

**Broadband 75 Ohm F Male to 75 Ohm F Male Cable**  
**75 Ohm FM-SF200LL75 Coax**

The 75 ohm type F male to 75 ohm type F male cable using 75 ohm FM-SF200LL75 coax, part number FMTC603, from Fairview Microwave is in-stock and ships same day. This Fairview type F to type F cable assembly has a male to male gender configuration with 75 ohm flexible FM-SF200LL75 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMTC603 type F male to type F male cable assembly operates to 3 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness. Fairview Microwave's test cables are constructed using our FM-SF200LL75 coax which is optimized for use up to 3 GHz with 75 Ohm F-Type connectors. This flexible coaxial cable has excellent low insertion loss along with a velocity propagation of 70%. The highly flexible cable also reduces the strain applied to your test components, making it easier to route the cables in your test setup or equipment rack. These 3 GHz test cables are available with Male and Female Type-F connectors and are available standard lengths from stock for same day shipment.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

**Electrical Specifications**

| Description                          | Min | Typ | Max          | Units |
|--------------------------------------|-----|-----|--------------|-------|
| Frequency Range                      | DC  |     | 3            | GHz   |
| VSWR                                 |     |     | 1.35:1       |       |
| Insertion Loss                       |     |     | 1.23<br>4.04 |       |
| Velocity of Propagation              |     | 70  |              | %     |
| Dielectric Withstanding Voltage (AC) |     |     | 500          | Vrms  |

**Performance by Frequency**

| Description           | F1           | F2          | F3           | F4 | F5 | Units         |
|-----------------------|--------------|-------------|--------------|----|----|---------------|
| Frequency             | 1            | 2           | 3            |    |    | GHz           |
| Insertion Loss (Max.) | 1.16<br>3.81 | 1.19<br>3.9 | 1.23<br>4.04 |    |    | dB/ft<br>dB/m |

Electrical Specification Notes:  
 Values at 25°C, sea level.

**Mechanical Specifications**

**Cable Assembly**  
 Length\*

0 in [0 mm]

**Cable**  
 Cable Type

FM-SF200LL75


**Configuration:**

- F Male
- F Male
- FM-SF200LL75

**Features:**

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket
- Precision 75 Ohm Type F connectors
- VSWR of 1.35:1 to 3 GHz
- 70% velocity of propagation (VoP)
- 100% VSWR tested and Hi-Pot tested to 500 volts
- Very flexible and durable
- Enhanced strain relief, heavy duty booting
- In-stock and same day shipment
- Precision Type F center conductor diameter 0.029"
- Broadband performance

**Applications:**

- General Purpose
- Laboratory Use
- Production testing
- RF development testing
- General lab testing
- Test rack applications

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|                                      |                            |
|--------------------------------------|----------------------------|
| Impedance                            | 75 Ohms                    |
| Inner Conductor Type                 | Solid                      |
| Inner Conductor Material and Plating | Copper, Bare               |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 2                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Shield Layer 2                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP                        |
| Jacket Diameter                      | 0.195 in [4.95 mm]         |
| One Time Minimum Bend Radius         | 1 in [25.4 mm]             |

**Connectors**

| Description                     | Connector 1                | Connector 2                |
|---------------------------------|----------------------------|----------------------------|
| Type                            | F Male                     | F Male                     |
| Impedance                       | 75 Ohms                    | 75 Ohms                    |
| Contact Material & Plating      | Beryllium Copper, Gold     | Beryllium Copper, Gold     |
| Dielectric Type                 | PTFE                       | PTFE                       |
| Body Material & Plating         | Passivated Stainless Steel | Passivated Stainless Steel |
| Coupling Nut Material & Plating | Passivated Stainless Steel | Passivated Stainless Steel |

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

**Plotted and Other Data**

- Notes:
- Values at 25°C, sea level.

**How to Order**

Part Number Configuration:

**FMTC603 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

Example: FMTC603-12 = 12 inches long cable  
FMTC603-100cm = 100 cm long cable

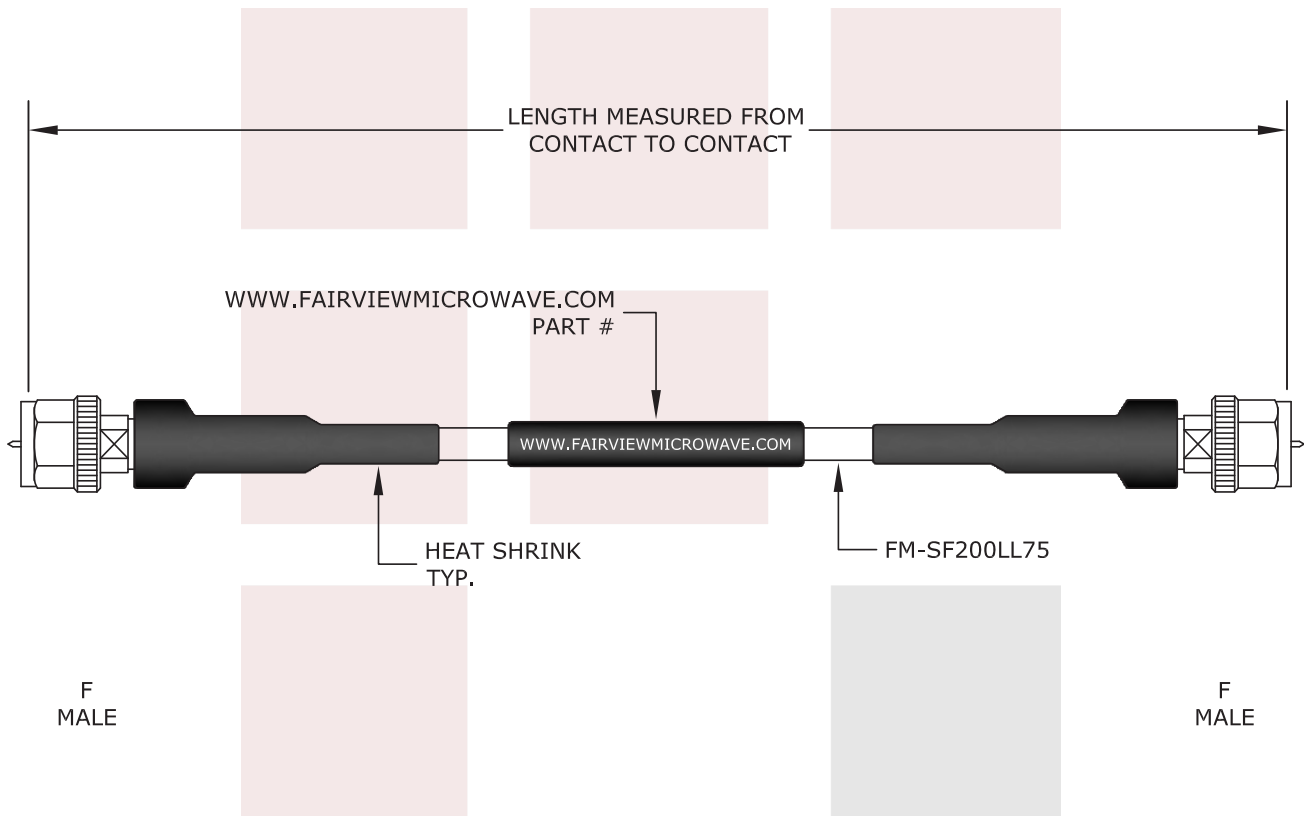
Broadband 75 Ohm F Male to 75 Ohm F Male Cable 75 Ohm FM-SF200LL75 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Broadband 75 Ohm F Male to 75 Ohm F Male Cable 75 Ohm FM-SF200LL75 Coax FMTC603](#)

URL: <https://www.fairviewmicrowave.com/broadband-f-male-f-male-cable-fm-sf200ll75-coax-fmtc603-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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|--|--------|---|-------|--------------------|-------------|
| <b>FAIRVIEW MICROWAVE INC.</b><br>ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM      |        | NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. |       |                    |             |
| TITLE<br>Broadband 75 Ohm F Male to 75 Ohm F Male Cable 75 Ohm FM-SF200LL75 Coax |        | DWG NO<br>FMTC603   |       | CAGE CODE<br>3FKR5 |             |
| CAD FILE   | 022916 | SHEET   | SCALE | N/A                | SIZE A 2233 |