



## SMA Male to SMA Female Bulkhead Cable Using RG58 Coax

### RF Cable Assemblies Technical Data Sheet

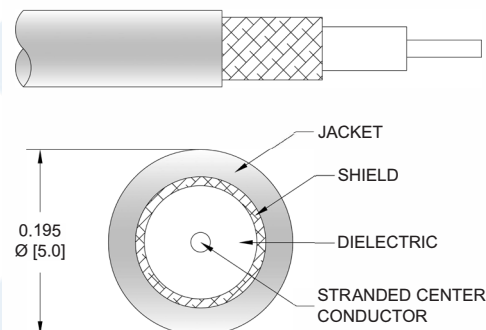
**PE3C7901**

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Female Bulkhead
- Cable Type: RG58

#### Features

- Max Frequency 5 GHz
- 65.9% Phase Velocity
- PVC (NC) Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C7901 SMA male to SMA female bulkhead cable using RG58 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMA to SMA cable assembly has a male to female gender configuration with 50 ohm flexible RG58 coax. The PE3C7901 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 available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Female Bulkhead Cable Using RG58 Coax PE3C7901](#)



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#### Electrical Specifications

| Description             | Minimum | Typical       | Maximum | Units        |
|-------------------------|---------|---------------|---------|--------------|
| Frequency Range         | DC      |               | 5       | GHz          |
| VSWR                    |         |               | 1.4:1   |              |
| Velocity of Propagation |         | 65.9          |         | %            |
| Capacitance             |         | 30.8 [101.05] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |               | 500     | Vrms         |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 5    | GHz   |
| Insertion Loss (Typ.) | 0.07 | 0.11 | 0.2  | 0.35 | 0.6  | dB/ft |
|                       | 0.23 | 0.36 | 0.66 | 1.15 | 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 for the straight connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.056 lbs [25.4 g]

##### Cable

Cable Type RG58  
 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 (NC), Black  
 Jacket Diameter 0.195 in [4.95 mm]

One Time Minimum Bend Radius 0.98 in [24.89 mm]  
 Repeated Minimum Bend Radius 1.96 in [49.78 mm]

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#### Connectors

| Description                           | Connector 1          | Connector 2            |
|---------------------------------------|----------------------|------------------------|
| Type                                  | SMA Male             | SMA Female Bulkhead    |
| Specification                         | MIL-STD-348A         | MIL-STD-348A           |
| Impedance                             | 50 Ohms              | 50 Ohms                |
| Contact Material and Plating          | Brass, Gold          | Beryllium Copper, Gold |
| Contact Plating Specification         | 50 $\mu$ in minimum  | 50 $\mu$ in. minimum   |
| Dielectric Type                       | PTFE                 | Teflon                 |
| Outer Conductor Material and Plating  |                      | Brass, Gold            |
| Outer Conductor Plating Specification |                      | 3 $\mu$ in. minimum    |
| Body Material and Plating             | Brass, Nickel        | Brass, Gold            |
| Body Plating Specification            | 100 $\mu$ in minimum | 3 $\mu$ in. minimum    |
| Coupling Nut Material and Plating     | Brass, Nickel        |                        |
| Coupling Nut Plating Specification    | 100 $\mu$ in minimum |                        |
| Hex Size                              | 5/16 inch            |                        |
| Torque                                | 3 in-lbs [0.34 Nm]   |                        |

#### Environmental Specifications

##### Temperature

Operating Range

-20 to +80 deg C

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

#### Plotted and Other Data

Notes:

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**PE3C7901**

#### How to Order

Part Number Configuration:

**PE3C7901**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3C7901-12 = 12 inches long cable  
PE3C7901-100cm = 100 cm long cable

SMA Male to SMA Female Bulkhead Cable Using RG58 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Female Bulkhead Cable Using RG58 Coax PE3C7901](#)

URL: <https://www.pasternack.com/sma-male-to-sma-female-bulkhead-cable-using-rg58-pe3c7901-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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3C7901 CAD Drawing  
SMA Male to SMA Female Bulkhead Cable Using RG58 Coax

