

RA BNC Male to BNC Female Bulkhead Cable RG-316 Coax

FMCA10014

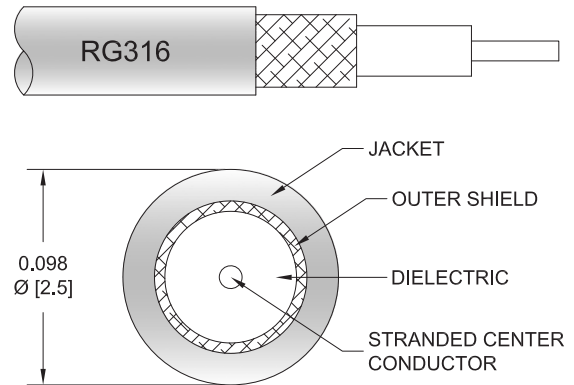


Configuration

- Connector 1: BNC Male Right Angle
- Connector 2: BNC Female Bulkhead
- Cable Type: RG-316
- Coax Cable Group: 8
- Coax Flex Type: Flexible

Features

- Max Frequency 2 GHz
- 69% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

The RA BNC male to BNC female bulkhead cable using RG-316 coax, part number FMCA10014, 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 RG-316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA10014 BNC male to BNC female cable assembly operates to 2 GHz. The right angle BNC interface on the RG-316 cable allows for easier connections in tight spaces. 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.

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 | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 2 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 69 | | % |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 335 | Vrms |
| Jacket Spark | | | 2,000 | Vrms |

Specifications by Frequency

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| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|------|------|------|-------|------|-------|--------------|
| | | Frequency | 50 | 100 | 250 | 500 | 2000 | MHz | |
| FMCA10014 | Custom Lengths Available | Insertion Loss (Typ.) | 0.08 | 0.11 | 0.16 | 0.238 | 0.48 | dB/ft | |
| | | | 0.25 | 0.37 | 0.53 | 0.79 | 1.58 | dB/m | |
| FMCA10014-12 | 12 inch | Insertion Loss (Typ.) | 0.38 | 0.41 | 0.46 | 0.54 | 0.78 | dB | 0.106 |
| FMCA10014-24 | 24 inch | Insertion Loss (Typ.) | 0.45 | 0.52 | 0.62 | 0.78 | 1.26 | dB | 0.117 |
| FMCA10014-36 | 36 inch | Insertion Loss (Typ.) | 0.53 | 0.63 | 0.78 | 1.02 | 1.74 | dB | 0.127 |
| FMCA10014-48 | 48 inch | Insertion Loss (Typ.) | 0.6 | 0.74 | 0.94 | 1.26 | 2.22 | dB | 0.137 |
| FMCA10014-72 | 72 inch | Insertion Loss (Typ.) | 0.75 | 0.96 | 1.26 | 1.73 | 3.18 | dB | 0.157 |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

| | |
|-----------------------------|----------------|
| Loss due to Connector 1: | 0.1 dB |
| Loss due to Connector 2: | 0.2 dB |
| Base Weight: | 0.106 pounds |
| Additional Weight per Inch: | 0.00084 pounds |

Mechanical Specifications

Cable Assembly

| | |
|--------|---------------------|
| Weight | 0.106 lbs [48.08 g] |
|--------|---------------------|

Cable

| | |
|--------------------------------------|----------------------------|
| Cable Type | RG-316 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Shield Layer 1 | Silver Plated Copper Braid |
| Jacket Material | FEP, Tan |
| Jacket Diameter | 0.102 in [2.59 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------------|----------------------|---------------------|
| Type | BNC Male Right Angle | BNC Female Bulkhead |
| Specification | | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Right Angle | Straight |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 30 µin minimum | 30 µin minimum |
| Dielectric Type | PTFE | PTFE |
| Outer Conductor Material and Plating | | Brass, Nickel |
| Outer Conductor Plating Specification | | 100 µin minimum |
| Body Material and Plating | Brass, Nickel | |
| Body Plating Specification | 100 µin minimum | |
| Coupling Nut Material and Plating | Brass, Nickel | |
| Coupling Nut Plating Specification | 100 µin minimum | |

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

Plotted and Other Data

Notes:

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FMCA10014

Typical Performance Data

How to Order

Part Number Configuration:

FMCA10014

- xx

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: FMCA10014-12 = 12 inches long cable
FMCA10014-100cm = 100 cm long cable

RA BNC Male to BNC Female Bulkhead Cable RG-316 Coax from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [RA BNC Male to BNC Female Bulkhead Cable RG-316 Coax FMCA10014](#)

URL: <https://www.fairviewmicrowave.com/ra-bnc-male-to-bnc-female-bulkhead-cable-rg-316-coax-fmca10014-p.aspx>

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FMCA10014 CAD Drawing
RA BNC Male to BNC Female Bulkhead Cable RG-316 Coax

