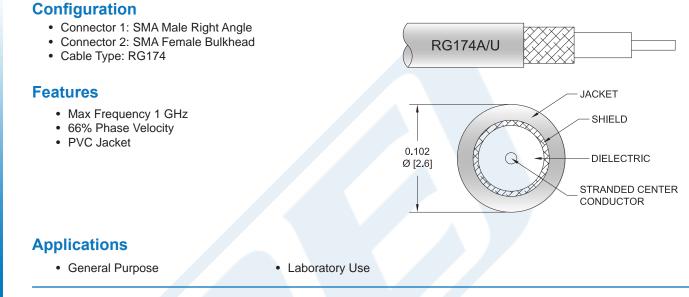


RF Cable Assemblies Technical Data Sheet

PE3W07252/HS-24



Description

Pasternack's PE3W07252/HS-24 SMA male right angle to SMA female bulkhead 24 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-24 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 24 Inch Length Using RG174 Coax with HeatShrink PE3W07252/HS-24

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



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Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|-------|----|-------|
| Frequency | 100 | 250 | 500 | 1,000 | | MHz |
| Insertion Loss (Max.) | 0.47 | 0.55 | 0.68 | 0.94 | | 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 24 in [609.6 mm] 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 | |
|--------------------------------------|----------------------|------------------------|--|
| Туре | 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:

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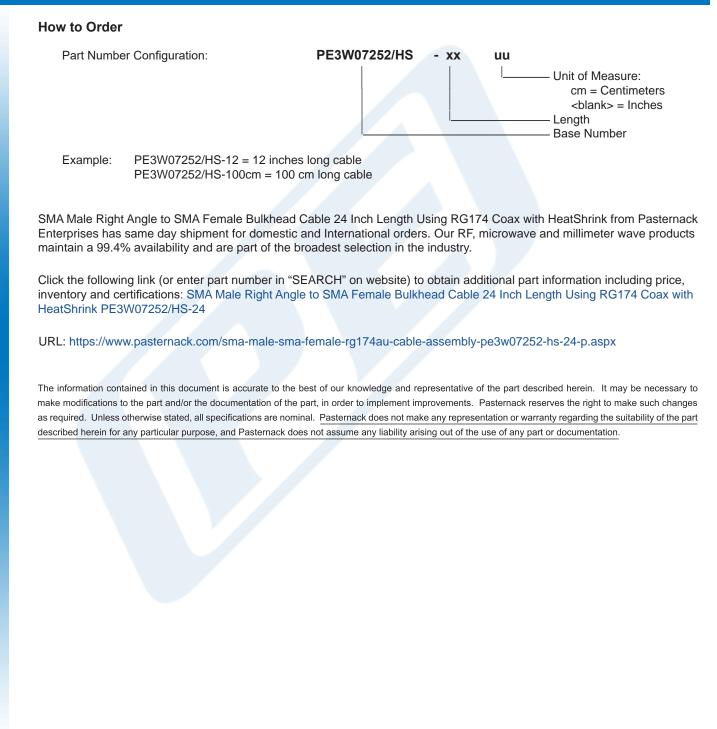
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PE3W07252/HS-24 CAD Drawing SMA Male Right Angle to SMA Female Bulkhead Cable 24 Inch

Length Using RG174 Coax with HeatShrink

