



SMA Male to SMP Female Right Angle Cable Using PE-SR047FL Coax

TECHNICAL DATA SHEET

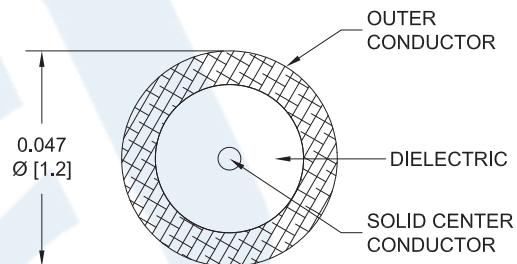
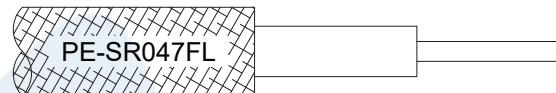
PE3W02122

Configuration

- Connector 1: SMA Male
- Connector 2: SMP Female Right Angle
- Cable Type: PE-SR047FL
- Coax Flex Type: Formable

Features

- Max Frequency 18 GHz



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W02122 SMA male to SMP female right angle cable using PE-SR047FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack SMA to SMP cable assembly has a male to female gender configuration with 50 ohm formable PE-SR047FL coax. The PE3W02122 SMA male to SMP female cable assembly operates to 18 GHz. The right angle SMP interface on the PE-SR047FL 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMP Female Right Angle Cable Using PE-SR047FL Coax PE3W02122](#)



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Electrical Specifications

| Description | Minimum | Typical | | Maximum | Units |
|-----------------|-------------|---------|--|---------|--------------|
| Frequency Range | DC | | | 18 | GHz |
| Capacitance | 32 [104.99] | | | | pF/ft [pF/m] |

Specifications by Frequency

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|------|------|------|------|-----------|-------|--------------|
| | | Frequency | 1000 | 2000 | 4500 | 9000 | ##### MHz | | |
| PE3W02122 | Custom Lengths Available | Insertion Loss (Typ.) | 0.36 | 0.5 | 0.8 | 1.19 | 1.79 | dB/ft | |
| | | | 1.19 | 1.65 | 2.63 | 3.91 | 5.88 | dB/m | |
| PE3W02122-6 | 6 inch | Insertion Loss (Typ.) | 0.48 | 0.55 | 0.7 | 0.9 | 1.2 | dB | 0.015 |
| PE3W02122-9 | 9 inch | Insertion Loss (Typ.) | 0.57 | 0.68 | 0.9 | 1.2 | 1.65 | dB | 0.016 |
| PE3W02122-12 | 12 inch | Insertion Loss (Typ.) | 0.66 | 0.8 | 1.1 | 1.49 | 2.09 | dB | 0.016 |
| PE3W02122-24 | 24 inch | Insertion Loss (Typ.) | 1.02 | 1.3 | 1.9 | 2.68 | 3.88 | dB | 0.019 |
| PE3W02122-36 | 36 inch | Insertion Loss (Typ.) | 1.38 | 1.8 | 2.7 | 3.87 | 5.67 | dB | 0.022 |

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: 0.2 dB

Base Weight: 0.016 pounds

Additional Weight per Inch: 0.00025 pounds

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Weight 0.016 lbs [7.26 g]

Cable

| | |
|--------------------------------------|--------------------------------|
| Cable Type | PE-SR047FL |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver PTFE |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Shield Layer 1 | Tinned Copper Braid |
| Jacket Diameter | 0.047 in [1.19 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|-------------------------------|--------------------------------|
| Type | SMA Male Threaded | SMP Female Right Angle Push-On |
| Specification | | MIL-STD-348 |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification | MIL-G-45204, Type II, Class 1 | MIL-G-45204 |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Gold | Beryllium Copper, Gold |
| Body Plating Specification | | MIL-G-45204 |
| Coupling Nut Material and Plating | Passivated Stainless Steel | |
| Hex Size | 5/16 in. | |
| Torque | 8 in-lbs [0.9 Nm] | |

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W02122- **xx****uu**

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

Length
Base Number

Example: PE3W02122-12 = 12 inches long cable
PE3W02122-100cm = 100 cm long cable

SMA Male to SMP Female Right Angle Cable Using PE-SR047FL Coax 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.

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URL: <https://www.pasternack.com/sma-male-smp-female-pe-sr047fl-cable-assembly-pe3w02122-p.aspx>

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

PE3W02122 CAD Drawing

SMA Male to SMP Female Right Angle Cable Using PE-SR047FL Coax

