

## Mini SMP Female to SMP Female Right Angle VITA 67 Cable Using PE-P047HF Coax with HeatShrink



### PE3C9735

#### Configuration

- Connector 1: Mini SMP Female
- Connector 2: SMP Female Right Angle
- Coax Cable Group: 2
- Coax Flex Type: Flexible

#### Features

- Max Frequency 18 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Standard MIL-STD-348 SMPM interface
- Push-on/snap-on mating style for quick installation
- Mini SMP (SMPM) Female compatible with VITA 67 PE45531/PE45532/PE45537 (4-port) and PE45533/PE45534/PE45538 (8-port) blocks
- Mini SMP Male compatible with VITA 67 PE45531/PE45532/PE45537 (4-port) and PE45533/PE45534/PE45538 (8-port) blocks

#### Applications

- General Purpose
- Laboratory Use
- Scientific research
- High-reliability, high-density for aerospace & defense application
- Ground base station & communication systems, avionics, radar systems

#### Description

Pasternack's PE3C9735 Mini SMP female to SMP female right angle cable using PE-P047HF coax is part of our full line of RF components available for same-day shipping. Pasternack's VITA 67 assemblies are high-density, high-performance RF cable assemblies that fit into VITA 67 blocks and attach to the PCB board which makes it ideal for applications where tight bends and flexure is required. This Pasternack Mini SMP to SMP cable assembly has a female to female gender configuration with 50 ohm flexible coax. The PE3C9735 Mini SMP female to SMP female cable assembly operates to 18 GHz. The right angle SMP interface on the cable allows for easier connections in tight spaces.

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                    |         |         | 1.25:1  |       |
| Velocity of Propagation |         | 70      |         | %     |
| RF Shielding            | 90      |         |         | dB    |

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#### Electrical Specifications

| Description | Minimum | Typical    | Maximum | Units        |
|-------------|---------|------------|---------|--------------|
| Capacitance |         | 29 [95.14] |         | pF/ft [pF/m] |

#### Specifications by Frequency

| Description           | F1    | F2    | F3    | F4    | F5    | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency             | 1     | 2     | 4.5   | 9     | 18    | GHz   |
| Insertion Loss (Typ.) | 0.211 | 0.305 | 0.472 | 0.695 | 1.046 | dB/ft |
|                       | 0.69  | 1     | 1.55  | 2.28  | 3.43  | dB/m  |

Electrical Specification Notes:  
Values at 25°C, sea level.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.23 lbs [104.33 g]

##### Cable

Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper, Silver  
Dielectric Type FEP  
Shield Layer 1 Silver Plated Copper Tape

#### Connectors

| Description                   | Connector 1            | Connector 2            |
|-------------------------------|------------------------|------------------------|
| Type                          | Mini SMP Female        | SMP Female Right Angle |
| Impedance                     | 50 Ohms                | 50 Ohms                |
| Configuration                 | Straight               | Right Angle            |
| Contact Material and Plating  | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification | ASTM B488              | MIL-G-45204            |
| Body Material and Plating     | Brass, Gold            | Beryllium Copper, Gold |
| Body Plating Specification    | ASTM B488              | MIL-G-45204            |

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:  
Values at 25°C, sea level.

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### PE3C9735

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C9735**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C9735-12 = 12 inches long cable  
PE3C9735-100cm = 100 cm long cable

Mini SMP Female to SMP Female Right Angle VITA 67 Cable Using PE-P047HF 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: [Mini SMP Female to SMP Female Right Angle VITA 67 Cable Using PE-P047HF Coax with HeatShrink PE3C9735](https://www.pasternack.com/mini-smp-female-to-smp-female-vita-67-cable-using-pe-p047hf-with-heatshrink-pe3c9735-p.aspx)

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