

## SMA Male to BNC Male Cable RG-58 Coax with Heat Shrink in 100 CM length

The SMA male to BNC male 100 cm cable using RG-58 coax, part number FMC00097-100CM, 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 FMC00097-100CM 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.)	0.23	0.35	0.53	0.86	2.05	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  $0.1 * \text{SQRT}(F\text{GHz})$  dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length*	39.37 in [100 cm]
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**

<b>Description</b>	<b>Connector 1</b>	<b>Connector 2</b>
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 $\mu$ in 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 $\mu$ in minimum
Coupling Nut Material & Plating	Passivated Stainless Steel	Brass, Nickel
Coupling Nut Plating Spec.		100 $\mu$ in minimum
Hex Size	5/16 Inch	

**Environmental Specifications**
**Temperature**

Operating Range -40 to +80 deg C

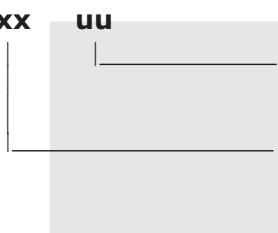
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**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

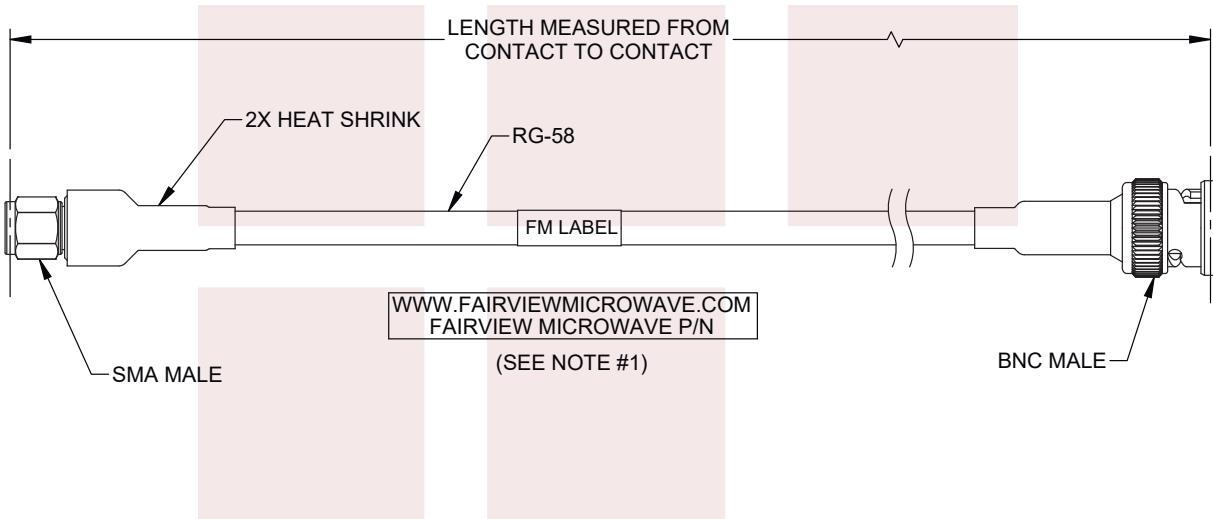
SMA Male to BNC Male Cable RG-58 Coax with Heat Shrink in 100 CM length from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMA Male to BNC Male Cable RG-58 Coax with Heat Shrink in 100 CM length FMC00097-100CM](#)

URL: <https://www.fairviewmicrowave.com/sma-male-to-bnc-male-cable-rg-58-coax-in-100-cm-fmc00097-100cm-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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<p><b>Fairview Microwave</b> an INFINITE brand</p> <p>TITLE</p> <p>SMA Male to BNC Male Cable RG-58 Coax with Heat Shrink in 100 CM length</p>	UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS		 THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. SHEET 1 OF 1
	TOLERANCES:	CABLE LENGTH (L) TOLERANCES:	
	X = ± 2 [ .08 ] XX = ± .02 [ .51 ] XXX = ± .005 [ .13 ]	FRACTIONS ± 1/32 ANGLES ± 1°	L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0
	ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SCALE N/A
SIZE A	CAGE CODE 3FKR5	DRAWN BY DMAY	ITEM NO. FMC00097 REV A

T-Rev.D