



SMA Male Connector Solder Attachment for PE-SR402AL,  
PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

## RF Connectors Technical Data Sheet

**PE44691**

### Configuration

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 Interface Type
- Solder Attachment
- 5/16 inch Hex

### Features

- Max. Operating Frequency 18 GHz

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44691 SMA male connector with solder attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN and RG402 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.

Our SMA male connector PE44691 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   |

### Mechanical Specifications

|               |                                  |
|---------------|----------------------------------|
| <b>Size</b>   |                                  |
| Length        | 0.441 in [11.2 mm]               |
| Width/Dia.    | 0.315 in [8.00 mm]               |
| Weight        | 0.005 lbs [2.27 g]               |
| 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: [SMA Male Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE44691](#)



SMA Male Connector Solder Attachment for PE-SR402AL,  
PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

## RF Connectors Technical Data Sheet

**PE44691**

### Material Specifications

| Description  | Material                   | Plating          |
|--------------|----------------------------|------------------|
| Body         | Brass                      | Gold over Nickel |
| Coupling Nut | Passivated Stainless Steel |                  |

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

### Plotted and Other Data

Notes:

SMA Male Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 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 Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE44691](#)

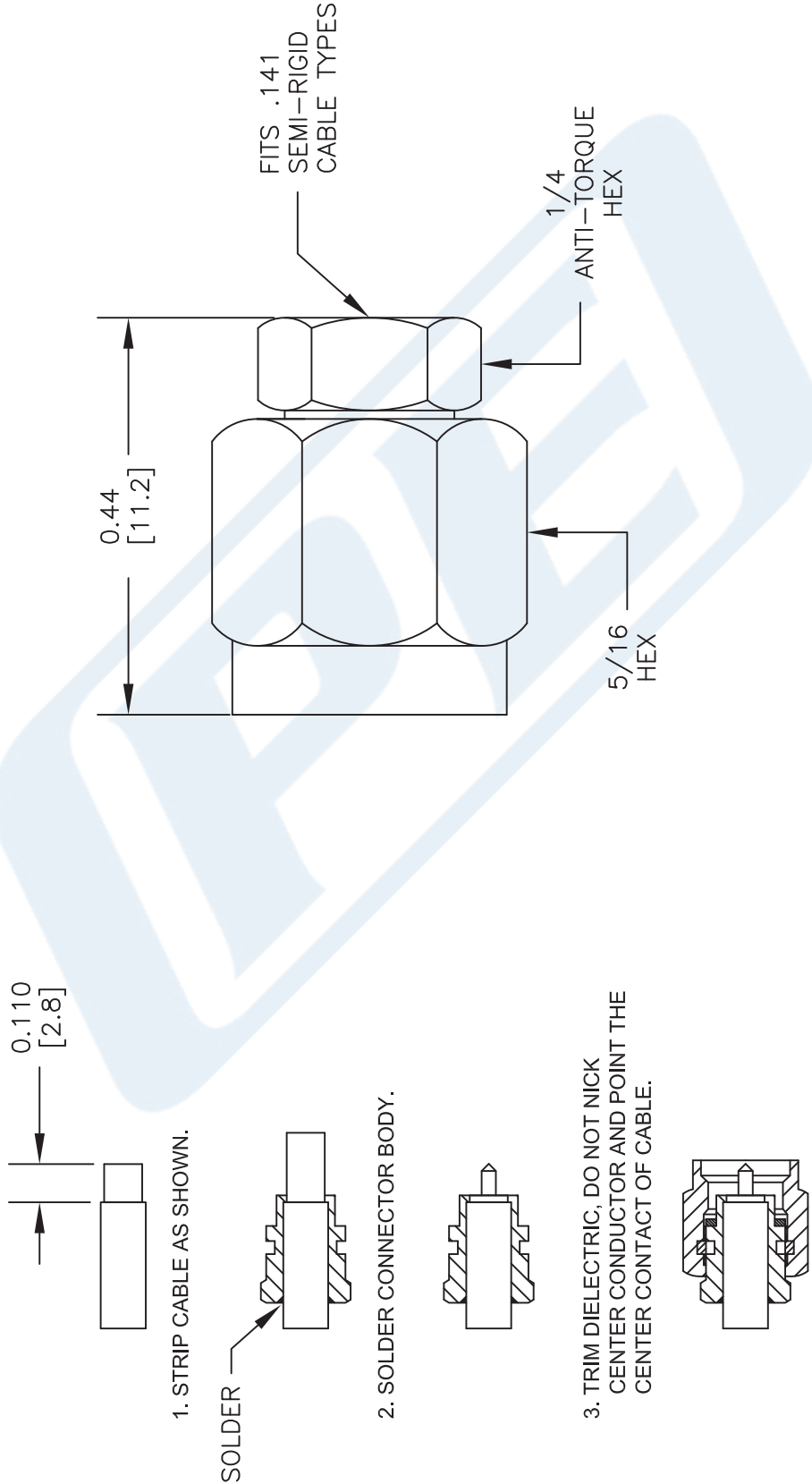
URL: <https://www.pasternack.com/sma-male-standard-pe-sr402al-pe-sr402fl-pe-sr402flj-connector-pe44691-p.aspx>

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.

PE44691 CAD Drawing

SMA Male Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

ASSEMBLY PROCEDURES



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  
**PE44691**

REV. A FSCM NO. 53919 CAD FILE 050412 SCALE N/A SIZE A 2233

**PE PASTERNAK®**  
THE ENGINEER'S RF SOURCE  
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SMA Male Connector Solder (Without Contact) Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

## RF Connectors Technical Data Sheet

**PE4007**

### Configuration

- Standard SMA Male Standard Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 Interface Type
- Solder (Without Contact) Attachment
- 5/16 inch Hex

### Features

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.23:1

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4007 SMA male connector with solder (without contact) attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN and RG402 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 excellent VSWR of 1.23:1.

Our SMA male connector PE4007 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                                 |         |         | 1.23:1  |       |
| Operating Voltage (AC)               |         |         | 500     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 1,000   | Vrms  |
| Inner Conductor DC Resistance        |         |         | 2       | mOhms |
| Outer Conductor DC Resistance        |         |         | 2       | mOhms |
| Insulation Resistance                | 5,000   |         |         | MOhms |
| RF Leakage                           | 60      |         |         | dB    |

Electrical Specification Notes:  
Insertion loss:  $0.06 \times \sqrt{f(\text{GHz})}$  dB max up to 6 GHz.

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 \(Without Contact\) Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE4007](#)



SMA Male Connector Solder (Without Contact) Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

## RF Connectors Technical Data Sheet

**PE4007**

### Mechanical Specifications

#### Size

|               |                                 |
|---------------|---------------------------------|
| Length        | 0.44 in [11.18 mm]              |
| Width/Dia.    | 0.312 in [7.92 mm]              |
| Weight        | 0.007 lbs [3.18 g]              |
| Mating Cycles | 500 Cycles                      |
| Mating Torque | 3 to 5 in-lbs [0.34 to 0.57 Nm] |

### Material Specifications

| Description  | Material        | Plating |
|--------------|-----------------|---------|
| Body         | Stainless Steel | Gold    |
| Coupling Nut | Brass           | Nickel  |

### Environmental Specifications

#### Temperature

|                   |                                      |
|-------------------|--------------------------------------|
| Operating Range   | -65 to +165 deg C                    |
| Vibration         | MIL-STD-202, Method 204, Condition B |
| Temperature Cycle | MIL-STD-202, Method 107, Condition B |
| Salt Spray        | MIL-STD-202, Method 101, 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: [SMA Male Connector Solder \(Without Contact\) Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE4007](#)



SMA Male Connector Solder (Without Contact) Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

## RF Connectors Technical Data Sheet

**PE4007**

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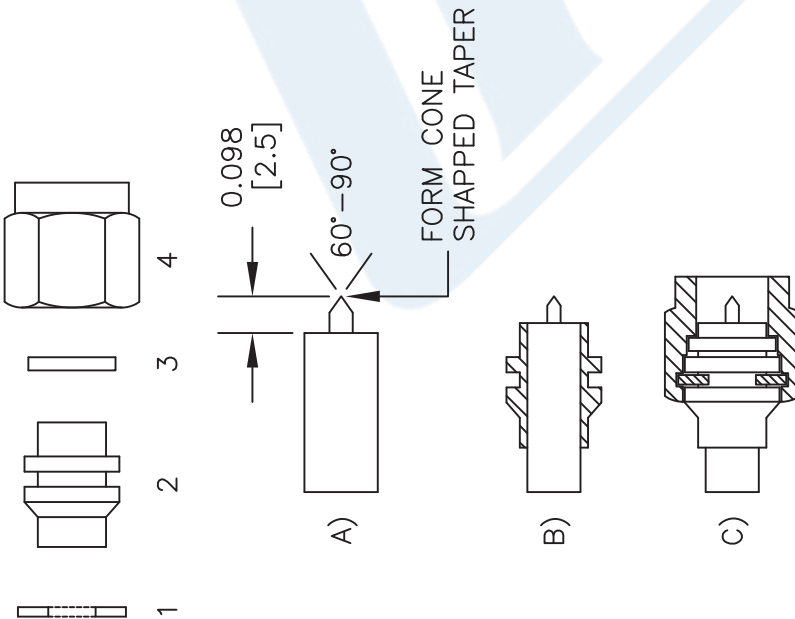
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# PE4007 CAD Drawing

SMA Male Connector Solder (Without Contact) Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402



## STRIPPING DIMENSIONS

## ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN IN (A).  
DO NOT NICK CENTER CONDUCTOR.
2. INSERT CABLE INTO BODY (2) UNTIL  
OUTER CONDUCTOR FLUSH WITH  
BODY AS SHOWN IN (B). SOLDER  
OUTER CONDUCTOR TO BODY.
3. ASSEMBLE GASKET (3), RETAINING  
RING (1) AND COUPLING NUT (4). AS  
SHOWN IN (C).

## STANDARD TOLERANCES

|      |        |
|------|--------|
| .X   | ±0.008 |
| .XX  | ±0.004 |
| .XXX | ±0.002 |

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

## 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

**PE4007**

**PE PASTERNAK®**  
THE ENGINEER'S RF SOURCE

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P.O. Box 16759 | Irvine | CA | 92623  
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FSCM NO. 53919

CAD FILE 031416

SCALE N/A

SIZE A

3045

## RG402 Coax Cable with Copper Outer Conductor

### RF Cables Technical Data Sheet

RG402/U

#### Configuration

- Semi-Rigid Cable
- M17/130-RG402
- 1 Shield(s)

#### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 34      | GHz   |
| Impedance                            |         | 50      |         | Ohms  |
| Velocity of Propagation              |         | 69.5    |         | %     |
| Dielectric Withstanding Voltage (AC) |         |         | 5,000   | Vrms  |
| Corona Discharge<br>at 60 Hz         |         |         | 1,900   | Vrms  |

#### Performance by Frequency Band

| Description           | F1    | F2    | F3    | F4     | F5     | Units    |
|-----------------------|-------|-------|-------|--------|--------|----------|
| Frequency             | 0.5   | 1     | 5     | 10     | 18     | GHz      |
| Attenuation, Typ      | 7.6   | 11.1  | 28.1  | 43.4   | 63.6   | dB/100ft |
|                       | 24.93 | 36.42 | 92.19 | 142.39 | 208.66 | dB/100m  |
| Input Power (CW), Max | 600   | 450   | 180   | 120    | 73     | Watts    |

| Description           | F6     | F7 | F8 | F9 | F10 | Units    |
|-----------------------|--------|----|----|----|-----|----------|
| Frequency             | 26.5   |    |    |    |     | GHz      |
| Attenuation, Typ      | 82.8   |    |    |    |     | dB/100ft |
|                       | 271.65 |    |    |    |     | dB/100m  |
| Input Power (CW), Max | 70     |    |    |    |     | Watts    |

#### Mechanical Specifications

Min. Bend Radius (Repeated)

0.25 in [6.35 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RG402 Coax Cable with Copper Outer Conductor RG402/U](#)

## RG402 Coax Cable with Copper Outer Conductor

**RF Cables**  
**Technical Data Sheet****RG402/U****Construction Specifications**

| Description     | Material and Plating                | Diameter         |
|-----------------|-------------------------------------|------------------|
| Inner Conductor | Copper Clad Steel, Silver, 1 Strand | 0.036 in 0.91 mm |
| Conductor Type  | Solid                               |                  |
| Dielectric      | PTFE                                | 0.118 in [3 mm]  |
| Outer Conductor | Copper<br>.141                      |                  |
| Jacket          | Tan                                 |                  |

**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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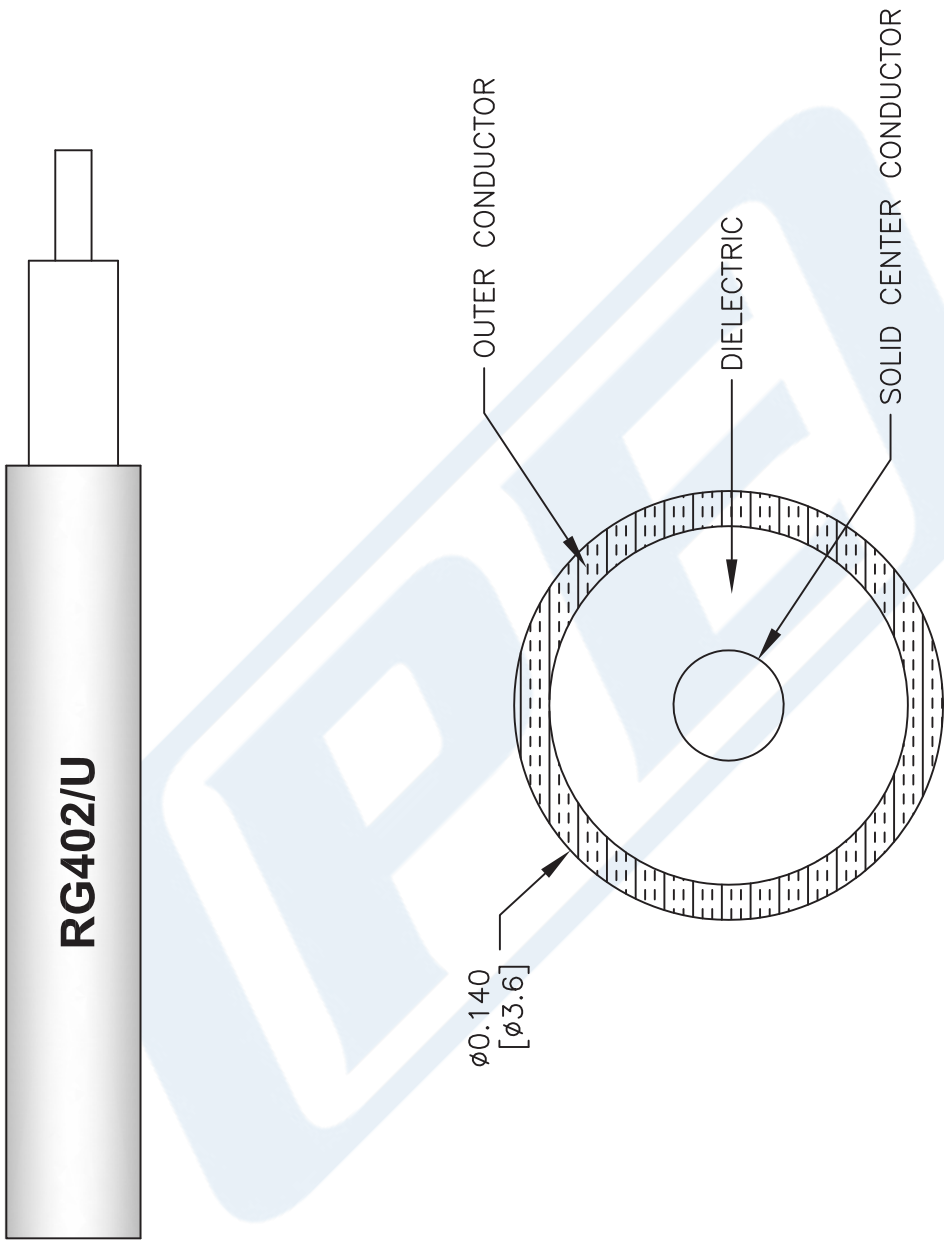
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RG402 Coax Cable with Copper Outer Conductor RG402/U](#)

URL: <https://www.pasternack.com/semirigid-0.141-rg402-50-ohm-coax-cable-copper-rg402-u-p.aspx>

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RG402/U CAD Drawing

RG402 Coax Cable with Copper Outer Conductor



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DWG TITLE  
**RG402/U**

FSCM NO. 53919

SIZE A

41742

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