

## Low Loss RA SMA Male to BNC Male Cable

### LMR-240 Coax with Times Microwave Components with LF Solder

The RA SMA male to BNC male cable using LMR-240 coax, part number FMC0408240/SP, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to BNC 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 FMC0408240/SP SMA male to BNC male cable assembly operates to 4 GHz. The right angle SMA interface on the LMR-240 cable allows for easier connections in tight spaces.

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		4	GHz
VSWR			1.4:1	
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]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.023	0.039	0.055	0.079	0.163	dB/ft
	0.08	0.13	0.18	0.26	0.53	dB/m

#### Electrical Specification Notes:

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

### Mechanical Specifications

#### Cable Assembly

Weight 0.085 lbs [38.56 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



### Configuration:

- SMA Male Right Angle
- BNC Male
- LMR-240

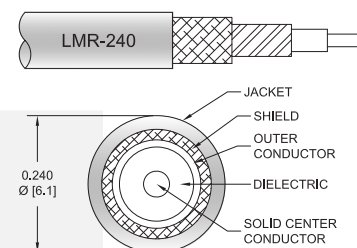
### Features:

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- PE Jacket

### Applications:

- General Purpose
- Laboratory Use

### Cable Diagram:



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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	SMA Male	BNC Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass/Phosphor Bronze, Gold	Brass, Gold
Contact Plating Spec.	50 µinch	
Dielectric Type	Teflon	PTFE
Outer Cond Material & Plating		Brass, Tri-Metal
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	80 µinch	
Coupling Nut Material & Plating	Brass, Tri-Metal	
Coupling Nut Plating Spec.	80 µinch	

### 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:

**FMC0408240/SP - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMC0408240/SP-12 = 12 inches long cable  
 FMC0408240/SP-100cm = 100 cm long cable

Low Loss RA SMA Male to BNC Male Cable LMR-240 Coax with Times Microwave Components 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 RA SMA Male to BNC Male Cable LMR-240 Coax with Times Microwave Components with LF Solder FMC0408240/SP](https://www.fairviewmicrowave.com/low-loss-ra-sma-male-to-bnc-male-cable-lmr-240-coax-with-times-microwave-components-with-lf-solder-fmc0408240-sp-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-loss-ra-sma-male-to-bnc-male-cable-lmr-240-coax-with-times-microwave-components-with-lf-solder-fmc0408240-sp-p.aspx>

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