

Low Loss BNC Male to BNC Female Bulkhead Cable RG-142 Coax

The BNC male to BNC female bulkhead cable using RG-142 coax, part number FMC00352, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to BNC cable assembly has a male to female 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 FMC00352 BNC male to BNC female cable assembly operates to 5 GHz. Our RF cable assembly with BNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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 | | 5 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 70 | | % |
| Capacitance | 29.39 [96.42] | | | pF/ft [pF/m] |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.1 | 0.25 | 0.5 | 1 | 5 | GHz |
| Insertion Loss (Typ.) | 0.03 | 0.05 | 0.08 | 0.12 | 0.32 | dB/ft |
| | 0.1 | 0.16 | 0.26 | 0.39 | 1.05 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Diameter 0.689 in [17.5 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
 Shield Layer 1 Silver Plated Copper Braid
 Shield Layer 2 Silver Plated Copper Braid



Configuration:

- BNC Male
- BNC Female Bulkhead
- RG142

Features:

- Max Frequency 5 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

Applications:

- General Purpose
- Laboratory Use

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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 | BNC Male | BNC Female |
| Mount Method | | Bulkhead |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Brass, Gold | Brass, Gold |
| Contact Plating Spec. | 30µ in. minimum | 30µ in. minimum |
| Dielectric Type | PTFE | PTFE |
| Outer Cond Material & Plating | | Brass, Nickel |
| Body Material & Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Spec. | 100µ in. minimum | 100µ in. minimum |
| Coupling Nut Material & Plating | Brass, Nickel | |
| Coupling Nut Plating Spec. | 100 µin minimum | |

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:

FMC00352 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

Example: FMC00352-12 = 12 inches long cable
 FMC00352-100cm = 100 cm long cable

Low Loss BNC Male to BNC Female Bulkhead Cable RG-142 Coax 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.

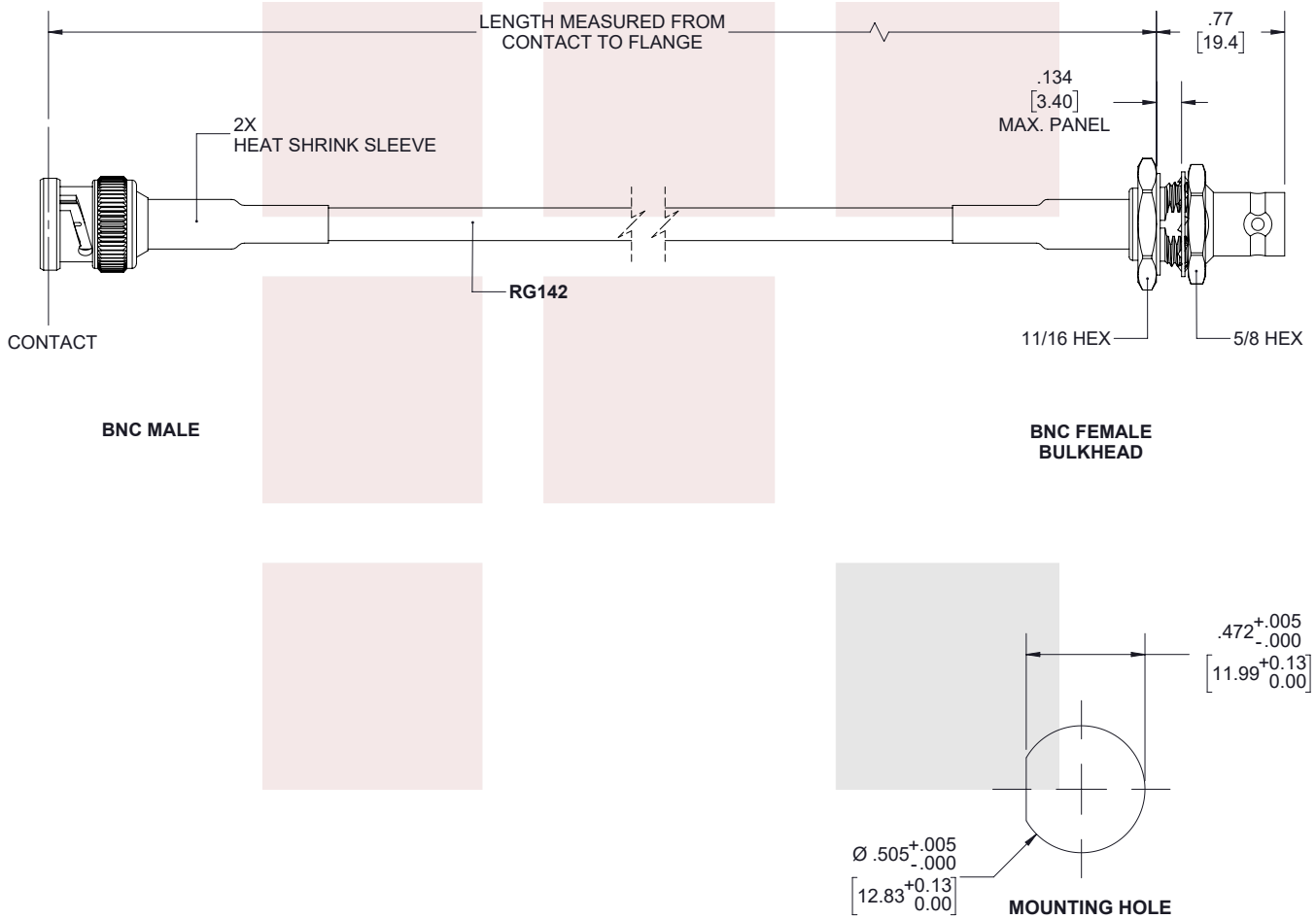
Click the following link to obtain additional part information: [Low Loss BNC Male to BNC Female Bulkhead Cable RG-142 Coax FMC00352](#)

URL: <https://www.fairviewmicrowave.com/low-loss-bnc-male-bnc-female-cable-rg142-coax-fmc00352-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 | 2/24/2020 | S.ELLIS |



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TITLE
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RG-142 Coax

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 | |

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

| | | | | |
|-----------|--------------------|--------------------|----------------------|----------|
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY K.DANG | ITEM NO. FMC00352 | REV A |
|-----------|--------------------|--------------------|----------------------|----------|

T-Rev.D