



## SMA Male Right Angle to SMA Female Bulkhead Cable 12 Inch Length Using RG174 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

PE3W07252/HS-12

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Female Bulkhead
- Cable Type: RG174

#### Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W07252/HS-12 SMA male right angle to SMA female bulkhead 12 inch 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-12 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 12 Inch Length Using RG174 Coax with HeatShrink PE3W07252/HS-12](#)



## SMA Male Right Angle to SMA Female Bulkhead Cable 12 Inch Length Using RG174 Coax with HeatShrink

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#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4    | F5 | Units |
|-----------------------|------|------|------|-------|----|-------|
| Frequency             | 100  | 250  | 500  | 1,000 |    | MHz   |
| Insertion Loss (Max.) | 0.39 | 0.43 | 0.49 | 0.62  |    | 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*  | 12 in [304.8 mm] |
| Diameter | 0.433 in [11 mm] |

##### Cable

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | RG174               |
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Stranded            |
| Inner Conductor Material and Plating | Copper Clad Steel   |
| Dielectric Type                      | PE                  |
| Number of Shields                    | 1                   |
| Shield Layer 1                       | Tinned Copper Braid |
| Jacket Material                      | PVC, Black          |
| Jacket Diameter                      | 0.11 in [2.79 mm]   |

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 12 Inch Length Using RG174 Coax with HeatShrink PE3W07252/HS-12](#)



## SMA Male Right Angle to SMA Female Bulkhead Cable 12 Inch Length Using RG174 Coax with HeatShrink

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#### Connectors

| Description                          | Connector 1          | Connector 2            |
|--------------------------------------|----------------------|------------------------|
| Type                                 | SMA Male Right Angle | SMA Female Bulkhead    |
| 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:

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 12 Inch Length Using RG174 Coax with HeatShrink PE3W07252/HS-12](#)



## SMA Male Right Angle to SMA Female Bulkhead Cable 12 Inch Length Using RG174 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

PE3W07252/HS-12

#### How to Order

Part Number Configuration:

**PE3W07252/HS**

**- xx**

**uu**

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

Example: PE3W07252/HS-12 = 12 inches long cable  
PE3W07252/HS-100cm = 100 cm long cable

SMA Male Right Angle to SMA Female Bulkhead Cable 12 Inch Length Using RG174 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.

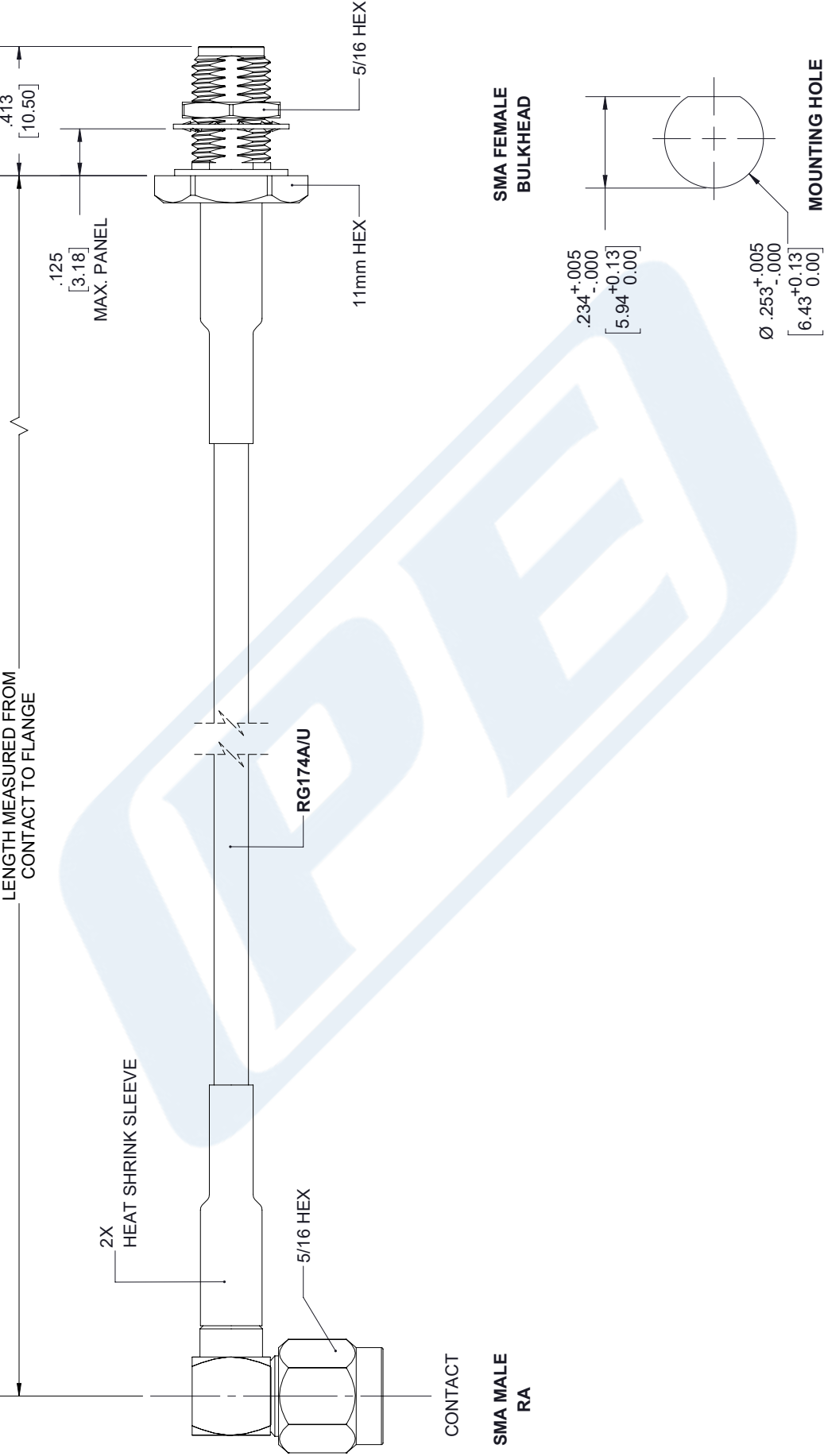
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to SMA Female Bulkhead Cable 12 Inch Length Using RG174 Coax with HeatShrink PE3W07252/HS-12](https://www.pasternack.com/sma-male-sma-female-rg174au-cable-assembly-pe3w07252-hs-12-p.aspx)

URL: <https://www.pasternack.com/sma-male-sma-female-rg174au-cable-assembly-pe3w07252-hs-12-p.aspx>

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PE3W07252/HS-12 CAD Drawing  
SMA Male Right Angle to SMA Female Bulkhead Cable 12 Inch  
Length Using RG174 Coax with HeatShrink

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 04/23/19 | SELLIS   |



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

|   |       |          |              |
|---|-------|----------|--------------|
| <b>PE PASTERNAK</b><br>an INFINITI brand<br>Pasternack Enterprises, Inc.<br>P.O. Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Fax: 1.949.261.7451<br>www.pasternack.com   e-mail: sales@pasternack.com |       |          |              |
| SIZE  | CAGE  | DRAWN BY | PART NUMBER  |
| A   | 53919 | K.DANG   | PE3W07252/HS |
|   |       |          | REV          |
|   |       |          | A            |

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

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