



SMA Female Bulkhead to SMP Female Right Angle Cable 12 Inch Length Using RG178 Coax with HeatShrink

## **RF** Cable Assemblies Technical Data Sheet

## PE3W05697/HS-12

### 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-12 SMA female bulkhead to SMP female right angle 12 inch 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-12 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**

ximum Units	Maximum	Typical	Minimum	Description	
3 GHz	3		DC	quency Range	Frequency
1.4:1	1.4:1			VR	VSWR
%		70		ocity of Propagation	Velocity of
pF/ft [pF/m		29.4 [96.46]		acitance	Capacitand
-		20.4 [00.40]			

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 12 Inch Length Using RG178 Coax with HeatShrink PE3W05697/HS-12

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

© 2019 Pasternack Enterprises All Rights Reserved





SMA Female Bulkhead to SMP Female Right Angle Cable 12 Inch Length Using RG178 Coax with HeatShrink

# **RF Cable Assemblies Technical Data Sheet**

## PE3W05697/HS-12

#### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.51	0.61	0.75	1	1.09	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\* Diameter

#### 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

12 in [304.8 mm] 0.433 in [11 mm]

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]

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 12 Inch Length Using RG178 Coax with HeatShrink PE3W05697/HS-12

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

© 2019 Pasternack Enterprises All Rights Reserved





SMA Female Bulkhead to SMP Female Right Angle Cable 12 Inch Length Using RG178 Coax with HeatShrink

## **RF Cable Assemblies Technical Data Sheet**

## PE3W05697/HS-12

#### 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:

\*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:

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 12 Inch Length Using RG178 Coax with HeatShrink PE3W05697/HS-12

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

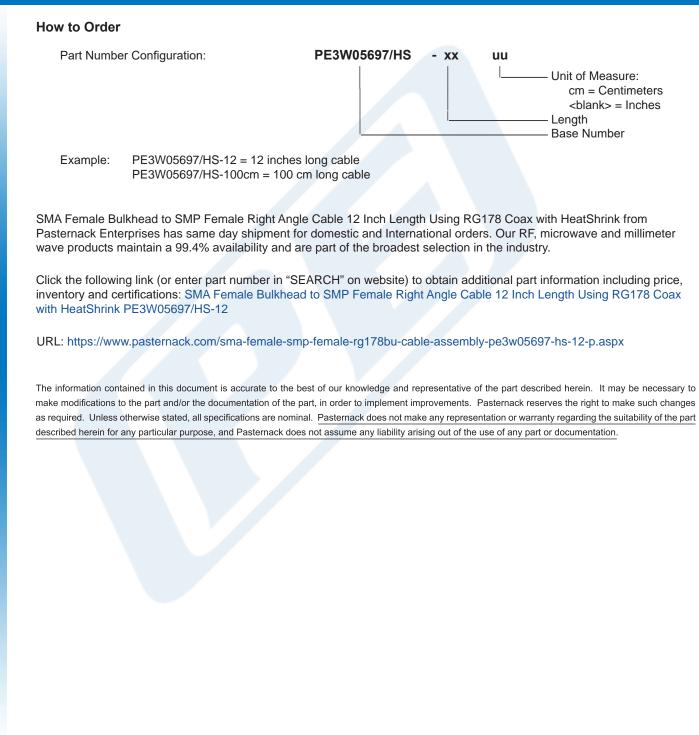




SMA Female Bulkhead to SMP Female Right Angle Cable 12 Inch Length Using RG178 Coax with HeatShrink

# **RF Cable Assemblies Technical Data Sheet**

## PE3W05697/HS-12



Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

© 2019 Pasternack Enterprises All Rights Reserved

PE3W05697/HS-12 CAD Drawing SMA Female Bulkhead to SMP Female Right Angle Cable

MA Female Bulkhead to SMP Female Right Angle Cable 12 Inch Length Using RG178 Coax with HeatShrink

