

## SMB Plug to SMB Plug Cable Using RG188-DS Coax with HeatShrink



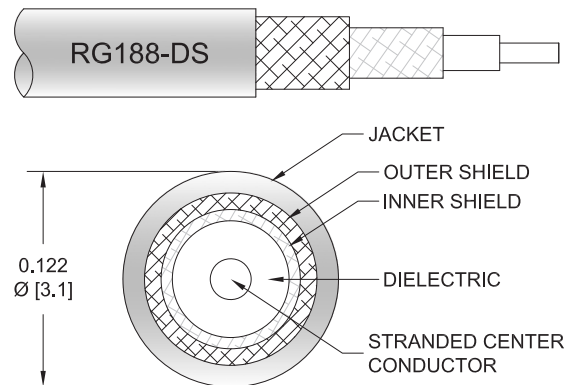
### PE3721/HS

#### Configuration

- Connector 1: SMB Plug
- Connector 2: SMB Plug
- Cable Type: RG188-DS
- Coax Flex Type: Flexible

#### Features

- Max Frequency 4 GHz
- Double Shielded
- PTFE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3721/HS SMB plug to SMB plug cable using RG188-DS 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 SMB to SMB cable assembly has a plug to plug gender configuration with 50 ohm flexible RG188-DS coax. The PE3721/HS SMB plug to SMB plug cable assembly operates to 4 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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      |             | 4       | GHz          |
| VSWR                                 |         |             | 1.4:1   |              |
| Capacitance                          |         | 32 [104.99] |         | pF/ft [pF/m] |
| Dielectric Withstanding Voltage (AC) |         |             | 1,000   | Vrms         |

#### Specifications by Frequency

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### PE3721/HS

| Part Number  | Length                      | Description           | F1    | F2    | F3    | F4   | F5    | Units | Weight (lbs) |
|--------------|-----------------------------|-----------------------|-------|-------|-------|------|-------|-------|--------------|
|              |                             | Frequency             | 100   | 250   | 500   | 1000 | 4000  | MHz   |              |
| PE3721/HS    | Custom Lengths<br>Available | Insertion Loss (Typ.) | 0.115 | 0.145 | 0.197 | 0.3  | 0.667 | dB/ft |              |
|              |                             |                       | 0.38  | 0.48  | 0.65  | 0.99 | 2.19  | dB/m  |              |
| PE3721/HS-12 | 12 inch                     | Insertion Loss (Typ.) | 0.32  | 0.35  | 0.4   | 0.5  | 0.87  | dB    | 0.165        |
| PE3721/HS-24 | 24 inch                     | Insertion Loss (Typ.) | 0.43  | 0.49  | 0.6   | 0.8  | 1.54  | dB    | 0.18         |
| PE3721/HS-36 | 36 inch                     | Insertion Loss (Typ.) | 0.55  | 0.64  | 0.8   | 1.1  | 2.21  | dB    | 0.195        |
| PE3721/HS-48 | 48 inch                     | Insertion Loss (Typ.) | 0.66  | 0.78  | 0.99  | 1.4  | 2.87  | dB    | 0.21         |
| PE3721/HS-60 | 60 inch                     | Insertion Loss (Typ.) | 0.78  | 0.93  | 1.19  | 1.7  | 3.54  | dB    | 0.225        |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

|                             |                |
|-----------------------------|----------------|
| Loss due to Connector 1:    | 0.1 dB         |
| Loss due to Connector 2:    | 0.1 dB         |
| Base Weight:                | 0.165 pounds   |
| Additional Weight per Inch: | 0.00125 pounds |

## Mechanical Specifications

### Cable Assembly

|                |                    |
|----------------|--------------------|
| Width/Diameter | 0.5 in [12.7 mm]   |
| Weight         | 0.15 lbs [68.04 g] |

### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG188-DS                   |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver  |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 2                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Shield Layer 2                       | Silver Plated Copper Braid |
| Jacket Material                      | PTFE, White                |
| Jacket Diameter                      | 0.118 in [3 mm]            |

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PE3721/HS

Connectors

| Description                   | Connector 1            | Connector 2            |
|-------------------------------|------------------------|------------------------|
| Type                          | SMB Plug               | SMB Plug               |
| Specification                 | MIL-STD-348A           | MIL-STD-348A           |
| Impedance                     | 50 Ohms                | 50 Ohms                |
| Configuration                 | Straight               | Straight               |
| Contact Material and Plating  | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification | 30µ in. minimum        | 30µ in. minimum        |
| Dielectric Type               | Teflon                 | Teflon                 |
| Body Material and Plating     | Brass, Nickel          | Brass, Nickel          |
| Body Plating Specification    | 100µ in. minimum       | 100µ in. minimum       |

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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### PE3721/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3721/HS - xx uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example: PE3721/HS-12 = 12 inches long cable  
PE3721/HS-100cm = 100 cm long cable

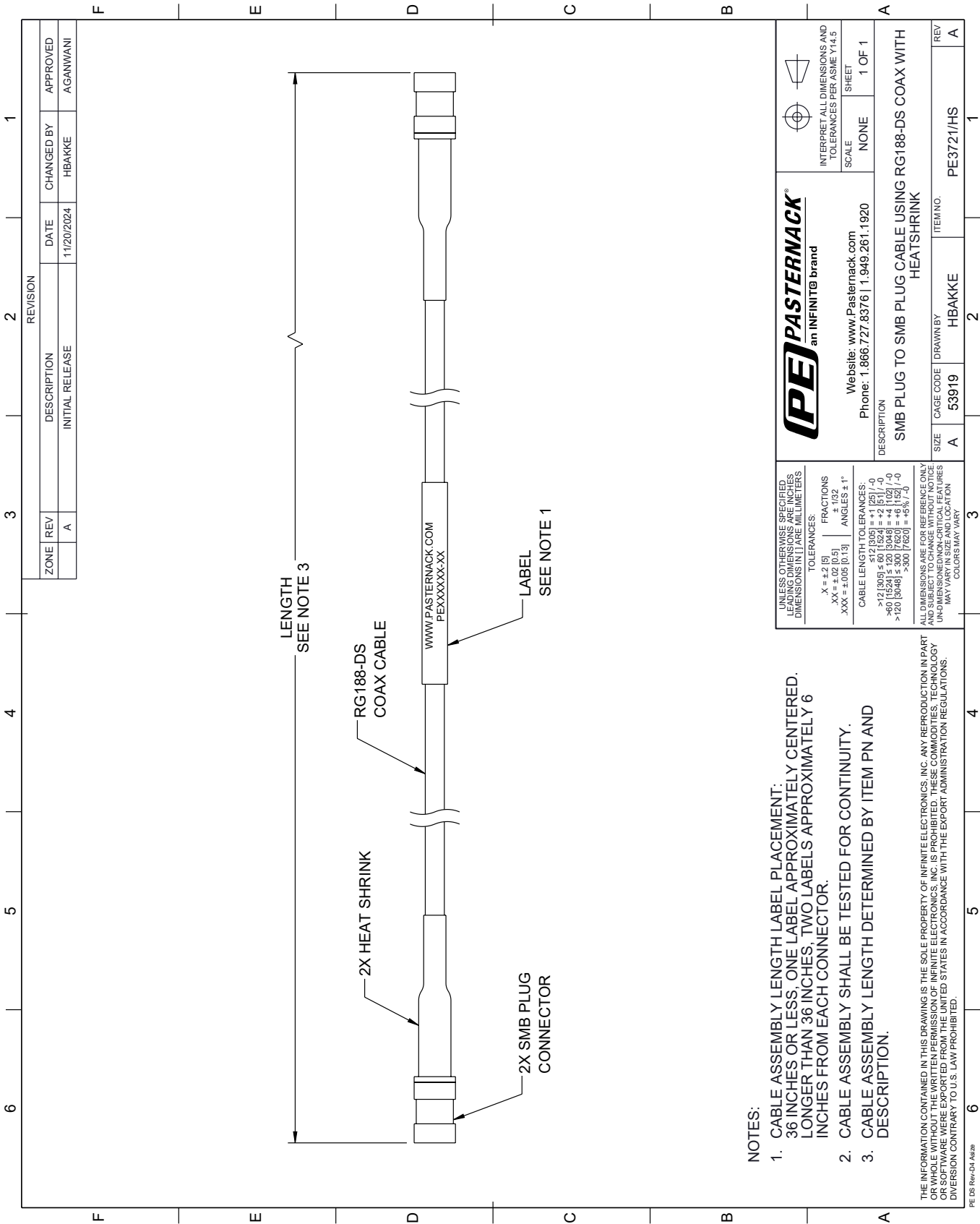
SMB Plug to SMB Plug Cable Using RG188-DS Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Plug to SMB Plug Cable Using RG188-DS Coax with HeatShrink PE3721/HS](#)

URL: <https://www.pasternack.com/smb-plug-to-smb-plug-cable-using-rg188-ds-with-heatshrink-pe3721-hs-p.aspx>

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PE3721/HS CAD Drawing
SMB Plug to SMB Plug Cable Using RG188-DS Coax with HeatShrink



NOTES:

- 1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- 2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
- 3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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