

## SMA Male to SMA Female Bulkhead Cable RG-58 Coax

The SMA male to SMA female bulkhead cable using RG-58 coax, part number FMC00235, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to female gender configuration with 50 ohm flexible RG58C/U coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00235 SMA male to SMA female cable assembly operates to 5 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.

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:

- SMA Male
- SMA Female Bulkhead
- RG58C/U

### Features:

- Max Frequency 5 GHz
- 66% Phase Velocity
- PVC Jacket

### Applications:

- General Purpose
- Laboratory Use

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		5	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5	GHz
Insertion Loss (Max.)	0.08	0.12	0.2	0.32	0.6	dB/ft
	0.26	0.39	0.66	1.05	1.97	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

##### Cable

Cable Type	RG58C/U
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Tin
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.195 in [4.95 mm]

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**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Mount Method		Bulkhead
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Spec.	ASTM B488	50 µin minimum
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Passivated Stainless Steel, Gold	Passivated Stainless Steel
Body Material & Plating	Passivated Stainless Steel, Gold	
Coupling Nut Material & Plating	Passivated Stainless Steel	
Hex Size	16-May Inch	16-May inch

**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:

**FMC00235 - xx uu**

cm = Centimeters  
<blank> = Inches

Length

Example: FMC00235-12 = 12 inches long cable  
FMC00235-100cm = 100 cm long cable

SMA Male to SMA Female Bulkhead Cable RG-58 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: [SMA Male to SMA Female Bulkhead Cable RG-58 Coax FMC00235](#)

URL: <https://www.fairviewmicrowave.com/sma-male-sma-female-cable-rg58-coax-fmc00235-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.

