

**Slide-On BMA Plug Bulkhead to BNC Male Cable
 RG-316 Coax in 24 Inch**

The BMA plug slide-on bulkhead to BNC male 24 inch cable using RG-316 coax, part number FMCA1663-24, from Fairview Microwave is in-stock and ships same day. This Fairview BMA to BNC cable assembly has a plug to male gender configuration with 50 ohm flexible RG316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1663-24 BMA plug to BNC male cable assembly operates to 3 GHz. Our RF cable assembly with BMA 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.



Configuration:

- Slide-On BMA Plug Bulkhead
- BNC Male
- RG316

Features:

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket

Applications:

- General Purpose
- Laboratory Use
- Rack and Panel
- BMA Cable RF Backplanes
- Phased Array Interconnects
- High Speed Switching Networks
- Blind Mate BMA Test

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-------------------------|-----|-----|-------|-------|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | | 1.4:1 | |
| Return Loss | | | 15.56 | dB |
| Velocity of Propagation | | 69 | | % |
| Operating Voltage (AC) | | | 250 | Vrms |
| Jacket Spark | | | 2,000 | Vrms |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.1 | 0.25 | 0.5 | 1 | 3 | GHz |
| Insertion Loss (Typ.) | 0.42 | 0.5 | 0.74 | 0.96 | 1.36 | dB |

Mechanical Specifications

Cable Assembly

Length* 24 in [609.6 mm]
 Diameter 0.57 in [14.48 mm]

Cable

Cable Type RG316
 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 0.098 in [2.49 mm]

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Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------|----------------------------|-----------------|
| Type | BMA Plug | BNC Male |
| Mount Method | Bulkhead | |
| Specification | | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Connection Method | Slide-On | |
| Contact Material & Plating | Beryllium Copper, Gold | Brass, Gold |
| Contact Plating Spec. | 51.18µ in. minimum | 50 µin minimum |
| Dielectric Type | PTFE | PTFE |
| Outer Cond Material & Plating | Passivated Stainless Steel | |
| Body Material & Plating | Passivated Stainless Steel | Brass, Nickel |
| Body Plating Spec. | | 100 µin minimum |
| Coupling Nut Material & Plating | | Brass, Nickel |
| Coupling Nut Plating Spec. | | 100 µin minimum |
| Hex Size | 8 mm | |

Mechanical Specification Notes:

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

Environmental Specifications

Temperature

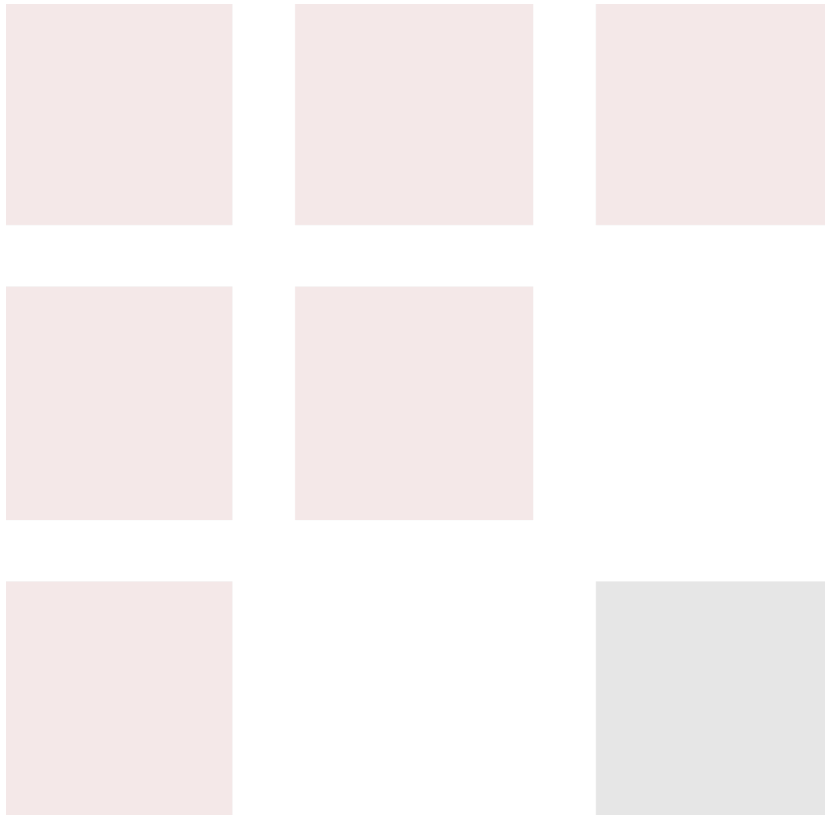
Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

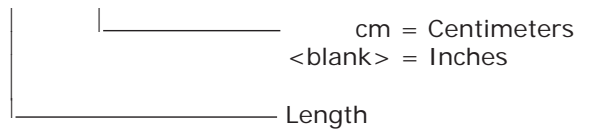
Typical Performance Data



How to Order

Part Number Configuration:

FMCA1663 - xx uu



Example: FMCA1663-12 = 12 inches long cable
 FMCA1663-100cm = 100 cm long cable

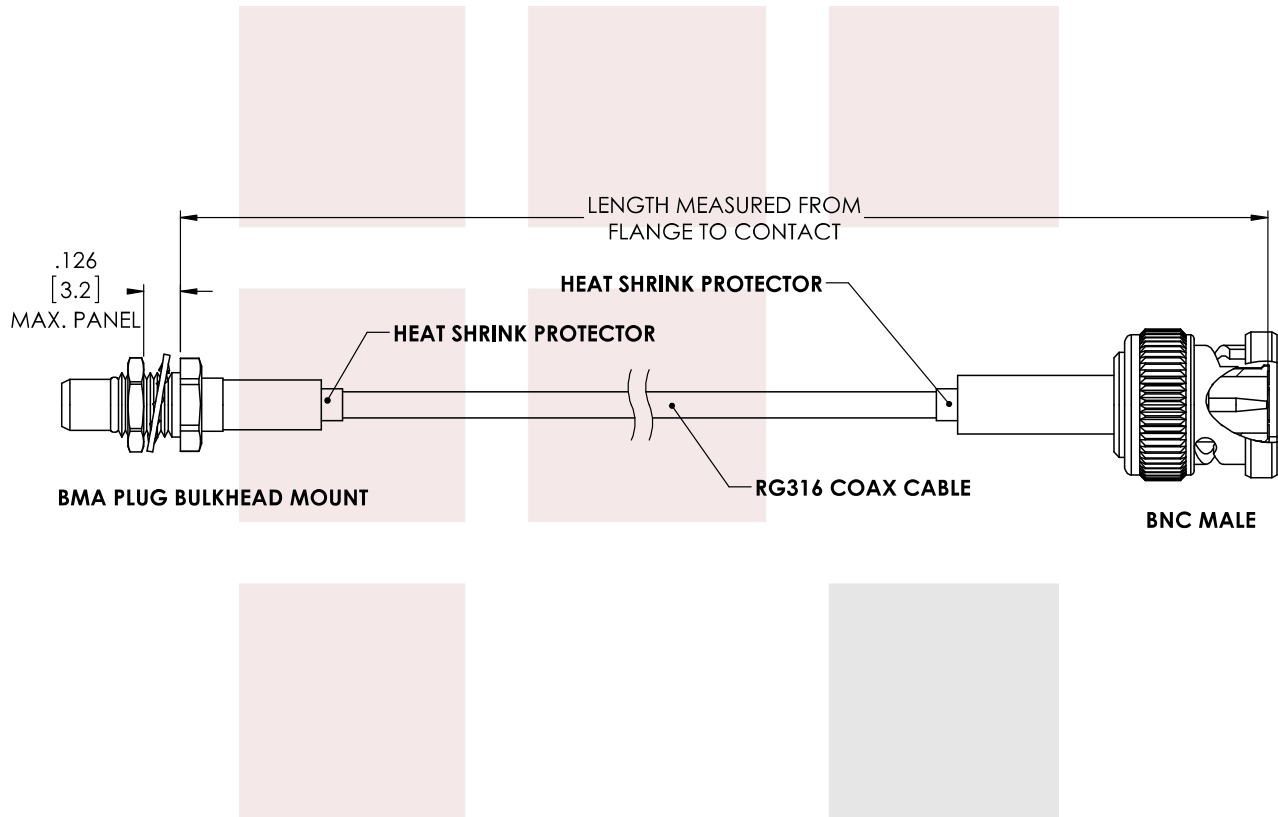
Slide-On BMA Plug Bulkhead to BNC Male Cable RG-316 Coax in 24 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Slide-On BMA Plug Bulkhead to BNC Male Cable RG-316 Coax in 24 Inch FMCA1663-24](#)

URL: <https://www.fairviewmicrowave.com/bma-plug-bnc-male-cable-rg316-coax-fmca1663-24-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.





| STANDARD TOLERANCES | |
|---------------------|--------|
| .X | ±0.2 |
| .XX | ±0.01 |
| .XXX | ±0.005 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| | | | |
|--|--------------------|---|-------------------------|
| FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm]. | |
| TITLE Slide-On BMA Plug Bulkhead to BNC Male Cable RG-316 Coax in 24 Inch | DWG NO FMCA1663 | CAGE CODE 3FKR5 | |
| | CAD FILE 01/03/18 | SHEET | SCALE N/A SIZE A CN2245 |