

SMA Female to RA BNC Male Cable RG-58 Coax in 100 cm

The SMA female to RA BNC male 100 cm cable using RG-58 coax, part number FMC00291-100CM, 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 FMC00291-100CM 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.)	0.5	0.5	0.6	1	1.6	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 0.1 dB for the SMA Female connector and 0.2 dB for the BNC Male connector.

Mechanical Specifications

Cable Assembly

Length* 39.37 in [100 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 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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Jacket Diameter 0.195 in [4.95 mm]

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 in 100 cm 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 in 100 cm FMC00291-100CM](#)

URL: <https://www.fairviewmicrowave.com/sma-female-ra-bnc-male-cable-rg58-coax-fmc00291-100cm-p.aspx>

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