

SMA Female to RA N Male Cable RG-58 Coax in 50 cm

The SMA female to RA type N male 50 cm cable using RG-58 coax, part number FMC00247-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to type N 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 FMC00247-50CM SMA female to type N male cable assembly operates to 1 GHz. The right angle type N 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		1,000	MHz
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	50	100	250	500	1,000	MHz
Insertion Loss (Max.)	0.34	0.38	0.4	0.48	0.63	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 N Male connector.

Mechanical Specifications

Cable Assembly

Length* 19.68 in [499.87 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
- N Male Right Angle
- RG58C/U

Features:

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket

Applications:

- General Purpose
- Laboratory Use

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Connectors

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

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:

FMC00247 - xx uu

cm = Centimeters
<blank> = Inches
Length

Example: FMC00247-12 = 12 inches long cable
FMC00247-100cm = 100 cm long cable

SMA Female to RA N Male Cable RG-58 Coax in 50 cm from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic 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 N Male Cable RG-58 Coax in 50 cm FMC00247-50CM](#)

URL: <https://www.fairviewmicrowave.com/sma-female-ra-n-male-cable-rg58-coax-fmc00247-50cm-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	09/03/20	SELLIS

LENGTH MEASURED FROM CONTACT TO CONTACT

2X HEAT SHRINK

1/4 HEX

RG58C/U

LABEL

FAIRVIEW MICROWAVE FMC00247 (SEE NOTE 1)

SMA FEMALE

TYPE N MALE RIGHT ANGLE

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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Fairview Microwave

an INFINITE brand

TITLE

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
.X = ±.2 [5.08]	FRACTIONS ± 1/32	L ≤ 12 [305] = +1 [25] / -0	
.XX = ±.02 [.51]		12 [305] < L ≤ 60 [1524] = +2 [51] / -0	
.XXX = ±.005 [.13]	ANGLES ± 1°	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.

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	BPUCHASKI	FMC00247	A

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A