

## SMA Male to BNC Male Cable RG-58 Coax with Heat Shrink in 24 inch length

The SMA male to BNC male 24 inch cable using RG-58 coax, part number FMC00097-24, 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 FMC00097-24 SMA male to BNC male cable assembly operates to 4 GHz.

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 |      | 66       |       | %            |
| Capacitance             | 30.8 | [101.05] |       | pF/ft [pF/m] |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4  | F5  | Units |
|-----------------------|------|------|------|-----|-----|-------|
| Frequency             | 0.1  | 0.25 | 0.5  | 1   | 4   | GHz   |
| Insertion Loss (Typ.) | 0.17 | 0.25 | 0.38 | 0.6 | 1.4 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of  $0.1 * \sqrt{F(\text{GHz})}$  dB per connector.

### Mechanical Specifications

#### Cable Assembly

|         |                     |
|---------|---------------------|
| Length* | 24 in [609.6 mm]    |
| Weight  | 0.073 lbs [33.11 g] |

#### 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          |
| Jacket Diameter                      | 0.195 in [4.95 mm]  |



### Configuration:

- SMA Male
- BNC Male
- RG58C/U

### Features:

- Max Frequency 4 GHz
- 66% Phase Velocity
- PVC Jacket

### Applications:

- General Purpose
- Laboratory Use

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## Connectors

| Description                     | Connector 1                      | Connector 2     |
|---------------------------------|----------------------------------|-----------------|
| Type                            | SMA Male                         | BNC Male        |
| Specification                   |                                  | MIL-STD-348A    |
| Impedance                       | 50 Ohms                          | 50 Ohms         |
| Contact Material & Plating      | Brass, Gold                      | Brass, Gold     |
| Contact Plating Spec.           | ASTM B488                        | 30 µin minimum  |
| Dielectric Type                 | PTFE                             | PTFE            |
| Outer Cond Material & Plating   | Passivated Stainless Steel, Gold |                 |
| Body Material & Plating         | Passivated Stainless Steel, Gold | Brass, Nickel   |
| Body Plating Spec.              |                                  | 100 µin minimum |
| Coupling Nut Material & Plating | Passivated Stainless Steel       | Brass, Nickel   |
| Coupling Nut Plating Spec.      |                                  | 100 µin 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:

## How to Order

Part Number Configuration:

**FMC00097 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMC00097-12 = 12 inches long cable  
 FMC00097-100cm = 100 cm long cable

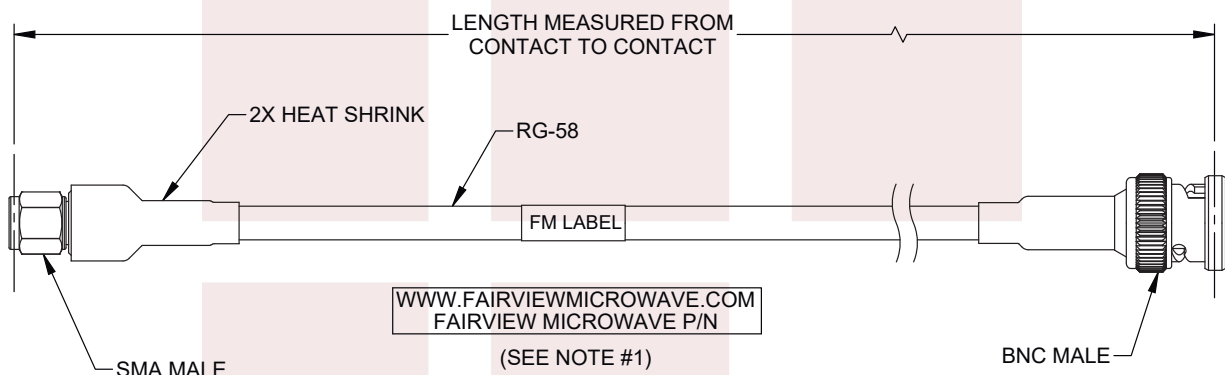
SMA Male to BNC Male Cable RG-58 Coax with Heat Shrink in 24 inch length from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMA Male to BNC Male Cable RG-58 Coax with Heat Shrink in 24 inch length FMC00097-24](#)

URL: <https://www.fairviewmicrowave.com/sma-male-to-bnc-male-cable-rg-58-coax-in-24-inch-fmc00097-24-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 | 11/11/2021 | SRAUTUS  |



- NOTES:
1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED.  
CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END  
6.0" FROM THE END OF THE CONNECTOR.

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|                                                                                     |  |                                                                                                       |  |                                                                                                                                            |  |
|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------|--|
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| <p>TITLE</p>                                                                        |  | <p>TOLERANCES:</p>                                                                                    |  | <p>THE INFORMATION AND<br/>DESIGN IN THIS DOCUMENT<br/>IS THE PROPERTY OF<br/>FAIRVIEW MICROWAVE CORPORATION.<br/>ALL RIGHTS RESERVED.</p> |  |
| <p>SMA Male to BNC Male Cable RG-58 Coax with Heat<br/>Shrink in 24 inch length</p> |  | <p>CABLE LENGTH (L) TOLERANCES:</p>                                                                   |  | <p>SHEET 1 OF 1</p>                                                                                                                        |  |
| <p>SIZE A</p>                                                                       |  | <p>CAGE CODE 3FKR5</p>                                                                                |  | <p>SCALE N/A</p>                                                                                                                           |  |
| <p>DRAWN BY DMAY</p>                                                                |  | <p>ITEM NO. FMC00097</p>                                                                              |  | <p>REV A</p>                                                                                                                               |  |