



SMA Female Bulkhead to SMP Female Right Angle Cable 200 cm Length Using RG178 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W05697/HS-200CM

Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: SMP Female Right Angle
- Cable Type: RG178

Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W05697/HS-200CM SMA female bulkhead to SMP female right angle 200 cm cable using RG178 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 SMP cable assembly has a female to female gender configuration with 50 ohm flexible RG178 coax. The PE3W05697/HS-200CM SMA female to SMP female cable assembly operates to 3 GHz. The right angle SMP interface on the RG178 cable allows for easier connections in tight spaces. 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.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 70 | | % |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead to SMP Female Right Angle Cable 200 cm Length Using RG178 Coax with HeatShrink PE3W05697/HS-200CM](#)



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Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-----|------|-----|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 3 | GHz |
| Insertion Loss (Max.) | 1.67 | 2.3 | 3.22 | 4.9 | 5.45 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated loss of 0.3dB of connector loss.

Mechanical Specifications

Cable Assembly

Length* 78.74 in [200 cm]
Diameter 0.433 in [11 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 Female Bulkhead | SMP Female Right Angle |
| Specification | | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | 500 | |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification | | MIL-DTL-45204 |
| Dielectric Type | PTFE | PTFE |
| Outer Conductor Material and Plating | Brass, Gold | Beryllium Copper, Gold |
| Outer Conductor Plating Specification | | MIL-DTL-45204 |
| Body Material and Plating | Brass, Gold | Brass, Gold |
| Body Plating Specification | | MIL-DTL-45204 |
| Coupling Nut Material and Plating | Brass, Gold | |

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 +155 deg C

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W05697/HS - xx uu

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

Example: PE3W05697/HS-12 = 12 inches long cable
PE3W05697/HS-100cm = 100 cm long cable

SMA Female Bulkhead to SMP Female Right Angle Cable 200 cm Length Using RG178 Coax with HeatShrink 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 Female Bulkhead to SMP Female Right Angle Cable 200 cm Length Using RG178 Coax with HeatShrink PE3W05697/HS-200CM](https://www.pasternack.com/sma-female-smp-female-rg178bu-cable-assembly-pe3w05697-hs-200cm-p.aspx)

URL: <https://www.pasternack.com/sma-female-smp-female-rg178bu-cable-assembly-pe3w05697-hs-200cm-p.aspx>

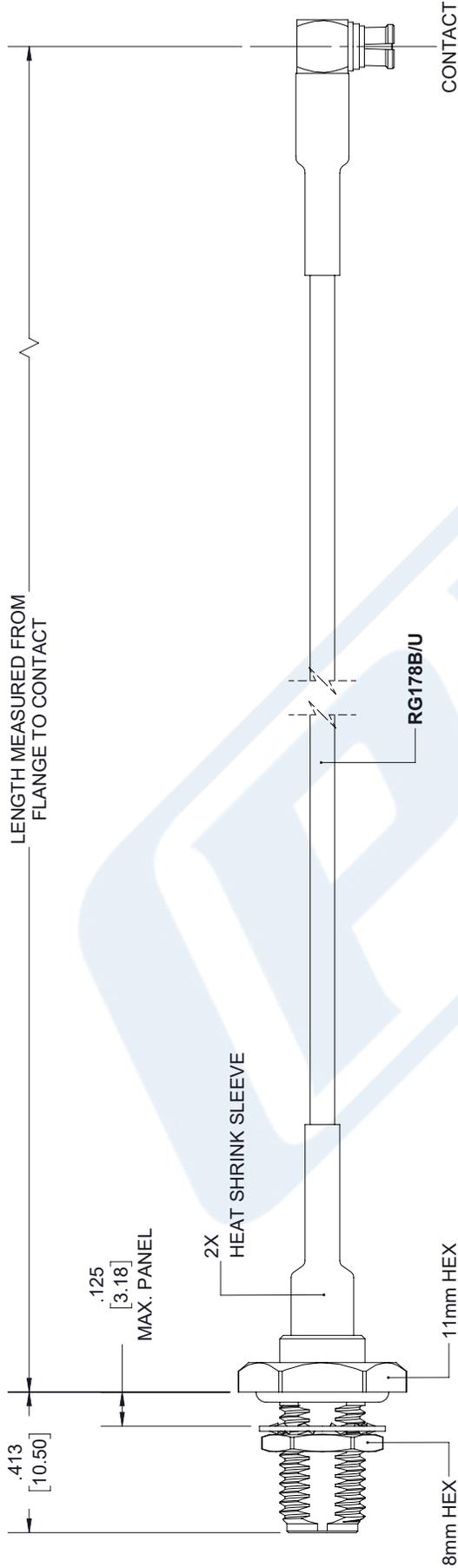
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

PE3W05697/HS-200CM CAD Drawing

SMA Female Bulkhead to SMP Female Right Angle Cable

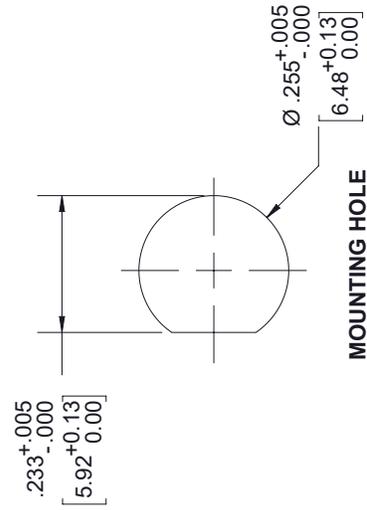
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| REVISIONS | | | |
|-----------|-----------------|----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 05/02/19 | S.ELLIS |



SMA FEMALE BULKHEAD

SMP FEMALE RA



MOUNTING HOLE

| | |
|--|-------------|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | |
| TOLERANCES: | FRACTIONS |
| X±.2 [5.08] | ±.132 |
| .XX±.01 [.25] | ±.132 |
| .XXX±.005 [.13] | ANGLES ± 1° |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | |
| THIRD-ANGLE PROJECTION | |

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|------|-------|----------|--------------|-----|
| SIZE | CAGE | DRAWN BY | PART NUMBER | REV |
| A | 53919 | K.DANG | PE3W05697/HS | A |

| | |
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| SHEET | 1 OF 1 |
| SCALE | N/A |

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