

Low Loss TNC Male to RA SMA Male Cable LMR-240-UF Coax With Times Microwave Components

The TNC male to RA SMA male cable using LMR-240-UF coax, part number FMCA3192, 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-240-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3192 TNC male to SMA male cable assembly operates to 5.8 GHz. The right angle SMA interface on the LMR-240-UF 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		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		4.28 [14.04]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω /1000ft [Ω /Km]
Jacket Spark			5,000	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.)	0.046	0.066	0.095	0.155	0.244	dB/ft
	0.15	0.22	0.31	0.51	0.8	dB/m

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

Weight 0.11 lbs [49.9 g]

Cable

Cable Type LMR-240-UF
 Impedance 50 Ohms



Configuration:

- TNC Male
- SMA Male Right Angle
- LMR-240-UF

Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- TPE Jacket
- 500 Mating Cycles

Applications:

- General Purpose
- Laboratory Use

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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	0.24 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	0.13 lbs-ft [0.18 N-m]
Flat Plate Crush	13 lbs/in [0.23 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

Connectors

Description	Connector 1	Connector 2
Type	TNC Male	SMA Male
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material & Plating	Brass, Gold	Brass/Phosphor Bronze, Gold
Contact Plating Spec.	50 μinch	50 μinch
Dielectric Type	Teflon	Teflon
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	80 μinch	80 μinch
Coupling Nut Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Spec.	80 μinch	80 μinch
Hex Size		5/16 Inch
Torque	8 in-lbs 0.9 Nm	7 in-lbs 0.79 Nm

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

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

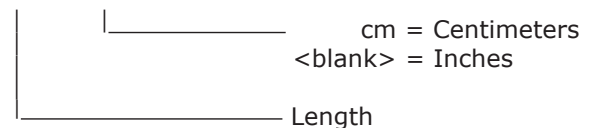
Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA3192 - xx uu



Example: FMCA3192-12 = 12 inches long cable
FMCA3192-100cm = 100 cm long cable

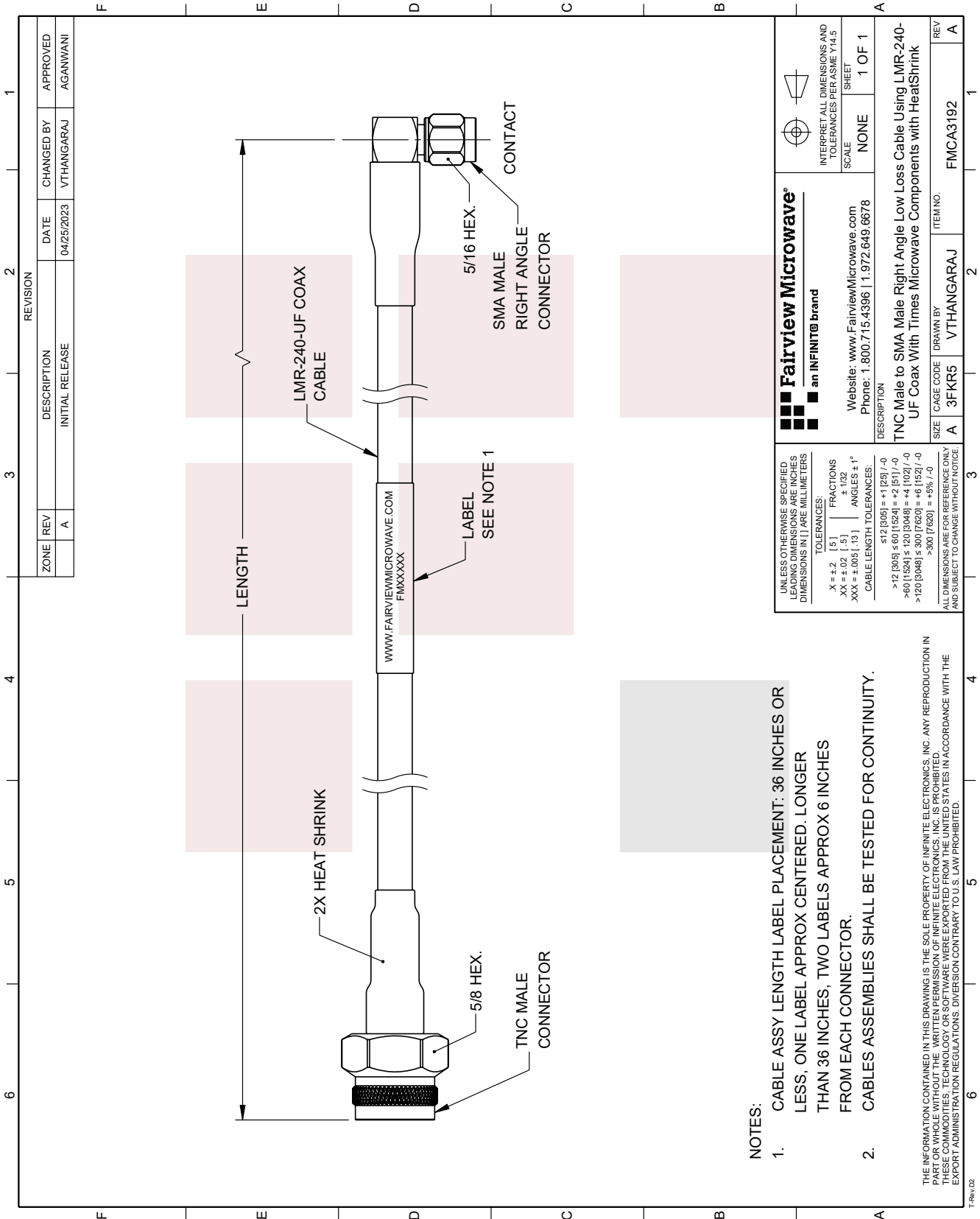
Low Loss TNC Male to RA SMA Male Cable LMR-240-UF Coax With Times Microwave Components from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss TNC Male to RA SMA Male Cable LMR-240-UF Coax With Times Microwave Components FMCA3192](#)

URL: <https://www.fairviewmicrowave.com/low-loss-tnc-male-to-ra-sma-male-cable-lmr-240-uf-coax-with-times-microwave-components-fmca3192-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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<p>Fairview Microwave an INFINIT[®] brand</p> <p>Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>	
<p>UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS IN LARGE MILLIMETERS</p> <p>TOLERANCES:</p> <p>.X = ±.2 (.5) FRACTIONS ± .032</p> <p>.XX = ±.02 (.13) ANGLES ± 1°</p> <p>.XXX = ±.005 (.13) ANGLES ± 1°</p> <p>CABLE LENGTH TOLERANCES:</p> <p>≤ 12 (305) = ±.125 / -0</p> <p>> 12 (305) ≤ 60 (1524) = +.2 (51) / -0</p> <p>> 60 (1524) ≤ 120 (3048) = +.4 (102) / -0</p> <p>> 120 (3048) ≤ 300 (7620) = +.6 (152) / -0</p> <p>> 300 (7620) = +.8% / -0</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.</p>		<p>DESCRIPTION</p> <p>TNC Male to SMA Male Right Angle Low Loss Cable Using LMR-240-UHF Coax With Times Microwave Components with HeatShrink</p>	
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	VTHANGARAJ	FMCA3192
REV	REV		REV
A	A		A

REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	04/25/2023	VTHANGARAJ	AGANWANI
DESCRIPTION				
INITIAL RELEASE				