

## RA N Male to BNC Male Cable RG-58 Coax with Heat Shrink in 50 CM length

The RA type N male to BNC male 50 cm cable using RG-58 coax, part number FMC00159-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview type N to BNC cable assembly has a male 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 FMC00159-50CM type N male to BNC 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 (Typ.) | 0.1 | 0.15 | 0.23 | 0.34 | 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 insertion loss of 0.1\*SQRT(FGHz) dB per connector.

### Mechanical Specifications

#### Cable Assembly

|         |                      |
|---------|----------------------|
| Length* | 19.68 in [499.87 mm] |
| Weight  | 0.182 lbs [82.55 g]  |

#### 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:

- N Male Right Angle
- BNC Male
- RG58C/U

### Features:

- Max Frequency 1 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                            | N 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.           |               | 30 µin minimum  |
| Dielectric Type                 | Teflon        | PTFE            |
| Body Material & Plating         | Brass, Nickel | Brass, Nickel   |
| Body Plating Spec.              |               | 100 µin minimum |
| Coupling Nut Material & Plating | Brass, Nickel | Brass, Nickel   |
| Coupling Nut Plating Spec.      |               | 100 µin minimum |

### Environmental Specifications

#### Temperature

Operating Range -40 to +80 deg C

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

### Plotted and Other Data

Notes:

### How to Order

Part Number Configuration:

**FMC00159 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMC00159-12 = 12 inches long cable  
 FMC00159-100cm = 100 cm long cable

RA N Male to BNC Male Cable RG-58 Coax with Heat Shrink in 50 CM length 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.

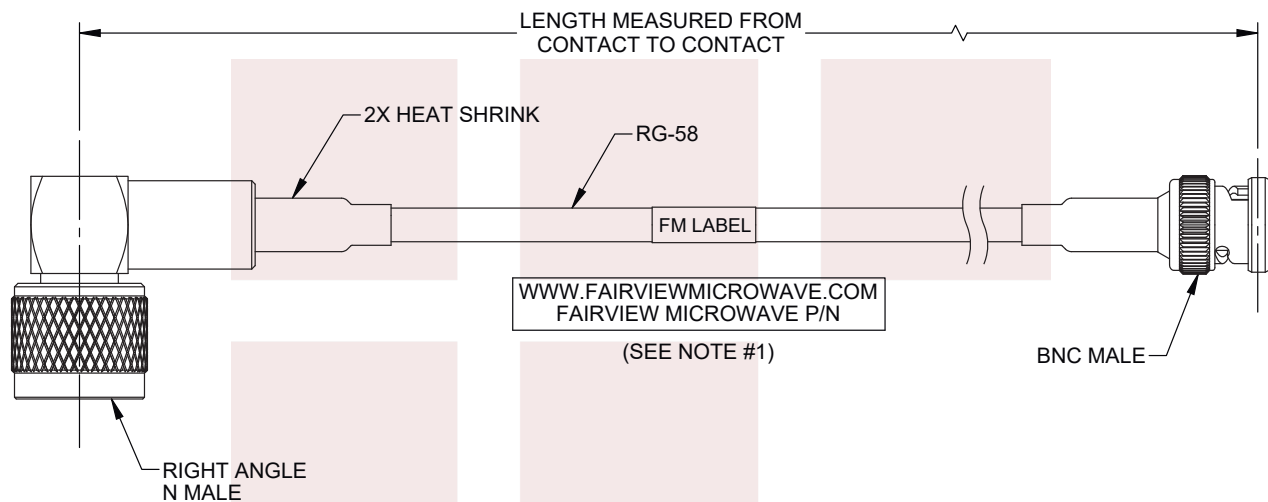
Click the following link to obtain additional part information: [RA N Male to BNC Male Cable RG-58 Coax with Heat Shrink in 50 CM length FMC00159-50CM](#)

URL: <https://www.fairviewmicrowave.com/ra-n-male-to-bnc-male-cable-rg-58-coax-in-50-cm-fmc00159-50cm-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 |
| B         | UPDATE HEATSHRINK | 1/10/22 | SRAUTUS  |



- 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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TITLE

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

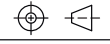
TOLERANCES:

.X = ±.2 [5.08] FRACTIONS  
.XX = ±.02 [.51] ± 1/32  
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

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

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|------|-----------|----------|----------|-----|
| A    | 3FKR5     | DMAY     | FMC00159 | B   |

T-Rev.D