

## Slide-On BMA Plug Bulkhead to BNC Male Cable RG-316 Coax in 36 Inch

The BMA plug slide-on bulkhead to BNC male 36 inch cable using RG-316 coax, part number FMCA1663-36, 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 FMCA1663-36 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.

### 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.)	0.53	0.65	1.01	1.34	1.94	dB

### Mechanical Specifications

#### Cable Assembly

Length*	36 in [914.4 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]



### 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

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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  $\pm 3/8"$ , whichever is greater.

## Environmental Specifications

### Temperature

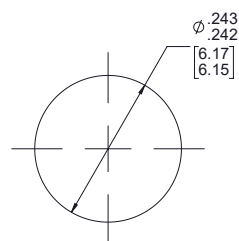
Operating Range -55 to +125 deg C

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

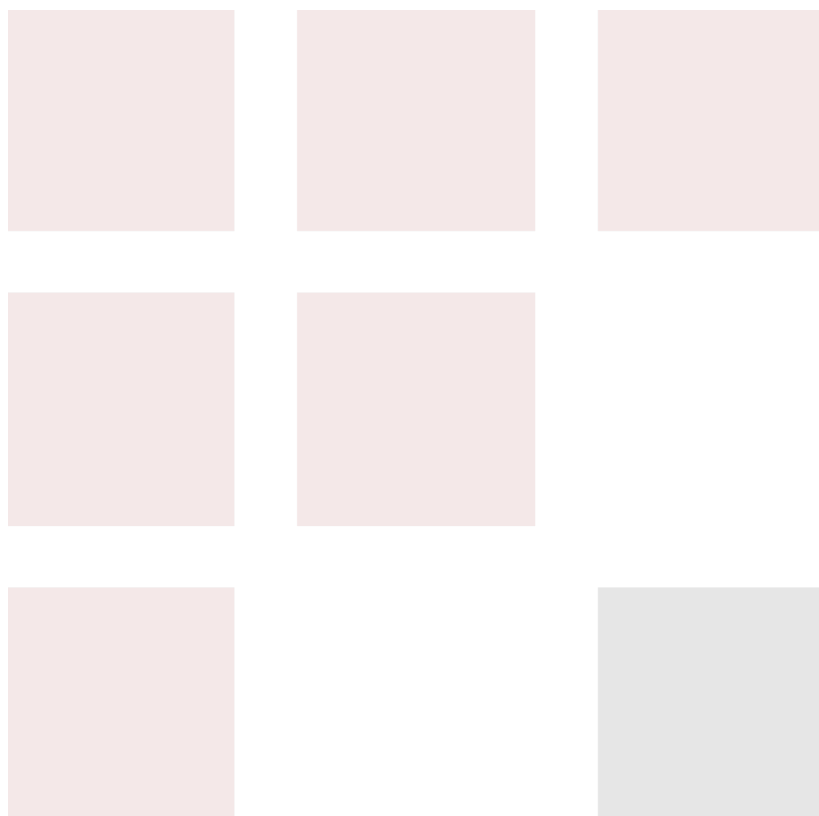
## Plotted and Other Data

Notes:

## Typical Performance Data



MOUNTING HOLE



## How to Order

Part Number Configuration:

**FMCA1663 - xx uu**

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

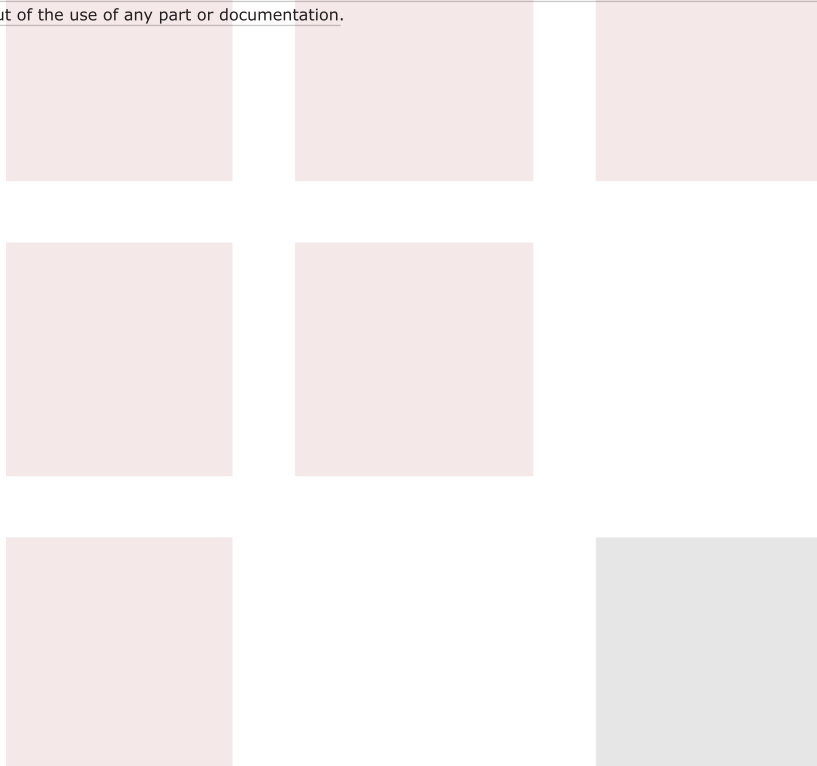
Example: FMCA1663-12 = 12 inches long cable  
 FMCA1663-100cm = 100 cm long cable

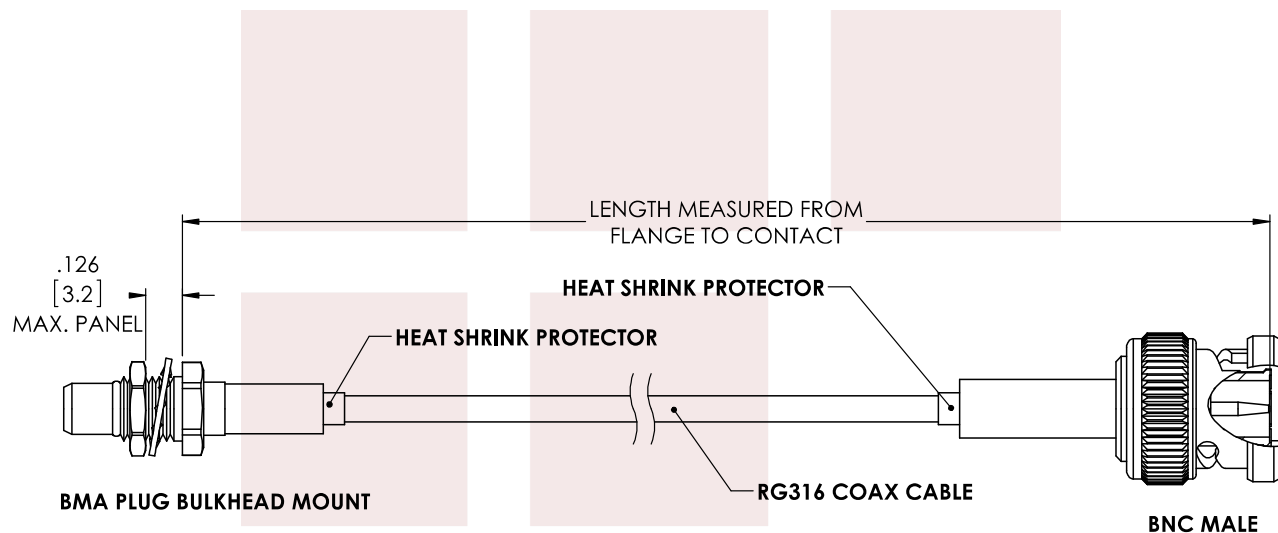
Slide-On BMA Plug Bulkhead to BNC Male Cable RG-316 Coax in 36 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Slide-On BMA Plug Bulkhead to BNC Male Cable RG-316 Coax in 36 Inch FMCA1663-36](#)

URL: <https://www.fairviewmicrowave.com/bma-plug-bnc-male-cable-rg316-coax-fmca1663-36-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

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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 36 Inch	DWG NO FMCA1663		CAGE CODE 3FKR5	
	CAD FILE 01/03/18	SHEET	SCALE N/A SIZE A	CN2245