

## Low Loss SMA Male to SMA Male Cable LMR-195 Coax in 12 Inch with LF Solder

The SMA male to SMA male 12 inch cable using LMR-195 coax, part number FMC0202195LF-12, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-195 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC0202195LF-12 SMA male to SMA male cable assembly operates to 6 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB.

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  |              | 6      | GHz                              |
| VSWR                          |     |              | 1.35:1 |                                  |
| Velocity of Propagation       |     | 83           |        | %                                |
| RF Shielding                  | 90  |              |        | dB                               |
| Capacitance                   |     | 24.5 [80.38] |        | pF/ft [pF/m]                     |
| Inductance                    |     | 0.061 [0.2]  |        | uH/ft [uH/m]                     |
| DC Resistance Inner Conductor |     | 5.36 [17.59] |        | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |     | 5.9 [19.36]  |        | $\Omega$ /1000ft [ $\Omega$ /Km] |

### Mechanical Specifications

#### Cable Assembly

|         |                    |
|---------|--------------------|
| Length* | 12 in [304.8 mm]   |
| Weight  | 0.05 lbs [22.68 g] |

#### Cable

|                                      |                    |
|--------------------------------------|--------------------|
| Cable Type                           | LMR-195            |
| Impedance                            | 50 Ohms            |
| Inner Conductor Type                 | Solid              |
| Inner Conductor Material and Plating | Copper             |
| Dielectric Type                      | PE (F)             |
| Number of Shields                    | 2                  |
| Shield Layer 1                       | Tinned Copper      |
| Shield Layer 2                       | Aluminum Tape      |
| Jacket Material                      | PE, Black          |
| Jacket Diameter                      | 0.195 in [4.95 mm] |

|                              |                  |
|------------------------------|------------------|
| Repeated Minimum Bend Radius | 12 in [304.8 mm] |
|------------------------------|------------------|



### Configuration:

- SMA Male
- SMA Male
- LMR-195

### Features:

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- PE Jacket

### Applications:

- General Purpose
- Laboratory Use

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

## Connectors

| Description                | Connector 1      | Connector 2      |
|----------------------------|------------------|------------------|
| Type                       | SMA Male         | SMA Male         |
| Configuration              | Straight         | Straight         |
| Impedance                  | 50 Ohms          | 50 Ohms          |
| Contact Material & Plating | Brass, Gold      | Brass, Gold      |
| Contact Plating Spec.      | 50μ in. minimum  | 50μ in. minimum  |
| Dielectric Type            | PTFE             | PTFE             |
| Body Material & Plating    | Brass, Gold      | Brass, Gold      |
| Body Plating Spec.         | 3μ in. minimum   | 3μ in. minimum   |
| Hex Size                   | 5/16 inch        | 5/16 inch        |
| Torque                     | 4 in-lbs 0.45 Nm | 4 in-lbs 0.45 Nm |

## Environmental Specifications

### Temperature

Operating Range -40 to +85 deg C

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration: **FMC0202195LF - xx uu**

cm = Centimeters

<blank> = Inches

Length

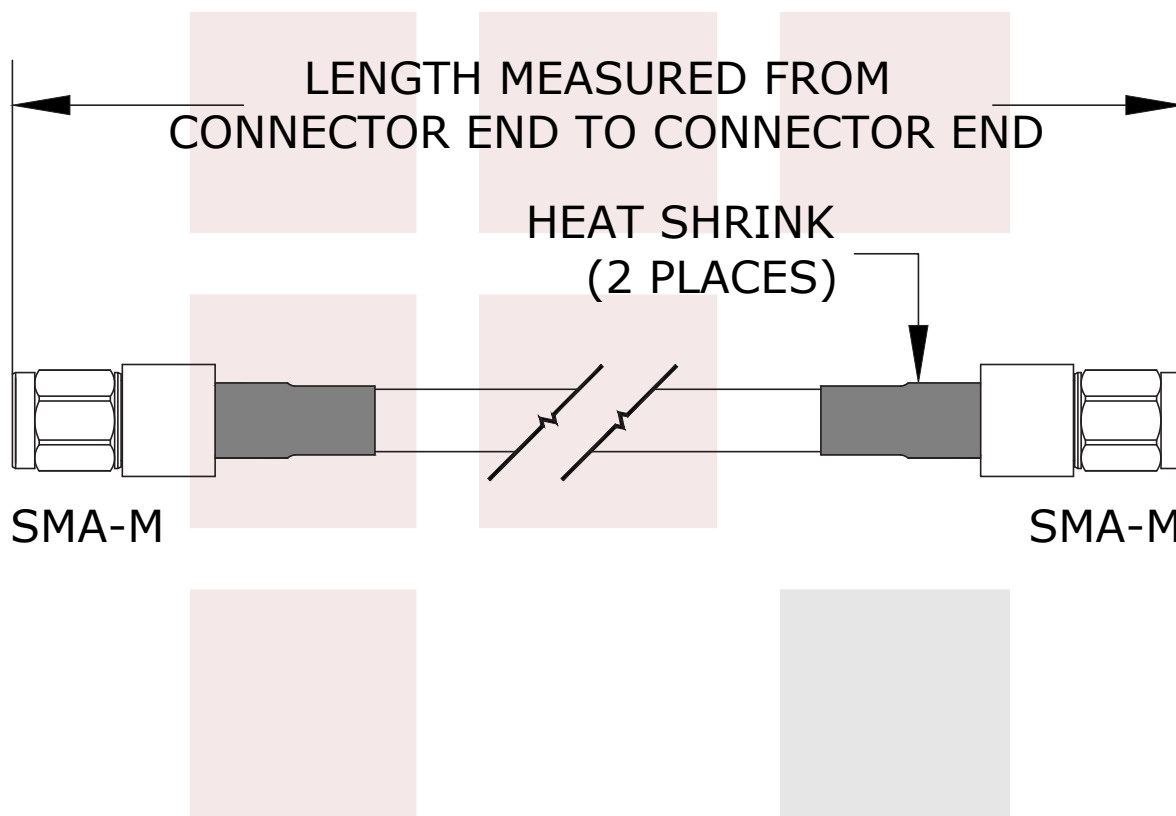
Example: FMC0202195LF-12 = 12 inches long cable  
FMC0202195LF-100cm = 100 cm long cable

Low Loss SMA Male to SMA Male Cable LMR-195 Coax in 12 Inch with LF Solder 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: [Low Loss SMA Male to SMA Male Cable LMR-195 Coax in 12 Inch with LF Solder FMC0202195LF-12](#)

URL: <https://www.fairviewmicrowave.com/standard-sma-male-sma-male-cable-lmr195-coax-fmc0202195lf-12-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.



|                                                                                        |                        |                                                                                                                                                                                     |                    |           |      |
|----------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------|------|
| <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>Low Loss SMA Male to SMA Male Cable LMR-195 Coax<br>in 12 Inch with LF Solder | DWG NO<br>FMC0202195LF |                                                                                                                                                                                     | CAGE CODE<br>3FKR5 |           |      |
|                                                                                        | CAD FILE<br>101614     | SHEET                                                                                                                                                                               | SCALE<br>N/A       | SIZE<br>A | 5568 |