

Low Loss SMA Female to TNC Male Cable LMR-195 Coax in 100 CM

The SMA female to TNC male 100 cm cable using LMR-195 coax, part number FMC00526-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to TNC cable assembly has a female 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 FMC00526-100CM SMA female to TNC 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	Mir	1	Typ Max		Units		
Frequency Range	DC			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/ft [uH/m]	
DC Resistance Inner Conductor			7.6 [24.93]		Ω/1000ft [Ω/Km]		
DC Resistance Outer Conductor		4.9	[16.08]		Ω/100	0ft [Ω/Km]	
Operating Voltage (AC)				375	\	/rms	
Dielectric Withstanding Voltage (DC)				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.)	0.39	0.47	0.59	0.83	1.18	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1dB per connector loss.

Mechanical Specifications

Cable Assembly

Length* Diameter 39.37 in [100 cm] 0.571 in [14.5 mm]

FMC00526-100CM DATA SHEET



Configuration:

- SMA Female
- TNC Male
- 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 50 Ohms **Impedance** Inner Conductor Type Solid Inner Conductor Material and Plating Copper Dielectric Type PE (F) Number of Shields

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	Connector 1 Connector 2			
Туре	SMA Female		TNC Male		
Specification			MIL-STD-348A		
Impedance	50 Ohms		50 Ohms		
Contact Material & Plating	Beryllium Copper, Gold		Brass, Gold		
Contact Plating Spec.	50μ in. minim	50μ in. minimum)	
Dielectric Type	PTFE		PTFE		
Body Material & Plating	Brass, Nicke	l	Brass, Nickel		
Body Plating Spec.	100μ in. minim	100µ in. minimum		100 µin minimum	
Coupling Nut Material & Pla	ating		Brass, Nickel		
Coupling Nut Plating Spec.			100 µin minimun	n	

Environmental Specifications

Temperature

-40 to +85 deg C Operating Range -70 to +85 deg C Storage Range

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: FMC00526 - xx uu cm = Centimeters

dlank> = Inches Length

Example: FMC00526-12 = 12 inches long cable

FMC00526-100cm = 100 cm long cable





Low Loss SMA Female to TNC Male Cable LMR-195 Coax in 100 CM 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 Female to TNC Male Cable LMR-195 Coax in 100 CM FMC00526-100CM

URL: https://www.fairviewmicrowave.com/sma-female-tnc-male-cable-lmr195-coax-fmc00526-100cm-p.aspx







