

## Low Loss SMA Male to SMA Male Cable

### LMR-240 Coax in 48 Inch with Times Microwave Connectors with LF Solder

The SMA male to SMA male 48 inch cable using LMR-240 coax, part number FMC0202240LF-48, from Fairview Microwave is in-stock and ships same day. This Fairview SMA 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 FMC0202240LF-48 SMA male to SMA male cable assembly operates to 6 GHz. General purpose flexible LMR-240 cable assemblies are built using high quality connectors and Times Microwave cable. These cable assemblies are built using double shielded flexible cable providing excellent shielding greater than 90 dB. These general purpose cables are intended for, lab use, equipment interconnect and anywhere that lower insertion loss and greater shielding effectiveness than standard RG type cable is required.

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
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]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		3.89 [12.76]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Current			3	Amps

### Mechanical Specifications

#### Cable Assembly

Length*	48 in [121.92 cm]
Weight	0.17 lbs [77.11 g]

#### 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	1
Shield Layer 1	Tinned Copper
Shield Layer 2	Aluminum Tape
Jacket Material	PE, Black
Jacket Diameter	0.24 in [6.1 mm]

Repeated Minimum Bend Radius	48 in [121.92 cm]
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### Configuration:

- SMA Male
- SMA Male
- LMR-240

### Features:

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- PE Jacket
- SMA Male to SMA 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](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

## Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Configuration	Straight	Straight
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Hex Size	5/16 inch	5/16 inch

## Environmental Specifications

### Temperature

Operating Range -40 to +85 deg C

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration: **FMC0202240LF - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

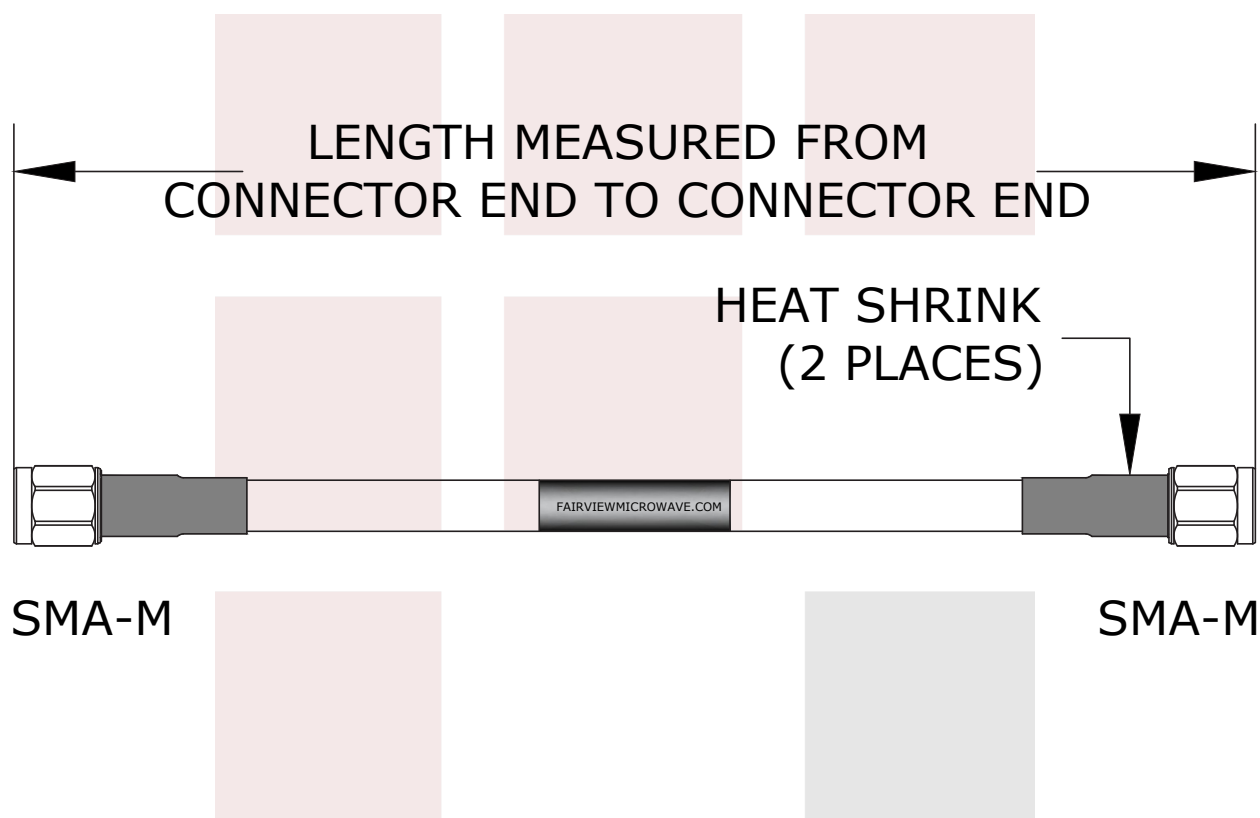
Example: FMC0202240LF-12 = 12 inches long cable  
 FMC0202240LF-100cm = 100 cm long cable

Low Loss SMA Male to SMA Male Cable LMR-240 Coax in 48 Inch with Times Microwave Connectors 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 SMA Male to SMA Male Cable LMR-240 Coax in 48 Inch with Times Microwave Connectors with LF Solder FMC0202240LF-48](#)

URL: <https://www.fairviewmicrowave.com/standard-sma-male-sma-male-cable-lmr240-coax-fmc0202240lf-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 SMA Male to SMA Male Cable LMR-240 Coax in 48 Inch with Times Microwave Connectors with LF Solder		DWG NO FMC0202240LF		CAGE CODE 3FKR5	
CAD FILE	101414	SHEET	SCALE	N/A	SIZE A 5568