



# Slide-On BMA Plug Bulkhead to RA SMA Male Cable RG-316 Coax

The BMA plug slide-on bulkhead to RA SMA male cable using RG-316 coax, part number FMCA1643, from Fairview Microwave is in-stock and ships same day. This Fairview BMA to SMA 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 FMCA1643 BMA plug to SMA male cable assembly operates to 3 GHz. The right angle SMA interface on the RG316 cable allows for easier connections in tight spaces. 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**

Min	T	ур	Max	Units
DC			3	GHz
			1.4:1	
			15.56	dB
	6	9		%
			250	Vrms
			2,000	Vrms
		DC	1,75	DC 3 1.4:1 15.56 69 250

## **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.11	0.15	0.27	0.38	0.58	dB/ft
	0.36	0.49	0.89	1.25	1.9	dB/m

#### **Electrical Specification Notes:**

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

## **Mechanical Specifications**

### **Cable Assembly**

Diameter 0.315 in [8 mm]

## Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields

RG316 50 Ohms Stranded Copper Clad Steel, Silver

PTFE 1



# **Configuration:**

- Slide-On BMA Plug Bulkhead
- SMA Male Right Angle
- 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

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 sales@fairviewmicrowave.com





Shield Layer 1 Jacket Material Jacket Diameter Silver Plated Copper Braid FEP, Tan 0.098 in [2.49 mm]

### **Connectors**

Description	Connector 1	Connector 2		
Туре	BMA Plug	SMA Male		
Mount Method	Bulkhead			
Specification		MIL-STD-348A		
Impedance	50 Ohms	50 Ohms		
Connection Method	Slide-On			
Contact Material & Plating	Beryllium Copper, C	Gold Brass, Gold		
Contact Plating Spec.	51.18µ in. minimu	ım 50 µin minimum		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plati	ng Passivated Stainless	Steel		
Body Material & Plating	Passivated Stainless	Steel Brass, Nickel		
Body Plating Spec.	ody Plating Spec. 100 µin minimu			
Coupling Nut Material & Pla	ting	Brass, Nickel		
Coupling Nut Plating Spec.		100 μin minimum		
Hex Size	8 mm	5/16 inch		
Torque		3 in-lbs [0.34 Nm]		

Mechanical Specification Notes:

**Environmental Specifications** 

**Temperature**Operating Range

-55 to +125 deg C

**Compliance Certifications** (see product page for current document)

**Plotted and Other Data** 

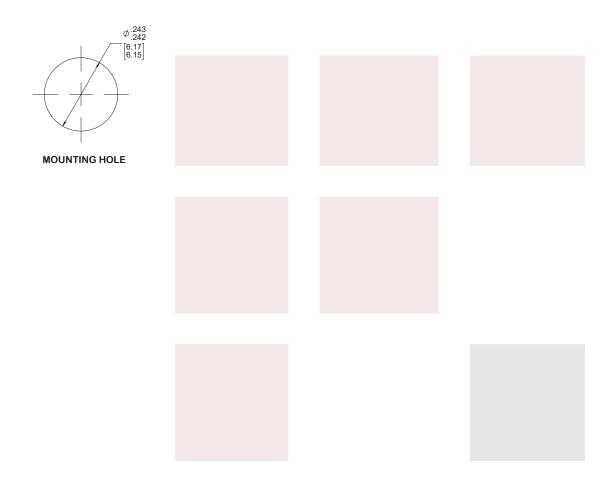
Notes:

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





# **Typical Performance Data**



# **How to Order**

Part Number Configuration:

FMCA1643 - xx uu

| cm = Centimeters |
| chlank > = Inches |
| Length

Example: FMCA1643-12 = 12 inches long cable

FMCA1643-100cm = 100 cm long cable





Slide-On BMA Plug Bulkhead to RA SMA Male Cable RG-316 Coax 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.

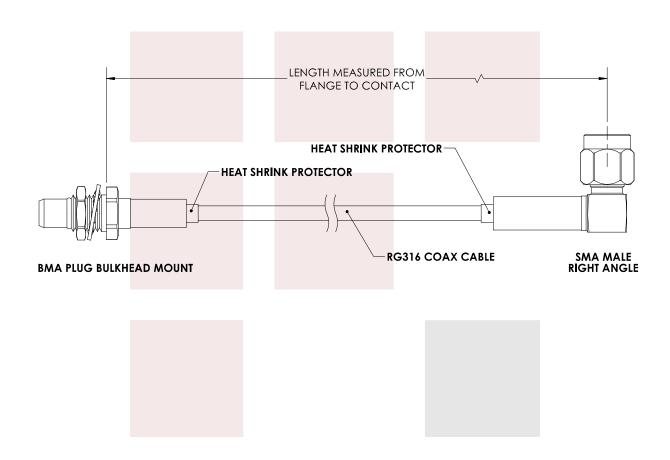
Click the following link to obtain additional part information: Slide-On BMA Plug Bulkhead to RA SMA Male Cable RG-316 Coax FMCA1643

URL: https://www.fairviewmicrowave.com/bma-plug-ra-sma-male-cable-rg316-coax-fmca1643-p.aspx









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].					
Slide-On BMA Plug Bulkhead to RA SMA Male Cable RG-316 Coax	DWG NO FMCA1643			CAGE CODE 3FKR5		
	CAD FILE 01/02/2018	SHEET	SCAL	LE N/A SIZE A	CN2245	