



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 | Т | ур | Max | ι | Jnits |
|-------------------------|-----|---------------|----|-------|----------|-------|
| Frequency Range | DC | | | 5 | | GHz |
| VSWR | | | | 1.4:1 | | |
| Velocity of Propagation | | 6 | 66 | | | % |
| Capacitance | | 30.8 [101.05] | | pF/f | t [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
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1
Jacket Material
Jacket Diameter

RG58C/U 50 Ohms Stranded Copper, Tin PE 1 Tinned Copper Braid PVC, Black 0.195 in [4.95 mm]

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Connectors

| Description | Connector 1 | Connector 2 | | | | | |
|---|---------------------------|------------------------|--|--|--|--|--|
| Туре | 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, GoldPassivated Stainless Stee | | | | | | | |
| Body Material & Plating | Passivated Stainless Stee | el, Gold | | | | | |
| Coupling Nut Material & Plating Passivated Stainless Steel | | | | | | | |
| Hex Size | 16-May Inch | 16-May inch | | | | | |
| | | | | | | | |

Compliance Certifications (see product page for current document)

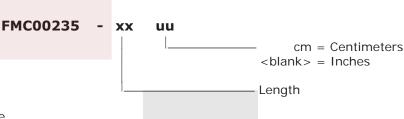
Plotted and Other Data

Notes:

Values at 25°C, sea level.

How to Order

Part Number Configuration:



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.

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