

Flexible SMA Male to RA BNC Male Cable RG142 Coax in 48 Inch

The SMA male to RA BNC male 48 inch cable using RG-142 coax, part number FMC00635-48, 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 FMC00635-48 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.)	0.41	0.49	0.6	0.77	1.37	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*	48 in [121.92 cm]
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]

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 μ in minimum	30 μ in minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Gold	Brass, Nickel
Body Plating Spec.	3 μ in minimum	100 μ in minimum
Coupling Nut Material & Plating	Brass, Gold	Brass, Nickel
Coupling Nut Plating Spec.	3 μ in minimum	100 μ in minimum
Hex Size	5/16 inch	
Torque	3 in-lbs 0.34 Nm	

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C

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

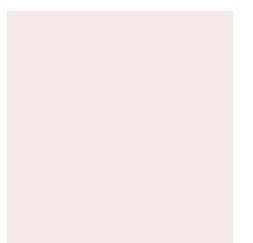
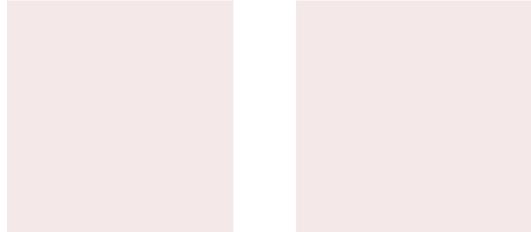
Example: FMC00635-12 = 12 inches long cable
FMC00635-100cm = 100 cm long cable

Flexible SMA Male to RA BNC Male Cable RG142 Coax in 48 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.

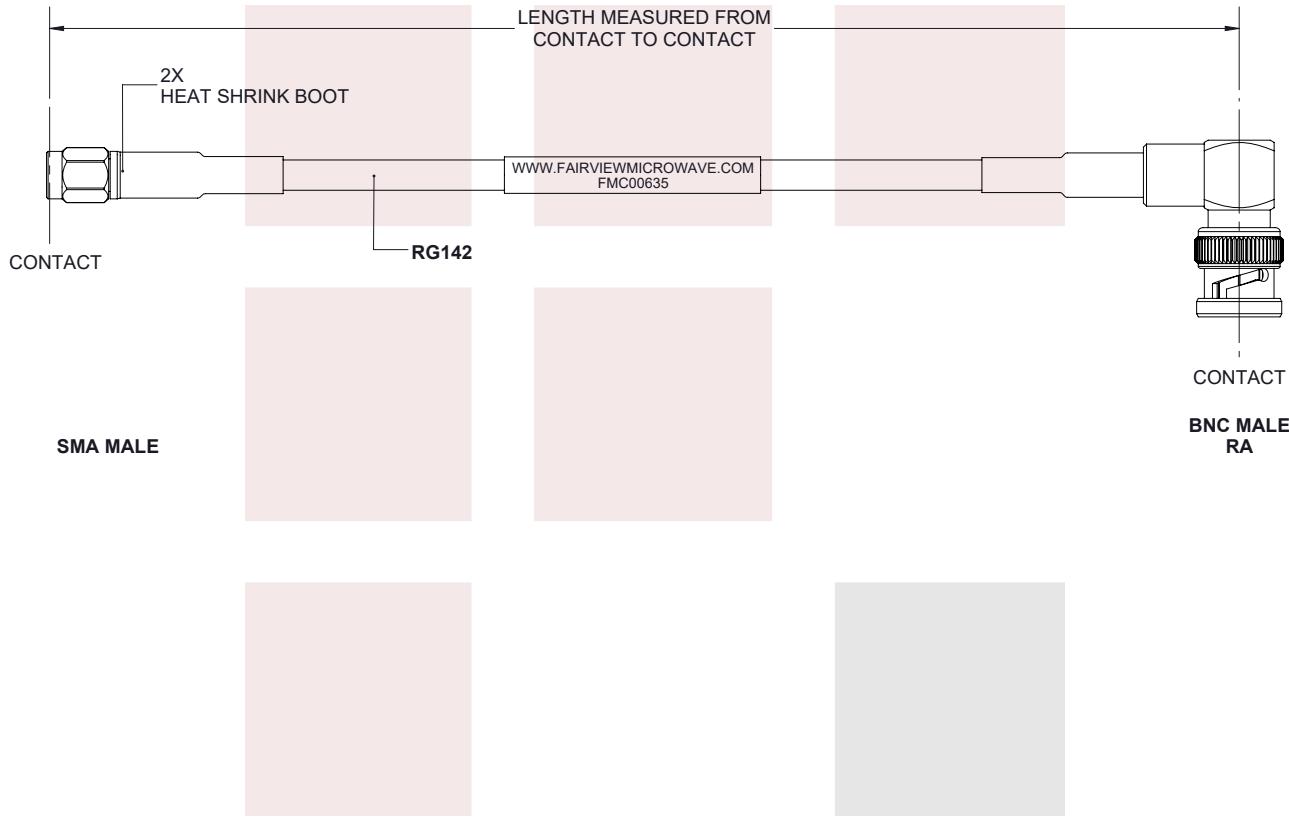
Click the following link to obtain additional part information: [Flexible SMA Male to RA BNC Male Cable RG142 Coax in 48 Inch FMC00635-48](#)

URL: <https://www.fairviewmicrowave.com/sma-male-ra-bnc-male-cable-rg142-coax-fmc00635-48-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	4/16/2021	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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	TOLERANCES: $.X = \pm .2$ [5.08] FRACTIONS $.XX = \pm .02$ [.51] $\pm 1/32$ $.XXX = \pm .005$ [.13] ANGLES $\pm 1^\circ$	CABLE LENGTH (L) TOLERANCES: $L \leq 12$ [305] = ± 1 [25] / -0 $12 [305] < L \leq 60$ [1524] = ± 2 [51] / -0 $60 [1524] < L \leq 120$ [3048] = ± 4 [102] / -0 $120 [3048] < L \leq 300$ [7620] = ± 6 [152] / -0 $300 [7620] < L = \pm 5\%L$ / -0	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SCALE	N/A
SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMC00635 REV A

T-Rev.D