

SMA Female Bulkhead to BNC Male Cable Using RG223 Coax

The SMA female bulkhead to BNC male cable using RG223 coax, part number FMCA2678, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to BNC cable assembly has a female to male gender configuration with 50 ohm flexible RG223 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2678 SMA female to BNC male cable assembly operates to 4 GHz. Our RF cable assembly with SMA 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. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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		4	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance	30.8 [101.05]			pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.04	0.061	0.09	0.134	0.291	dB/ft
	0.13	0.2	0.3	0.44	0.95	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

Weight 0.022 lbs [9.98 g]

Cable

Cable Type RG223
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PE
 Number of Shields 2
 Shield Layer 1 Silver Plated Copper Braid



Configuration:

- SMA Female Bulkhead
- BNC Male
- RG223

Features:

- Max Frequency 4 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

Applications:

- General Purpose
- Laboratory Use

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Shield Layer 2 Silver Plated Copper Braid
 Jacket Material PVC, Black
 Jacket Diameter 0.21 in [5.33 mm]
 One Time Minimum Bend Radius 1 in [25.4 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Female	BNC Male
Mount Method	Bulkhead	
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Spec.	50µ in. minimum	30µ in. minimum
Dielectric Type	Teflon	Teflon
Body Material & Plating	Brass, Nickel	Brass, Nickel
Body Plating Spec.	100µ in. minimum	100µ in. minimum

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

Plotted and Other Data

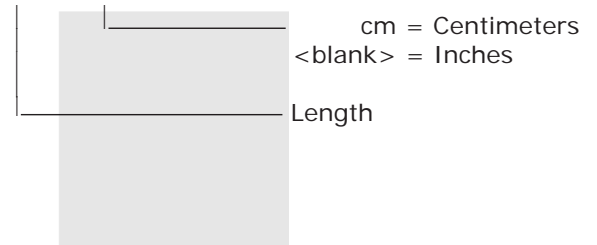
- Notes:
- Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMCA2678 - xx uu

Example: FMCA2678-12 = 12 inches long cable
 FMCA2678-100cm = 100 cm long cable



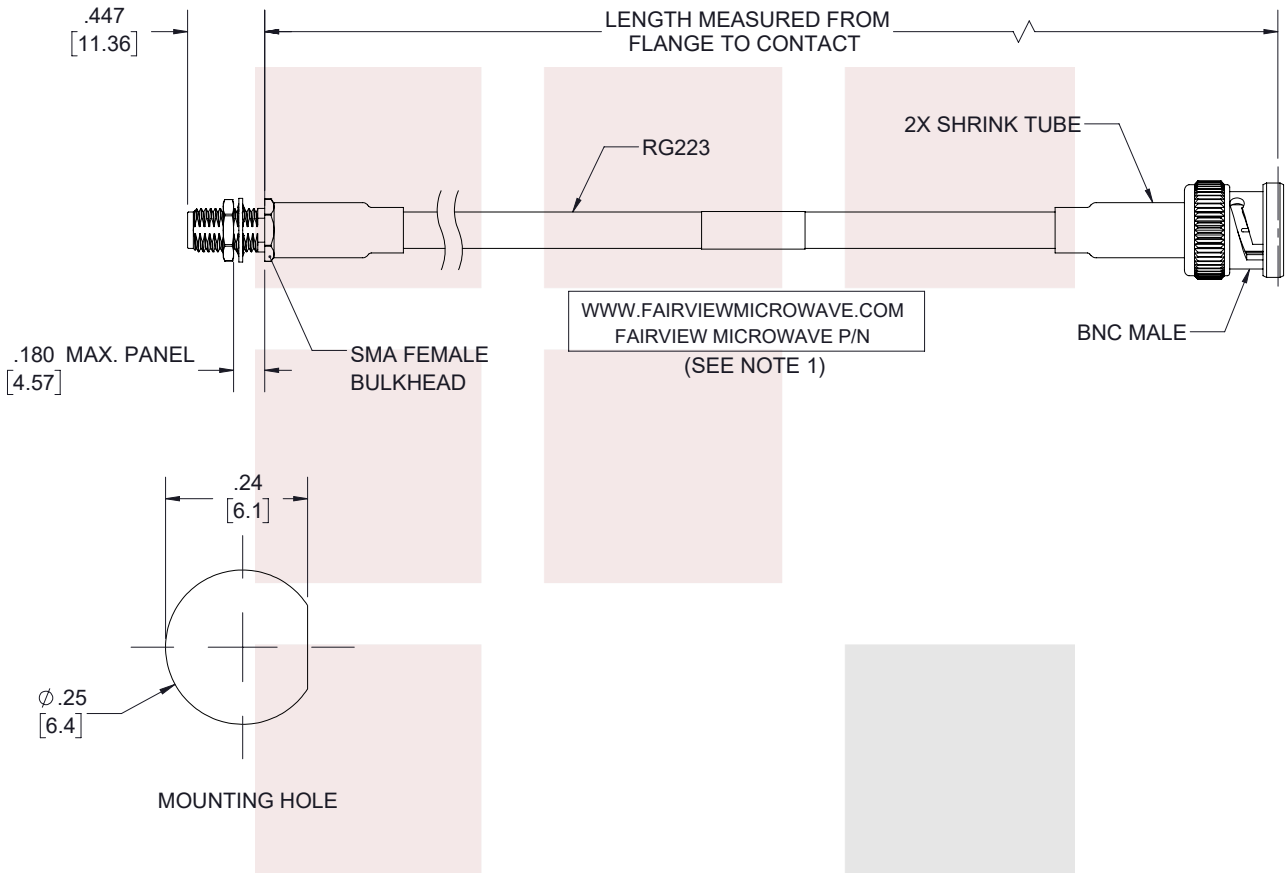
SMA Female Bulkhead to BNC Male Cable Using RG223 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMA Female Bulkhead to BNC Male Cable Using RG223 Coax FMCA2678](#)

URL: <https://www.fairviewmicrowave.com/sma-female-bulkhead-to-bnc-male-cable-rg223-coax-and-rohs-fmca2678-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.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	2/21/2022	AGANWANI



- NOTES:
1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM THE FRONT OF THE CONNECTOR.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

<p>Fairview Microwave an INFINIT[®] brand</p>	<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p>		<p>THIRD-ANGLE PROJECTION</p>	
	<p>TOLERANCES:</p> <p>.X = ±.2 [5.08] FRACTIONS ± 1/32 .XX = ±.02 [.51] ANGLES ± 1° .XXX = ±.005 [.13]</p>		<p>CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0</p>	
<p>TITLE</p> <p>SMA Female Bulkhead to BNC Male Cable Using RG223 Coax</p>			<p>SHEET 1 OF 1</p>	
<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>			<p>SCALE N/A</p>	
<p>SIZE A</p>	<p>CAGE CODE 3FKR5</p>	<p>DRAWN BY MVEERAPPAN</p>	<p>ITEM NO. FMCA2678</p>	<p>REV A</p>

T-Rev.D