



## SMA Male Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

### RF Connectors Technical Data Sheet

**PE45282**

#### Configuration

- SMA Male Connector
- 50 Ohms
- Right Angle Body Geometry
- PE-047SR, PE-SR047AL, PE-SR047FL Interface Type
- Solder/Solder Attachment
- 5/16 in. Hex

#### Features

- Max. Operating Frequency 10 GHz
- Good VSWR of 1.5:1
- Gold Plated Brass Contact
- Contact plating according to MIL-G-45204, Class 1

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE45282 SMA male right angle connector with solder/solder attachment for PE-047SR, PE-SR047AL and PE-SR047FL 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 10 GHz and offers good VSWR of 1.5:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SMA male right angle connector PE45282 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		10	GHz
VSWR			1.5:1	
Operating Voltage (AC)			170	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Insulation Resistance	5,000			MOhms

#### Mechanical Specifications

##### Size

Length	0.61 in [15.49 mm]
Width/Dia.	0.312 in [7.92 mm]
Height	0.416 in [10.57 mm]
Weight	0.011 lbs [4.99 g]
Mating Torque	5 in-lbs 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 Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR-047FL PE45282](#)



## SMA Male Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

### RF Connectors Technical Data Sheet

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#### Material Specifications

Description	Material	Plating
Contact	Brass	Gold MIL-G-45204, Class 1
Insulation	PTFE	
Body	Stainless Steel	Gold MIL-G-45204, Class 0
Coupling Nut	Brass	Nickel QQ-N-290, Class 1, Grade G

#### 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 Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL 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.

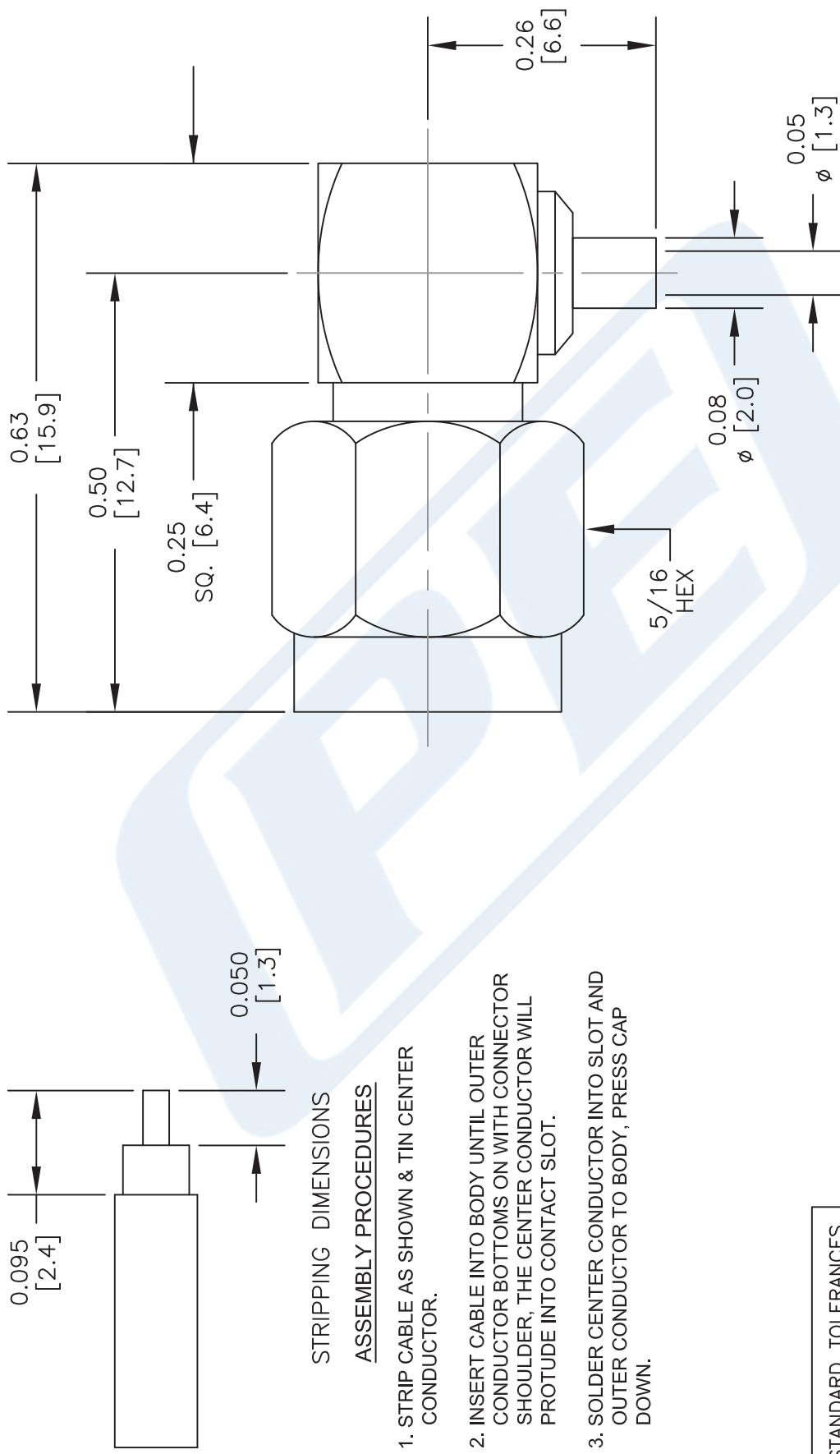
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URL: <https://www.pasternack.com/sma-male-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe45282-p.aspx>

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# PE45282 CAD Drawing

SMA Male Right Angle Connector Solder Attachment for  
PE-047SR, PE-SR047AL, PE-SR047FL



**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	PE45282
CAGE CODE	53919

**PASTERNACK®**  
THE ENGINEER'S RF SOURCE  
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#### Environmental Specifications

**Temperature**

Operating Range

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

#### Plotted and Other Data

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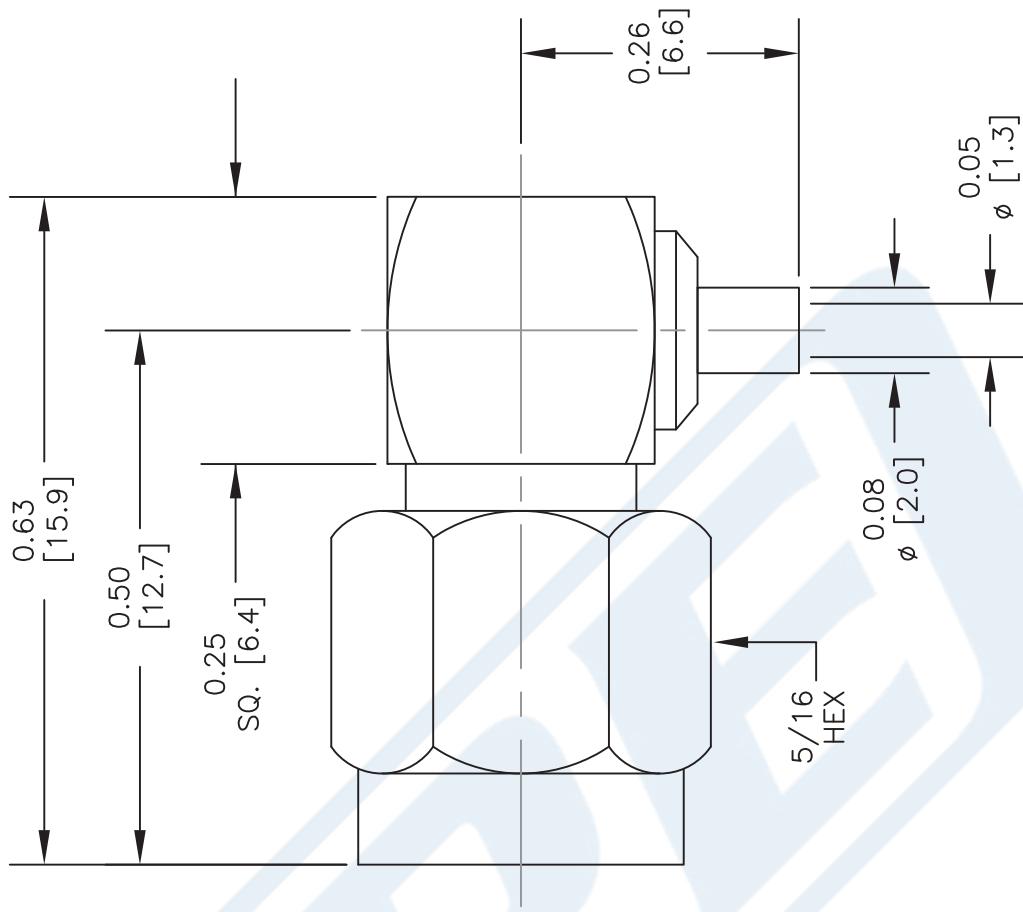
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# PE45282 CAD Drawing

SMA Male Right Angle Connector Solder Attachment for  
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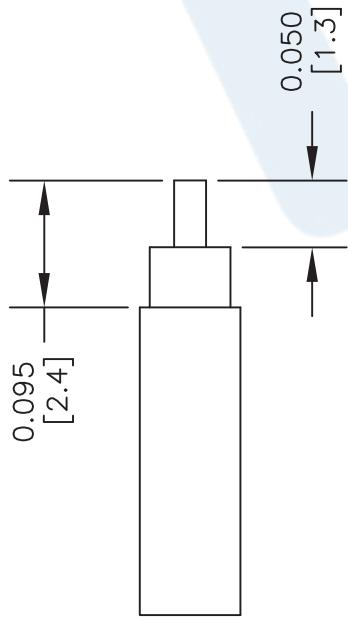
## STRIPPING DIMENSIONS

## ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & TIN CENTER CONDUCTOR.

2. INSERT CABLE INTO BODY UNTIL OUTER CONDUCTOR BOTTOMS ON WITH CONNECTOR SHOULDER, THE CENTER CONDUCTOR WILL PROTRUDE INTO CONTACT SLOT.

3. SOLDER CENTER CONDUCTOR INTO SLOT AND OUTER CONDUCTOR TO BODY, PRESS CAP DOWN.



## STANDARD TOLERANCES

.X  $\pm 0.2$   
.XX  $\pm 0.1$   
.XXX  $\pm 0.05$

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE  
**PE45282**

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CAGE CODE	53919	CAD FILE	110116	SCALE	N/A	SIZE	A	2233
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## 047 Semi-rigid Coax Cable with Copper Outer Conductor

### TECHNICAL DATA SHEET

PE-047SR

#### Configuration

Inner Conductor Material and Plating  
 Dielectric Type  
 Shield Materials

Copper Clad Steel, Silver  
 PTFE  
 Copper

#### Electrical Specifications

Impedance, Ohms  
 Maximum Operating Frequency, GHz  
 Dielectric Withstanding Voltage, Vrms

50  
 40  
 2,000

#### Electrical Specifications by Frequency

##### Frequency 1

Frequency, MHz  
 Attenuation, dB/100ft [dB/100m]  
 Power Handling, Watts

1000  
 40 [131.23]  
 32

##### Frequency 2

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

10  
 130 [426.51]  
 9

##### Frequency 3

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

20  
 190 [623.36]  
 6.5

#### Mechanical Specifications

##### Temperature

Operating Range, deg C

-55 to +100

##### Inner Conductor

Number of Strands  
 Material  
 Plating  
 Diameter, in [mm]

1  
 Copper Clad Steel  
 Silver  
 0.011 [0.28]

##### Dielectric:

Type  
 Diameter, in [mm]

PTFE  
 0.037 [0.94]

##### Shield:

Number of  
 Material 1  
 Diameter, in [mm]

1  
 Copper  
 0.047 [1.19]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [047 Semi-rigid Coax Cable with Copper Outer Conductor PE-047SR](#)

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

### TECHNICAL DATA SHEET

PE-047SR

**Jacket:**

Diameter, in [mm]	0.047 [1.19]
One Time Minimum Bend Radius, in [mm]	0.05 [1.27]
Weight, lbs/ft [Kg/m]	0.005 [0.01]

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

RoHS Compliant  
REACH Compliant

12/19/2011

**Plotted and Other Data**

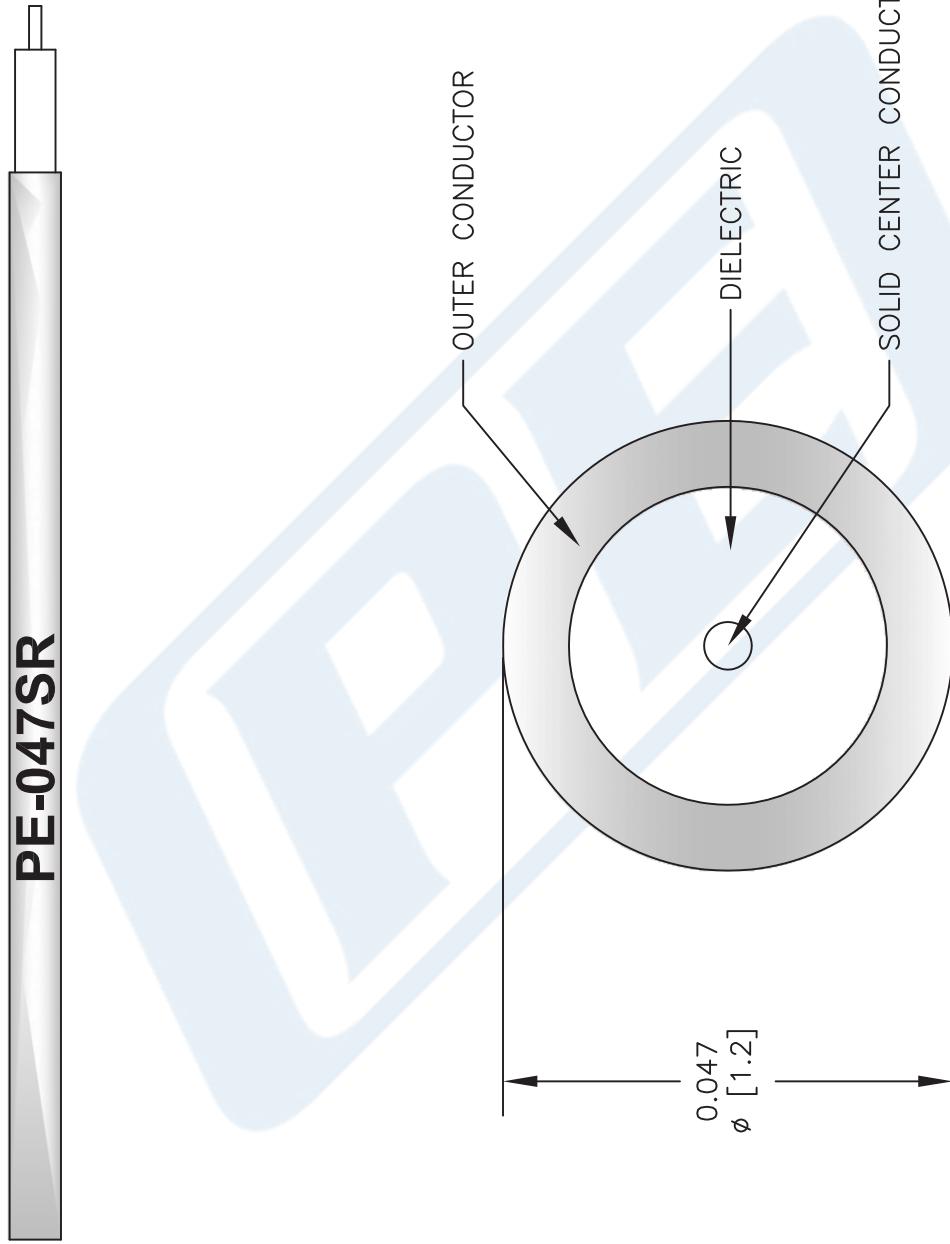
Notes:  
• Values at +25 °C, sea level

047 Semi-rigid Coax Cable with 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% 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: [047 Semi-rigid Coax Cable with Copper Outer Conductor PE-047SR](http://www.pasternack.com/semirigid-0.047-50-ohm-coax-cable-copper-pe-047sr-p.aspx)

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	<b>FSCM NO.</b> 53919 <b>CAD FILE</b> 073113 <b>SCALE</b> N/A <b>SIZE</b> A <b>2233</b>	