

# 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.

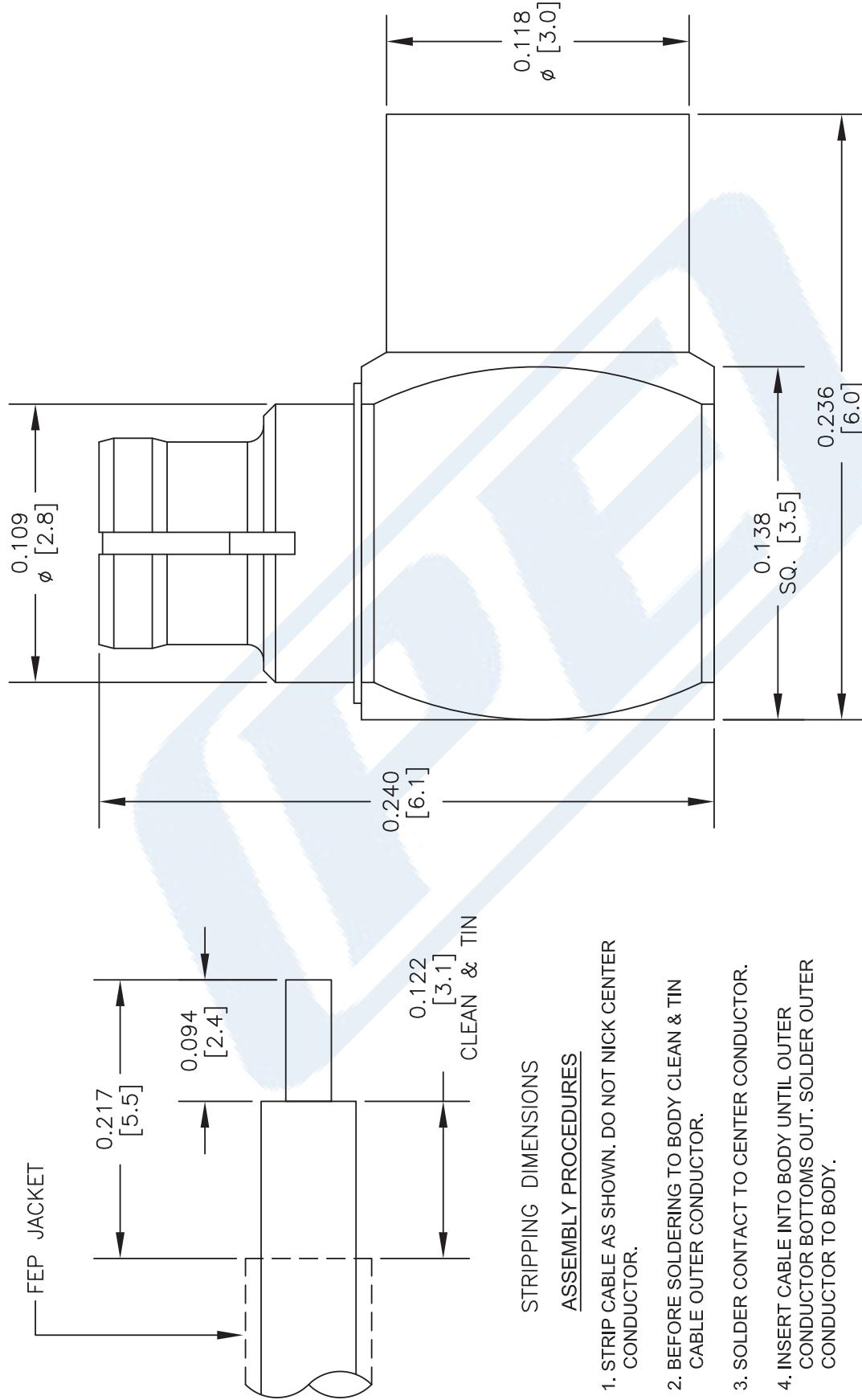
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE44494](#)

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

# 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	CAD FILE	081213	SCALE	N/A	SIZE	A	2233
PASTERNACK® Pasternack Enterprises, Inc. P.O. Box 167589   Irvine, CA   926223 Phone: (949) 261-1920   Fax: (949) 261-7451 Website: <a href="http://www.pasternack.com">www.pasternack.com</a>   <a href="mailto:sales@pasternack.com">E-Mail: sales@pasternack.com</a>								



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

### RF Connectors Technical Data Sheet

PE4005

#### Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry

- PE-SR405AL, PE-SR405FL, RG405 Interface Type
- Solder/Solder Attachment
- 5/16 inch Hex

#### Features

- Max. Operating Frequency 18 GHz
- Good VSWR of 1.5:1

- Gold Plated Brass Contact
- 50 µin minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4005 SMA male connector with solder/solder attachment for PE-SR405AL, PE-SR405FL and RG405 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 18 GHz and offers good VSWR of 1.5:1.

Our SMA male connector PE4005 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		18	GHz
VSWR			1.5:1	
Operating Voltage (AC)			335	Vrms

#### Mechanical Specifications

Size	
Length	0.406 in [10.31 mm]
Width/Dia.	0.315 in [8.00 mm]
Weight	0.011 lbs [4.99 g]
Mating Cycles	500 Cycles
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 Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405 PE4005](#)



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

### RF Connectors Technical Data Sheet

PE4005

#### Material Specifications

Description	Material	Plating
Contact	Brass	Gold 50 $\mu$ in minimum
Insulation	PTFE	
Body	Stainless Steel	Gold 10 $\mu$ in minimum
Coupling Nut	Brass	Nickel 100 $\mu$ in 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 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% availability and are part of the broadest selection in the industry.

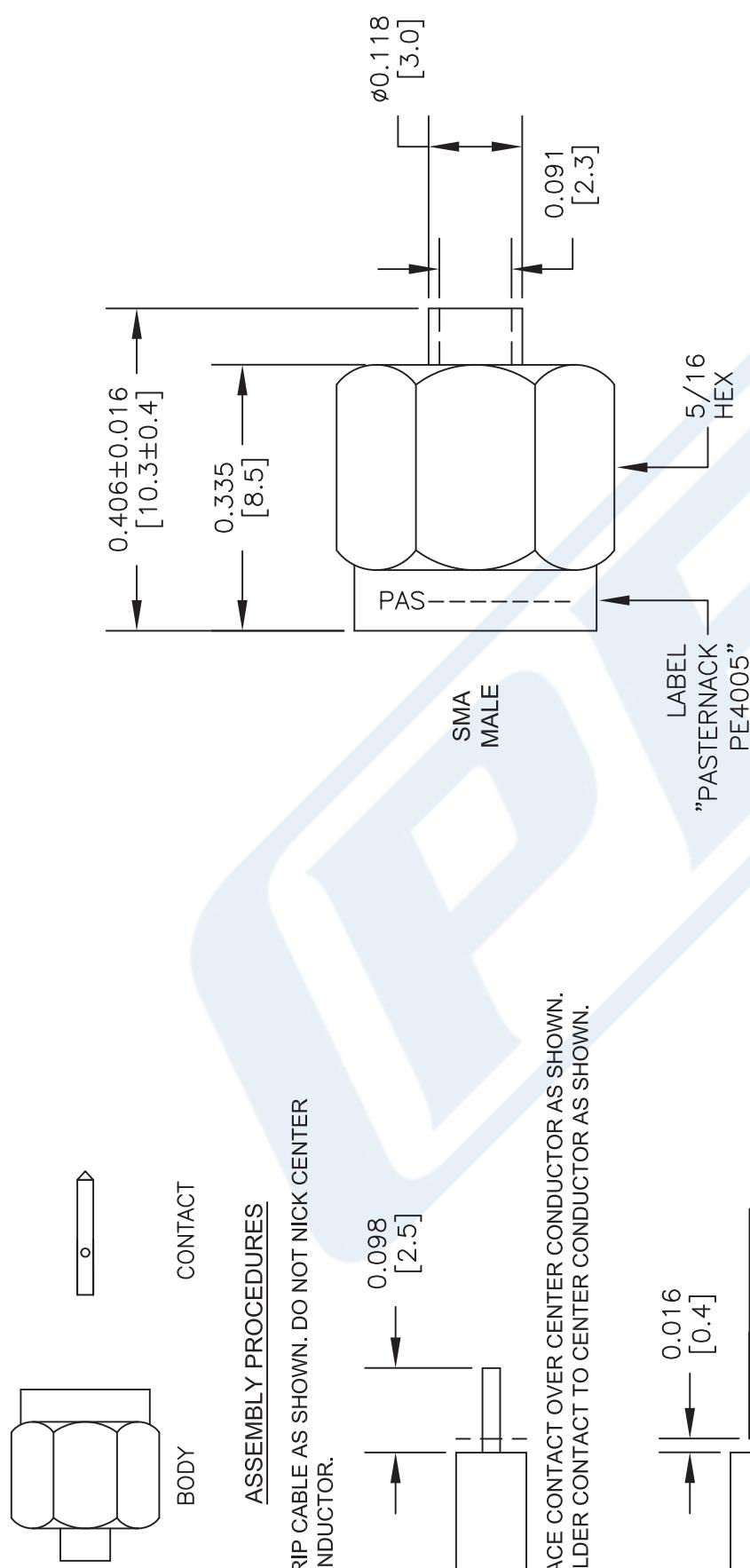
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405 PE4005](#)

URL: <https://www.pasternack.com/sma-male-pe-sr405al-pe-sr405fl-pe-sr405flj-pe-sr405tn-rg405-connector-pe4005-p.aspx>

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# PE4005 CAD Drawing

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



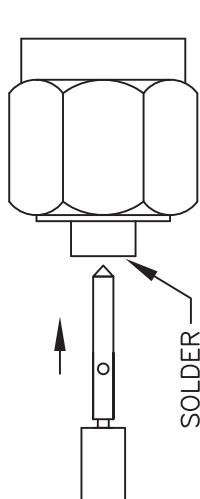
STANDARD TOLERANCES	
X	±0.2
XX	±0.1
XXX	±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

**NOTES:**

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DWG TITLE	PE4005
FSCM NO. 53919	CAD FILE 071316 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.

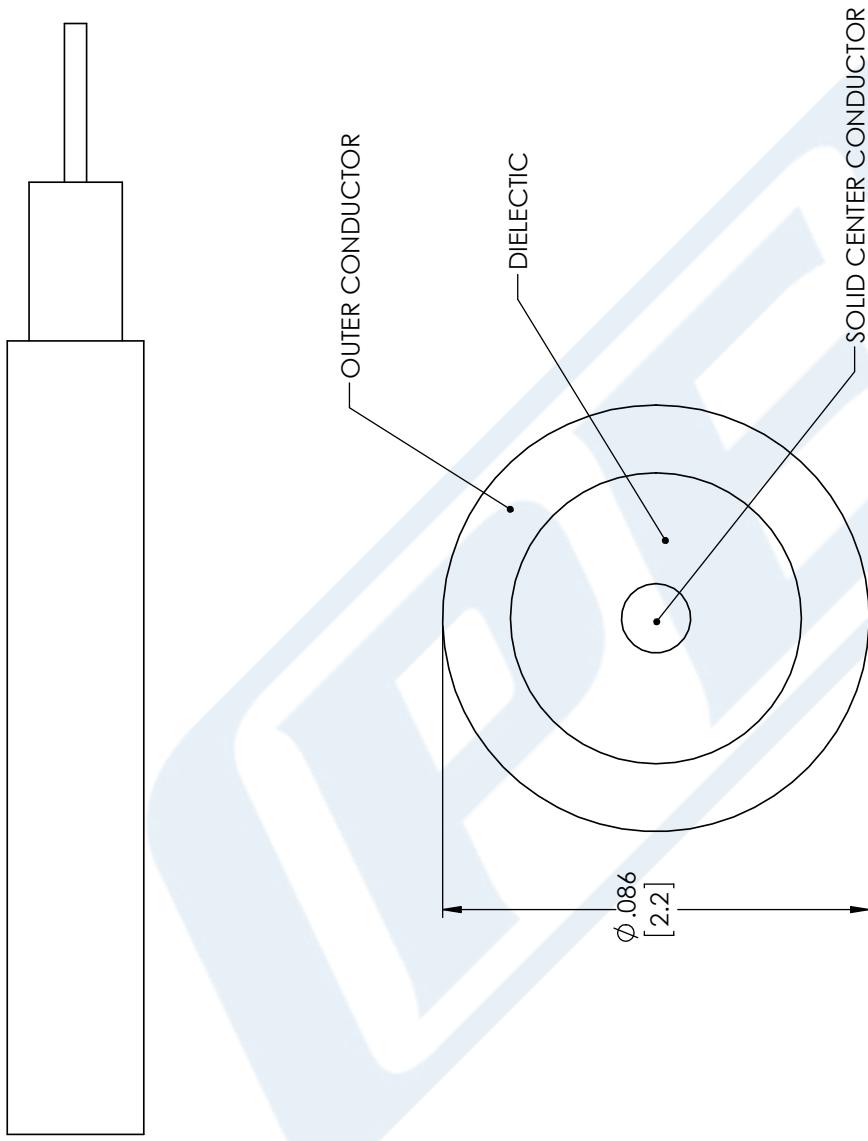
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RG405 Tinned Coax Cable with Tinned Copper Outer Conductor PE-SR405TN](#)

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	$\pm 0.2$	
.XX	$\pm 0.01$	
.XXX	$\pm 0.005$	

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

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DWG TITLE	PE-SR405TN
CAGE CODE	53919

CAD FILE

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SCALE N/A

SIZE A

CN2245