



## SMA Male Connector Solder Attachment for RG405, RG405 Tinned

### RF Connectors Technical Data Sheet

PE45481

#### Configuration

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- RG405, RG405 Tinned Interface Type
- Solder Attachment

#### Features

- Max. Operating Frequency 26.5 GHz
- Excellent VSWR of 1.14:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to ASTM-B488

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE45481 SMA male connector with solder attachment for RG405 and RG405 Tinned 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 26.5 GHz and offers excellent VSWR of 1.14:1.

Our SMA male connector PE45481 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		26.5	GHz
VSWR			1.14:1	
Dielectric Withstanding Voltage (AC)			1,000	Vrms
High Potential Voltage			670	Vrms
Corona Discharge			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: [SMA Male Connector Solder Attachment for RG405, RG405 Tinned PE45481](#)



# SMA Male Connector Solder Attachment for RG405, RG405 Tinned

## RF Connectors Technical Data Sheet

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### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 18	18 to 16.5				GHz
VSWR, Max	1.11:1	1.14:1				

Electrical Specification Notes:  
Insertion Loss = 0.04\*SQRT(Fghz) dB

### Mechanical Specifications

Mating Cycles 500 Cycles  
Mating Torque 7 to 10 in-lbs [0.79 to 1.13 Nm]

### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold ASTM-B488
Insulation	PTFE	
Body	Beryllium Copper	Gold ASTM-B488
Coupling Nut	Steel	
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

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

### Plotted and Other Data

Notes:

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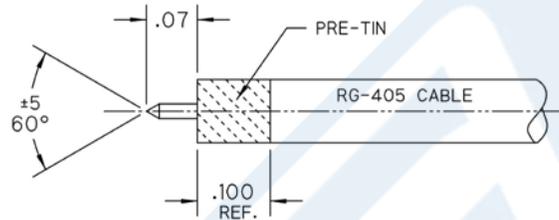


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Technical Data Sheet

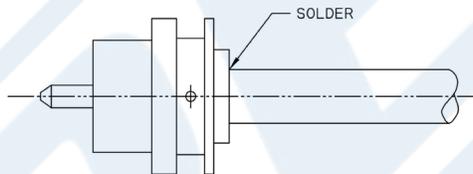
PE45481

**Assembly Instruction**



**STEP 1:**

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

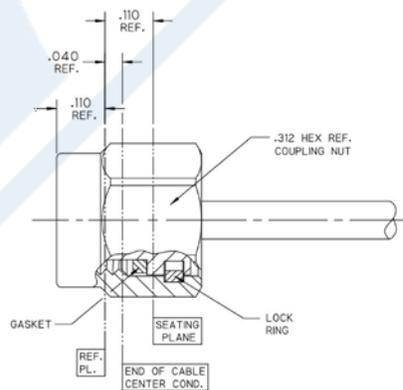


**STEP 2:**

- INSERT CABLE INTO CONNECTOR BODY UNTIL CENTER CONDUCTOR PLUGS IN AND CABLE FULLY SEATS IN CONNECTOR BORE.
- SOLDER CABLE TO BODY WHERE SHOWN.

**STEP 3:**

- INSTALL LOCK RING, GASKET, AND COUPLING NUT ONTO MAIN BODY USING APPROPRIATE SMA ASSEMBLY TOOLS.



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## SMA Male Connector Solder Attachment for RG405, RG405 Tinned

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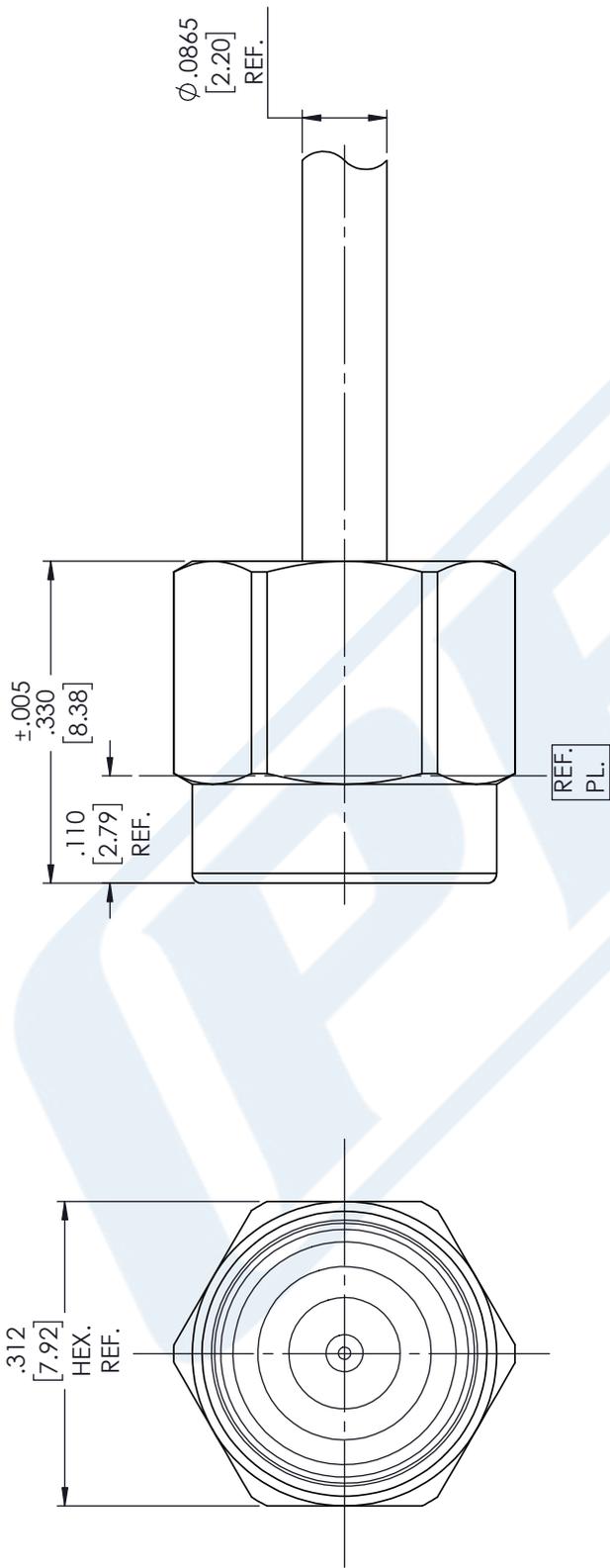
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# PE45481 CAD Drawing

SMA Male Connector Solder Attachment for RG405, RG405 Tinned



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

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES NOTES: DISTANCE FROM END OF CABLE CENTER COND. TO REF. PL. IS .040



Pasternack Enterprises, Inc.  
 P.O. Box 16759 | Irvine | CA | 92623  
**Phone:** (949) 261-1920 | **Fax:** (949) 261-7451  
**Website:** www.pasternack.com | **E-Mail:** sales@pasternack.com

DWG TITLE PE45481		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].	
CAGE CODE	53919	CAD FILE	07/26/18
SCALE	N/A	SIZE	A
		CN2379	



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## RF Connectors Technical Data Sheet

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### Configuration

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- RG405, RG405 Tinned Interface Type
- Solder Attachment

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### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
VSWR			1.14:1	
Dielectric Withstanding Voltage (AC)			1,000	Vrms
High Potential Voltage			670	Vrms
Corona Discharge			250	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage	-90			dB

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## SMA Male Connector Solder Attachment for RG405, RG405 Tinned

### RF Connectors Technical Data Sheet

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#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 18	18 to 16.5				GHz
VSWR, Max	1.11:1	1.14:1				

Electrical Specification Notes:  
Insertion Loss =  $0.04 * \text{SQRT}(F_{\text{ghz}})$  dB

#### Mechanical Specifications

Mating Cycles 500 Cycles  
Mating Torque 7 to 10 in-lbs [0.79 to 1.13 Nm]

#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold ASTM-B488
Insulation	PTFE	
Body	Beryllium Copper	Gold ASTM-B488
Coupling Nut	Steel	
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  
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**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

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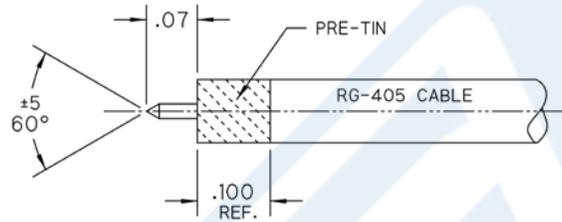


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RF Connectors  
Technical Data Sheet

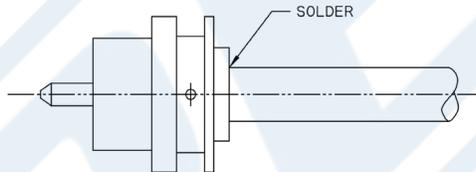
PE45481

Assembly Instruction



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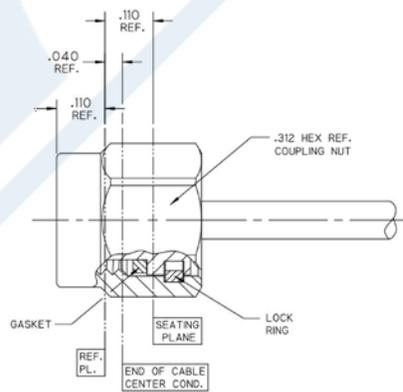


**STEP 2:**

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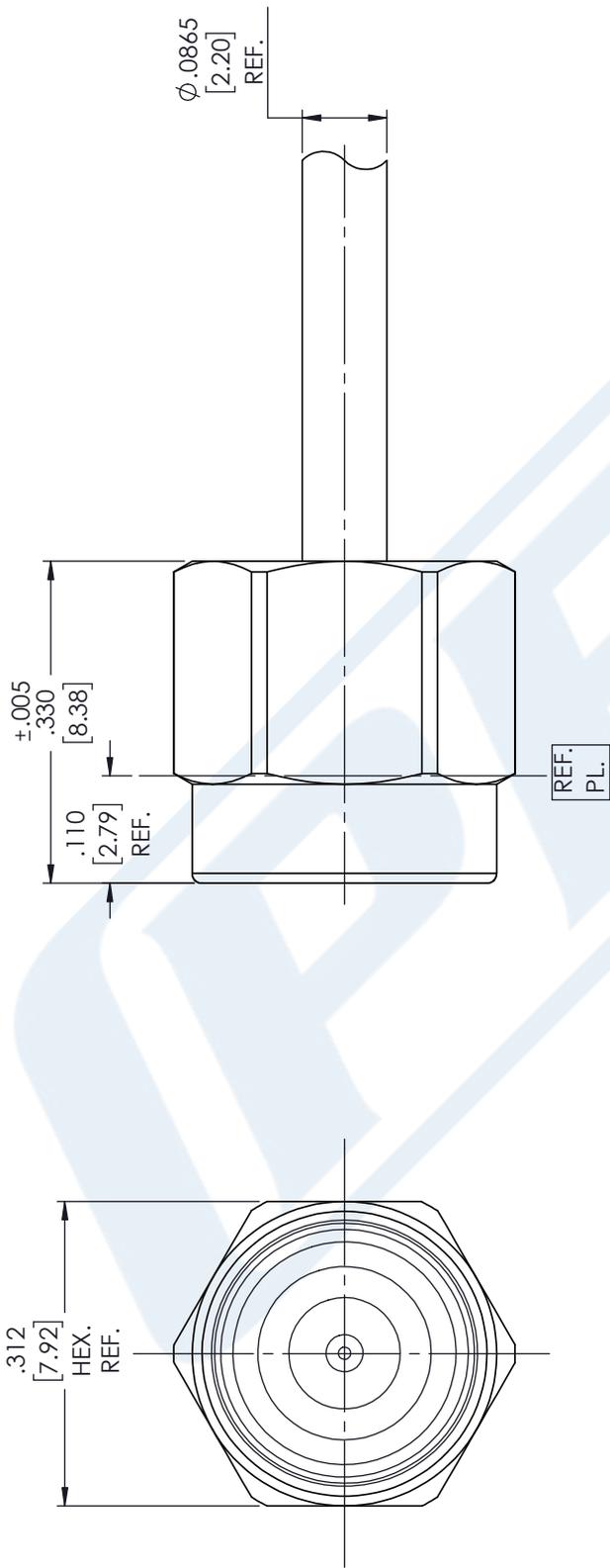
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CAGE CODE 53919

CAD FILE 07/26/18

SCALE N/A

SIZE A  
 CN2379

# RG405 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 Strands	0.02 in [0.51 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.066 in [1.68 mm]
First Shield	Tinned Copper	

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 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:

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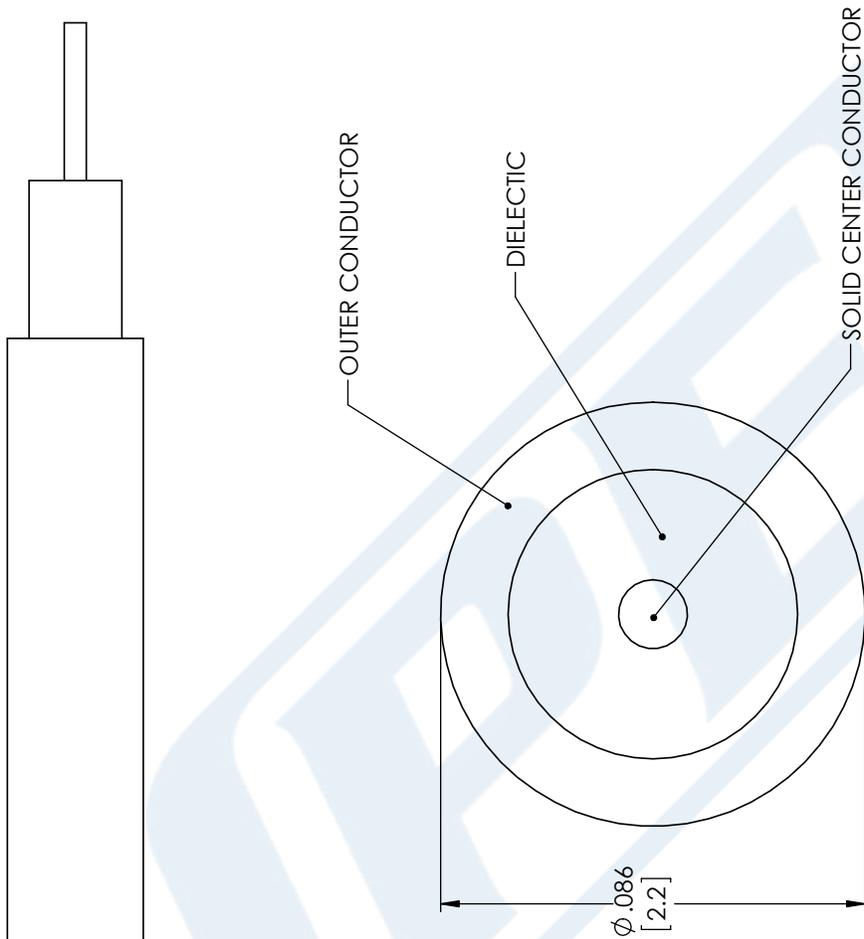
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RG405 Tinned Coax Cable with Tinned Copper Outer Conductor PE-SR405TN](#)

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 Coax Cable with Tinned Copper Outer Conductor



**STANDARD TOLERANCES**

.X ±0.2  
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DWG TITLE

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**CAGE CODE 53919**

CAD FILE 11/28/17

SCALE N/A

SIZE A

CN2245