

## SMB Jack Bulkhead Mount to SMB Plug using RG316 Coax Cable

### FMCA9861



#### Configuration

- Connector 1: SMB Jack Bulkhead
- Connector 2: SMB Plug

#### 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

#### Description

The SMB jack bulkhead to SMB plug cable using RG316, part number FMCA9861, from Fairview Microwave is in-stock and ships same day. This Fairview SMB to SMB cable assembly has a jack to plug gender configuration with 50 ohm. The FMCA9861 SMB jack to SMB plug 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             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 3       | GHz          |
| VSWR                    |         |              | 1.4:1   |              |
| Velocity of Propagation |         | 69           |         | %            |
| Capacitance             |         | 29.4 [96.46] |         | pF/ft [pF/m] |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.1  | 0.25 | 0.5  | 1    | 3    | GHz   |
| Insertion Loss (Typ.) | 0.13 | 0.2  | 0.3  | 0.4  | 0.78 | dB/ft |
|                       | 0.43 | 0.66 | 0.98 | 1.31 | 2.56 | 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

## SMB Jack Bulkhead Mount to SMB Plug using RG316 Coax Cable

### FMCA9861



#### Mechanical Specifications

##### Cable Assembly

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.31 lbs [140.61 g] |

##### Cable

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

#### Connectors

| Description                  | Connector 1                   | Connector 2                        |
|------------------------------|-------------------------------|------------------------------------|
| Type                         | SMB Jack Bulkhead             | SMB Plug                           |
| Impedance                    | 50 Ohms                       | 50 Ohms                            |
| Configuration                | Straight                      | Straight                           |
| Contact Material and Plating | Bronze, Gold over Copper      | Beryllium Copper, Gold over Copper |
| Body Material and Plating    | Bronze, Copper-Tin-Zinc Alloy | Bronze, Copper-Tin-Zinc Alloy      |

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:  
Values at 25°C, sea level.

## SMB Jack Bulkhead Mount to SMB Plug using RG316 Coax Cable



### FMCA9861

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**FMCA9861**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: FMCA9861-12 = 12 inches long cable  
FMCA9861-100cm = 100 cm long cable

SMB Jack Bulkhead Mount to SMB Plug using RG316 Coax Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMB Jack Bulkhead Mount to SMB Plug using RG316 Coax Cable FMCA9861](#)

URL: <https://www.fairviewmicrowave.com/non-magnetic-smb-jack-bulkhead-to-smb-plug-cable-rg316-coax-fmca9861-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

FMCA9861 CAD Drawing

SMB Jack Bulkhead Mount to SMB Plug using RG316 Coax Cable

