



SMA Female to SMA Female Cable LMR-195 Coax with Heat Shrink

The SMA female to SMA female cable using LMR-195 coax, part number FMC00519, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a female to female 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 FMC00519 SMA female to SMA female 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	Mi	in	Typ Max		Max	Units		
Frequency Range	DO	С			5.8		GHz	
VSWR					1.4:1			
Velocity of Propagation			80			%		
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			uH/f	t [uH/m]			
DC Resistance Inner Cor	7.6 [24.93]			$\Omega/1000$ ft [$\Omega/$ Km]				
DC Resistance Outer Cor	4.9 [16.08]			Ω/1000ft [Ω/Km]				
Operating Voltage (AC)					500	\	/rms	
Dielectric Withstanding \			1,000		Vdc			
Jacket Spark					3,000	\	/rms	
Input Power (Peak)					2.5	K'	Watts	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units		
Frequency	0.25	0.5	1	2.5	5.8	GHz		
Insertion Loss (Typ.)	0.06	0.08	0.12	0.19	0.3	dB/ft		
	0.2	0.26	0.39	0.62	0.98	dB/m		

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

Diameter

0.25 in [6.35 mm]



Configuration:

- SMA Female
- SMA Female
- LMR-195

Features:

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

Applications:

- General Purpose
- Laboratory Use

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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 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 0.5 in [12.7 mm] Repeated Minimum Bend Radius 2 in [50.8 mm] Bending Moment 0.2 lbs-ft [0.27 N-m] 15 lbs/in [0.27 Kg/mm] Flat Plate Crush Tensile Strength 40 lbs [18.14 Kg]

Connectors

Description	Connector 1	Connector 2				
Туре	SMA Female	SMA Female				
Impedance	50 Ohms	50 Ohms				
Contact Material & Plating	Beryllium Copper, Go	old Beryllium Copper, Gold				
Contact Plating Spec.	50μ in. minimum	50μ in. minimum				
Dielectric Type	PTFE	PTFE				
Body Material & Plating	Brass, Nickel	Brass, Nickel				
Body Plating Spec.	100μ in. minimum	n 100µ in. minimum				

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

Part Number Configuration: FMC00519 - xx uu cm = Centimeters

lank> = Inches Length

Example: FMC00519-12 = 12 inches long cable

FMC00519-100cm = 100 cm long cable





SMA Female to SMA Female Cable LMR-195 Coax with Heat Shrink 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: SMA Female to SMA Female Cable LMR-195 Coax with Heat Shrink FMC00519

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

URL: https://www.fairviewmicrowave.com/sma-female-sma-female-cable-lmr195-coax-fmc00519-p.aspx

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	l specification												
suitability	of the part of	described	herein	for any	particular	purpose,	and Fair	view N	1icrowave	does r	not assum	e any	liability
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