

## Flexible SMA Male to RA BNC Male Cable RG142 Coax in 12 Inch

The SMA male to RA BNC male 12 inch cable using RG-142 coax, part number FMC00635-12, 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 RG142 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00635-12 SMA male to BNC male cable assembly operates to 4 GHz. The right angle BNC interface on the RG142 cable allows for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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		70		%
Capacitance		29.39 [96.42]		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	4	GHz
Insertion Loss (Typ.)	0.29	0.31	0.34	0.38	0.53	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 0.15 dB for the right angle connector and 0.1 dB for the straight connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 12 in [304.8 mm]  
 Diameter 0.571 in [14.5 mm]

#### Cable

Cable Type RG142  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 2



### Configuration:

- SMA Male
- BNC Male Right Angle
- RG142

### Features:

- Max Frequency 4 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

### Applications:

- General Purpose
- Laboratory Use

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Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.195 in [4.95 mm]

Repeated Minimum Bend Radius	1 in [25.4 mm]
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### 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	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Gold	Brass, Nickel
Body Plating Spec.	3 µin minimum	100 µin minimum
Coupling Nut Material & Plating	Brass, Gold	Brass, Nickel
Coupling Nut Plating Spec.	3 µin minimum	100 µin minimum
Hex Size	5/16 inch	
Torque	3 in-lbs 0.34 Nm	

### Environmental Specifications

#### Temperature

Operating Range	-55 to +200 deg C
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### Compliance Certifications

(see [product page](#) for current document)

### Plotted and Other Data

Notes:

### How to Order

Part Number Configuration:

**FMC00635 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMC00635-12 = 12 inches long cable  
 FMC00635-100cm = 100 cm long cable

Flexible SMA Male to RA BNC Male Cable RG142 Coax in 12 Inch 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: [Flexible SMA Male to RA BNC Male Cable RG142 Coax in 12 Inch FMC00635-12](#)

URL: <https://www.fairviewmicrowave.com/sma-male-ra-bnc-male-cable-rg142-coax-fmc00635-12-p.aspx>

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