

## Low Loss N Male to RA SMA Male Cable LMR-240 Coax in 48 Inch

The type N male to RA SMA male 48 inch cable using LMR-240 coax, part number FMCA2201-48, from Fairview Microwave is in-stock and ships same day. This Fairview type N to SMA 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 FMCA2201-48 type N male to SMA male cable assembly operates to 5.8 GHz. The right angle SMA 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	Typ	Max	Units
Frequency Range	DC		5.8	GHz
VSWR			1.35:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		3.2 [10.5]		$\Omega/1000\text{ft}$ [ $\Omega/\text{Km}$ ]
DC Resistance Outer Conductor		3.89 [12.76]		$\Omega/1000\text{ft}$ [ $\Omega/\text{Km}$ ]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.46	0.5	0.55	0.74	1.1	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.1 dB for the N Male connector and 0.2 dB for the SMA Male connector.

### Mechanical Specifications

#### Cable Assembly

Length*	48 in [121.92 cm]
Diameter	0.875 in [22.23 mm]
Weight	0.10372 lbs [47.05 g]

#### Cable

Cable Type	LMR-240
Impedance	50 Ohms



### Configuration:

- N Male
- SMA 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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Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Tinned Copper
Shield Layer 2	Aluminum Tape
Jacket Material	PE, Black
Jacket Diameter	0.24 in [6.1 mm]

## Connectors

Description	Connector 1	Connector 2
Type	N Male	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Spec.	ASTM-B488	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	
Body Plating Spec.	QQ-N-290	
Coupling Nut Material & Plating	Brass, Tri-Metal	
Coupling Nut Plating Spec.	QQ-N-290	
Hex Size	13/16 inch	

## Environmental Specifications

### Temperature

Operating Range -40 to +85 deg C

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

## Plotted and Other Data

- Notes:
- Values at 25°C, sea level.

## How to Order

Part Number Configuration:

**FMCA2201 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

Example: FMCA2201-12 = 12 inches long cable  
FMCA2201-100cm = 100 cm long cable

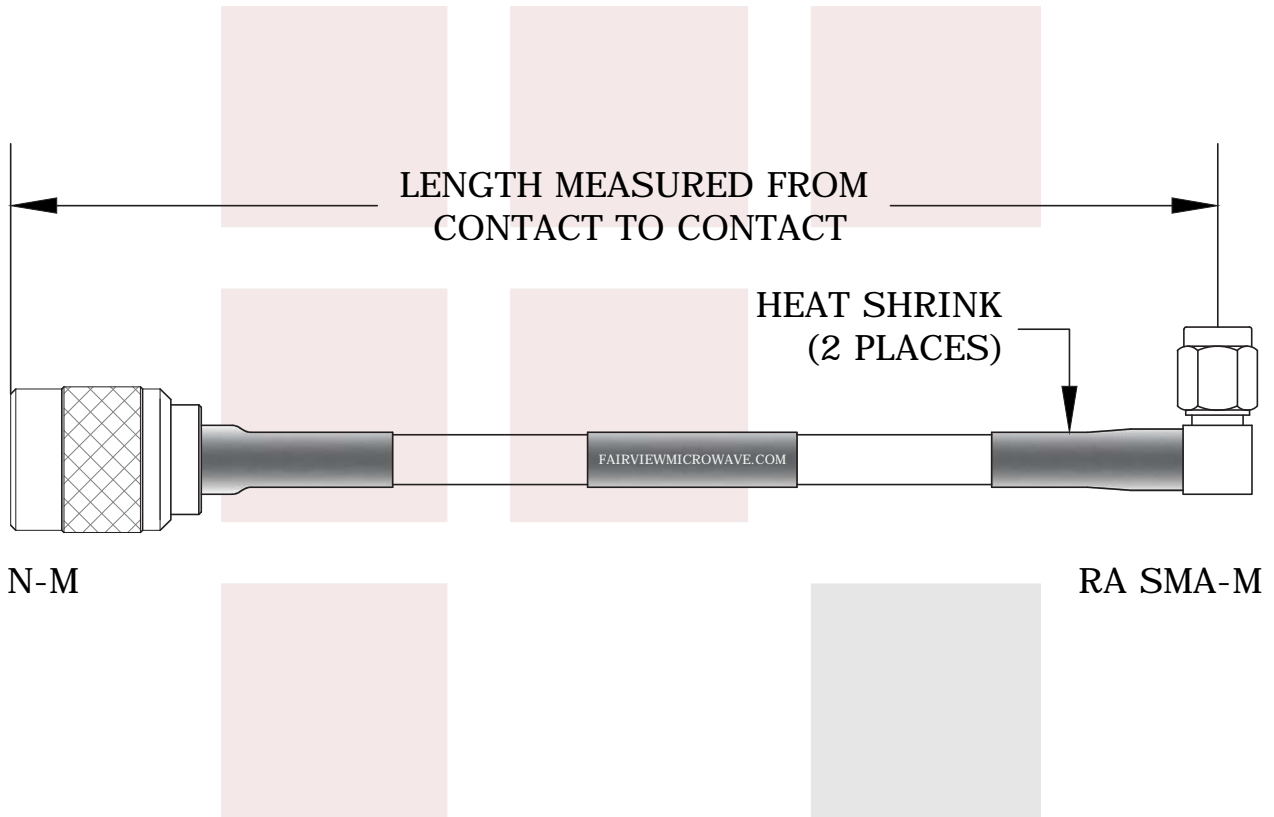
Low Loss N Male to RA SMA Male Cable LMR-240 Coax in 48 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss N Male to RA SMA Male Cable LMR-240 Coax in 48 Inch FMCA2201-48](#)

URL: <https://www.fairviewmicrowave.com/low-loss-n-male-ra-sma-male-cable-lmr240-coax-fmca2201-48-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.





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TITLE Low Loss N Male to RA SMA Male Cable LMR-240 Coax in 48 Inch		DWG NO <b>FMC0104240</b>		CAGE CODE <b>3FKR5</b>	
CAD FILE	101614	SHEET	SCALE	N/A	SIZE A 5568