

FMC00245-48 DATA SHEET

TNC Male to TNC Male Cable LMR-200-FR Coax in 48 Inch with Times Microwave components

The TNC male to TNC male 48 inch cable using LMR-200-FR coax, part number FMC00245-48, 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-FR coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00245-48 TNC male 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		Min	Т	ур	Max	ι	Jnits
Frequency Range		DC			5.8		GHz
VSWR					1.4:1		
Velocity of Propagation			3	33			%
RF Shielding		90					dB
Group Delay			1.2	2 [4]		ns/f	t [ns/m]
Capacitance			24.5	80.38		pF/f	t [pF/m]
Inductance			0.06	1 [0.2]		uH/f	t [uH/m]
DC Resistance Inner Conductor			5.36 [17.59]		Ω/1000ft [Ω/Km]		
OC 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.)	0.4	0.49	0.62	0.88	1.26	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 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 48 in [121.92 cm]
Diameter 0.69 in [17.53 mm]

Cable

Cable Type LMR-200-FR Impedance 50 Ohms



Configuration:

- TNC Male
- TNC Male
- LMR-200-FR

Features:

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

Applications:

- General Purpose
- Laboratory Use

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Inner Conductor Type Stranded
Inner Conductor Material and Plating Copper
Dielectric Type PE

Dielectric Type Pf Number of Shields 2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material FRPE, Black

Jacket Diameter 0.195 in [4.95 mm]

One Time Minimum Bend Radius
Repeated Minimum Bend Radius
2 in [50.8 mm]
Bending Moment
2 lbs-ft [2.71 N-m]

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

Connectors

Description	Connect	or 1	Connector 2		
Туре	TNC Ma	ale	TNC Male		
Specification	MIL-STD-	-348	MIL-STD-348		
Impedance	50 Ohr	ns	50 Ohms		
Contact Material & Plating	Beryllium Cop	per, G	old Beryllium Copper, Gold		
Dielectric Type	PTFE		PTFE		
Outer Cond Material & Plati	ng Brass, Tri-	Metal	Brass, Tri-Metal		
Body Material & Plating	Brass, Tri-	Metal	Brass, Tri-Metal		
Coupling Nut Material & Pla	ting Brass, Tri-	Metal	Brass, Tri-Metal		
Hex Size	5/8 In	ch	5/8 Inch		

Mechanical Specification Notes:

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:

FMC00245 - xx uu

| cm = Centimeters |
| chlark > = Inches |
| Length

Example: FMC00245-12 = 12 inches long cable

FMC00245-100cm = 100 cm long cable

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





TNC Male to TNC Male Cable LMR-200-FR Coax in 48 Inch with Times Microwave components 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: TNC Male to TNC Male Cable LMR-200-FR Coax in 48 Inch with Times Microwave components FMC00245-48

The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: https://www.fairviewmicrowave.com/tnc-male-tnc-male-cable-lmr200fr-coax-fmc00245-48-p.aspx

described	herein. It m	ay be necessar	y to ma	ke modification	ns to the part a	nd/or t	he documentation of the pa	rt, in order
to implem	ent improven	nents. Fairview	/ Microw	ave reserves t	he right to mak	e such	changes as required. Unles	s otherwise
							resentation or warranty reg	
suitability	of the part d	escribed hereir	for any	y particular pu	rpose, and Fair	view Mi	crowave does not assume a	any liability
arising out	t of the use o	f any part or do	ocument	tation.				





