

RA SMA Male to RA SMA Male Cable LMR-195 Coax in 150 CM

The RA SMA male to RA SMA male 150 cm cable using LMR-195 coax, part number FMC00113-150CM, 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 FMC00113-150CM 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		25.4 [83.33]			pF/ft [pF/m]		
Inductance		0.064	[0.21]		uH/f	t [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.)	0.68	0.8	0.97	1.33	1.87	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 59.05 in [149.99 cm]
Diameter 0.312 in [7.92 mm]

Cable

Cable Type LMR-195

FMC00113-150CM DATA SHEET



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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Impedance Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type
Number of Shields
Shield Layer 1
Shield Layer 2
Jacket Material
Jacket Diameter

2 Aluminum Tape Tinned Copper Braid

PE, Black

50 Ohms

Solid

Copper

PE (F)

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]

0.2 lbs-ft [0.27 N-m] 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 Storage Range

-40 to +85 deg C -70 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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





How to Order

Part Numb	er Configuration:	FMC00113	-	XX	นเ	u	
					.		cm = Centimeters <blank> = Inches Length</blank>
Example:	FMC00113-12 = 12 inches long ca	able					

FMC00113-100cm = 100 cm long cable

RA SMA Male to RA SMA Male Cable LMR-195 Coax in 150 CM 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 in 150 CM FMC00113-150CM

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

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