



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

RF Cable Assemblies Technical Data Sheet

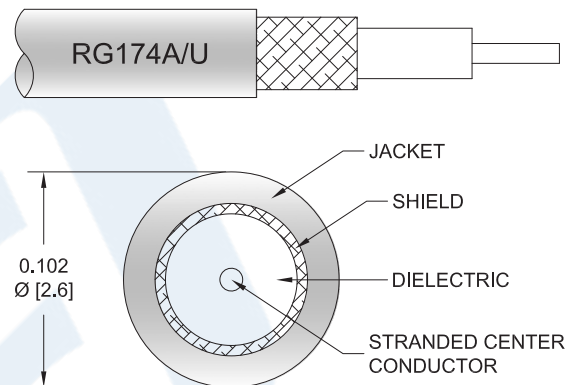
PE3W07252/HS

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 SMA male right angle to SMA female bulkhead 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 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 Using RG174 Coax with HeatShrink PE3W07252/HS](#)



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Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|-------|----|-------|
| Frequency | 100 | 250 | 500 | 1,000 | | MHz |
| Insertion Loss (Max.) | 0.09 | 0.13 | 0.19 | 0.32 | | dB/ft |
| | 0.3 | 0.43 | 0.62 | 1.05 | | dB/m |

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

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]

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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 ± 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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PE3W07252/HS

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 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 Using RG174 Coax with HeatShrink PE3W07252/HS](https://www.pasternack.com/sma-male-sma-female-rg174au-cable-assembly-pe3w07252-hs-p.aspx)

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

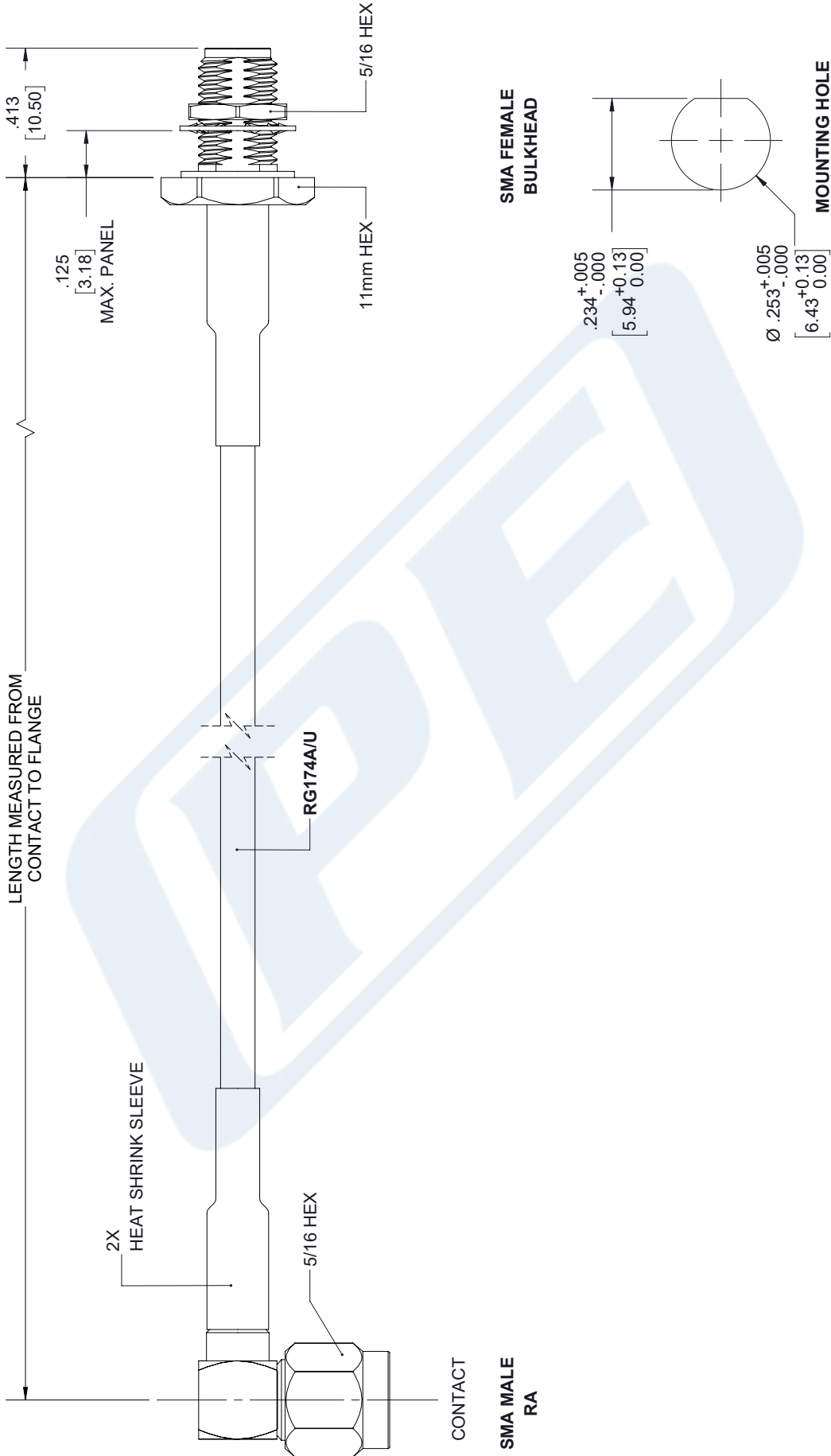
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PE3W07252/HS CAD Drawing

SMA Male Right Angle to SMA Female Bulkhead Cable

Using RG174 Coax with HeatShrink

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



| | |
|--|--|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | |
| TOLERANCES: | FRACTIONS |
| X±.2 [5.08] | ±.132 |
| .XX±.01 [0.25] | ANGLES ± 1° |
| .XXX±.005 [0.13] | ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. |
| THIRD-ANGLE PROJECTION | |

PE PASTERNAK

an INFINITO brand

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SHEET 1 OF 1

SCALE N/A

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|-------------|----------|--------------|-----|
| CAGE NUMBER | DRAWN BY | PART NUMBER | REV |
| A | K.DANG | PE3W07252/HS | A |

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