



Mini SMP Female Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

**PE44494**

### Configuration

- Mini SMP Female Connector
- MIL-STD-348A
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

### Features

- Max. Operating Frequency 65 GHz
- Gold Plated Beryllium Copper Contact
- Blind Mate Connector

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44494 Right Angle, Mini SMP, Standard, Connector is part of our full line of RF components available for same-day shipping. Our Mini SMP female connector operates up to a maximum frequency of 65 GHz. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated. Its right angle body geometry allows for easier connections in tight spaces.

Our Mini SMP female right angle connector PE44494 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

### Electrical Specifications

| Description                   | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|---------|---------|-------|
| Frequency Range               | DC      |         | 65      | GHz   |
| Operating Voltage (AC)        |         |         | 325     | Vrms  |
| Impedance                     |         | 50      |         | Ohms  |
| Inner Conductor DC Resistance |         |         | 6       | mOhms |
| Outer Conductor DC Resistance |         |         | 2       | mOhms |
| Insulation Resistance         | 5,000   |         |         | MOhms |

### Performance by Frequency

| Description     | F1      | F2      | F3       | F4 | F5 | Units |
|-----------------|---------|---------|----------|----|----|-------|
| Frequency Range | DC to 6 | 6 to 12 | 12 to 18 |    |    | GHz   |
| VSWR, Max       | 1.11:1  | 1.23:1  | 1.33:1   |    |    |       |

Electrical Specification Notes:  
Insertion loss =  $0.05 \times \sqrt{f(\text{GHz})}$  dB max

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 Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE44494](#)



Mini SMP Female Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

**PE44494**

### Mechanical Specifications

#### Size

|        |                   |
|--------|-------------------|
| Length | 0.24 in [6.10 mm] |
| Width  | 0.14 in [3.51 mm] |
| Height | 0.24 in [6.10 mm] |
| Weight | 0.01 lbs [3.18 g] |

### Material Specifications

| Description     | Material         | Plating |
|-----------------|------------------|---------|
| Contact         | Beryllium Copper | Gold    |
| Insulation      | PTFE             |         |
| Outer Conductor | Beryllium Copper | Gold    |
| Body            | Brass            | Gold    |

Mechanical Specification Notes:

Mating cycles: 500 (smooth bore), 100 (full detent) minimum.

### Environmental Specifications

#### Temperature

|                 |                                      |
|-----------------|--------------------------------------|
| Operating Range | -55 to +155 deg C                    |
| Humidity        | MIL-STD-202, Method 106              |
| Shock           | MIL-STD-202, Method 213, Condition A |
| Vibration       | MIL-STD-202, Method 204, Condition A |
| Thermal Shock   | MIL-STD-202, Method 107, Condition B |

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

### Plotted and Other Data

Notes:

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 Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE44494](#)



Mini SMP Female Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

**PE44494**

Mini SMP Female Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 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.

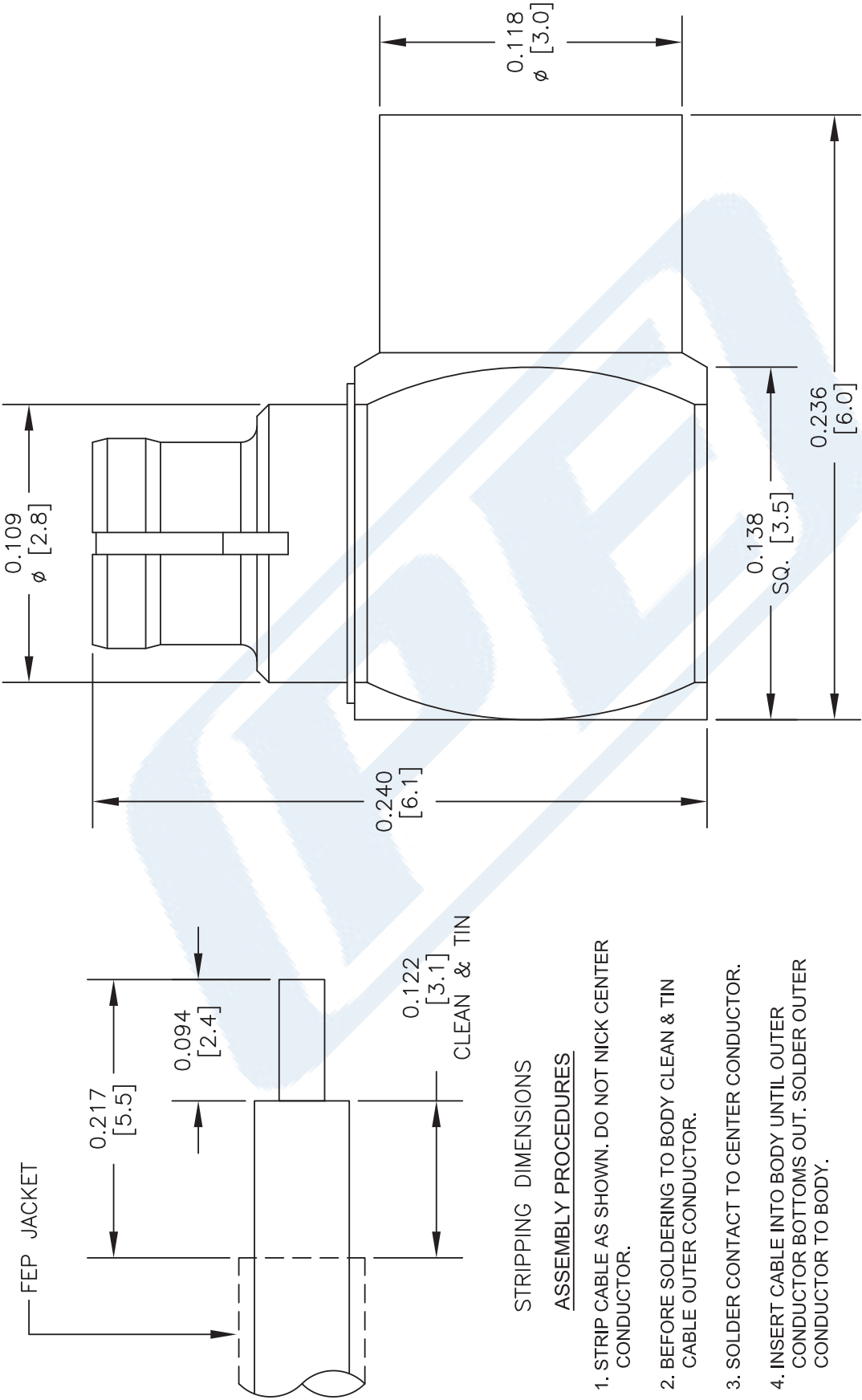
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE44494](https://www.pasternack.com/mini-smp-female-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe44494-p.aspx)

URL: <https://www.pasternack.com/mini-smp-female-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe44494-p.aspx>

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PE44494 CAD Drawing

Mini SMP Female Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405



NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].  
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE

PE44494

FSCM NO. 53919

CAD FILE 081213

SCALE N/A

SIZE A

2233

**PE PASTERNAK®**

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## SMA Male Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405

### RF Connectors Technical Data Sheet

**PE4025**

#### Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: PE-SR405AL, PE-SR405FL, RG405
- 5/16 inch Hex

#### Features

- Max. Operating Frequency 10 GHz
- Excellent VSWR of 1.23:1
- Gold Plated Brass Contact
- 50 µin minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4025 Right Angle, SMA, Standard, Connector is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 10 GHz and offers excellent VSWR of 1.23:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SMA male right angle connector PE4025 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

| Description            | Minimum | Typical | Maximum | Units |
|------------------------|---------|---------|---------|-------|
| Frequency Range        | DC      |         | 10      | GHz   |
| VSWR                   |         |         | 1.23:1  |       |
| Operating Voltage (AC) |         |         | 335     | Vrms  |
| Impedance              |         | 50      |         | Ohms  |

#### Mechanical Specifications

|               |                                 |
|---------------|---------------------------------|
| <b>Size</b>   |                                 |
| Length        | 0.65 in [16.51 mm]              |
| Width         | 0.32 in [8.00 mm]               |
| Height        | 0.44 in [11.20 mm]              |
| Weight        | 0.02 lbs [6.80 g]               |
| Mating Torque | 3 to 5 in-lbs [0.34 to 0.57 Nm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405 PE4025](#)



## SMA Male Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405

### RF Connectors Technical Data Sheet

**PE4025**

#### Material Specifications

| Description  | Material        | Plating                   |
|--------------|-----------------|---------------------------|
| Contact      | Brass           | Gold<br>50 µin minimum    |
| Insulation   | PTFE            |                           |
| Body         | Stainless Steel | Gold<br>30 µin minimum    |
| Coupling Nut | Brass           | Nickel<br>100 µin minimum |

#### Environmental Specifications

##### Temperature

Operating Range

-65 to +165 deg C

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

#### Plotted and Other Data

Notes:

SMA Male Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405 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 Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405 PE4025](#)

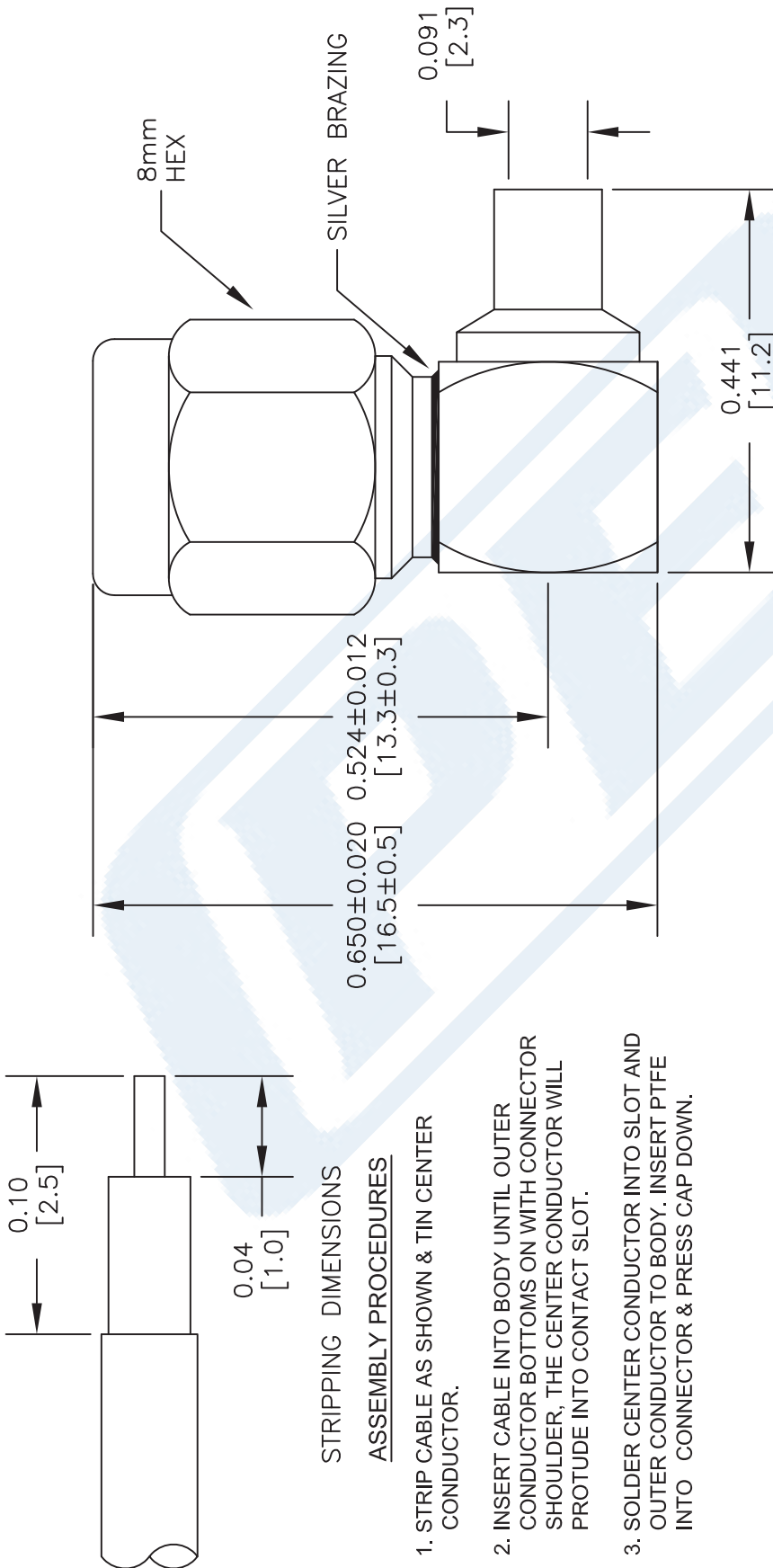
URL: <https://www.pasternack.com/sma-male-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe4025-p.aspx>

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# PE4025 CAD Drawing

SMA Male Right Angle Connector Solder Attachment  
for PE-SR405AL, PE-SR405FL, RG405



## STANDARD TOLERANCES

.X ±0.2  
.XX ±0.1  
.XXX ±0.05

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

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DWG TITLE

**PE4025**

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3. DIMENSIONS ARE IN INCHES [mm].  
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

FSCM NO. 53919

CAD FILE 060716

SCALE N/A

SIZE A

2233

## RG405 Tinned Coax Cable with Tinned Copper Outer Conductor

### RF Cables Technical Data Sheet

PE-SR405TN

#### Configuration

- Semi-Rigid Cable
- MIL-C-17
- 1 Shield(s)

#### Electrical Specifications

| Description     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | DC      |         | 40      | GHz   |
| Impedance       |         | 50      |         | Ohms  |

#### Performance by Frequency Band

| Description           | F1    | F2     | F3    | F4 | F5 | Units    |
|-----------------------|-------|--------|-------|----|----|----------|
| Frequency             | 1     | 10     | 20    |    |    | GHz      |
| Attenuation, Typ      | 22    | 80     | 120   |    |    | dB/100ft |
|                       | 72.18 | 262.47 | 393.7 |    |    | dB/100m  |
| Input Power (CW), Max | 130   | 35     | 20    |    |    | Watts    |

#### Mechanical Specifications

Min. Bend Radius (Installation) 0.05 in [1.27 mm]

#### Construction Specifications

| Description     | Material and Plating                | Diameter           |
|-----------------|-------------------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, Silver, 1 Strand | 0.02 in 0.51 mm    |
| Conductor Type  | Solid                               |                    |
| Dielectric      | PTFE                                | 0.066 in [1.68 mm] |
| First Shield    | Tinned Copper                       | 0.087 in 2.21 mm   |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RG405 Tinned Coax Cable with Tinned Copper Outer Conductor PE-SR405TN](#)



## RG405 Tinned Coax Cable with Tinned Copper Outer Conductor

### RF Cables Technical Data Sheet

PE-SR405TN

#### Environmental Specifications

##### Temperature

Operating Range

-55 to +125 deg C

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

#### Plotted and Other Data

Notes:

RG405 Tinned Coax Cable with Tinned Copper Outer Conductor 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.

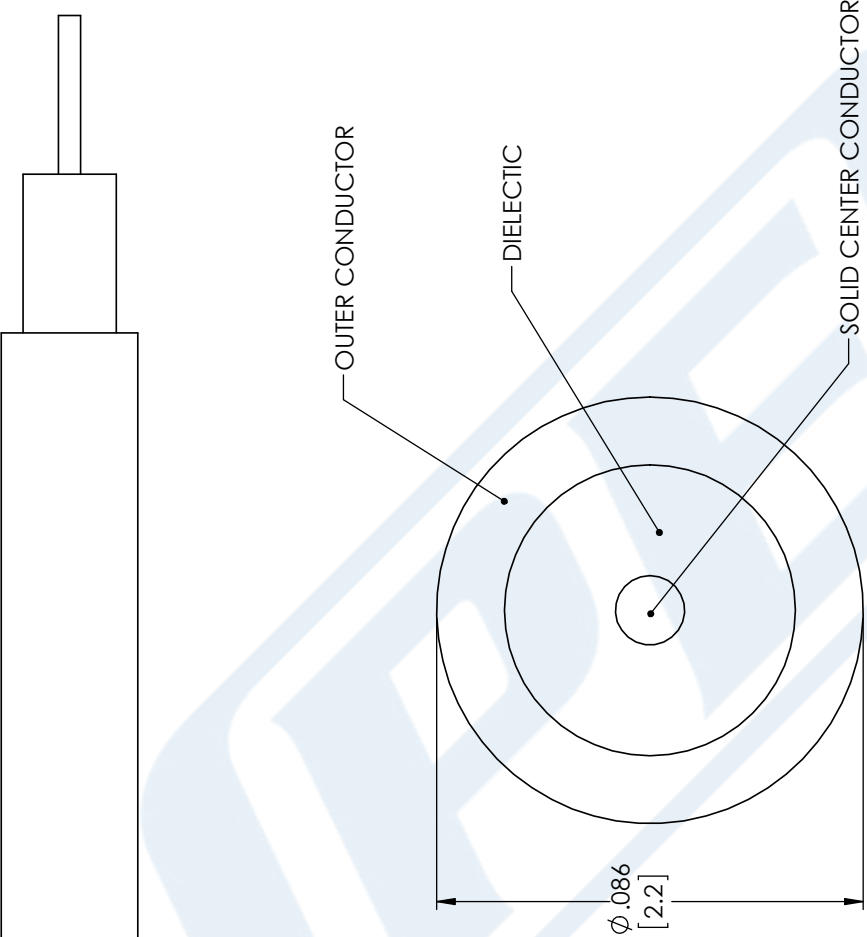
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RG405 Tinned Coax Cable with Tinned Copper Outer Conductor PE-SR405TN](#)

URL: <https://www.pasternack.com/50-ohm-semi-rigid-rg405-tinned-tinned-copper-pe-sr405tn-p.aspx>

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PE-SR405TN CAD Drawing

RG405 Tinned Coax Cable with Tinned Copper Outer Conductor



| STANDARD TOLERANCES |        |
|---------------------|--------|
| .X                  | ±0.2   |
| .XX                 | ±0.01  |
| .XXX                | ±0.005 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

**[PE]**

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DWG TITLE

PE-SR405TN

CAGE CODE 53919

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|          |          |       |     |      |   |        |
|----------|----------|-------|-----|------|---|--------|
| CAD FILE | 11/28/17 | SCALE | N/A | SIZE | A | CN2245 |
|----------|----------|-------|-----|------|---|--------|