

Low Loss RA TNC Male to SMA Male Cable LMR-200 Coax

The RA TNC male to SMA male cable using LMR-200 coax, part number FMCA3186, from Fairview Microwave is in-stock and ships same day. This Fairview TNC to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-200 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3186 TNC male to SMA male cable assembly operates to 5.8 GHz. The right angle TNC interface on the LMR-200 cable allows 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		5.36 [17.59]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ω /1000ft [Ω /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.)	0.05	0.073	0.104	0.169	0.264	dB/ft
	0.16	0.24	0.34	0.55	0.87	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the SMA connector and 0.2 dB for the TNC connector.

Mechanical Specifications

Cable Assembly

Weight 0.11 lbs [49.9 g]

Cable

Cable Type LMR-200
 Impedance 50 Ohms



Configuration:

- TNC Male Right Angle
- SMA Male
- LMR-200

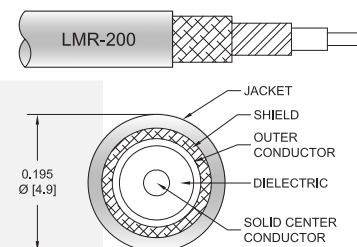
Features:

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

Applications:

- General Purpose
- Laboratory Use

Cable Diagram:



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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]
Flat Plate Crush	15 lbs/in [0.27 Kg/mm]
Tensile Strength	40 lbs [18.14 Kg]

Connectors

Description	Connector 1	Connector 2
Type	TNC Male	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Contact Plating Spec.		50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Nickel	Brass, Gold
Body Plating Spec.		3 µin minimum
Coupling Nut Material & Plating	Brass, Nickel	Brass, Gold
Coupling Nut Plating Spec.		3 µin minimum
Hex Size		5/16 Inch

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:

FMCA3186 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

Example: FMCA3186-12 = 12 inches long cable
 FMCA3186-100cm = 100 cm long cable

Low Loss RA TNC Male to SMA Male Cable LMR-200 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 TNC Male to SMA Male Cable LMR-200 Coax FMCA3186](#)

URL: <https://www.fairviewmicrowave.com/low-loss-ra-tnc-male-to-sma-male-cable-lmr-200-coax-fmca3186-p.aspx>

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