

**Slide-On BMA Plug Bulkhead to Slide-On BMA Jack  
 2 Hole Flange Cable RG-316 Coax in 36 Inch**

The BMA plug slide-on bulkhead to BMA jack slide-on 2 hole flange 36 inch cable using RG-316 coax, part number FMCA1653-36, from Fairview Microwave is in-stock and ships same day. This Fairview BMA to BMA cable assembly has a plug to jack 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 FMCA1653-36 BMA plug to BMA jack cable assembly operates to 3 GHz. Our RF cable assembly with BMA bulkhead and BMA 2 hole flange 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
- Slide-On BMA Jack 2 Hole Flange
- 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
Dielectric Withstanding Voltage (AC)			750	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 0.75 in [19.05 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

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Jacket Diameter 0.098 in [2.49 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	BMA Plug	BMA Jack
Mount Method	Bulkhead	2 Hole Flange
Impedance	50 Ohms	50 Ohms
Connection Method	Slide-On	Slide-On
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	51.18µ in. minimum	
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Passivated Stainless Steel	Beryllium Copper, Gold
Body Material & Plating	Passivated Stainless Steel	Brass, Tri-Metal
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**

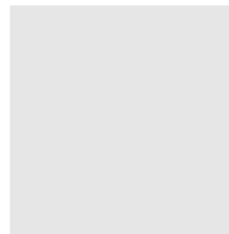
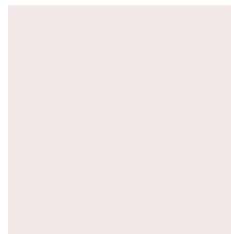
**Temperature**

Operating Range -55 to +125 deg C

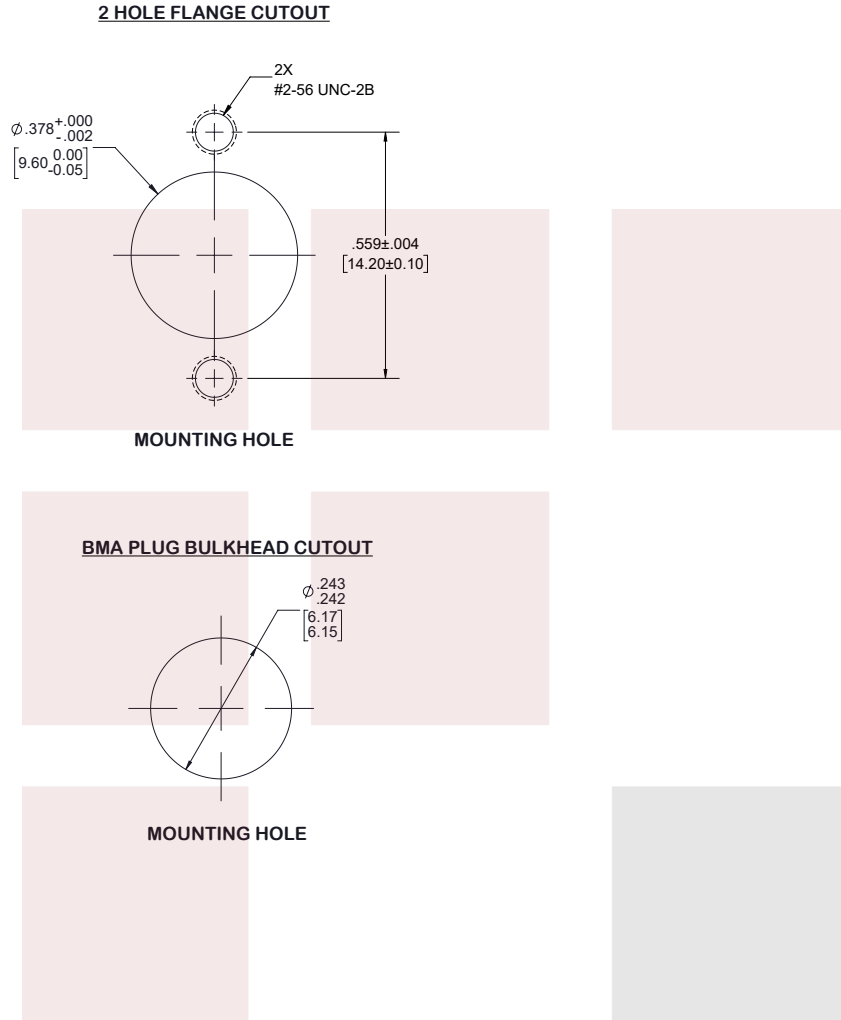
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:



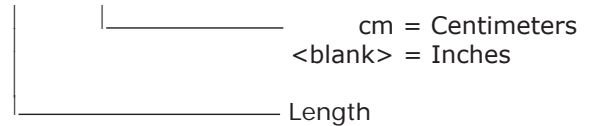
**Typical Performance Data**



**How to Order**

Part Number Configuration:

**FMCA1653 - xx uu**



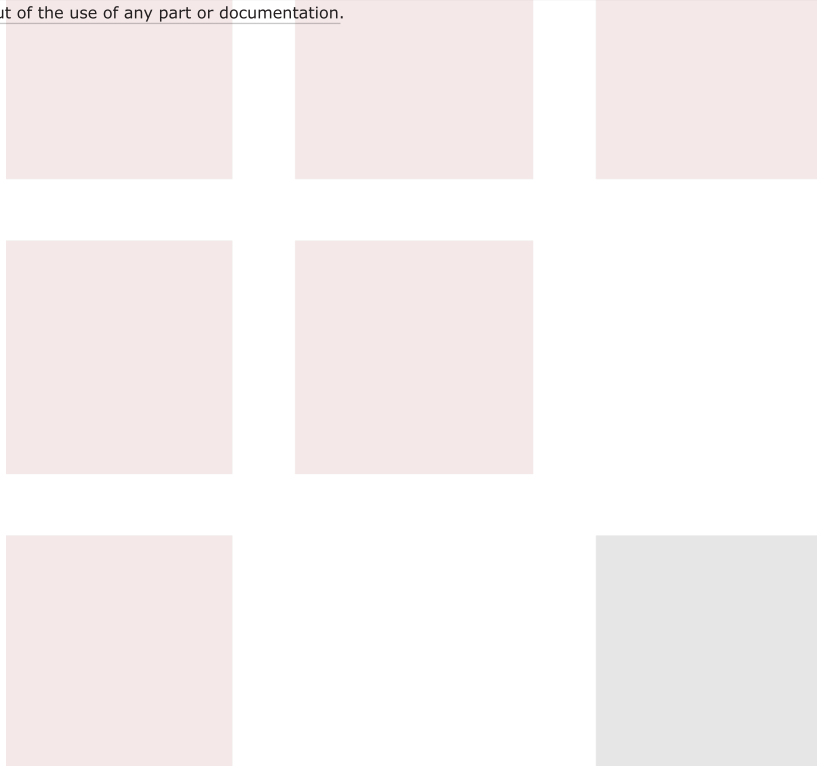
Example: FMCA1653-12 = 12 inches long cable  
 FMCA1653-100cm = 100 cm long cable

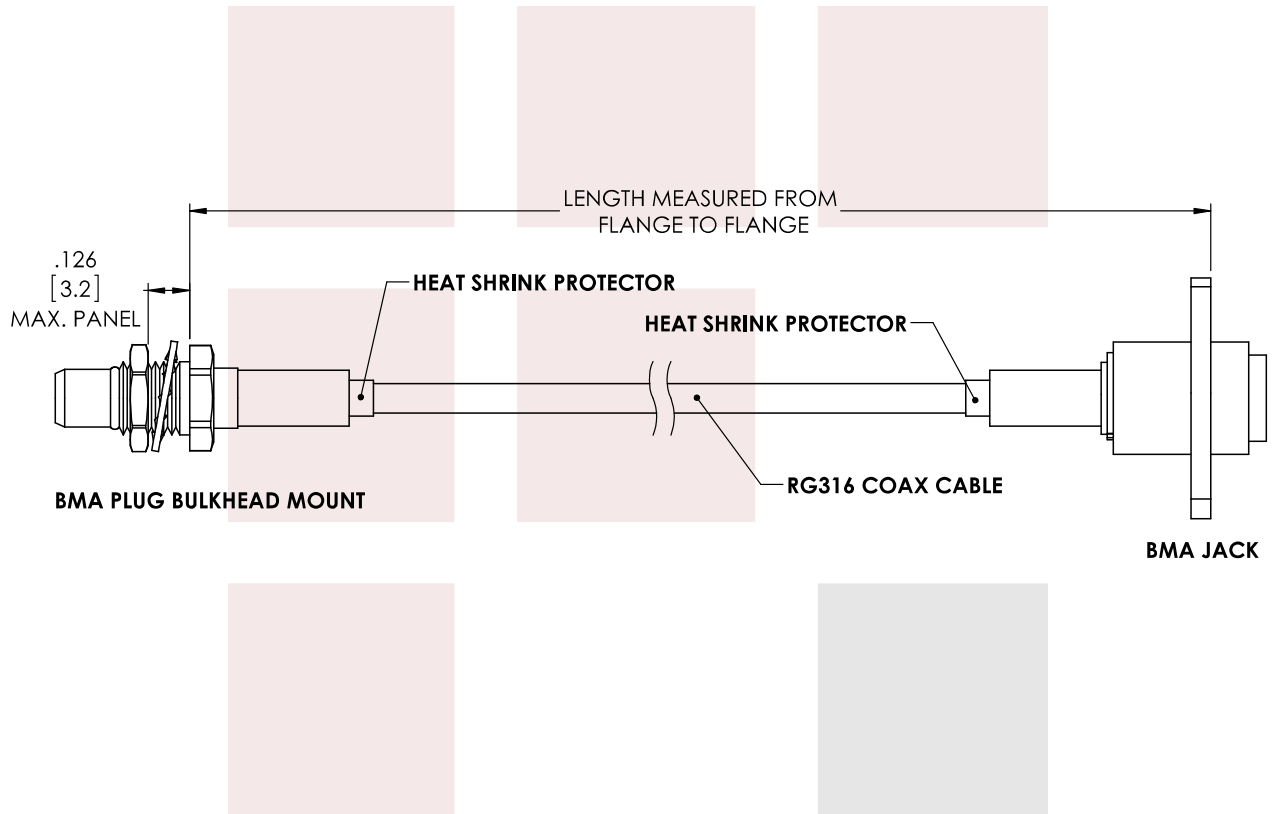
Slide-On BMA Plug Bulkhead to Slide-On BMA Jack 2 Hole Flange Cable RG-316 Coax in 36 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Slide-On BMA Plug Bulkhead to Slide-On BMA Jack 2 Hole Flange Cable RG-316 Coax in 36 Inch FMCA1653-36](#)

URL: <https://www.fairviewmicrowave.com/bma-plug-bma-jack-cable-rg316-coax-fmca1653-36-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

<b>FAIRVIEW MICROWAVE INC.</b> 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 Slide-On BMA Jack 2 Hole Flange Cable RG-316 Coax in 36 Inch	DWG NO FMCA1653	CAGE CODE 3FKR5			
	CAD FILE 12/29/17	SHEET	SCALE N/A	SIZE A	CN2245