

SMA Male Right Angle to SMA Female Bulkhead Cable 48 Inch Length Using RG174 Coax with HeatShrink

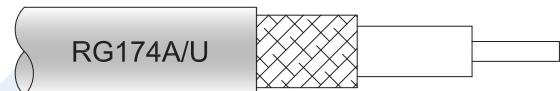


RF Cable Assemblies Technical Data Sheet

PE3W07252/HS-48

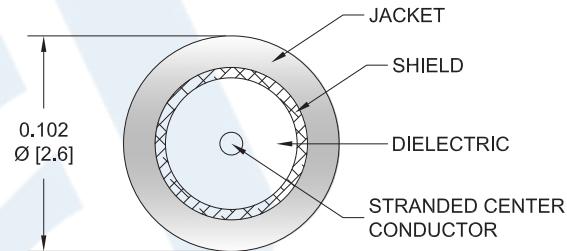
Configuration

- 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-48 SMA male right angle to SMA female bulkhead 48 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-48 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 48 Inch Length Using RG174 Coax with HeatShrink PE3W07252/HS-48](#)

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Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-----|------|-------|----|-------|
| Frequency | 100 | 250 | 500 | 1,000 | | MHz |
| Insertion Loss (Max.) | 0.64 | 0.8 | 1.06 | 1.58 | | 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*

48 in [121.92 cm]

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 μ in minimum | |
| Dielectric Type | PTFE | PTFE |
| Outer Conductor Material and Plating | | Brass, Gold |
| Body Material and Plating | Brass, Nickel | Brass, Gold |
| Body Plating Specification | 100 μ in minimum | |
| Coupling Nut Material and Plating | Brass, Nickel | |
| Coupling Nut Plating Specification | 100 μ in 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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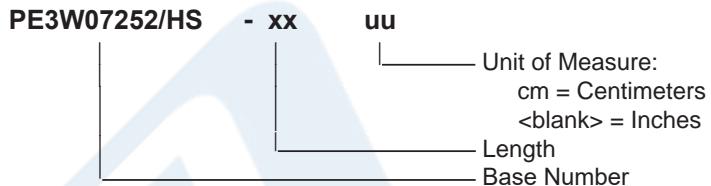


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How to Order

Part Number Configuration:



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

SMA Male Right Angle to SMA Female Bulkhead Cable 48 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.

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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.

PE3W07252/HS-48 CAD Drawing

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