

## SMA Male to BNC Male Cable LMR-240 Coax in 48 Inch

The SMA male to BNC male 48 inch cable using LMR-240 coax, part number FMC00337-48, 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 FMC00337-48 SMA male to BNC male cable assembly operates to 5.8 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  |              | 5.8   | GHz                              |
| VSWR                          |     |              | 1.4:1 |                                  |
| 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]   |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |     | 3.89 [12.76] |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |     |              | 5,000 | 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.) | 0.35 | 0.42 | 0.51 | 0.71 | 1.01 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 48 in [121.92 cm]

#### Cable

Cable Type LMR-240  
 Impedance 50 Ohms  
 Inner Conductor Type Solid



### Configuration:

- SMA Male
- BNC Male
- 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 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]      |

### Connectors

| Description                     | Connector 1            | Connector 2      |
|---------------------------------|------------------------|------------------|
| Type                            | SMA Male               | BNC Male         |
| Specification                   | MIL-STD-348A           |                  |
| Impedance                       | 50 Ohms                | 50 Ohms          |
| Contact Material & Plating      | Beryllium Copper, Gold | Brass, Gold      |
| Contact Plating Spec.           | 50 µin minimum         |                  |
| Dielectric Type                 | PTFE                   | PTFE             |
| Outer Cond Material & Plating   |                        | Brass, Tri-Metal |
| Body Material & Plating         | Brass, Gold            | Brass, Tri-Metal |
| Body Plating Spec.              | 3 µin minimum          |                  |
| Coupling Nut Material & Plating | Brass, Gold            |                  |
| Coupling Nut Plating Spec.      | 3 µin minimum          |                  |
| Hex Size                        | 5/16 inch              |                  |

### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

### Environmental Specifications

#### Temperature

|                 |                  |
|-----------------|------------------|
| Operating Range | -40 to +85 deg C |
| Storage Range   | -70 to +85 deg C |

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

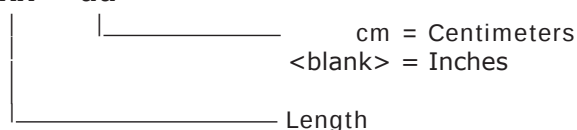
### Plotted and Other Data

Notes:

### How to Order

Part Number Configuration:

**FMC00337 - xx uu**



Example: FMC00337-12 = 12 inches long cable  
 FMC00337-100cm = 100 cm long cable

SMA Male to BNC 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: [SMA Male to BNC Male Cable LMR-240 Coax in 48 Inch FMC00337-48](https://www.fairviewmicrowave.com/sma-male-bnc-male-cable-lmr240-coax-fmc00337-48-p.aspx)

URL: <https://www.fairviewmicrowave.com/sma-male-bnc-male-cable-lmr240-coax-fmc00337-48-p.aspx>

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