



RA SMA Male to RA SMA Male Cable LMR-195 Coax

The RA SMA male to RA SMA male cable using LMR-195 coax, part number FMC00113, 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 FMC00113 SMA male to SMA male cable assembly operates to 5.8 GHz. The right angle SMA interfaces on the LMR-195 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 | Т | ур | Max | ι | Jnits |
|-------------------------------|-----|--------------|-------------|-----------------|-----------------|----------|
| Frequency Range | DC | | | 5.8 | | GHz |
| VSWR | | | | 1.4:1 | | |
| Velocity of Propagation | | 8 | 30 | | | % |
| RF Shielding | 90 | | | | | dB |
| Group Delay | | 1.27 | [4.17] | | ns/f | t [ns/m] |
| Capacitance | | | [83.33] | | pF/f | t [pF/m] |
| Inductance | | 0.064 [0.21] | | uH/ft [uH/m] | | |
| DC Resistance Inner Conductor | | | 7.6 [24.93] | | Ω/1000ft [Ω/Km] | |
| DC Resistance Outer Conductor | | 4.9 [16.08] | | Ω/1000ft [Ω/Km] | | |
| Jacket Spark | | | | 3,000 | \ | /rms |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Typ.) | 0.05 | 0.08 | 0.11 | 0.19 | 0.3 | dB/ft |
| | 0.16 | 0.26 | 0.36 | 0.62 | 0.98 | 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

Diameter 0.312 in [7.92 mm]

Cable

Cable Type LMR-195 Impedance 50 Ohms



Configuration:

- SMA Male Right Angle
- SMA Male Right Angle
- LMR-195

Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket

Applications:

- General Purpose
- · Laboratory Use
- Antenna Installations
- Land Mobile Radio & Other Communication Systems
- Cellular & Wi-Fi Systems

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Inner Conductor Type Solid Inner Conductor Material and Plating Copper

Dielectric Type Number of Shields

Number of Shields 2
Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid

Jacket Material PE, Black

Jacket Diameter 0.195 in [4.95 mm]

One Time Minimum Bend Radius Repeated Minimum Bend Radius

Bending Moment
Flat Plate Crush
Tensile Strength

0.5 in [12.7 mm] 2 in [50.8 mm] 0.2 lbs-ft [0.27 N-m]

PE (F)

15 lbs/in [0.27 Kg/mm] 40 lbs [18.14 Kg]

Connectors

| Description | Connector 1 | Connector 2 | |
|-----------------------------|------------------|----------------|--|
| Туре | 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 | Brass, Gold | Brass, Gold | |
| Body Plating Spec. | 3 µin minimum | 3 µin minimum | |
| Coupling Nut Material & Pla | ting Brass, Gold | Brass, Gold | |
| Coupling Nut Plating Spec. | 3 µin minimum | 3 µin minimum | |
| Hex Size | 5/16 inch | 5/16 inch | |

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating 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:

How to Order

Example: FMC00113-12 = 12 inches long cable

FMC00113-100cm = 100 cm long cable

^{*}All cable assemblies have a length tolerance of 1.5% or $\pm 3/8$ ", whichever is greater.





RA SMA Male to RA SMA Male Cable LMR-195 Coax 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: RA SMA Male to RA SMA Male Cable LMR-195 Coax FMC00113

URL: https://www.fairviewmicrowave.com/ra-sma-male-ra-sma-male-cable-lmr195-coax-fmc00113-p.aspx







