

## Low Loss RA SMA Male to RA SMA Male Cable LMR-200-UF Coax

The RA SMA male to RA SMA male cable using LMR-200-UF coax, part number FMC00491, 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-200-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00491 SMA male to SMA male cable assembly operates to 5.8 GHz. The right angle SMA interfaces on the LMR-200-UF cable allow for easier connections in tight spaces. 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       |     | 83           |       | %                                |
| RF Shielding                  | 90  |              |       | dB                               |
| Group Delay                   |     | 1.22 [4]     |       | ns/ft [ns/m]                     |
| Capacitance                   |     | 24.5 [80.38] |       | pF/ft [pF/m]                     |
| Inductance                    |     | 0.061 [0.2]  |       | uH/ft [uH/m]                     |
| DC Resistance Inner Conductor |     | 7.5 [24.61]  |       | $\Omega$ /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.) | 0.061 | 0.087 | 0.12 | 0.2  | 0.31 | dB/ft |
|                       | 0.2   | 0.29  | 0.39 | 0.66 | 1.02 | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.076 lbs [34.47 g]

#### Cable

Cable Type LMR-200-UF  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded



### Configuration:

- SMA Male Right Angle
- SMA Male Right Angle
- LMR-200-UF

### Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- TPE Jacket

### Applications:

- General Purpose
- Laboratory Use

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Inner Conductor Material and Plating Copper  
 Dielectric Type PE (F)  
 Number of Shields 2  
 Shield Layer 1 Aluminum Tape  
 Shield Layer 2 Tinned Copper Braid  
 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         |
| 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             |
| Outer Cond Material & Plating | Brass, Gold      | Brass, Gold      |
| 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)

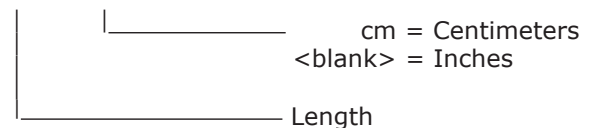
## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMC00491 - xx uu**



Example: FMC00491-12 = 12 inches long cable  
 FMC00491-100cm = 100 cm long cable

Low Loss RA SMA Male to RA SMA Male Cable LMR-200-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 RA SMA Male to RA SMA Male Cable LMR-200-UF Coax FMC00491](https://www.fairviewmicrowave.com/low-loss-ra-sma-male-to-ra-sma-male-cable-lmr-200-uf-coax-fmc00491)

URL: <https://www.fairviewmicrowave.com/low-loss-ra-sma-male-to-ra-sma-male-cable-lmr-200-uf-coax-fmc00491-p.aspx>

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