

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



PE3C9728

Configuration

- Connector 1: Mini SMP Male
- 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 PE3C9728 Mini SMP male 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 male to female gender configuration with 50 ohm flexible coax. The PE3C9728 Mini SMP male 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.) | 0.335 | 0.484 | 0.745 | 1.102 | 1.652 | dB/ft |
| | 1.1 | 1.59 | 2.44 | 3.62 | 5.42 | dB/m |

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

Mechanical Specifications

Cable Assembly

Weight 0.145 lbs [65.77 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 Male | 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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PE3C9728

Typical Performance Data

How to Order

Part Number Configuration:

PE3C9728

- **xx**

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C9728-12 = 12 inches long cable
PE3C9728-100cm = 100 cm long cable

Mini SMP Male 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.

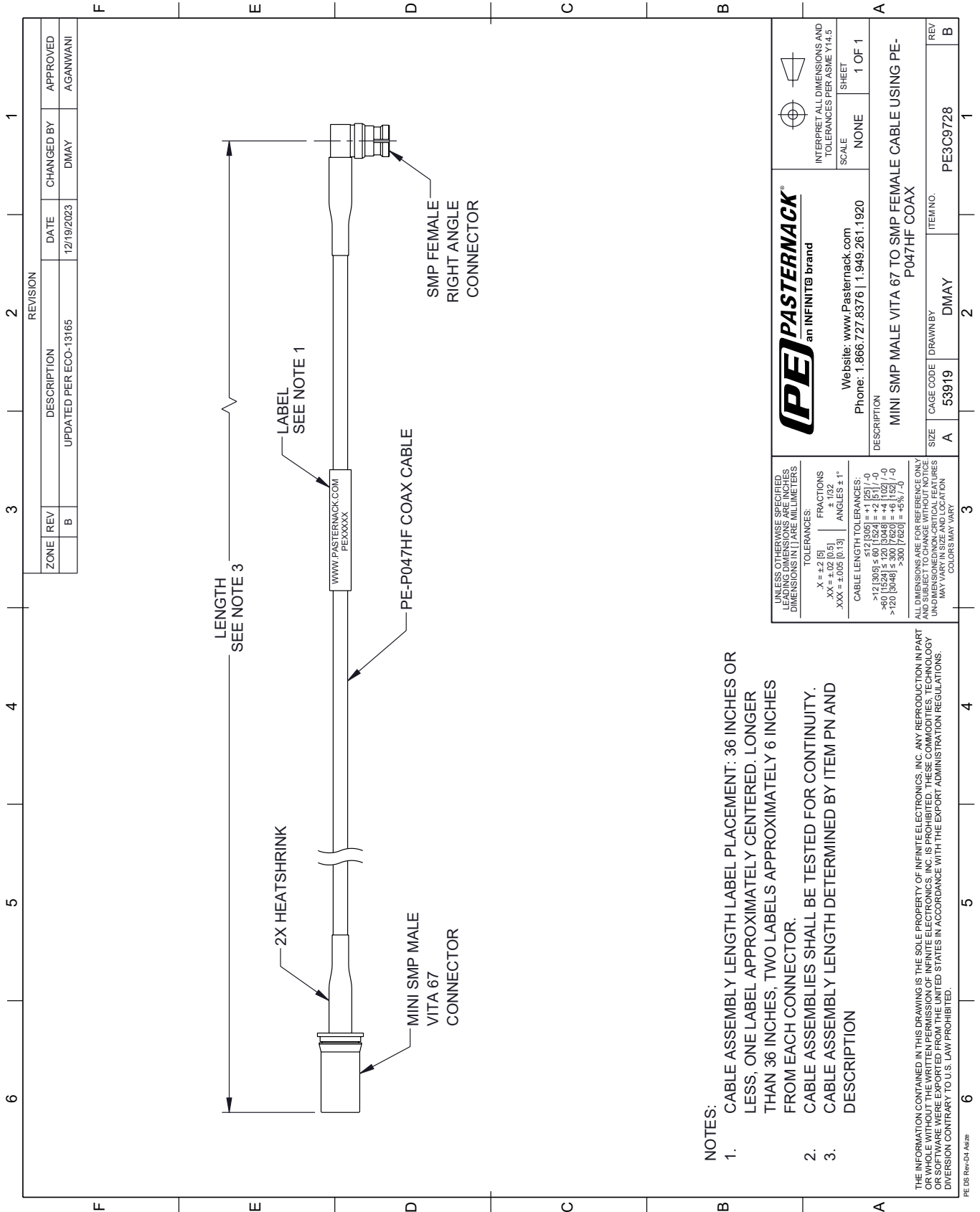
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Male to SMP Female Right Angle VITA 67 Cable Using PE-P047HF Coax with HeatShrink PE3C9728](#)

URL: <https://www.pasternack.com/mini-smp-male-to-smp-female-vita-67-cable-using-pe-p047hf-with-heatshrink-pe3c9728-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C9728 CAD Drawing

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



| REVISION | | DATE | CHANGED BY | APPROVED | |
|----------|-----|-----------------------|------------|------------|----------|
| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
| | B | UPDATED PER ECO-13165 | 12/19/2023 | DMAY | AGANWANI |

| | | | |
|---|-----------|--|----------|
| | | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1 | |
| Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920 | | | |
| DESCRIPTION: MINI SMP MALE VITA 67 TO SMP FEMALE CABLE USING PE-P047HF COAX | | | |
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A | 53919 | DMAY | PE3C9728 |

- NOTES:**
- 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.
 - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.

TOLERANCES: .X = +.2 [5] FRACTIONS ± 1/32
 .XX = ±.02 [0.5] ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
 <12 [305] ≤ 60 [1524] = +.2 [5] / -0
 >60 [1524] ≤ 120 [3048] = +.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +.6 [152] / -0

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