



## 2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

### RF Connectors Technical Data Sheet

**PE45701**

#### Configuration

- 2.4mm Male Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405
- 16-May inch Hex

#### Features

- Max. Operating Frequency 50 GHz
- Good VSWR of 1.4:1

- Gold over Nickel Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE45701, 2.4mm, Standard, Connector is part of our full line of RF components available for same-day shipping. Our 2.4mm male connector operates up to a maximum frequency of 50 GHz and offers good VSWR of 1.4:1.

Our 2.4mm male connector PE45701 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		50	GHz
VSWR			1.4:1	
Insertion Loss			0.36	dB
Impedance	50			Ohms

##### Electrical Specification Notes:

Insert loss:  $0.05 \times \text{sqrt}(f\text{GHz})$  dB.

#### Mechanical Specifications

Size	
Length	0.88 in [22.35 mm]
Width	0.37 in [9.50 mm]
Height	0.37 in [9.50 mm]
Weight	0.55 lbs [249.48 g]
Mating Cycles	500 Cycles
Mating Torque	8 to 10 in-lbs [0.90 to 1.13 Nm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE45701](#)



## 2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

### RF Connectors Technical Data Sheet

**PE45701**

#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel MIL-G-45204
Insulation	PPO	
Body	Passivated Stainless Steel	ASTM-A380
Coupling Nut	Passivated Stainless Steel	ASTM-A380

#### Environmental Specifications

##### Temperature

Operating Range

 -55 to 100 deg C  
 MIL-STD-202, Method 204, Condition D (20 G's)  
 MIL-STD-202, Method 101, Condition B, 5% salt solution

Vibration

Salt Spray

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

#### Plotted and Other Data

Notes:

2.4mm Male Connector Clamp/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.

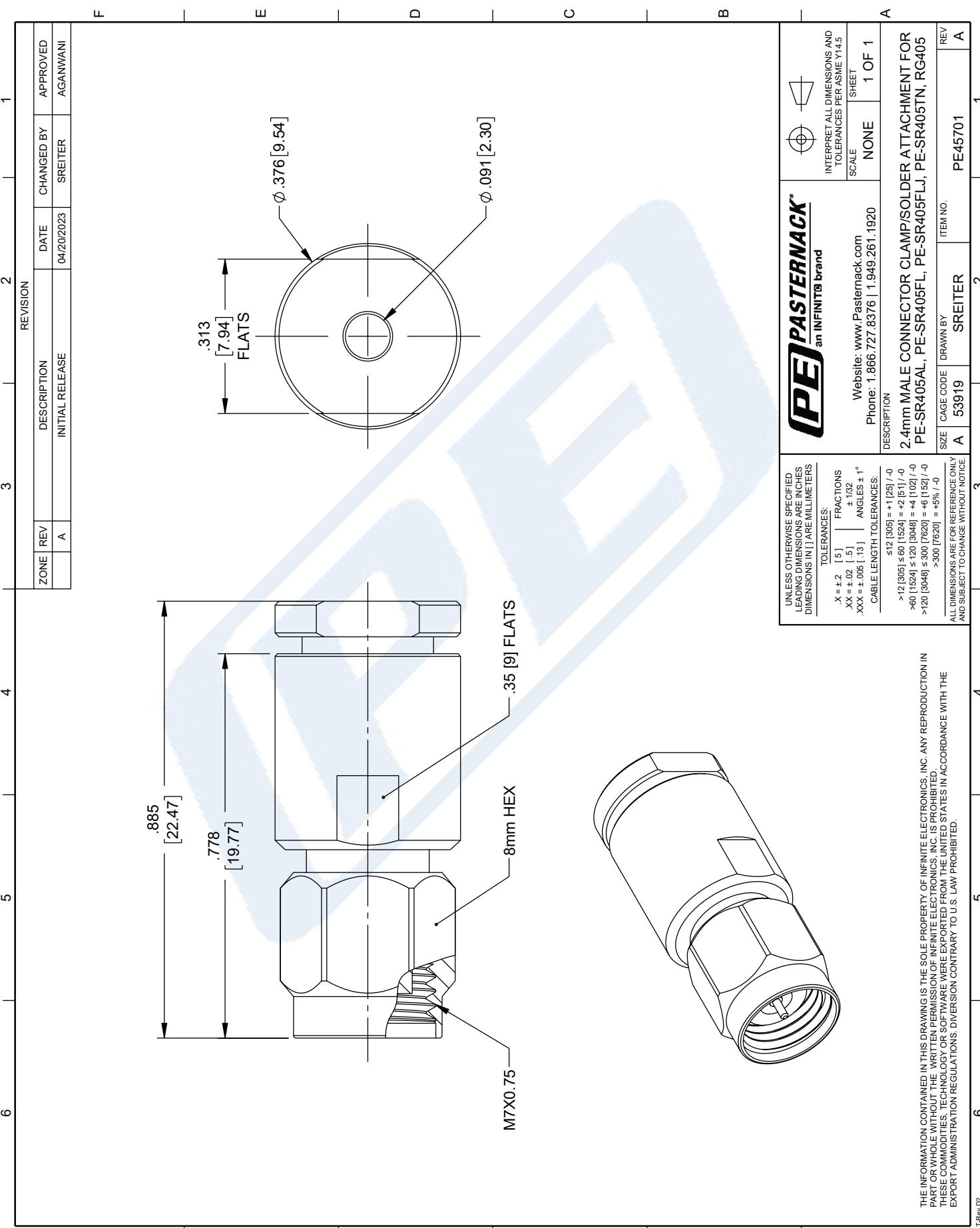
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URL: <https://www.pasternack.com/2.4mm-male-pe-sr405al-pe-sr405fl-pe-sr405tn-rg405-connector-pe45701-p.aspx>

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# PE45701 CAD Drawing

2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL,  
PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405





## 2.92mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ

### RF Connectors Technical Data Sheet

PE45415

#### Configuration

- 2.92mm Male Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR405AL, RG405, PE-SR405FLJ Interface Type
- Solder Attachment
- 5/16 inch Hex

#### Features

- Max. Operating Frequency 45 GHz
- Excellent VSWR of 1.14:1
- Gold over Nickel Plated Beryllium Copper Contact
- 50  $\mu$ in minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE45415 2.92mm male connector with solder attachment for PE-SR405AL, RG405 and PE-SR405FLJ is part of our full line of RF components available for same-day shipping. Our 2.92mm male connector operates up to a maximum frequency of 45 GHz and offers excellent VSWR of 1.14:1.

Our 2.92mm male connector PE45415 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		45	GHz
VSWR			1.14:1	
Insertion Loss			0.268	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
High Potential Voltage 5 to 7.5 MHz			670	Vrms
Corona Discharge at 70,000 ft			250	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage	-90			dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ PE45415](#)



## 2.92mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ

### RF Connectors Technical Data Sheet

PE45415

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 18	18 to 26.5	26.5 to 45			GHz
VSWR, Max	1.1:1	1.12:1	1.14:1			

Electrical Specification Notes:  
Insertion loss:  $0.04 \times \text{sqrt}(f\text{GHz})$  dB.

#### Mechanical Specifications

##### Size

Length 0.56 in [14.22 mm]  
Width/Dia. 0.312 in [7.92 mm]  
Height 0.35 in [8.89 mm]

Mating Cycles 500 Cycles  
Mating Torque 8 to 10 in-lbs [0.90 to 1.13 Nm]

#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 $\mu$ in minimum
Insulation	PEI	
Body	Beryllium Copper	Gold over Nickel 50 $\mu$ in minimum
Coupling Nut	Passivated Stainless Steel	ASTM-A582
Retaining Ring	Beryllium Copper	
Gasket	Silicone Rubber	

#### Environmental Specifications

##### Temperature

Operating Range -65 to +165 deg C  
Shock MIL-STD-202, Method 213, Condition I  
Vibration MIL-STD-202, Method 204, Condition D  
Thermal Shock MIL-STD-202, Method 107, Condition B  
Salt Spray MIL-STD-202, Method 101, Condition B, 5% salt solution

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ PE45415](#)



2.92mm Male Connector Solder Attachment for  
PE-SR405AL, RG405, PE-SR405FLJ

## RF Connectors Technical Data Sheet

PE45415

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

### Plotted and Other Data

Notes:

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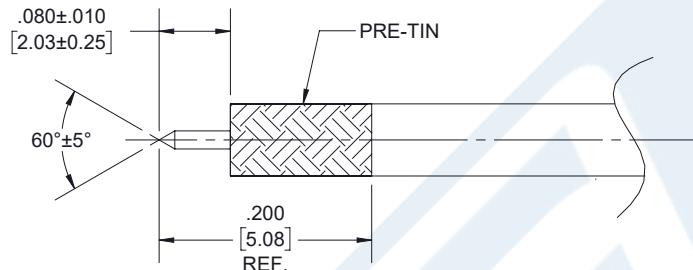


2.92mm Male Connector Solder Attachment for  
PE-SR405AL, RG405, PE-SR405FLJ

RF Connectors Technical Data Sheet

PE45415

**Assembly Instruction**

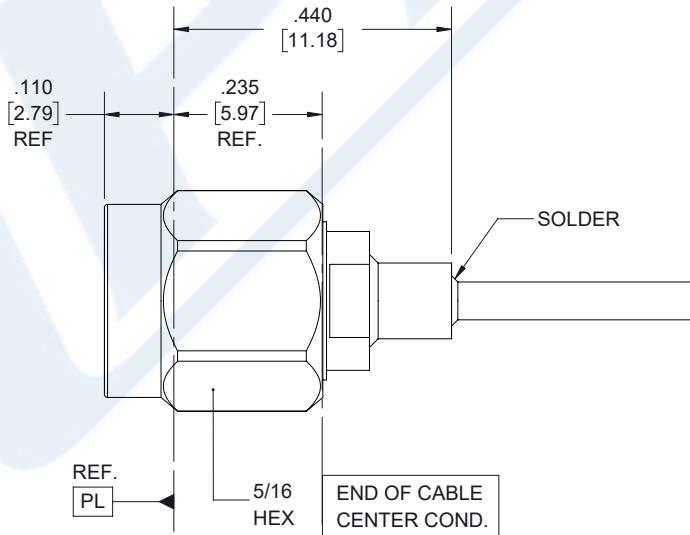


**STEP 1:**

- PRE-TIN CABLE OUTER JACKET OVER APPROX. LENGTH SHOWN.
- TRIM CABLE TO EXPOSE CENTER CONDUCTOR AS SHOWN.
- POINT CENTER CONDUCTOR AS INDICATED.

**STEP 2:**

- INSERT CABLE INTO CONNECTOR UNTIL CENTER CONDUCTOR PLUGS IN AND CABLE SEATS IN CONNECTOR BORE.
- SOLDER CABLE JACKET TO BODY WHERE SHOWN APPLYING HEAT TO EXTENDED BODY TAIL.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ PE45415](#)



## 2.92mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ

### RF Connectors Technical Data Sheet

PE45415

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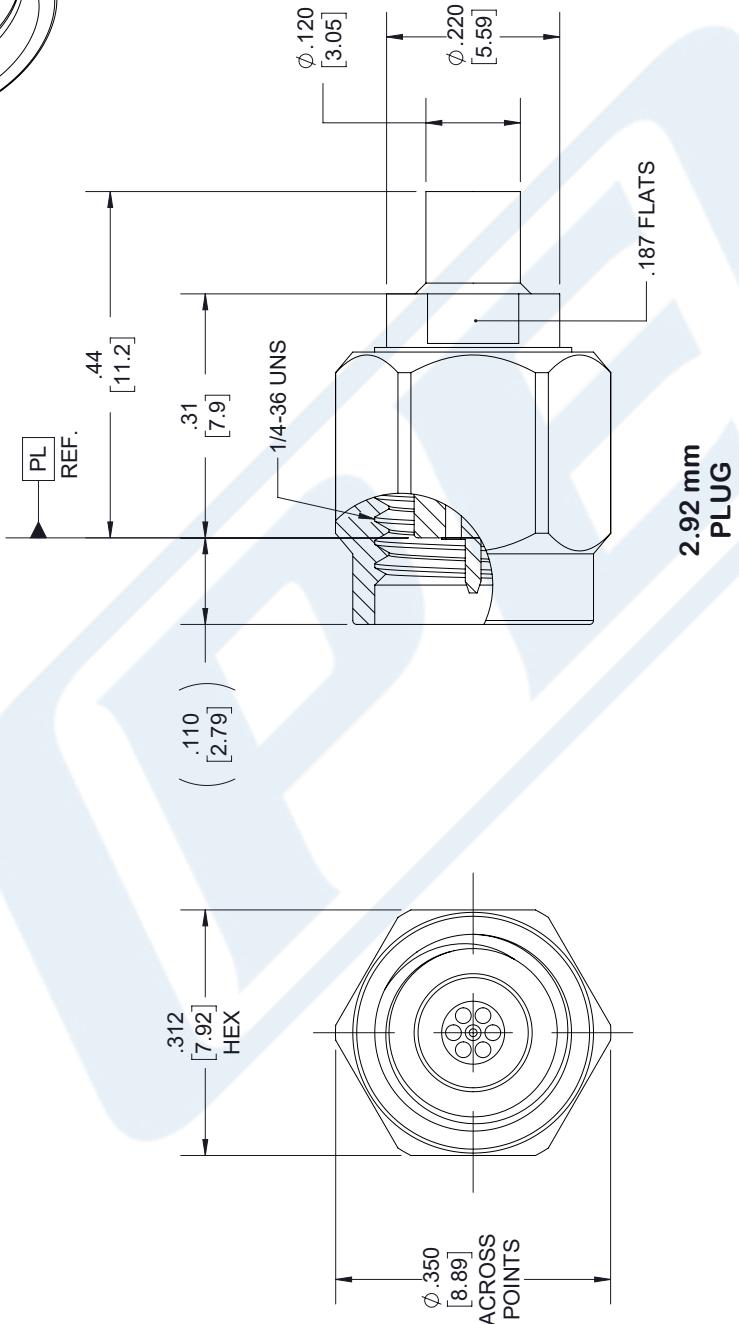
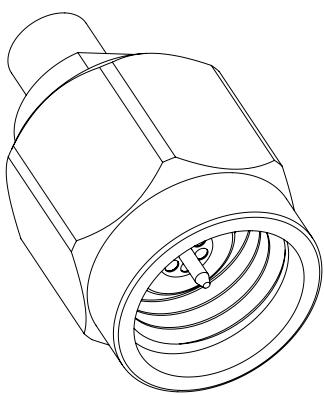
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# PE45415 CAD Drawing

2.92mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ



**STANDARD TOLERANCES**  
 X  $\pm 0.2$   
 .XX  $\pm 0.02$   
 .XXX  $\pm 0.005$

**ONLY TO DIMENSIONS IN INCHES**

**PE PASTERNACK**  
 THE ENGINEER'S RESOURCE

Pasterнак Enterprises, Inc.  
 P.O. Box 16759 | Irvine | CA | 92623

**Phone:** (949) 261-1920 | **Fax:** (949) 261-7451  
**Website:** [www.pasterнак.com](http://www.pasterнак.com) | **E-Mail:** [sales@pasterнак.com](mailto:sales@pasterнак.com)

**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].

DWG TITLE	PE45415
CAGE CODE	53919

SIZE A

7361

## 086 Semi-rigid Coax Cable with Copper Outer Conductor

### TECHNICAL DATA SHEET

### RG405/U

#### 086 Semi-rigid Coax Cable with Copper Outer Conductor

##### Configuration

Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Shield Materials	Copper
Jacket Material and Color	Tan

##### Electrical Specifications

Impedance, Ohms	50
Maximum Operating Frequency, GHz	40
Dielectric Withstanding Voltage, Vrms	5,000

##### Electrical Specifications by Frequency

<b>Frequency 1</b>	
Frequency, MHz	1000
Attenuation, dB/100ft [dB/100m]	22 [72.18]
Power Handling, Watts	130

##### Frequency 2

Frequency, GHz	10
Attenuation, dB/100ft [dB/100m]	80 [262.47]
Power Handling, Watts	35

##### Frequency 3

Frequency, GHz	20
Attenuation, dB/100ft [dB/100m]	120 [393.7]
Power Handling, Watts	20

##### Mechanical Specifications

<b>Temperature</b>	
Operating Range, deg C	-55 to +125

##### Inner Conductor

Number of Strands	1
Material	Copper Clad Steel
Plating	Silver
Diameter, in [mm]	0.02 [0.51]

##### Dielectric:

Type	PTFE
Diameter, in [mm]	0.066 [1.68]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [086 Semi-rigid Coax Cable with Copper Outer Conductor RG405/U](#)

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## 086 Semi-rigid Coax Cable with Copper Outer Conductor

### TECHNICAL DATA SHEET

### RG405/U

**Shield:**

Number of	1
Material 1	Copper
Diameter, in [mm]	0.087 [2.21]

**Jacket:**

Color	Tan
One Time Minimum Bend Radius, in [mm]	0.05 [1.27]
Weight, lbs/ft [Kg/m]	0.015 [0.02]

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant	Yes
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**Plotted and Other Data**

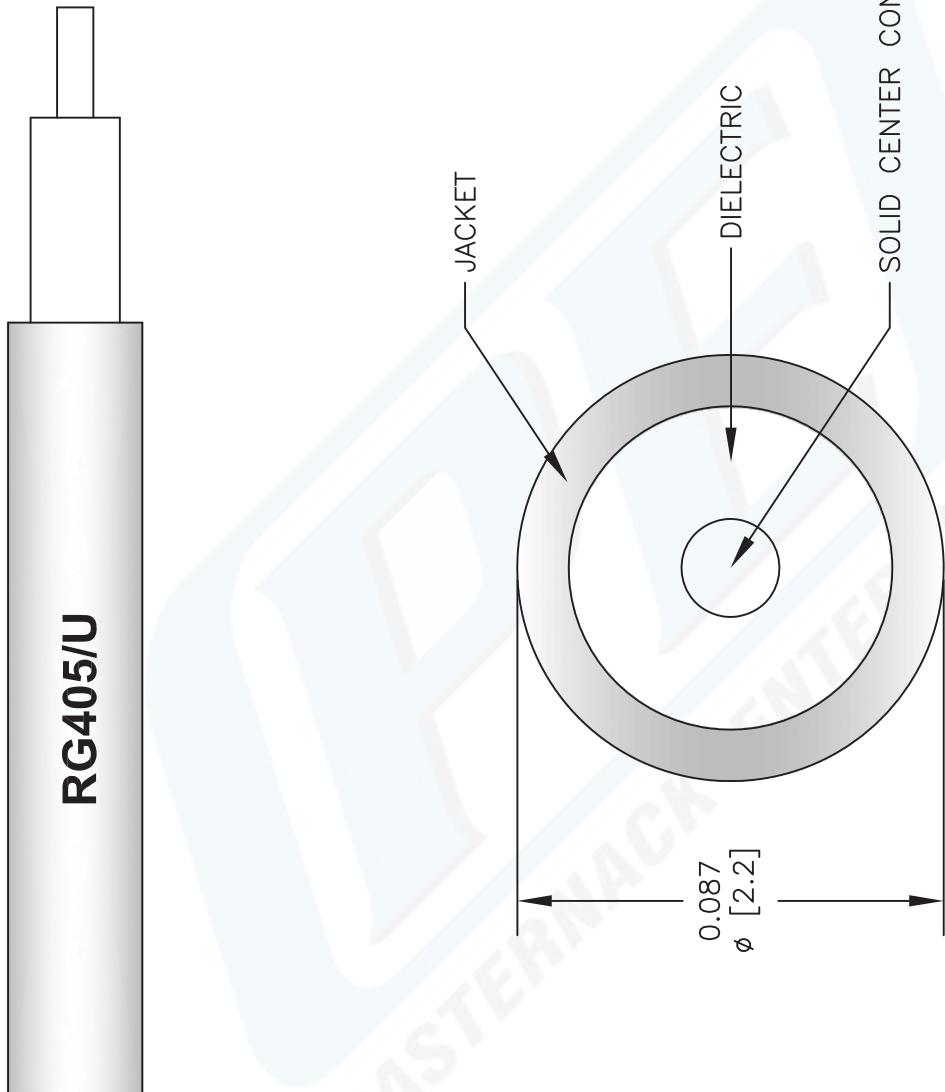
Notes:	Values at 25 °C, sea level
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086 Semi-rigid Coax Cable with Copper Outer Conductor from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability 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: [086 Semi-rigid Coax Cable with Copper Outer Conductor RG405/U](http://www.pasternack.com/semirigid-0.085-rg405-50-ohm-coax-cable-copper-rg405-u-p.aspx)

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Pasternack Enterprises, Inc. P.O. Box 16759   Irvine   CA   92623			
Phone: (949) 261-1920   Fax: (949) 261-7451			
Website: <a href="http://www.pasternack.com">www.pasternack.com</a>   E-Mail: <a href="mailto:sales@pasternack.com">sales@pasternack.com</a>			