



## SMA Male to SSMC Jack Bulkhead Cable Using RG178 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3C4392**

#### Configuration

- Connector 1: SMA Male
- Connector 2: SSMC Jack Bulkhead
- Cable Type: RG178

#### Features

- SSMC Cable Assembly Max. Operating Frequency of 1 GHz
- Small SSMC cable connection form factor (50% smaller than SMA, radially)
- Reliable threaded coupling
- In stock and ready to ship

#### Applications

- SSMC Cable General Purpose Test
- Data Acquisition Systems
- A/D Conversion Systems
- Ultra Wideband Digital Receivers
- Software defined radio (SDR)

#### Description

Pasternack's SSMC cable assemblies are part of our full line of RF components available for same-day shipping. These SSMC cable assemblies are designed to connect SSMC system components and test connections, delivering signal frequencies as high as 12.4 GHz. Our family of SSMC cables can also be used to connect SSMC ports on data acquisition systems, A/D modules or SSMC coax patch panels. If none of our standard options fit your application, you can specify your own custom SSMC cable assembly using Pasternack's online Cable Creator.

Our SSMC cable assembly datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave cable assemblies allow designers to configure and customize their signal connections however they like. Whether the need is to provide SSMC cabling for a data acquisition system, or simply create a custom cable assembly configuration, Pasternack has the right cable assemblies for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same day.

#### Electrical Specifications

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 1,000   | MHz          |
| VSWR                    |         |              | 1.44:1  |              |
| Velocity of Propagation |         | 70           |         | %            |
| Capacitance             |         | 29.4 [96.46] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |              | 250     | Vrms         |

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 SSMC Jack Bulkhead Cable Using RG178 Coax PE3C4392](#)



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#### Specifications by Frequency

| Description           | F1   | F2   | F3    | F4 | F5 | Units |
|-----------------------|------|------|-------|----|----|-------|
| Frequency             | 100  | 400  | 1,000 |    |    | MHz   |
| Insertion Loss (Typ.) | 0.14 | 0.28 | 0.44  |    |    | dB/m  |
|                       |      |      |       |    |    | dB/ft |
|                       | 0.46 | 0.92 | 1.44  |    |    | 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

Diameter 0.315 in [8 mm]

##### Cable

Cable Type RG178  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 1  
 Shield Layer 1 Silver Plated Copper Braid  
 Jacket Material FEP, Tan  
 Jacket Diameter 0.072 in [1.83 mm]  
 Repeated Minimum Bend Radius 0.4 in [10.16 mm]

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#### Connectors

| Description                           | Connector 1        | Connector 2            |
|---------------------------------------|--------------------|------------------------|
| Type                                  | SMA Male           | SSMC Jack Bulkhead     |
| Specification                         | MIL-STD-348A       |                        |
| Impedance                             | 50 Ohms            | 50 Ohms                |
| Mating Cycles                         |                    | 500                    |
| Contact Material and Plating          | Brass, Gold        | Beryllium Copper, Gold |
| Contact Plating Specification         | 50 µin minimum     | MIL-G-45204            |
| Dielectric Type                       | PTFE               | Teflon                 |
| Outer Conductor Material and Plating  |                    | Beryllium Copper, Gold |
| Outer Conductor Plating Specification |                    | MIL-G-45204            |
| Body Material and Plating             | Brass, Nickel      | Beryllium Copper, Gold |
| Body Plating Specification            | 100 µin minimum    | MIL-G-45204            |
| Coupling Nut Material and Plating     | Brass, Nickel      |                        |
| Coupling Nut Plating Specification    | 100 µin minimum    |                        |
| Hex Size                              | 5/16 inch          |                        |
| Torque                                | 3 in-lbs [0.34 Nm] | 1.75 in-lbs [0.2 Nm]   |

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

#### Environmental Specifications

##### Temperature

Operating Range -55 to +165 deg C

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

#### Plotted and Other Data

Notes:

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 SSMC Jack Bulkhead Cable Using RG178 Coax PE3C4392](#)



## SMA Male to SSMC Jack Bulkhead Cable Using RG178 Coax

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**PE3C4392**

#### How to Order

Part Number Configuration:

**PE3C4392**

- **xx**

**uu**

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

Example: PE3C4392-12 = 12 inches long cable  
PE3C4392-100cm = 100 cm long cable

SMA Male to SSMC Jack Bulkhead Cable Using RG178 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.

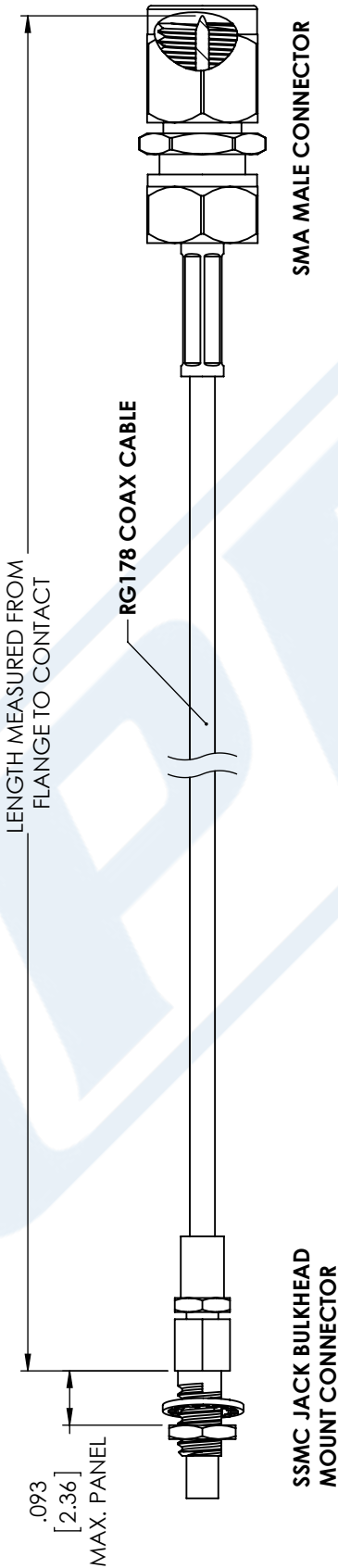
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SSMC Jack Bulkhead Cable Using RG178 Coax PE3C4392](#)

URL: <https://www.pasternack.com/sma-male-ssmc-jack-rg178bu-cable-assembly-pe3c4392-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.

PE3C4392 CAD Drawing

SMA Male to SSMC Jack Bulkhead Cable Using RG178 Coax



| STANDARD TOLERANCES |        |
|---------------------|--------|
| .X                  | ±0.2   |
| .XX                 | ±0.01  |
| .XXX                | ±0.005 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

PE

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THE ENGINEER'S RF SOURCE

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|           |          |
|-----------|----------|
| DWG TITLE | PE3C4392 |
| CAGE CODE | 53919    |

|                                                                                                                                                                                    |          |          |       |     |      |   |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-------|-----|------|---|--------|
| NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME<br>3. DIMENSIONS ARE IN INCHES [mm]. | CAD FILE | 08/31/17 | SCALE | N/A | SIZE | A | CN2245 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-------|-----|------|---|--------|