

## MCX Plug to BNC Female Bulkhead Cable RG316 Coax in 36 inch length

**FMC0738316-36**

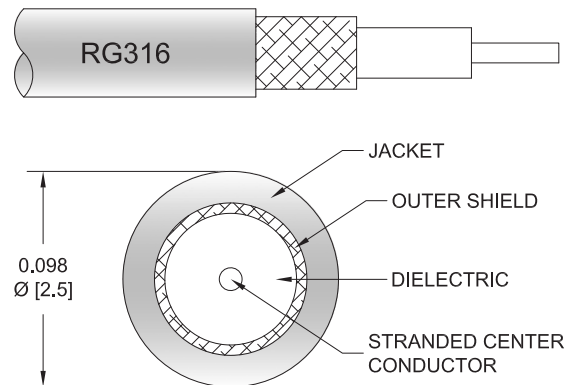


### Configuration

- Connector 1: MCX Plug
- Connector 2: BNC Female Bulkhead
- Cable Type: RG-316
- Coax Flex Type: Flexible

### Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- FEP Jacket



### Applications

- General Purpose
- Laboratory Use

### Description

The MCX plug to BNC female bulkhead 36 inch cable using RG-316 coax, part number FMC0738316-36, from Fairview Microwave is in-stock and ships same day. This Fairview MCX to BNC cable assembly has a plug 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 FMC0738316-36 MCX plug to BNC female cable assembly operates to 3 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.

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      |             | 3       | GHz          |
| Velocity of Propagation |         | 70          |         | %            |
| Capacitance             |         | 32 [104.99] |         | pF/ft [pF/m] |

### Specifications by Frequency

| Description           | F1  | F2   | F3  | F4   | F5   | Units |
|-----------------------|-----|------|-----|------|------|-------|
| Frequency             | 0.1 | 0.25 | 0.5 | 1    | 3    | GHz   |
| Insertion Loss (Typ.) | 0.4 | 0.58 | 1   | 1.34 | 2.09 | dB    |

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### 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  $0.1 \cdot \sqrt{\text{FGHz}}$  dB per connector.

### Mechanical Specifications

#### Cable Assembly

|        |                     |
|--------|---------------------|
| Length | 36 in [914.4 mm]    |
| Weight | 0.064 lbs [29.03 g] |

#### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG-316                     |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Solid                      |
| Inner Conductor Material and Plating | Copper, Silver             |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 1                          |
| Shield Layer 1                       | Silver Plated Copper Tape  |
| Shield Layer 2                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP, Black                 |
| Jacket Diameter                      | 0.098 in [2.49 mm]         |

### Connectors

| Description                   | Connector 1  | Connector 2         |
|-------------------------------|--------------|---------------------|
| Type                          | MCX Plug     | BNC Female Bulkhead |
| Impedance                     | 50 Ohms      | 50 Ohms             |
| Configuration                 | Straight     | Straight            |
| Contact Material and Plating  | Brass, Gold  | Brass, Gold         |
| Contact Plating Specification | 30μ" Minimum | 30μ in. minimum     |
| Dielectric Type               | Teflon       | PTFE                |
| Body Material and Plating     | Brass, Gold  | Brass, Nickel       |
| Body Plating Specification    | 3μ" Minimum  | 100μ in. minimum    |

### Environmental Specifications

|                             |                   |
|-----------------------------|-------------------|
| Operating Range Temperature | -65 to +165 deg C |
|-----------------------------|-------------------|

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

### Plotted and Other Data

Notes:

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### Typical Performance Data

### How to Order

Part Number Configuration:

**FMC0738316**

**- xx**

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Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: FMC0738316-12 = 12 inches long cable  
FMC0738316-100cm = 100 cm long cable

MCX Plug to BNC Female Bulkhead Cable RG316 Coax in 36 inch length 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: [MCX Plug to BNC Female Bulkhead Cable RG316 Coax in 36 inch length FMC0738316-36](#)

URL: <https://www.fairviewmicrowave.com/mcx-plug-to-bAc-female-bulkhead-cable-rg-316-coax-iA-36-iAch-fmc0738316-36-p.aspx>

The information contained within 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 impliment 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 liability arising out of the use of any part or document.

FMC0738316-36 CAD Drawing
MCX Plug to BNC Female Bulkhead Cable RG316 Coax in 36 inch length

