-------|--------------|
| Frequency Range            | DC  |             | 5.8   | GHz          |
| Impedance                  |     | 50          |       | Ohms         |
| Velocity of Propagation    |     | 85          |       | %            |
| Time Delay                 |     | 1.17 [3.84] |       | ns/ft [ns/m] |
| Shielding Effectiveness    | 90  |             |       | dB           |
| DWV (DC)                   |     |             | 4,000 | Vdc          |
| Jacket Spark               |     |             | 8,000 | Vrms         |
| Inner Conductor DC Resist. |     |             | 0.53  | Ohms/1000ft  |
| Outer Conductor DC Resist. |     |             | 1.2   | Ohms/1000ft  |
| Nominal Capacitance        |     | 23.4        |       | pF/ft        |
|                            |     | [76.77]     |       | [pF/m]       |
| Nominal Inductance         |     | 0.058       |       | uH/ft        |
|                            |     | [0.19]      |       | [uH/m]       |
| Input Power (Peak)         |     |             | 40    | kWatts       |

### Performance by Frequency Band

| Description      | F1          | F2        | F3          | F4          | F5         | Units               |
|------------------|-------------|-----------|-------------|-------------|------------|---------------------|
| Frequency        | 50          | 150       | 220         | 450         | 900        | MHz                 |
| Attenuation, Typ | 0.5<br>1.64 | 1<br>3.28 | 1.2<br>3.94 | 1.7<br>5.58 | 2.5<br>8.2 | dB/100ft<br>dB/100m |



### Configuration:

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

### Features:

- Max Operating Frequency of 5.8 GHz
- Phase Velocity 85% VoP
- Low Smoke, Zero Halogen PE Jacket
- CMR Riser Rated Coax
- Max Operating Temperature +85°C
- Min Install Bend Radius of 1.5 inches

### Applications:

- RF Test Systems
- In-Building Riser Runs
- Laboratory Applications
- Antenna Installs
- General Purpose RF Interconnect

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Power In (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  |
| Power In (CW), Max | 700   | 630   | 590  | 520   | 320   | Watts    |

### Mechanical Specifications

|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.59 in [14.99 mm]       |
| Weight                          | 0.131 lbs/ft [0.19 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, 1 Strands    | 0.176 in [4.47 mm]  |
| Conductor Type  | Solid                |                     |
| Dielectric      | Foam PE              | 0.455 in [11.56 mm] |
| First Shield    | Aluminum Tape        | [ ]                 |
| Second Shield   | Tinned Copper        | [ ]                 |
| Jacket          | PE, Black            | 0.59 in [14.99 mm]  |

### Environmental Specifications

|                    |                  |
|--------------------|------------------|
| <b>Temperature</b> |                  |
| Operating Range    | -40 to +85 deg C |
| Installation 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

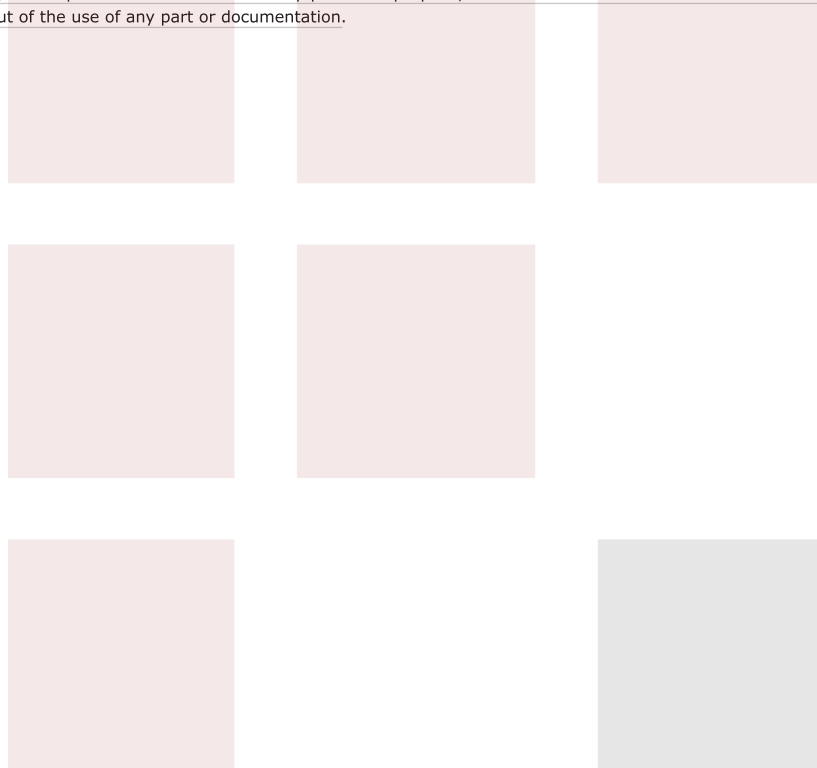
Notes:

Times Microwave LMR-600-FR Low Loss Flexible Coax Cable Black PE Jacket Fire Rated from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

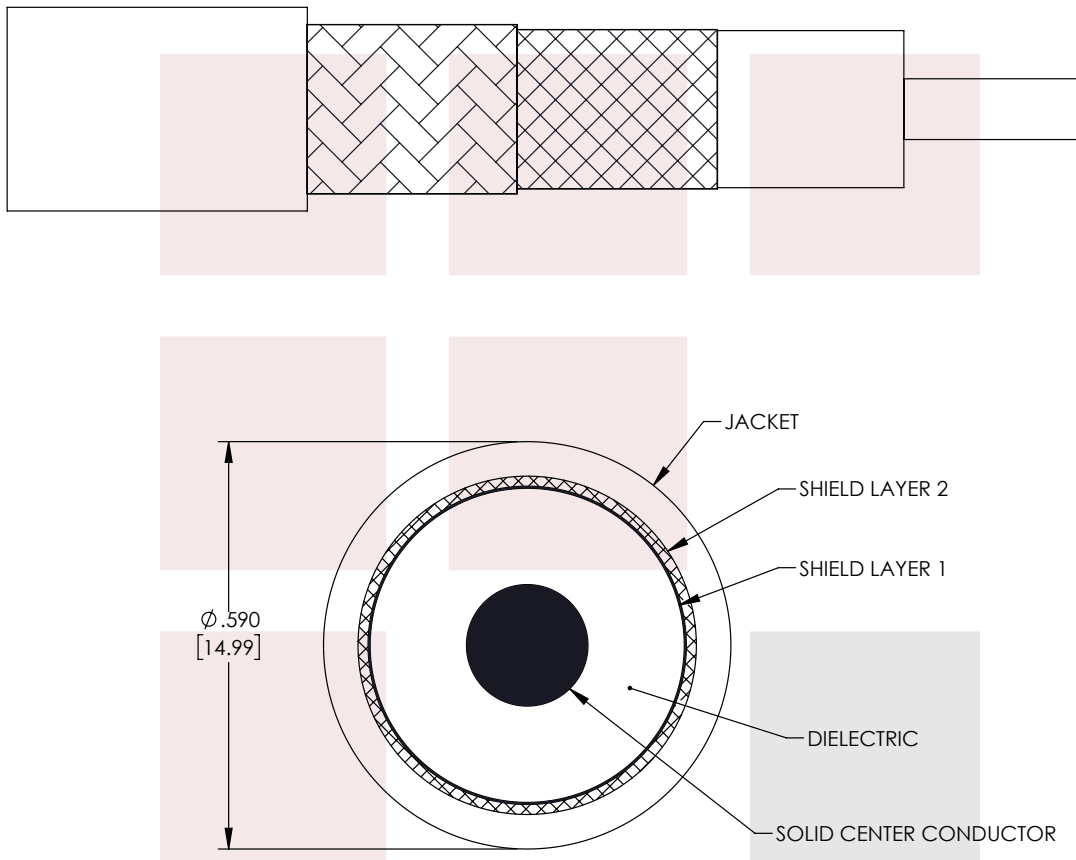
Click the following link to obtain additional part information: [Times Microwave LMR-600-FR Low Loss Flexible Coax Cable Black PE Jacket Fire Rated LMR-600-FR](#)

URL: <https://www.fairviewmicrowave.com/lmr-600-fr-low-loss-flexible-coax-cable-pe-jacket-lmr-600-fr-p.aspx>

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| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 06-04-2021 | SELLIS   |



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TITLE

Times Microwave LMR-600-FR Low Loss Flexible Coax  
Cable Black PE Jacket Fire Rated

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

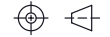
TOLERANCES:

.X = ±.2 [5.08] FRACTIONS  
.XX = ±.02 [.51] ± 1/32  
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0  
12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
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

SCALE N/A

| SIZE | CAGE CODE | DRAWN BY   | ITEM NO.   | REV |
|------|-----------|------------|------------|-----|
| A    | 3FKR5     | MVEERAPPAN | LMR-600-FR | A   |

T-Rev.D