

## Low Loss SMA Male to SMA Male Cable LMR-195-UF Coax

The SMA male to SMA male cable using LMR-195-UF coax, part number FMCA3184, 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-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3184 SMA male to SMA male cable assembly operates to 5.8 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  |              | 5.8   | GHz                              |
| VSWR                          |     |              | 1.4:1 |                                  |
| Velocity of Propagation       |     | 74           |       | %                                |
| RF Shielding                  | 90  |              |       | dB                               |
| Group Delay                   |     | 1.27 [4.17]  |       | ns/ft [ns/m]                     |
| Capacitance                   |     | 25.4 [83.33] |       | pF/ft [pF/m]                     |
| Inductance                    |     | 0.064 [0.21] |       | uH/ft [uH/m]                     |
| DC Resistance Inner Conductor |     | 9.5 [31.17]  |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |     | 4.9 [16.08]  |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |     |              | 3,000 | Vrms                             |

### Performance by Frequency

| Description           | F1    | F2    | F3    | F4    | F5    | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency             | 0.25  | 0.5   | 1     | 2.5   | 5.8   | GHz   |
| Insertion Loss (Typ.) | 0.067 | 0.097 | 0.138 | 0.226 | 0.356 | dB/ft |
|                       | 0.22  | 0.32  | 0.45  | 0.74  | 1.17  | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.05 lbs [22.68 g]

#### Cable

Cable Type LMR-195-UF  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper



### Configuration:

- SMA Male
- SMA Male
- LMR-195-UF

### Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 74% Phase Velocity
- Double Shielded
- TPE 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)

|                              |                        |
|------------------------------|------------------------|
| Dielectric Type              | Foam PE                |
| Number of Shields            | 2                      |
| Shield Layer 1               | Aluminum Tape          |
| Shield Layer 2               | Tinned Copper          |
| Jacket Material              | TPE, Black             |
| Jacket Diameter              | 0.195 in [4.95 mm]     |
| One Time Minimum Bend Radius | 0.5 in [12.7 mm]       |
| Repeated Minimum Bend Radius | 2 in [50.8 mm]         |
| Bending Moment               | 0.1 lbs-ft [0.14 N-m]  |
| Flat Plate Crush             | 10 lbs/in [0.18 Kg/mm] |
| Tensile Strength             | 40 lbs [18.14 Kg]      |

### Connectors

| Description                     | Connector 1                | Connector 2                |
|---------------------------------|----------------------------|----------------------------|
| Type                            | SMA Male                   | SMA Male                   |
| Specification                   | MIL-STD-348A               | MIL-STD-348A               |
| Impedance                       | 50 Ohms                    | 50 Ohms                    |
| Contact Material & Plating      | Brass, Gold                | Brass, Gold                |
| Contact Plating Spec.           | 50 µin minimum             | 50 µin minimum             |
| Dielectric Type                 | PTFE                       | PTFE                       |
| Body Material & Plating         | Passivated Stainless Steel | Passivated Stainless Steel |
| Coupling Nut Material & Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Hex Size                        | 5/16 inch                  | 5/16 inch                  |
| Torque                          | 3 in-lbs 0.34 Nm           | 3 in-lbs 0.34 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:

**FMCA3184 - xx uu**

\_\_\_\_\_ cm = Centimeters  
 \_\_\_\_\_ <blank> = Inches  
 \_\_\_\_\_ Length

Example: FMCA3184-12 = 12 inches long cable  
 FMCA3184-100cm = 100 cm long cable

Low Loss SMA Male to SMA Male Cable LMR-195-UF 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: [Low Loss SMA Male to SMA Male Cable LMR-195-UF Coax FMCA3184](#)

URL: <https://www.fairviewmicrowave.com/low-loss-sma-male-to-sma-male-cable-lmr-195-uf-coax-fmca3184-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.



