

## RA SMA Male to RA BNC Male Cable RG-58 Coax in 48 Inch

The RA SMA male to RA BNC male 48 inch cable using RG-58 coax, part number FMC00330-48, 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 RG58C/U coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00330-48 SMA male to BNC male cable assembly operates to 3 GHz. The right angle SMA and right angle BNC interfaces on the RG58C/U cable allow 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   |          | 3     | GHz          |
| VSWR                    |      |          | 1.4:1 |              |
| Velocity of Propagation |      | 66       |       | %            |
| Capacitance             | 30.8 | [101.05] |       | pF/ft [pF/m] |
| Operating Voltage (AC)  |      |          | 500   | Vrms         |

### Performance by Frequency

| Description           | F1  | F2   | F3  | F4  | F5   | Units |
|-----------------------|-----|------|-----|-----|------|-------|
| Frequency             | 0.1 | 0.25 | 0.5 | 1   | 3    | GHz   |
| Insertion Loss (Max.) | 0.6 | 0.68 | 0.8 | 1.2 | 1.92 | 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 0.2 dB per connector.

### Mechanical Specifications

#### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 48 in [121.92 cm]  |
| Diameter | 0.571 in [14.5 mm] |

#### Cable

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | RG58C/U             |
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Stranded            |
| Inner Conductor Material and Plating | Copper, Tin         |
| Dielectric Type                      | PE                  |
| Number of Shields                    | 1                   |
| Shield Layer 1                       | Tinned Copper Braid |
| Jacket Material                      | PVC, Black          |



### Configuration:

- SMA Male Right Angle
- BNC Male Right Angle
- RG58C/U

### Features:

- Max Frequency 3 GHz
- 66% Phase Velocity
- PVC Jacket

### Applications:

- General Purpose
- Laboratory Use

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)

Jacket Diameter 0.195 in [4.95 mm]

## Connectors

| Description                     | Connector 1    | Connector 2      |
|---------------------------------|----------------|------------------|
| Type                            | SMA Male       | BNC Male         |
| Specification                   | MIL-STD-348A   | MIL-STD-348A     |
| Impedance                       | 50 Ohms        | 50 Ohms          |
| Contact Material & Plating      | Brass, Gold    | Brass, Gold      |
| Contact Plating Spec.           | 50 µin minimum | 30µ in. minimum  |
| Dielectric Type                 | PTFE           | Teflon           |
| Body Material & Plating         | Brass, Gold    | Brass, Nickel    |
| Body Plating Spec.              | 3 µin minimum  | 100µ in. minimum |
| Coupling Nut Material & Plating | Brass, Gold    | Brass, Nickel    |
| Coupling Nut Plating Spec.      | 3 µin minimum  | 100µ in. minimum |
| Hex Size                        | 5/16 inch      |                  |

## Environmental Specifications

### Temperature

Operating Range -40 to +80 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:

**FMC00330 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMC00330-12 = 12 inches long cable  
 FMC00330-100cm = 100 cm long cable

RA SMA Male to RA BNC Male Cable RG-58 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: [RA SMA Male to RA BNC Male Cable RG-58 Coax in 48 Inch FMC00330-48](https://www.fairviewmicrowave.com/ra-sma-male-ra-bnc-male-cable-rg58-coax-fmc00330-48-p.aspx)

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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.



