

FMC00512 DATA SHEET

N Male to RA TNC Male Cable LMR-240 Coax with Heat Shrink

The type N male to RA TNC male cable using LMR-240 coax, part number FMC00512, from Fairview Microwave is in-stock and ships same day. This Fairview type N to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00512 type N male to TNC male cable assembly operates to 5.8 GHz. The right angle TNC interface on the LMR-240 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	Т	ур	Max	Unit	s
Frequency Range	DC			5.8	GH:	<u> </u>
VSWR				1.4:1		
Velocity of Propagation		8	34		%	
RF Shielding	90				dB	
Group Delay		1.21	[3.97]		ns/ft [ns	s/m]
Capacitance		24.2	[79.4]		pF/ft [pf	/m]
Inductance		0.06	[0.2]		uH/ft [ul	l/m]
DC Resistance Inner Conductor			[10.5]		Ω/1000ft [.	Ω/Km]
DC Resistance Outer Cor	nductor	3.89	[12.76]		Ω/1000ft [.	Ω/Km]
Operating Voltage (DC)				2,500	Vdc	
Dielectric Withstanding \	/oltage (DC)			1,500	Vdc	
Jacket Spark				5,000	Vrm	3
Input Power (Peak)				5.6	KWat	ts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.03	0.05	0.08	0.13	0.2	dB/ft
	0.1	0.16	0.26	0.43	0.66	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated 0.1 dB for the straight connector and 0.1*SQRT(FGHz) dB for the straight connector.

Mechanical Specifications Cable Assembly



Configuration:

- N Male
- TNC Male Right Angle
- LMR-240

Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- · Double Shielded
- PE Jacket

Applications:

- General Purpose
- Laboratory Use

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Cable

Cable Type LMR-240 50 Ohms Impedance 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 0.24 in [6.1 mm]

One Time Minimum Bend Radius 0.75 in [19.05 mm] Repeated Minimum Bend Radius 2.5 in [63.5 mm] Bending Moment 0.25 lbs-ft [0.34 N-m] Flat Plate Crush 20 lbs/in [0.36 Kg/mm]

Connectors

Tensile Strength

Description	Connector 1	Connector 2			
Туре	N Male	TNC Male			
Impedance	50 Ohms	50 Ohms			
Contact Material & Plating	Brass, Gold	Brass, Gold			
Dielectric Type	PTFE	PTFE			
Body Material & Plating	Brass, Tri-Metal	Brass, Nickel			
Coupling Nut Material & Plating	Brass, Tri-Metal	Brass, Nickel			
Hex Size	13/16 inch				

80 lbs [36.29 Kg]

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: FMC00512 - xx uu cm = Centimeters

lank> = Inches Length

Example: FMC00512-12 = 12 inches long cable

FMC00512-100cm = 100 cm long cable





N Male to RA TNC Male Cable LMR-240 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: N Male to RA TNC Male Cable LMR-240 Coax with Heat Shrink FMC00512

URL: https://www.fairviewmicrowave.com/n-male-ra-tnc-male-cable-lmr240-coax-fmc00512-p.aspx







