



RF Cable Assemblies Technical Data Sheet

PE3W05697/HS

Configuration

Connector 1: SMA Female BulkheadConnector 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 SMA female bulkhead to SMP female right angle 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 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 Using RG178 Coax with Heat-Shrink PE3W05697/HS





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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.)	0.2 0.66	0.3 0.98	0.44 1.44	0.7 2.3	0.78 2.56	dB/ft dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.3dB of connector loss.

Mechanical Specifications

Cable Assembly

Diameter 0.433 in [11 mm]

Cable

Cable Type Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields

Shield Layer 1

Jacket Material

Jacket Diameter

Repeated Minimum Bend Radius

RG178 50 Ohms

Stranded

Copper Clad Steel, Silver PTFE

1

Silver Plated Copper Braid

FEP, Tan

0.072 in [1.83 mm]

0.4 in [10.16 mm]

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Connectors

Description	Connector 1	Connector 2		
Туре	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:

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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^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





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How to Order



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

SMA Female Bulkhead to SMP Female Right Angle Cable 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.

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URL: https://www.pasternack.com/sma-female-smp-female-rg178bu-cable-assembly-pe3w05697-hs-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 CAD Drawing SMA Female Bulkhead to SMP Female Right Angle Cable Using RG178 Coax with HeatShrink

