

## SMA Male to SMA Male Cable Using PE-SR405FL Coax



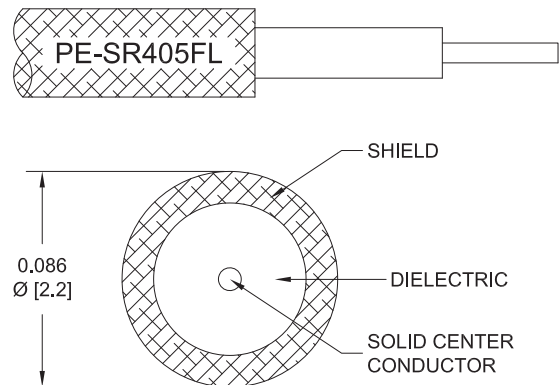
### PE3W02621

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: PE-SR405FL
- Coax Flex Type: Formable

#### Features

- Max Frequency 18 GHz
- 69.5% Phase Velocity



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W02621 SMA male to SMA male cable using PE-SR405FL 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 SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR405FL coax. The PE3W02621 SMA male to SMA male cable assembly operates to 18 GHz.

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       |         | 69.5          |         | %                     |
| Capacitance                   |         | 29 [95.14]    |         | pF/ft [pF/m]          |
| DC Resistance Inner Conductor |         | 65.7 [215.55] |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor |         | 10.2 [33.46]  |         | Ohms/1000ft [Ohms/Km] |

#### 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   |              |
| PE3W02621    | Custom Lengths Available | Insertion Loss (Typ.) | 0.23 | 0.31 | 0.508 | 0.759 | 1.122 | dB/ft |              |
|              |                          |                       | 0.74 | 1.01 | 1.67  | 2.5   | 3.69  | dB/m  |              |
| PE3W02621-6  | 6 inch                   | Insertion Loss (Typ.) | 0.32 | 0.36 | 0.46  | 0.58  | 0.77  | dB    | 0.028        |
| PE3W02621-9  | 9 inch                   | Insertion Loss (Typ.) | 0.37 | 0.43 | 0.59  | 0.77  | 1.05  | dB    | 0.031        |
| PE3W02621-12 | 12 inch                  | Insertion Loss (Typ.) | 0.43 | 0.51 | 0.71  | 0.96  | 1.33  | dB    | 0.033        |
| PE3W02621-24 | 24 inch                  | Insertion Loss (Typ.) | 0.65 | 0.82 | 1.22  | 1.72  | 2.45  | dB    | 0.045        |
| PE3W02621-36 | 36 inch                  | Insertion Loss (Typ.) | 0.88 | 1.12 | 1.73  | 2.48  | 3.57  | dB    | 0.056        |

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:                | 0.033 pounds   |
| Additional Weight per Inch: | 0.00092 pounds |

### Mechanical Specifications

#### Cable Assembly

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.033 lbs [14.97 g] |

#### Cable

|                                        |                           |
|----------------------------------------|---------------------------|
| Cable Type                             | PE-SR405FL                |
| Impedance                              | 50 Ohms                   |
| Inner Conductor Type                   | Solid                     |
| Inner Conductor Material and Plating   | Copper Clad Steel, Silver |
| Dielectric Type                        | PTFE                      |
| Number of Shields                      | 1                         |
| Outer Conductor 1 Material and Plating | Copper, Tin               |
| Repeated Minimum Bend Radius           | 0.78 in [19.81 mm]        |

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#### Connectors

| Description                        | Connector 1      | Connector 2      |
|------------------------------------|------------------|------------------|
| Type                               | SMA Male         | SMA Male         |
| Specification                      | MIL-STD-348A     | MIL-STD-348A     |
| Impedance                          | 50 Ohms          | 50 Ohms          |
| Configuration                      | Straight         | Straight         |
| Contact Material and Plating       | Brass, Gold      | Brass, Gold      |
| Contact Plating Specification      | 50µin. minimum   | 50µin. minimum   |
| Dielectric Type                    | Teflon           | Teflon           |
| Body Material and Plating          | Brass, Gold      | Brass, Gold      |
| Body Plating Specification         | 3µin. minimum    | 3µin. minimum    |
| Coupling Nut Material and Plating  | Brass, Gold      | Brass, Gold      |
| Coupling Nut Plating Specification | 3µin. minimum    | 3µin. minimum    |
| Hex Size                           | 5/16 Inch        | 5/16 Inch        |
| Torque                             | 3 in-lbs 0.34 Nm | 3 in-lbs 0.34 Nm |

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

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### PE3W02621

#### Typical Performance Data

#### How to Order

Part Number Configuration: **PE3W02621 - xx uu**

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

Length

Base Number

Example: PE3W02621-12 = 12 inches long cable  
PE3W02621-100cm = 100 cm long cable

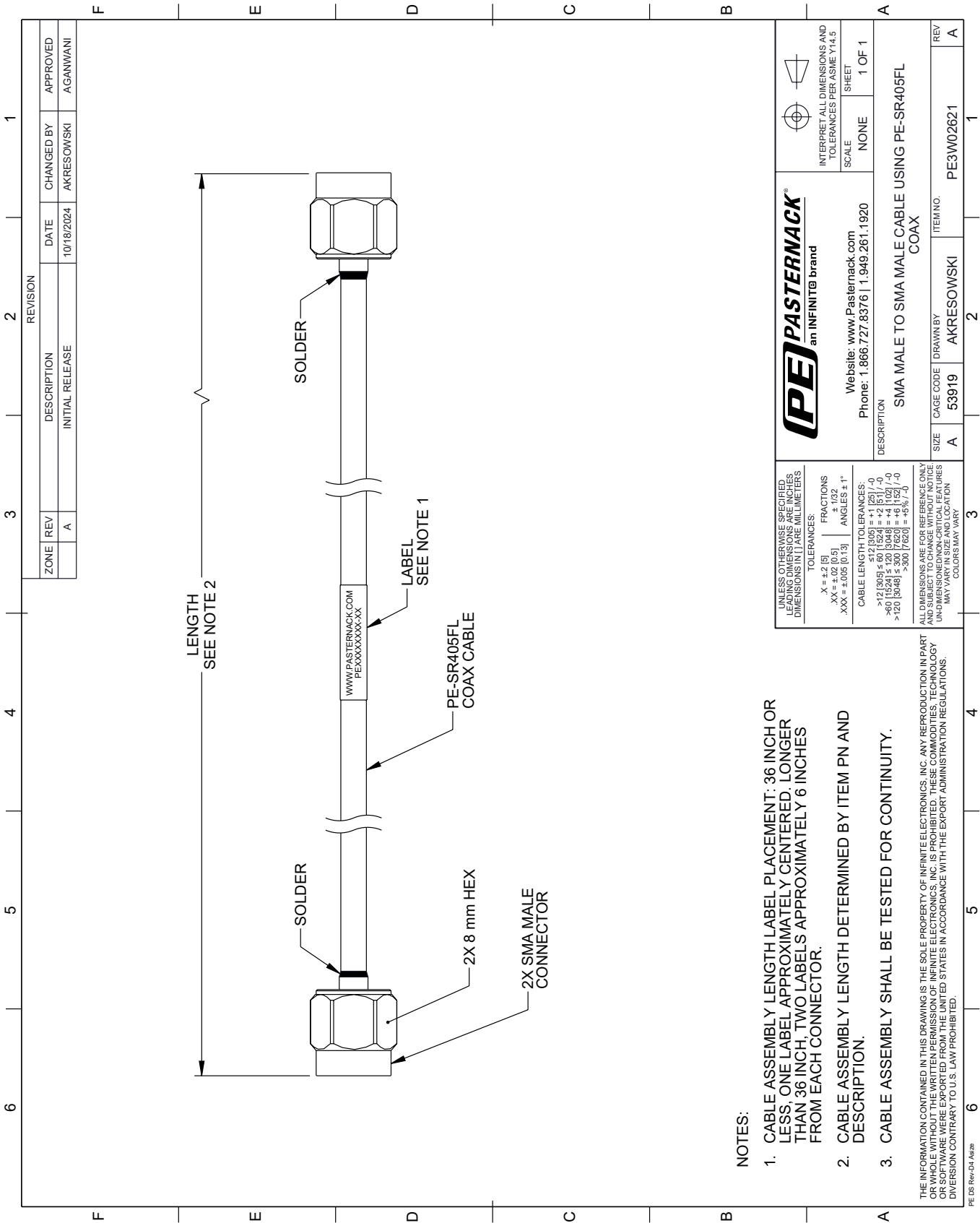
SMA Male to SMA Male Cable Using PE-SR405FL Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 SMA Male Cable Using PE-SR405FL Coax PE3W02621](#)

URL: <https://www.pasternack.com/sma-male-to-sma-male-cable-using-pe-sr405fl-pe3w02621-p.aspx>

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PE3W02621 CAD Drawing
SMA Male to SMA Male Cable Using PE-SR405FL Coax



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

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