

SMB Plug to SMB Jack Bulkhead Mount using RG316 Coax Cable

The SMB plug to SMB jack bulkhead cable using RG316, part number FMCA9851, from Fairview Microwave is in-stock and ships same day. This Fairview SMB to SMB cable assembly has a plug to jack gender configuration with 50 ohm RG316. The FMCA9851 SMB plug to SMB jack cable assembly operates to 3 GHz. Our RF cable assembly with SMB 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	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

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	0.16	0.238	0.38	0.58	dB/ft
	0.36	0.52	0.78	1.25	1.9	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector

Mechanical Specifications

Cable Assembly

Cable

Cable Type	RG316
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE



Configuration:

- SMB Plug
- SMB Jack Bulkhead
- RG316

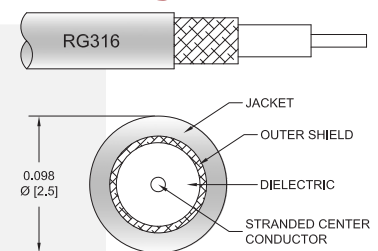
Features:

- Max Frequency 3 GHz
- 69% Phase Velocity
- VSWR of 1.4:1

Applications:

- General Purpose
- Laboratory Use
- Military
- Aerospace
- Wireless Communications
- General Purpose Test

Cable Diagram:



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sales@fairviewmicrowave.com

Connectors

Description	Connector 1	Connector 2
Type	SMB Plug Threaded	SMB Jack Threaded
Mount Method		Bulkhead
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold over Copper	Bronze, Gold over Copper
Body Material & Plating	Bronze, Copper-Tin-Zinc Alloy	Bronze, Copper-Tin-Zinc Alloy

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

Plotted and Other Data

- Notes:
- Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMCA9851 - xx uu

cm = Centimeters
<blank> = Inches
Length

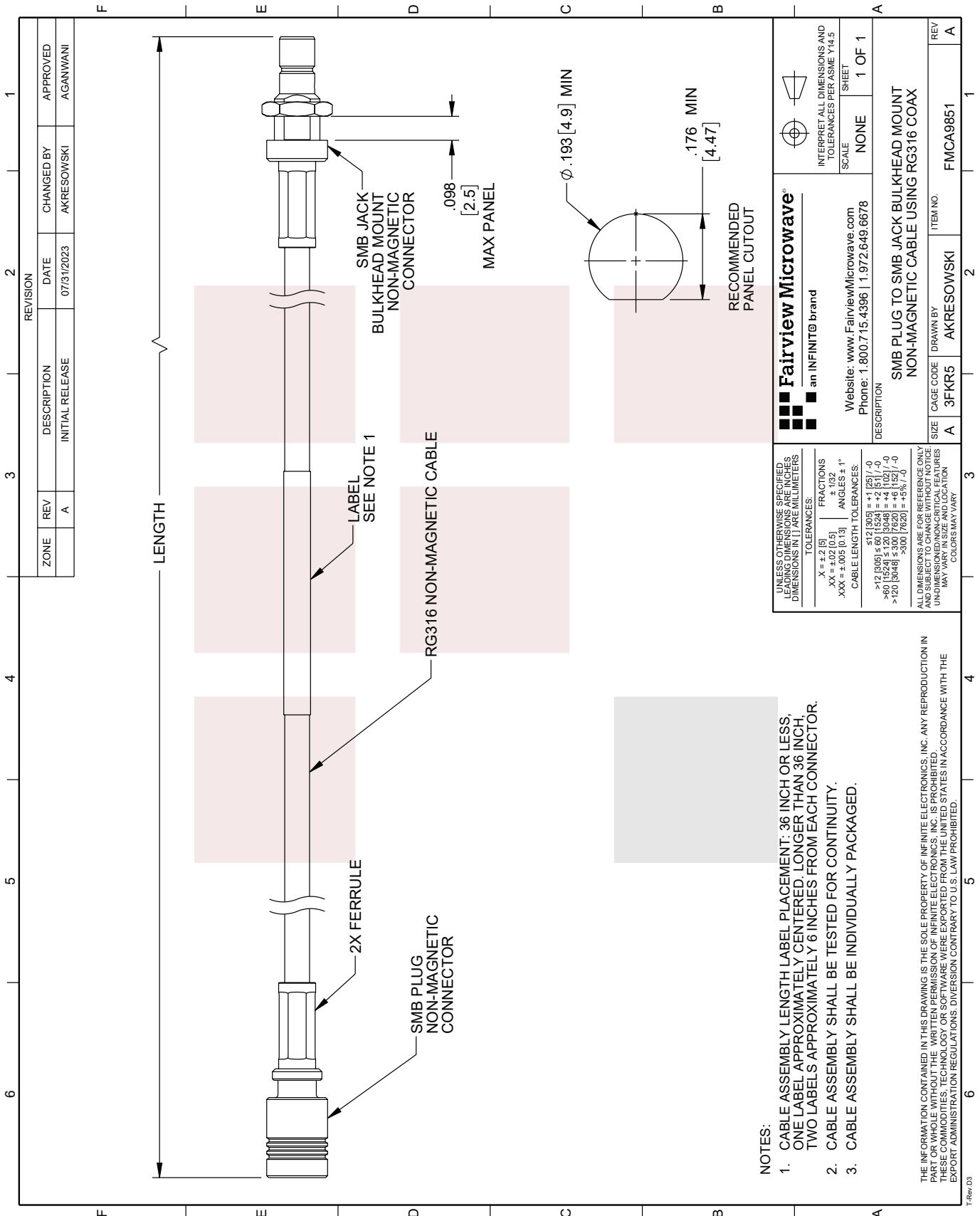
Example: FMCA9851-12 = 12 inches long cable
FMCA9851-100cm = 100 cm long cable

SMB Plug to SMB Jack Bulkhead Mount using RG316 Coax Cable from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMB Plug to SMB Jack Bulkhead Mount using RG316 Coax Cable FMCA9851](#)

URL: <https://www.fairviewmicrowave.com/non-magnetic-smb-plug-to-smb-jack-bulkhead-cable-rg316-coax-fmca9851-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.



REVISION		DESCRIPTION	DATE	CHANGED BY	APPROVED
ZONE	REV	INITIAL RELEASE	07/31/2023	AKRESOWSKI	AGANWANI
	A				

<p>Fairview Microwave an INFINIT[®] brand</p> <p>Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>
<p>DESCRIPTION: SMB PLUG TO SMB JACK BULKHEAD MOUNT NON-MAGNETIC CABLE USING RG316 COAX</p>		
SIZE	CAGE CODE	ITEM NO.
A	3FKR5	AKRESOWSKI
DRAWN BY		REV
AKRESOWSKI		A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

FRACTIONS: ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 ≤12 [305] = ±.1 [25] / -0
 >12 [305] ≤ 60 [1524] = ±.2 [51] / -0
 >60 [1524] ≤ 300 [7620] = ±.4 [102] / -0
 >300 [7620] = ±.6 [152] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [152] / -0
 >300 [7620] = ±.6% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 36 INCH, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY SHALL BE INDIVIDUALLY PACKAGED.