

TNC Male to TNC Male Cable RG-214 Coax

The TNC male to TNC male cable using RG-214 coax, part number FMCA3224, 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 RG-214 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3224 TNC male to TNC male cable assembly operates to 6 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		65.9		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.029	0.044	0.076	0.124	0.237	dB/ft
	0.1	0.14	0.25	0.41	0.78	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.22 lbs [99.79 g]

Cable

Cable Type RG-214
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PE (LD)
 Number of Shields 2
 Shield Layer 1 Silver Plated Copper Braid
 Shield Layer 2 Silver Plated Copper Braid
 Jacket Material PVC, Black
 Jacket Diameter 0.425 in [10.8 mm]



Configuration:

- TNC Male
- TNC Male
- RG-214

Features:

- Max Frequency 6 GHz
- 65.9% Phase Velocity
- Double Shielded
- PVC Jacket

Applications:

- General Purpose
- Laboratory Use

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One Time Minimum Bend Radius 1.57 in [39.88 mm]

Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Contact Plating Spec.	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Nickel	Brass, Nickel
Body Plating Spec.	100 µin minimum	100 µin minimum
Coupling Nut Material & Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Spec.	100 µin minimum	100 µin minimum

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA3224 - xx uu

 cm = Centimeters
 <blank> = Inches

Length

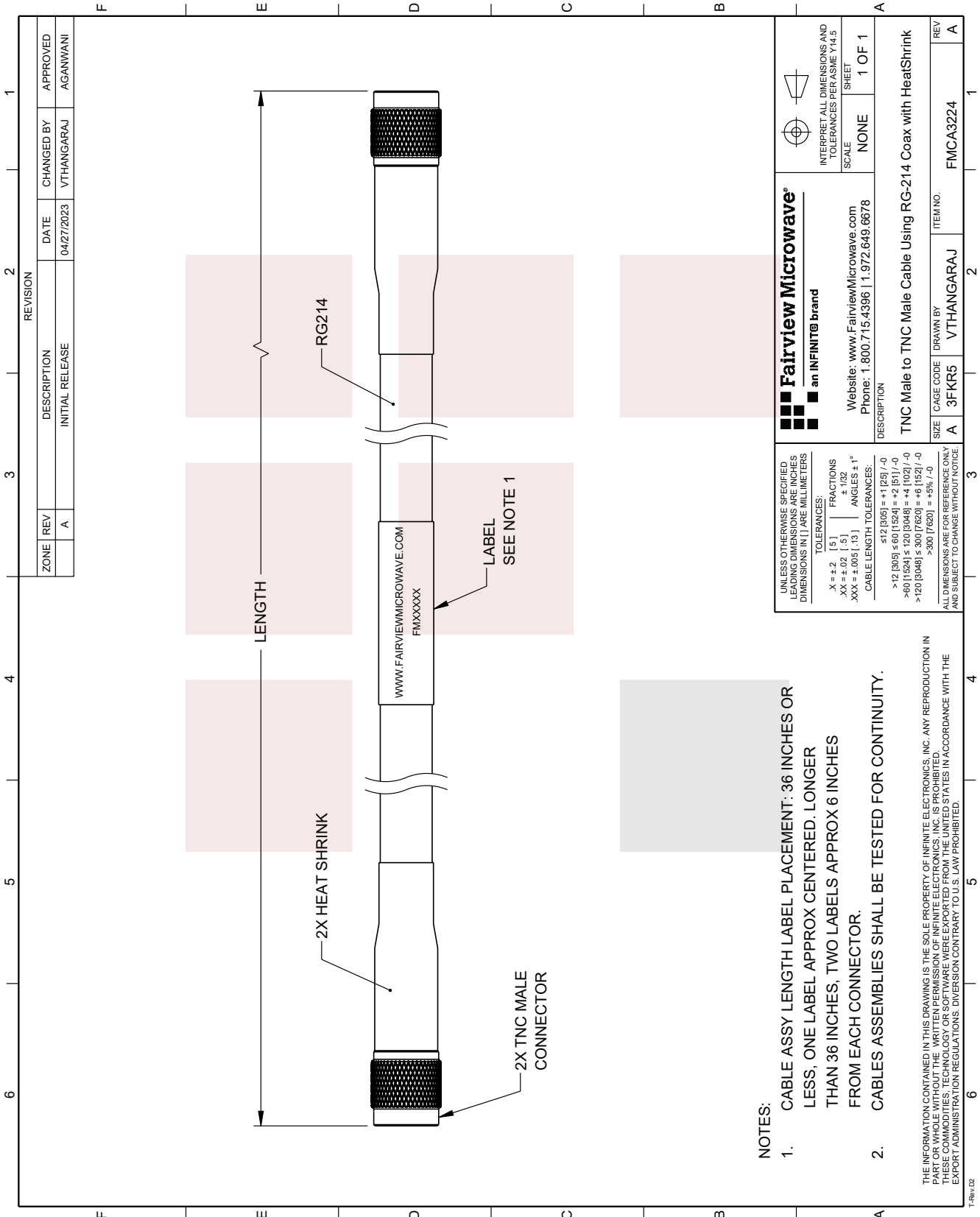
 Example: FMCA3224-12 = 12 inches long cable
 FMCA3224-100cm = 100 cm long cable

TNC Male to TNC Male Cable RG-214 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: [TNC Male to TNC Male Cable RG-214 Coax FMCA3224](#)

 URL: <https://www.fairviewmicrowave.com/tnc-male-to-tnc-male-cable-rg-214-coax-fmca3224-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED, LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	04/27/2023	VTHANGARAJ	AGANWANI
DESCRIPTION				
INITIAL RELEASE				

<p>Fairview Microwave[®] an INFINIT[®] brand</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p>
Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		SCALE: NONE SHEET: 1 OF 1
DESCRIPTION: TNC Male to TNC Male Cable Using RG-214 Coax with HeatShrink		
UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN LARGE MILLIMETERS DIMENSIONS IN SMALL MILLIMETERS TOLERANCES: .X = ±.2 (.5) FRACTIONS ± 1/32 .XX = ±.02 (.5) ANGLES ± 1° .XXX = ±.005 (.13)		SIZE CAGE CODE DRAWN BY ITEM NO. REV A 3FKR5 VTHANGARAJ FMC-A3224 A
CABLE LENGTH TOLERANCES: ≤12 [305] ≤ ±1 [25] / -0 >12 [305] ≤ 60 [1524] = +2 [51] / -0 >60 [1524] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +6 [152] / -0 >300 [7620] = +5% / -0		
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.		