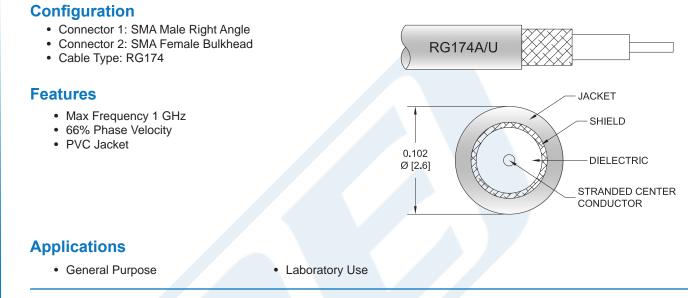




SMA Male Right Angle to SMA Female Bulkhead Cable 100 cm Length Using RG174 Coax with HeatShrink

# RF Cable Assemblies Technical Data Sheet

## PE3W07252/HS-100CM



### Description

Pasternack's PE3W07252/HS-100CM SMA male right angle to SMA female bulkhead 100 cm cable using RG174 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 RG174 coax. The PE3W07252/HS-100CM SMA male to SMA female cable assembly operates to 1 GHz. The right angle SMA interface on the RG174 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		1,000	MHz
VSWR			1.5:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		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 Male Right Angle to SMA Female Bulkhead Cable 100 cm Length Using RG174 Coax with HeatShrink PE3W07252/HS-100CM

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

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### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	500	1,000		MHz
Insertion Loss (Max.)	0.58	0.71	0.92	1.35		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 insertion 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 39.37 in [100 cm] 0.433 in [11 mm]

RG174 50 Ohms Stranded Copper Clad Steel PE 1 Tinned Copper Braid PVC, Black 0.11 in [2.79 mm]

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#### Connectors

Description	Connector 1	Connector 2 SMA Female Bulkhead	
Туре	SMA Male Right Angle		
Specification	MIL-STD-348A		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Nickel	Beryllium Copper, Gold	
Contact Plating Specification	50 µin minimum		
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Brass, Gold	
Body Material and Plating	Brass, Nickel	Brass, Gold	
Body Plating Specification	100 µin minimum		
Coupling Nut Material and Plating	Brass, Nickel		
Coupling Nut Plating Specification	100 µin minimum		
Hex Size	5/16 inch		

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

-40 to +80 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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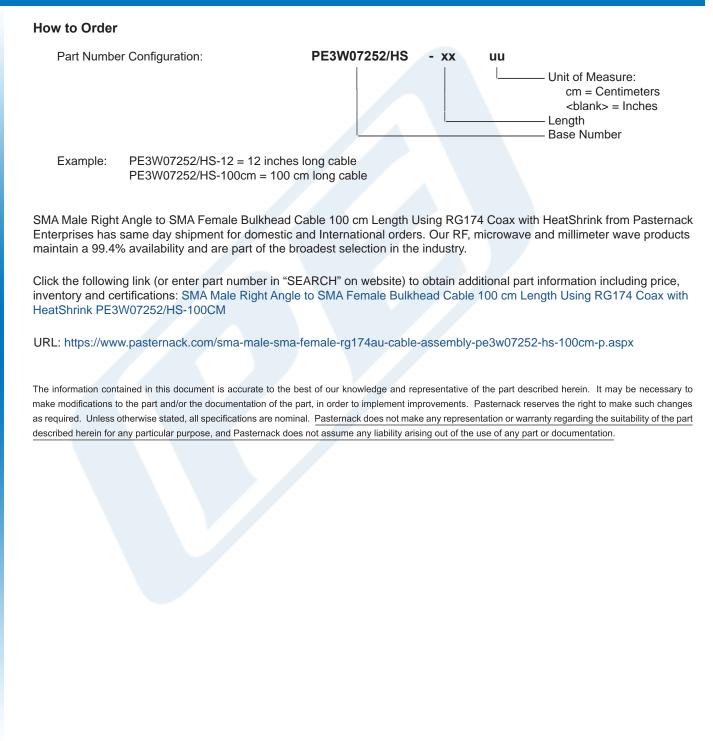




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**PE3W07252/HS-100CM CAD Drawing** SMA Male Right Angle to SMA Female Bulkhead Cable 100 cm

Length Using RG174 Coax with HeatShrink

