

## SMA Female to RA N Male Cable RG-58 Coax in 60 Inch

The SMA female to RA type N male 60 inch cable using RG-58 coax, part number FMC00247-60, 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 FMC00247-60 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.) | 0.41 | 0.55 | 0.6 | 0.85 | 1.3   | 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\* 60 in [152.4 cm]

#### 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 60 Inch 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 60 Inch FMC00247-60](#)

URL: <https://www.fairviewmicrowave.com/sma-female-ra-n-male-cable-rg58-coax-fmc00247-60-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   |

**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

SMA Female to RA N Male Cable RG-58 Coax in 60  
Inch

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

TOLERANCES:

CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [ .08 ] FRACTIONS  
.XX = ±.02 [ .51 ] ± 1/32  
.XXX = ±.005 [ .13 ] 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.

SIZE  
A

CAGE CODE  
3FKR5

DRAWN BY  
BPUCHASKI

ITEM NO.  
FMC00247

REV  
A

THIRD-ANGLE PROJECTION

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SHEET  
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OF  
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SCALE  
N/A

T-Rev.D

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