



TNC Female Connector Solder Attachment for PE-SR405AL,  
PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

**PE44712**

### Configuration

- TNC Female Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

### Features

- Max. Operating Frequency 6 GHz
- Gold over Nickel Plated Beryllium Copper Contact

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44712, TNC, Standard, Connector is part of our full line of RF components available for same-day shipping. Our TNC female connector operates up to a maximum frequency of 6 GHz.

Our TNC female connector PE44712 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      |         | 6       | GHz   |
| Impedance       |         | 50      |         | Ohms  |

### Mechanical Specifications

#### Size

|        |                    |
|--------|--------------------|
| Length | 0.83 in [21.11 mm] |
| Width  | 0.47 in [11.99 mm] |
| Weight | 0.02 lbs [8.62 g]  |

### Material Specifications

| Description | Material         | Plating          |
|-------------|------------------|------------------|
| Contact     | Beryllium Copper | Gold over Nickel |
| Insulation  | PTFE             |                  |
| Body        | Brass            | Nickel           |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE44712](#)



TNC Female Connector Solder Attachment for PE-SR405AL,  
PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

**PE44712**

### Environmental Specifications

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

### Plotted and Other Data

Notes:

TNC Female 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.

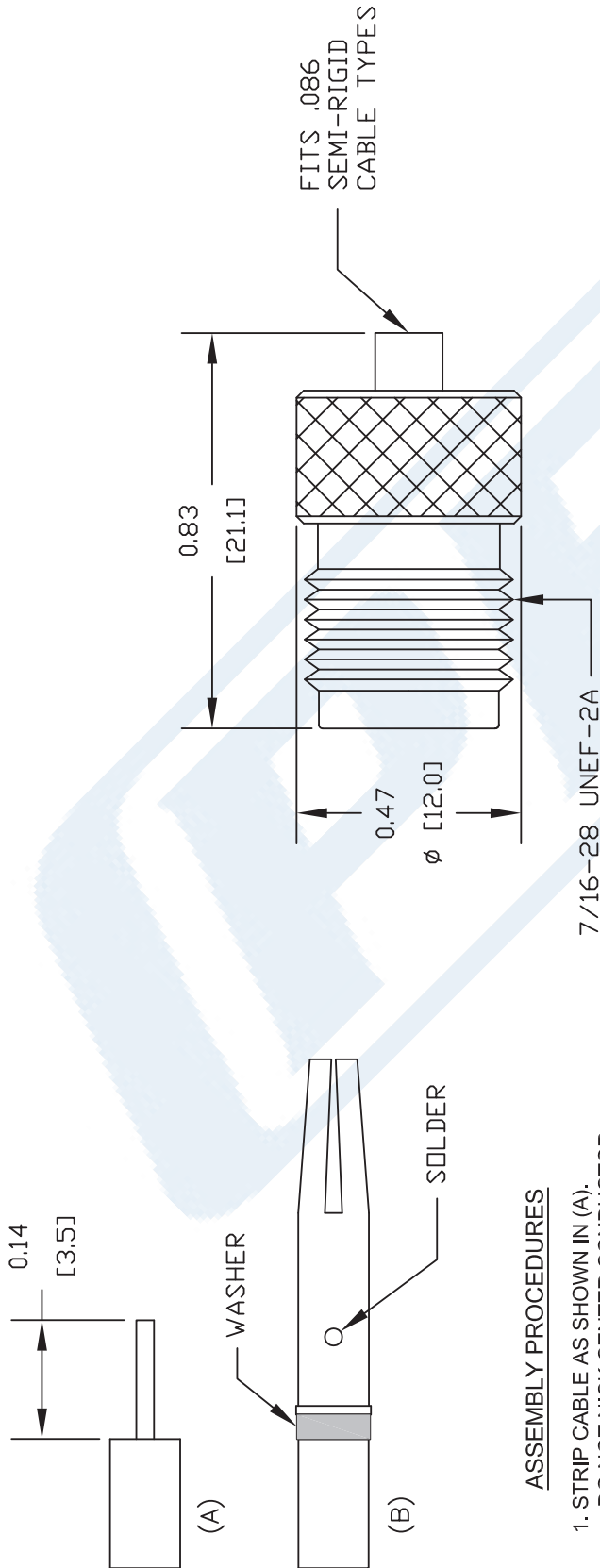
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE44712](#)

URL: <https://www.pasternack.com/tnc-female-standard-pe-sr405al-pe-sr405fl-pe-sr405flj-connector-pe44712-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.

# PE44712 CAD Drawing

TNC Female 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

**PE44712**

REV. -

FSCM NO. 53919

CAD FILE 062311

SCALE N/A

SIZE A

2231

**PE PASTERNAK®**

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## SMP Female Right Angle Connector Solder Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ, Up To 40 GHz

### PE45248



#### Configuration

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

#### Features

- Max. Operating Frequency 40 GHz
- Excellent VSWR of 1.2:1 up to 6 GHz
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-DTL-45204
- Blind Mate Connector

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack 40 GHz SMP connectors are designed to offer a low cost alternative where the SMP form factor is desired but the standard SMP frequency range is not needed. The line of 8 GHz SMP connectors is fully compatible with industry standard SMP and GPO® connectors. These SMP connectors offer a low cost high performance blind-mate solution for lower frequency applications. The Male versions of the 8 GHz SMP is available in Full Detent, Limited Detent, and Smooth Bore versions.

#### Electrical Specifications

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

#### Performance by Frequency

| Description     | F1      | F2      | F3 | F4 | F5 | Units |
|-----------------|---------|---------|----|----|----|-------|
| Frequency Range | DC to 6 | 6 to 12 |    |    |    | GHz   |
| VSWR, Typ       | 1.2:1   | 1.3:1   |    |    |    |       |

#### Mechanical Specifications

##### Size

|        |                    |
|--------|--------------------|
| Length | 0.297 in [7.54 mm] |
| Width  | 0.187 in [4.75 mm] |

SMP Female Right Angle Connector Solder Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ, Up To 40 GHz



## PE45248

### Material Specifications

| Description     | Material         | Plating               |
|-----------------|------------------|-----------------------|
| Contact         | Beryllium Copper | Gold<br>MIL-DTL-45204 |
| Insulation      | PTFE             |                       |
| Outer Conductor | Beryllium Copper | Gold<br>MIL-DTL-45204 |
| Body            | Beryllium Copper | Gold<br>MIL-DTL-45204 |

### Environmental Specifications

#### Temperature

Operating Range

-55 to +165 deg C

Humidity

MIL-STD-202, Method 106 (except 7b omitted)

Shock

MIL-STD-202, Method 213, Condition I

Vibration

MIL-STD-202, Method 204, Condition D

Salt Spray

MIL-STD-202, Method 101, Condition B

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

### Plotted and Other Data

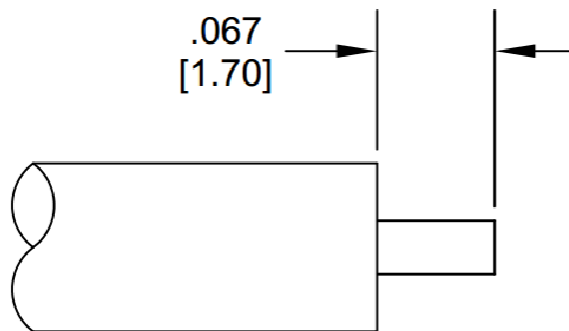
Notes:

SMP Female Right Angle Connector Solder Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ, Up To 40 GHz



## PE45248

### Assembly Instruction



#### STRIPPING DIMENSIONS

#### ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. SOLDER CONTACT TO CENTER CONDUCTOR.
3. INSERT CABLE INTO BODY UNTIL IT BOTTOMS OUT. SOLDER OUTER CONDUCTOR TO BODY.

## SMP Female Right Angle Connector Solder Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ, Up To 40 GHz



### PE45248

SMP Female Right Angle Connector Solder Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ, Up To 40 GHz 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: [SMP Female Right Angle Connector Solder Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ, Up To 40 GHz PE45248](https://www.pasternack.com/smp-female-rg405-pe-sr405al-pe-sr405fl-pe-sr405flj-connector-pe45248-p.aspx)

URL: <https://www.pasternack.com/smp-female-rg405-pe-sr405al-pe-sr405fl-pe-sr405flj-connector-pe45248-p.aspx>

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SMP Female Right Angle Connector Solder Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ, Up To 40 GHz





## Formable 086 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor

### RF Cables Technical Data Sheet

**PE-SR405FL**

#### Configuration

- Formable Cable
- 1 Shield(s)

#### Features

- Dimensionally the same as standard solid outer conductor semi-rigid coax
- Standard semi-rigid connectors can be used
- Cable is hand formable and does not require special tools to bend
- Connectors are easily soldered to Tin soaked outer conductor
- Cable can be formed more than once without damage to outer conductor
- High RF Shielding >100 dB

#### Description

Formable semi-rigid coax is a hand formable version of standard semi-rigid that does not require complicated and costly pre-formed cable assemblies. Because the dimensions and electrical characteristics are so closely matched to semi-rigid coax, standard semi-rigid connectors can be used. The tin soaked copper braid outer shield provides excellent RF shielding.

#### Electrical Specifications

| Description                   | Minimum | Typical    | Maximum | Units        |
|-------------------------------|---------|------------|---------|--------------|
| Frequency Range               | DC      |            | 20      | GHz          |
| Impedance                     |         | 50         |         | Ohms         |
| Velocity of Propagation       |         | 69.5       |         | %            |
| Inner Conductor DC Resistance |         |            | 65.7    | Ohms/1000ft  |
| Outer Conductor DC Resistance |         |            | 10.2    | Ohms/1000ft  |
| Nominal Capacitance           |         | 29 [95.14] |         | pF/ft [pF/m] |

#### Performance by Frequency Band

| Description      | F1    | F2    | F3     | F4    | F5    | Units    |
|------------------|-------|-------|--------|-------|-------|----------|
| Frequency        | 0.5   | 1     | 5      | 10    | 20    | GHz      |
| Attenuation, Typ | 15    | 22.5  | 54.9   | 81.2  | 120   | dB/100ft |
|                  | 49.21 | 73.82 | 180.12 | 266.4 | 393.7 | dB/100m  |

#### Mechanical Specifications

Min. Bend Radius (Repeated) 0.78 in [19.81 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Formable 086 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor PE-SR405FL](#)

## Formable 086 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor

### RF Cables Technical Data Sheet

**PE-SR405FL**

#### 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                                 | 0.062 in [1.57 mm] |
| Outer Conductor | Copper, Tin                          | 0.085 in [2.16 mm] |

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

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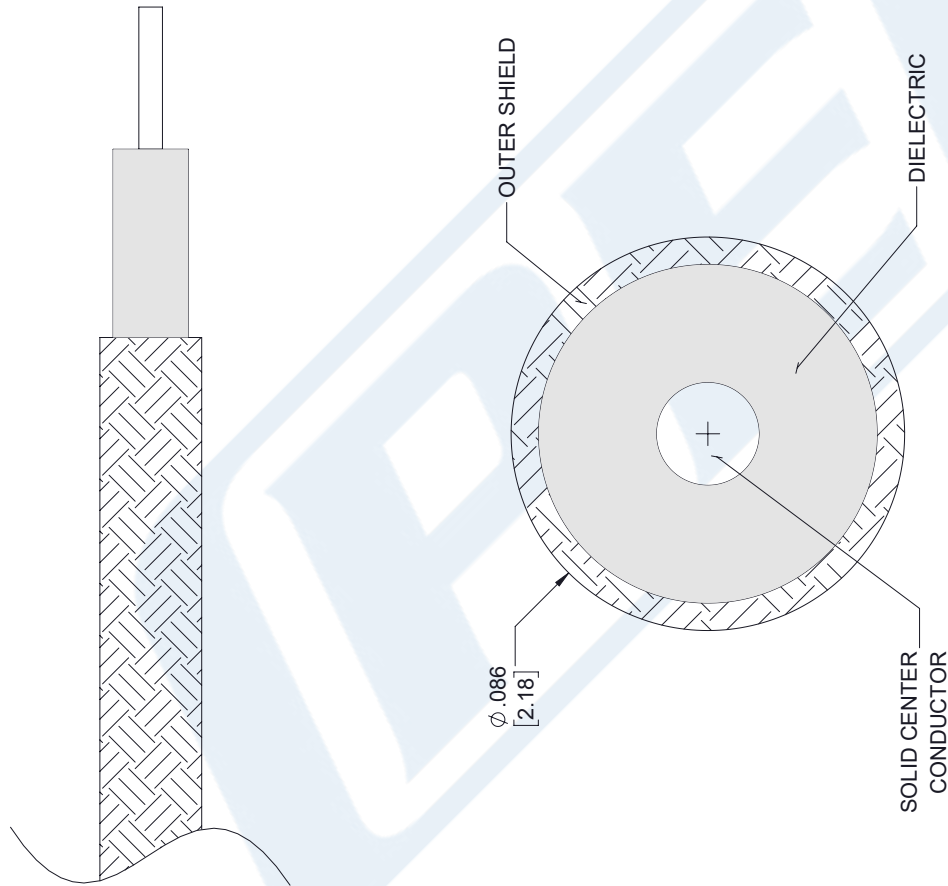
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Formable 086 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor PE-SR405FL](#)

URL: <https://www.pasternack.com/formable-0.085-semirigid-replacement-50-ohm-coax-cable-tinned-braid-pe-sr405fl-p.aspx>

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# PE-SR405FL CAD Drawing

Formable 086 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor



## STANDARD TOLERANCES

.X ±0.2  
.XX ±0.01  
.XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE-SR405FL

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**CAGE CODE** 53919

**CAD FILE** 112117

**SCALE** N/A

**SIZE** A

7361