

Low Loss N Male to RP SMA Male Cable LMR-240 Coax in 12 Inch with LF Solder

The type N male to RP SMA male 12 inch cable using LMR-240 coax, part number FMC00441LF-12, from Fairview Microwave is in-stock and ships same day. This Fairview type N to reverse polarity 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 FMC00441LF-12 type N male to reverse polarity SMA male cable assembly operates to 6 GHz. 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		6	GHz
VSWR			1.35:1	
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		3.2 [10.5]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω /1000ft [Ω /Km]
Jacket Spark			5,000	Vrms

Mechanical Specifications

Cable Assembly	
Length*	12 in [304.8 mm]
Cable	
Cable Type	LMR-240
Impedance	50 Ohms
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]
Tensile Strength	80 lbs [36.29 Kg]



Configuration:

- N Male
- SMA Male Reverse Polarity
- LMR-240

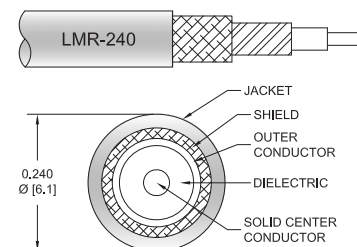
Features:

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket
- N Male to N Male
- Times© LMR-240 Flexible Low Loss Coax
- Heat Shrink Booting
- VoP of 84%
- Custom lengths available

Applications:

- General Purpose
- Laboratory Use
- General Purpose
- Wireless Communications
- Lab Use
- Equipment Interconnect

Cable Diagram:



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
sales@fairviewmicrowave.com

Connectors

Description	Connector 1	Connector 2
Type	N Male	SMA Male
Polarity		Reverse Polarity
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Gold	Gold
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Gold	Brass, Gold
Coupling Nut Material & Plating	Brass, Gold	Brass, Gold
Hex Size	5/16 in.	5/16 in.
Torque	5 in-lbs 0.57 Nm	5 in-lbs 0.57 Nm

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMC00441LF - xx uu

cm = Centimeters
 <blank> = Inches
 Length

Example: FMC00441LF-12 = 12 inches long cable
 FMC00441LF-100cm = 100 cm long cable

Low Loss N Male to RP SMA Male Cable LMR-240 Coax in 12 Inch with LF Solder 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 N Male to RP SMA Male Cable LMR-240 Coax in 12 Inch with LF Solder FMC00441LF-12](#)

URL: <https://www.fairviewmicrowave.com/low-loss-n-male-sma-male-cable-lmr240-coax-fmc00441lf-12-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.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	4/29/2020	S.ELLIS

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Fairview Microwave™ an INFINITE brand TITLE Low Loss N Male to RP SMA Male Cable LMR-240 Coax in 12 Inch with LF Solder	UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: .X = ±.2 [5.08] .XX = ±.02 [.51] .XXX = ±.005 [.13] FRACTIONS ± 1/32 ANGLES ± 1° CABLE LENGTH (L) TOLERANCES: L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0 ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. <table><tr><td>SIZE</td><td>CAGE CODE</td><td>DRAWN BY</td><td>ITEM NO.</td><td>REV</td></tr><tr><td>A</td><td>3FKR5</td><td>K.DANG</td><td>FMC00441LF</td><td>A</td></tr></table>	SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV	A	3FKR5	K.DANG	FMC00441LF	A	THIRD-ANGLE PROJECTION THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. <table><tr><td>SHEET</td><td>1</td><td>OF</td><td>1</td></tr><tr><td>SCALE</td><td colspan="3">N/A</td></tr></table>	SHEET	1	OF	1	SCALE	N/A		
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301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

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