

Mini SMP Female Right Angle to SMA Female Bulkhead Cable Using PE-P086 Coax with Double HeatShrink



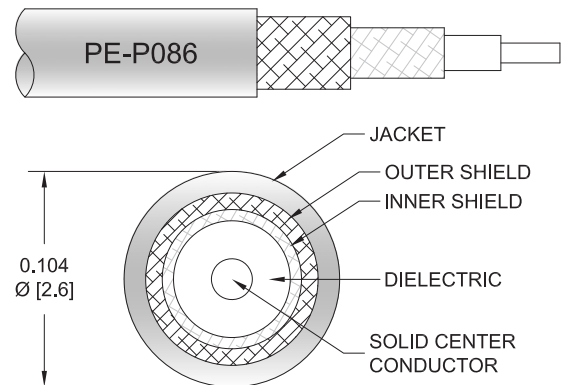
PE3C7527/HS2

Configuration

- Connector 1: Mini SMP Female Right Angle
- Connector 2: SMA Female Bulkhead
- Cable Type: PE-P086
- Coax Flex Type: Flexible

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C7527/HS2 Mini SMP female right angle to SMA female bulkhead cable using PE-P086 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 Mini SMP to SMA cable assembly has a female to female gender configuration with 50 ohm flexible PE-P086 coax. The PE3C7527/HS2 Mini SMP female to SMA female cable assembly operates to 18 GHz. The right angle Mini SMP interface on the PE-P086 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. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 110 dB.

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 | | 18 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 70 | | % |
| RF Shielding | 110 | | | dB |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |

Specifications by Frequency

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| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|-----------------|--------------------------|-----------------------|-------|-------|------|-------|-------|-------|--------------|
| | | Frequency | 1000 | 2000 | 4500 | 9000 | 18000 | MHz | |
| PE3C7527/HS2 | Custom Lengths Available | Insertion Loss (Typ.) | 0.211 | 0.305 | 0.47 | 0.695 | 1.046 | dB/ft | |
| | | | 0.7 | 1.01 | 1.55 | 2.29 | 3.44 | dB/m | |
| PE3C7527/HS2-6 | 6 In | Insertion Loss (Typ.) | 0.91 | 0.96 | 1.04 | 1.15 | 1.33 | dB | 0.022 |
| PE3C7527/HS2-12 | 12 In | Insertion Loss (Typ.) | 1.02 | 1.11 | 1.27 | 1.5 | 1.85 | dB | 0.028 |
| PE3C7527/HS2-24 | 24 In | Insertion Loss (Typ.) | 1.23 | 1.41 | 1.74 | 2.19 | 2.9 | dB | 0.042 |
| PE3C7527/HS2-36 | 36 In | Insertion Loss (Typ.) | 1.44 | 1.72 | 2.21 | 2.89 | 3.94 | dB | 0.055 |
| PE3C7527/HS2-48 | 48 In | Insertion Loss (Typ.) | 1.65 | 2.02 | 2.68 | 3.58 | 4.99 | dB | 0.068 |

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: | 0.2 dB |
| Loss due to Connector 2: | 0.6 dB |
| Base Weight: | 0.028 pounds |
| Additional Weight per Inch: | 0.00109 pounds |

Mechanical Specifications

Cable Assembly

| | |
|----------------|--------------------|
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.028 lbs [12.7 g] |

Cable

| | |
|--------------------------------------|----------------------------|
| Cable Type | PE-P086 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 2 |
| Shield Layer 1 | Silver Plated Copper Tape |
| Shield Layer 2 | Silver Plated Copper Braid |
| Jacket Material | FEP, Blue |
| Jacket Diameter | 0.104 in [2.64 mm] |
| Repeated Minimum Bend Radius | 0.5 in [12.7 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|--------------------------------------|-----------------------------|------------------------------------|
| Type | Mini SMP Female Right Angle | SMA Female Bulkhead |
| Specification | MIL-STD-348A | |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Right Angle | Straight |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold over Nickel |
| Dielectric Type | PTFE | PTFE |
| Outer Conductor Material and Plating | Beryllium Copper, Gold | |
| Body Material and Plating | Brass, Gold | Brass, Gold over Nickel |

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3C7527/HS2

Typical Performance Data

How to Order

Part Number Configuration: **PE3C7527/HS2** **- xx** **uu**

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

Length

Base Number

Example: PE3C7527/HS2-12 = 12 inches long cable
PE3C7527/HS2-100cm = 100 cm long cable

Mini SMP Female Right Angle to SMA Female Bulkhead Cable Using PE-P086 Coax with Double 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: [Mini SMP Female Right Angle to SMA Female Bulkhead Cable Using PE-P086 Coax with Double HeatShrink PE3C7527/HS2](#)

URL: <https://www.pasternack.com/mini-smp-female-right-angle-to-sma-female-bulkhead-cable-using-pe-p086-with-double-heatshrink-pe3c7527-hs2-p.aspx>

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PE3C7527/HS2 CAD Drawing

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