

## RA BNC Male to RA BNC Male Cable LMR-200 Coax in 200 CM

The RA BNC male to RA BNC male 200 cm cable using LMR-200 coax, part number FMC00402-200CM, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to BNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-200 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00402-200CM BNC male to BNC male cable assembly operates to 5.8 GHz. The right angle BNC interfaces on the LMR-200 cable allow for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB.

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  |              | 5.8   | GHz                              |
| VSWR                          |     |              | 1.4:1 |                                  |
| Velocity of Propagation       |     | 83           |       | %                                |
| RF Shielding                  | 90  |              |       | dB                               |
| Group Delay                   |     | 1.22 [4]     |       | ns/ft [ns/m]                     |
| Capacitance                   |     | 24.5 [80.38] |       | pF/ft [pF/m]                     |
| Inductance                    |     | 0.061 [0.2]  |       | uH/ft [uH/m]                     |
| DC Resistance Inner Conductor |     | 5.36 [17.59] |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |     | 4.9 [16.08]  |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |     |              | 3,000 | Vrms                             |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4  | F5   | Units |
|-----------------------|------|------|------|-----|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5 | 5.8  | GHz   |
| Insertion Loss (Typ.) | 0.73 | 0.88 | 1.08 | 1.5 | 2.13 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 78.73 in [199.97 cm]  
 Diameter 1.076 in [27.33 mm]

#### Cable

Cable Type LMR-200



### Configuration:

- BNC Male Right Angle
- BNC Male Right Angle
- LMR-200

### Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- PE Jacket

### Applications:

- General Purpose
- Laboratory Use
- Antenna Installations
- Land Mobile Radio & Other Communication Systems
- Cellular & Wi-Fi Systems

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|                                      |                     |
|--------------------------------------|---------------------|
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Solid               |
| Inner Conductor Material and Plating | Copper              |
| Dielectric Type                      | PE (F)              |
| Number of Shields                    | 2                   |
| Shield Layer 1                       | Aluminum Tape       |
| Shield Layer 2                       | Tinned Copper Braid |
| Jacket Material                      | PE, Black           |
| Jacket Diameter                      | 0.195 in [4.95 mm]  |

|                              |                        |
|------------------------------|------------------------|
| One Time Minimum Bend Radius | 0.5 in [12.7 mm]       |
| Repeated Minimum Bend Radius | 2 in [50.8 mm]         |
| Bending Moment               | 0.2 lbs-ft [0.27 N-m]  |
| Flat Plate Crush             | 15 lbs/in [0.27 Kg/mm] |
| Tensile Strength             | 40 lbs [18.14 Kg]      |

### Connectors

| Description                     | Connector 1   | Connector 2     |
|---------------------------------|---------------|-----------------|
| Type                            | BNC Male      | BNC Male        |
| Specification                   | MIL-C-39012   | MIL-C-39012     |
| Impedance                       | 50 Ohms       | 50 Ohms         |
| Contact Material & Plating      | Brass, Gold   | Brass, Gold     |
| Contact Plating Spec.           | 30µ In. Min   | 30µ In. Minimum |
| Dielectric Type                 | PTFE          | PTFE            |
| Outer Cond Material & Plating   | Brass, Nickel | Brass, Nickel   |
| Body Material & Plating         | Brass, Nickel | Brass, Nickel   |
| Coupling Nut Material & Plating | Brass, Nickel | Brass, Nickel   |

### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

### Environmental Specifications

#### Temperature

|                 |                  |
|-----------------|------------------|
| Operating Range | -40 to +85 deg C |
| Storage Range   | -70 to +85 deg C |

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

### Plotted and Other Data

Notes:

### How to Order

Part Number Configuration:

**FMC00402 - xx uu**

\_\_\_\_\_ cm = Centimeters  
 \_\_\_\_\_ <blank> = Inches  
 \_\_\_\_\_ Length

Example: FMC00402-12 = 12 inches long cable  
 FMC00402-100cm = 100 cm long cable

RA BNC Male to RA BNC Male Cable LMR-200 Coax in 200 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.

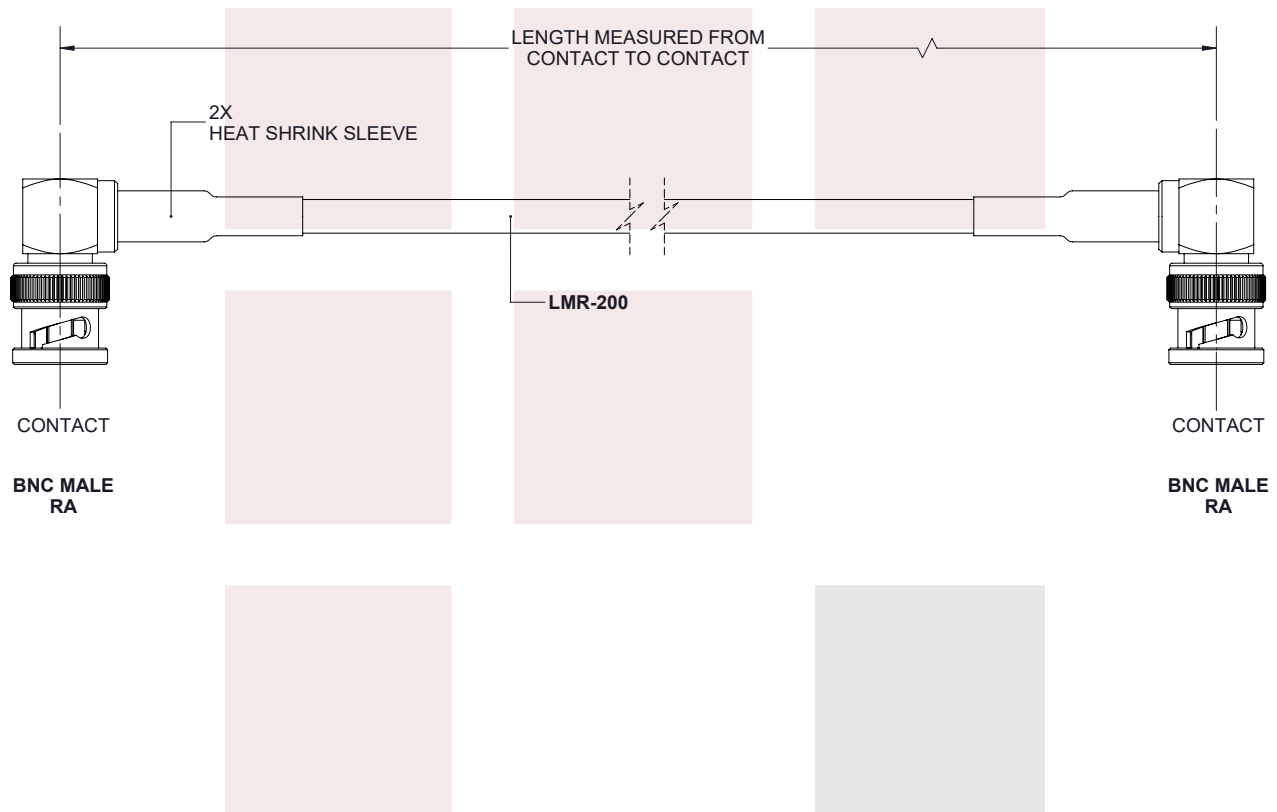
Click the following link to obtain additional part information: [RA BNC Male to RA BNC Male Cable LMR-200 Coax in 200 CM FMC00402-200CM](https://www.fairviewmicrowave.com/ra-bnc-male-ra-bnc-male-cable-lmr200-coax-fmc00402-p.aspx)

URL: <https://www.fairviewmicrowave.com/ra-bnc-male-ra-bnc-male-cable-lmr200-coax-fmc00402-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 | 2/19/2020 | S.ELLIS  |



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

TOLERANCES:

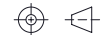
.X = ±.2 [5.08] FRACTIONS  
.XX = ±.02 [.51] ± 1/32  
.XXX = ±.005 [.13] ANGLES ± 1°

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

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|------|-----------|----------|----------|-----|
| A    | 3FKR5     | K.DANG   | FMC00402 | A   |

T-Rev.D