

## Low Loss TNC Male to TNC Male Cable LMR-200-UF Coax with Times Microwave Components



### FMCA100226

#### Configuration

- Connector 1: TNC Male
- Connector 2: TNC Male
- Cable Type: LMR-200-UF
- Coax Flex Type: Flexible

#### Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- TPE Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

The TNC male to TNC male cable using LMR-200-UF coax, part number FMCA100226, from Fairview Microwave is in-stock and ships same day. This Fairview TNC to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-200-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100226 TNC male to TNC male cable assembly operates to 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		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		7.5 [24.61]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms

## Low Loss TNC Male to TNC Male Cable LMR-200-UF Coax with Times Microwave Components



### FMCA100226

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			3,000	Vrms

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	5800	MHz	
FMCA100226	Custom Lengths Available	Insertion Loss (Typ.)	0.061	0.087	0.125	0.202	0.316	dB/ft	
			0.21	0.29	0.42	0.67	1.04	dB/m	
FMCA100226-12	12 Inch	Insertion Loss (Typ.)	0.27	0.29	0.33	0.41	0.52	dB	0.076
FMCA100226-24	24 Inch	Insertion Loss (Typ.)	0.33	0.38	0.45	0.61	0.84	dB	0.099
FMCA100226-36	36 Inch	Insertion Loss (Typ.)	0.39	0.47	0.58	0.81	1.15	dB	0.121
FMCA100226-60	60 Inch	Insertion Loss (Typ.)	0.51	0.64	0.83	1.21	1.78	dB	0.165
FMCA100226-300	300 Inch	Insertion Loss (Typ.)	1.73	2.38	3.33	5.25	8.1	dB	0.606

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.076 pounds
Additional Weight per Inch:	0.00184 pounds

Electrical Specification Notes:  
Values at 25°C, sea level.

#### Mechanical Specifications

##### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.076 lbs [34.47 g]

##### Cable

Cable Type	LMR-200-UF
Impedance	50 Ohms
Inner Conductor Type	Stranded
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	TPE, 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	0.1 lbs-ft [0.14 N-m]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]
Tensile Strength	40 lbs [18.14 Kg]

Low Loss TNC Male to TNC Male Cable LMR-200-UF Coax with Times Microwave Components



FMCA100226

Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30µ in. minimum	30µ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100µ in. minimum	100µ in. minimum

Environmental Specifications

Operating Range Temperature-40 to +85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:  
Values at 25°C, sea level.

## Low Loss TNC Male to TNC Male Cable LMR-200-UF Coax with Times Microwave Components



### FMCA100226

#### Typical Performance Data

#### How to Order

Part Number Configuration: **FMCA100226**    **- xx**    **uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example: FMCA100226-12 = 12 inches long cable  
FMCA100226-100cm = 100 cm long cable

Low Loss TNC Male to TNC Male Cable LMR-200-UF Coax with Times Microwave Components from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Low Loss TNC Male to TNC Male Cable LMR-200-UF Coax with Times Microwave Components FMCA100226](#)

URL: <https://www.fairviewmicrowave.com/low-loss-tnc-male-to-tnc-male-cable-lmr-200-uf-coax-with-times-microwave-components-fmca100226-p.aspx>

The information contained within 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 to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

