

SMA Female to RA BNC Male Cable RG-58 Coax

The SMA female to RA BNC male cable using RG-58 coax, part number FMC00291, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to BNC cable assembly has a female 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 FMC00291 SMA female to BNC male cable assembly operates to 3 GHz. The right angle BNC interface on the RG58C/U 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 | | 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.) | 0.1 | 0.1 | 0.1 | 0.2 | 0.4 | dB/ft |
| | 0.16 | 0.23 | 0.33 | 0.66 | 1.25 | 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 SMA Female connector and 0.2 dB for the BNC Male connector.

Mechanical Specifications

Cable Assembly

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
 Jacket Diameter 0.195 in [4.95 mm]



Configuration:

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

Features:

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

Applications:

- General Purpose
- Laboratory Use

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Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------|------------------------|------------------|
| Type | SMA Female | BNC Male |
| Specification | | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Beryllium Copper, Gold | Brass, Gold |
| Contact Plating Spec. | 50µ in. minimum | 30µ in. minimum |
| Dielectric Type | PTFE | Teflon |
| Body Material & Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Spec. | 100µ in. minimum | 100µ in. minimum |
| Coupling Nut Material & Plating | | Brass, Nickel |
| Coupling Nut Plating Spec. | | 100µ in. minimum |

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:

FMC00291 - xx uu

cm = Centimeters
<blank> = Inches
Length

Example: FMC00291-12 = 12 inches long cable
FMC00291-100cm = 100 cm long cable

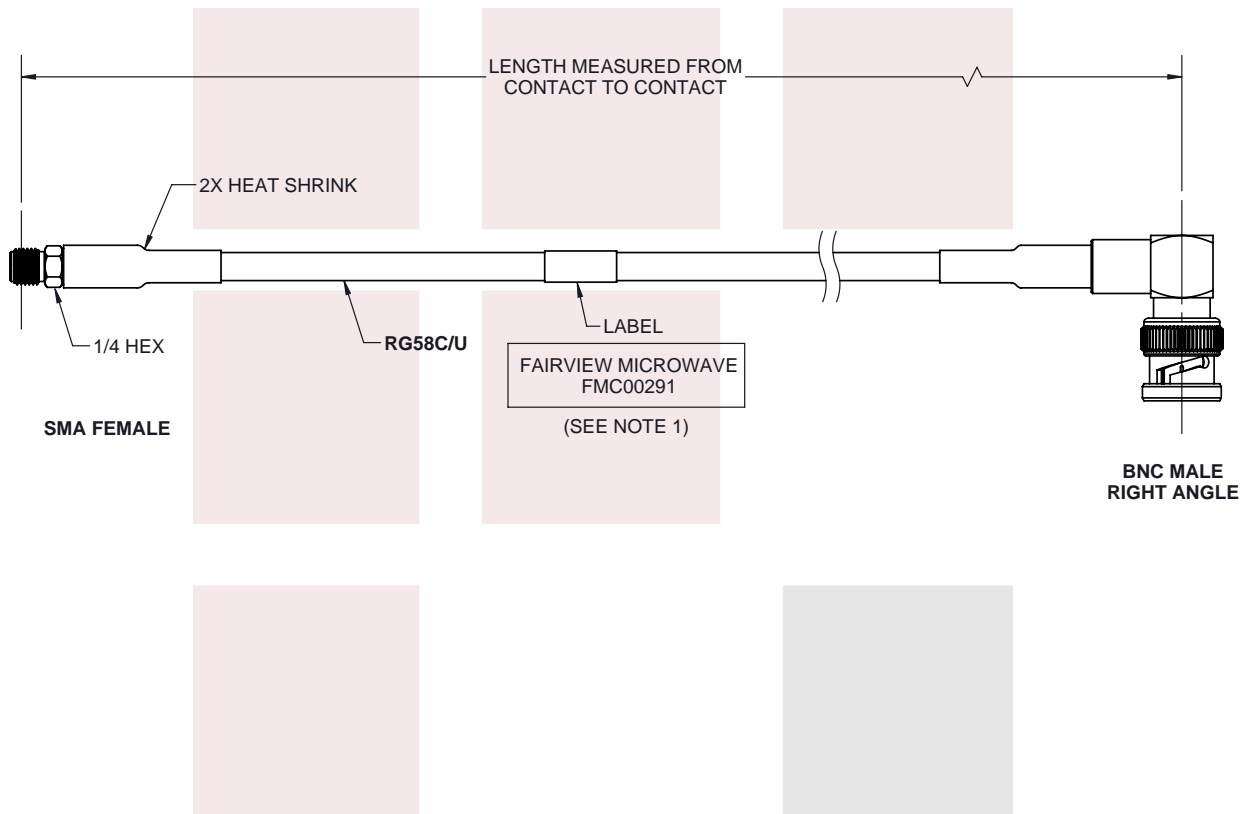
SMA Female to RA BNC Male Cable RG-58 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMA Female to RA BNC Male Cable RG-58 Coax FMC00291](#)

URL: <https://www.fairviewmicrowave.com/sma-female-ra-bnc-male-cable-rg58-coax-fmc00291-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 | 09/08/20 | S.ELLIS |



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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| | | | | |
|---|---|--------------------|---|---|
| <p>Fairview Microwave an INFINIT[®] brand</p> | UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | | THIRD-ANGLE PROJECTION | |
| | TOLERANCES: | | CABLE LENGTH (L) TOLERANCES: | |
| TITLE | .X = ±.2 [.508] | FRACTIONS ± 1/32 | L ≤ 12 [305] = +1 [25] / -0 | THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. SHEET 1 OF 1 |
| SMA Female to RA BNC Male Cable RG-58 Coax | .XX = ±.02 [.51] | ANGLES ± 1° | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 | |
| | .XXX = ±.005 [.13] | | 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 | SCALE N/A |
| | | | 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 | |
| | | | 300 [7620] < L = +5%L / -0 | |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | | | | |
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY BPUCHASKI | ITEM NO. FMC00291 | REV A |

T-Rev.D