

## Low Loss RA TNC Male to RA MMCX Plug Cable LMR-100 Coax

The RA TNC male to RA MMCX plug cable using LMR-100 coax, part number FMC00492, from Fairview Microwave is in-stock and ships same day. This Fairview TNC to MMCX cable assembly has a male to plug gender configuration with 50 ohm flexible LMR-100A coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00492 TNC male to MMCX plug cable assembly operates to 5.8 GHz. The right angle TNC and right angle MMCX interfaces on the LMR-100A cable allow 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		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		9.5 [31.17]		$\Omega$ /1000ft [ $\Omega$ /Km]
Jacket Spark			2,000	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.)	0.12	0.17	0.24	0.4	0.64	dB/ft
	0.39	0.56	0.79	1.31	2.1	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.068 lbs [30.84 g]

#### Cable

Cable Type LMR-100A  
Impedance 50 Ohms  
Inner Conductor Type Solid



### Configuration:

- TNC Male Right Angle
- MMCX Plug Right Angle
- LMR-100A

### Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

### Applications:

- General Purpose
- Laboratory Use

Fairview Microwave  
301 Leora Ln., Suite 100  
Lewisville, TX 75056  
Tel: 1-800-715-4396 / (972) 649-6678  
Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Inner Conductor Material and Plating Copper Clad Steel  
 Dielectric Type PE  
 Number of Shields 2  
 Shield Layer 1 Aluminum Tape  
 Shield Layer 2 Tinned Copper Braid  
 Jacket Material PVC, Black  
 Jacket Diameter 0.11 in [2.79 mm]

One Time Minimum Bend Radius 0.25 in [6.35 mm]  
 Repeated Minimum Bend Radius 1 in [25.4 mm]  
 Bending Moment 0.1 lbs-ft [0.14 N-m]  
 Flat Plate Crush 10 lbs/in [0.18 Kg/mm]  
 Tensile Strength 15 lbs [6.8 Kg]

### Connectors

Description	Connector 1	Connector 2
Type	TNC Male	MMCX Plug
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Contact Plating Spec.		30 µin minimum
Dielectric Type	Delrin	PTFE
Body Material & Plating	Brass, Nickel	Brass, Gold
Body Plating Spec.		3 µin minimum
Coupling Nut Material & Plating	Brass, Nickel	

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

### Plotted and Other Data

Notes:

### How to Order

Part Number Configuration:

**FMC00492 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMC00492-12 = 12 inches long cable  
 FMC00492-100cm = 100 cm long cable

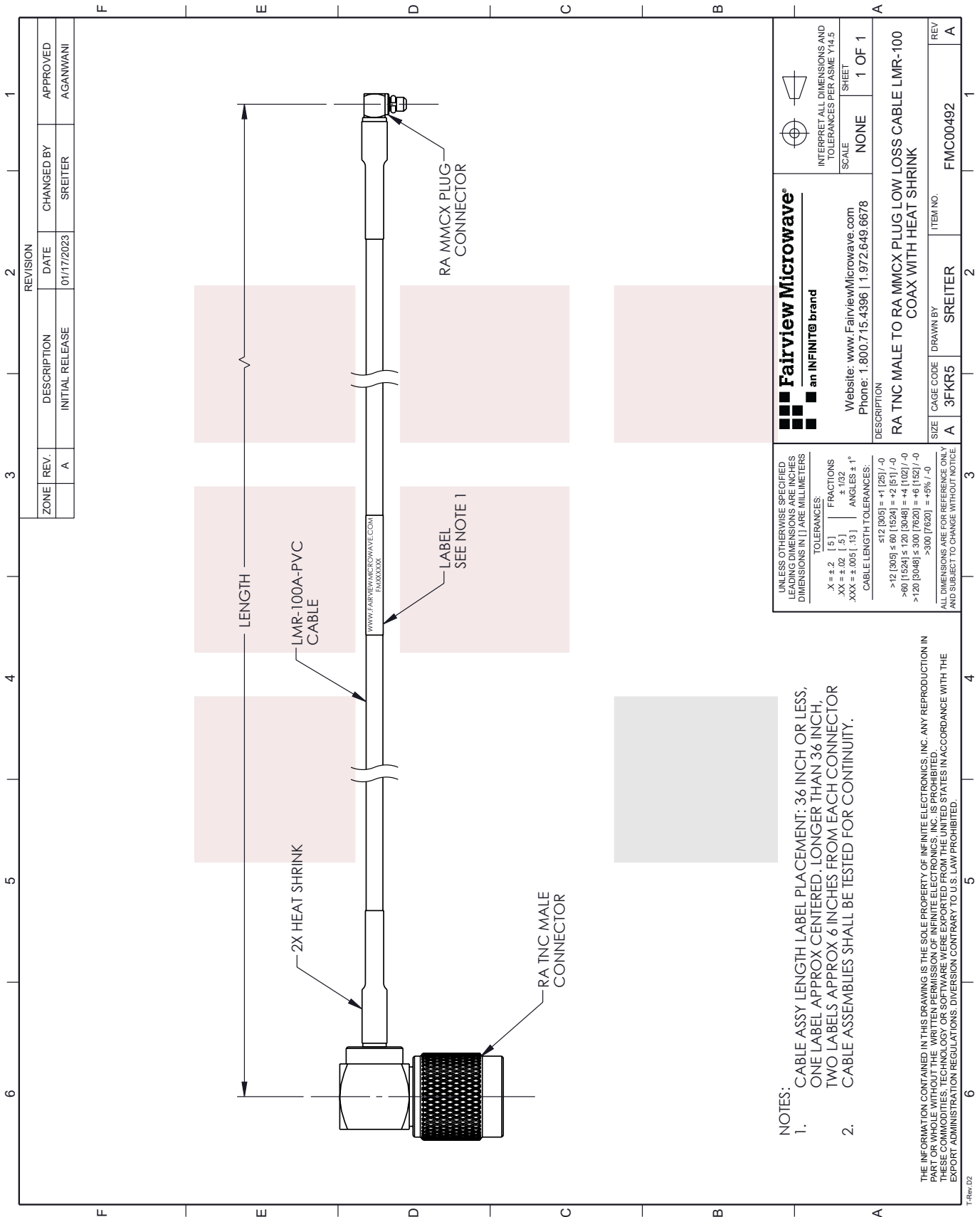
Low Loss RA TNC Male to RA MMCX Plug Cable LMR-100 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss RA TNC Male to RA MMCX Plug Cable LMR-100 Coax FMC00492](https://www.fairviewmicrowave.com/low-loss-ra-tnc-male-to-ra-mmcx-plug-cable-lmr-100-coax-fmc00492)

URL: <https://www.fairviewmicrowave.com/low-loss-ra-tnc-male-to-ra-mmcx-plug-cable-lmr-100-coax-fmc00492-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.





<b>Fairview Microwave<sup>®</sup></b> an INFINIT <sup>®</sup> brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SHEET
Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a>	Phone: 1.800.715.4396   1.972.649.6678	SCALE: NONE
DESCRIPTION		SHEET 1 OF 1
RA TNC MALE TO RA MMCX PLUG LOW LOSS CABLE LMR-100 COAX WITH HEAT SHRINK		

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	TOLERANCES:	$.X = \pm .2$ [ .5 ] FRACTIONS $.XX = \pm .02$ [ .5 ] $\pm .132$ $.XXX = \pm .005$ [ .13 ] ANGLES $\pm 1^\circ$
	CABLE LENGTH TOLERANCES:	$\leq 12$ [305] = $\pm 1$ [25] / -0 $> 12$ [305] $\leq 60$ [1524] = $\pm 2$ [51] / -0 $> 60$ [1524] $\leq 120$ [3048] = $\pm 4$ [102] / -0 $> 120$ [3048] $\leq 300$ [7620] = $\pm 6$ [152] / -0 $> 300$ [7620] = $\pm 8\%$ / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE		

NOTES: 1. CABLE ASSY LENGTH LABEL PLACEMENT: 3/6 INCH OR LESS, ONE LABEL APPROX CENTERED, LONGER THAN 3/6 INCH, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY. 2.	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.
---	--

REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV.	DESCRIPTION	INITIAL RELEASE	
	A		SREITER	AGANWANI