



1.85mm Male Precision Connector Clamp/Solder Attachment For PE-047SR, PE-SR047AL, PE-SR047FL

TECHNICAL DATA SHEET

PE44799

1.85mm Male Precision Connector Clamp/Solder Attachment For PE-047SR, PE-SR047AL, PE-SR047FL

Configuration

Connector	1.85mm Male
Connector Interface Type	PE-047SR, PE-SR047AL, PE-SR047FL
Cable Attachment Method (Shield/Contact)	Clamp/Solder
Connector Design	Precision
Body Style	Straight

Electrical Specifications

Frequency Range, GHz	DC to 65
Impedance, Ohms	50
Maximum VSWR	1.35:1

Mechanical Specifications

Size

Length, in [mm]	0.585 [14.86]
Width/Dia., in [mm]	0.35 [8.89]

Connector

Type	1.85mm Male
Contact Material and Plating	Beryllium Copper, Gold
Contact Plating Specification	50 μ Inches.
Coupling Nut Material and Plating	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2700
Hex Size, Inch	5/16
Torque, in-lbs [Nm]	8 [0.9]
Body Material and Plating	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700
Dielectric Type	PEI

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant	Yes
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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: [1.85mm Male Precision Connector Clamp/Solder Attachment For PE-047SR, PE-SR047AL, PE-SR047FL PE44799](#)

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.



1.85mm Male Precision Connector Clamp/Solder
Attachment For PE-047SR, PE-SR047AL, PE-SR047FL

TECHNICAL DATA SHEET

PE44799

Plotted and Other Data

Notes:

Values at 25 °C, sea level

1.85mm Male Precision Connector Clamp/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 fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

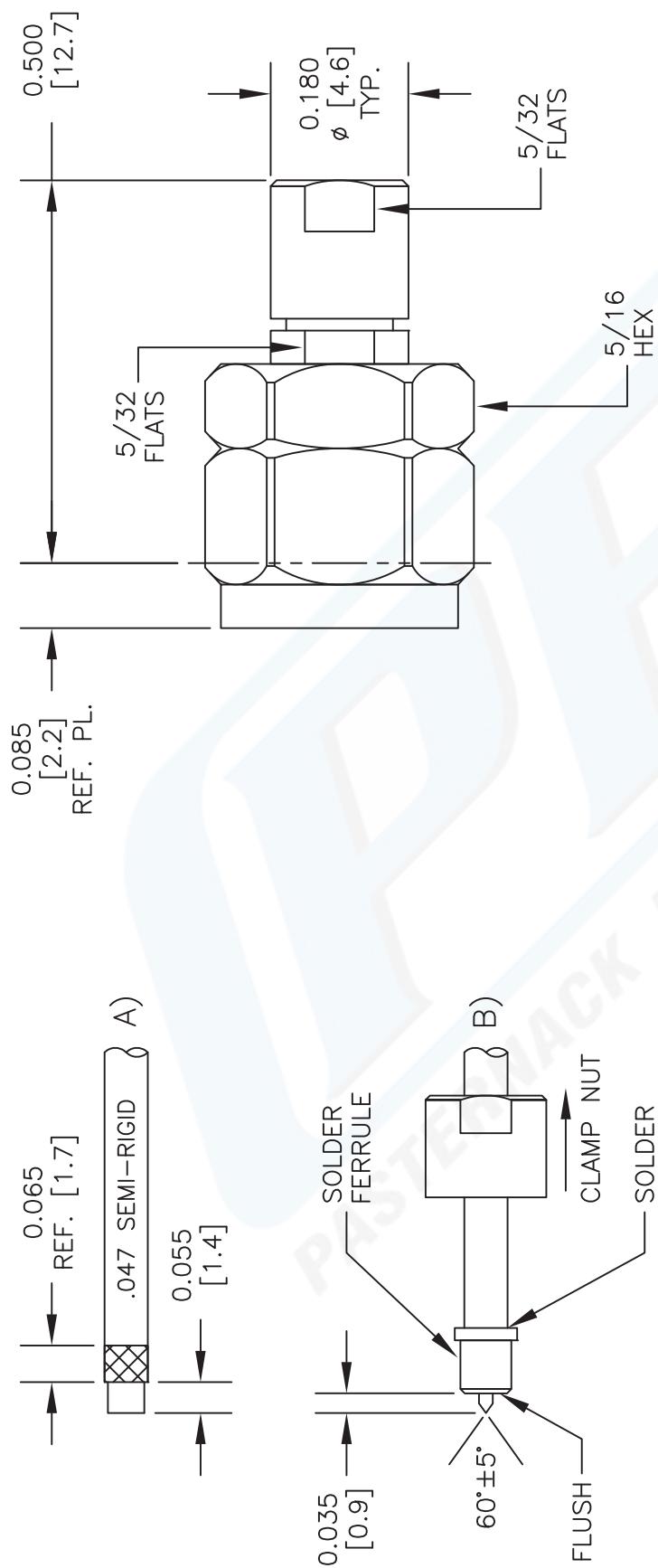
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URL: <http://www.pasternack.com/1.85mm-male-standard-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe44799-p.aspx>

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PE44799 CAD Drawing

1.85mm Male Precision Connector Clamp/Solder Attachment For PE-047SR, PE-SR047AL, PE-SR047FL



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN IN (A), DO NOT NICK DIELECTRIC.
2. PRE-TIN CABLE JACKET TO APPROXIMATE DIMENSION AS SHOWN IN (A).
3. INSERT CABLE THRU ADAPTER UNTIL IT BOTTOMS OUT. SOLDER OUTER CONDUCTOR TO ADAPTER & TRIM DIELECTRIC AS SHOWN IN (B).
4. SCREW ASSEMBLY INTO BODY & TIGHTEN NUT.

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DWG TITLE

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.

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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

PE45282

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.

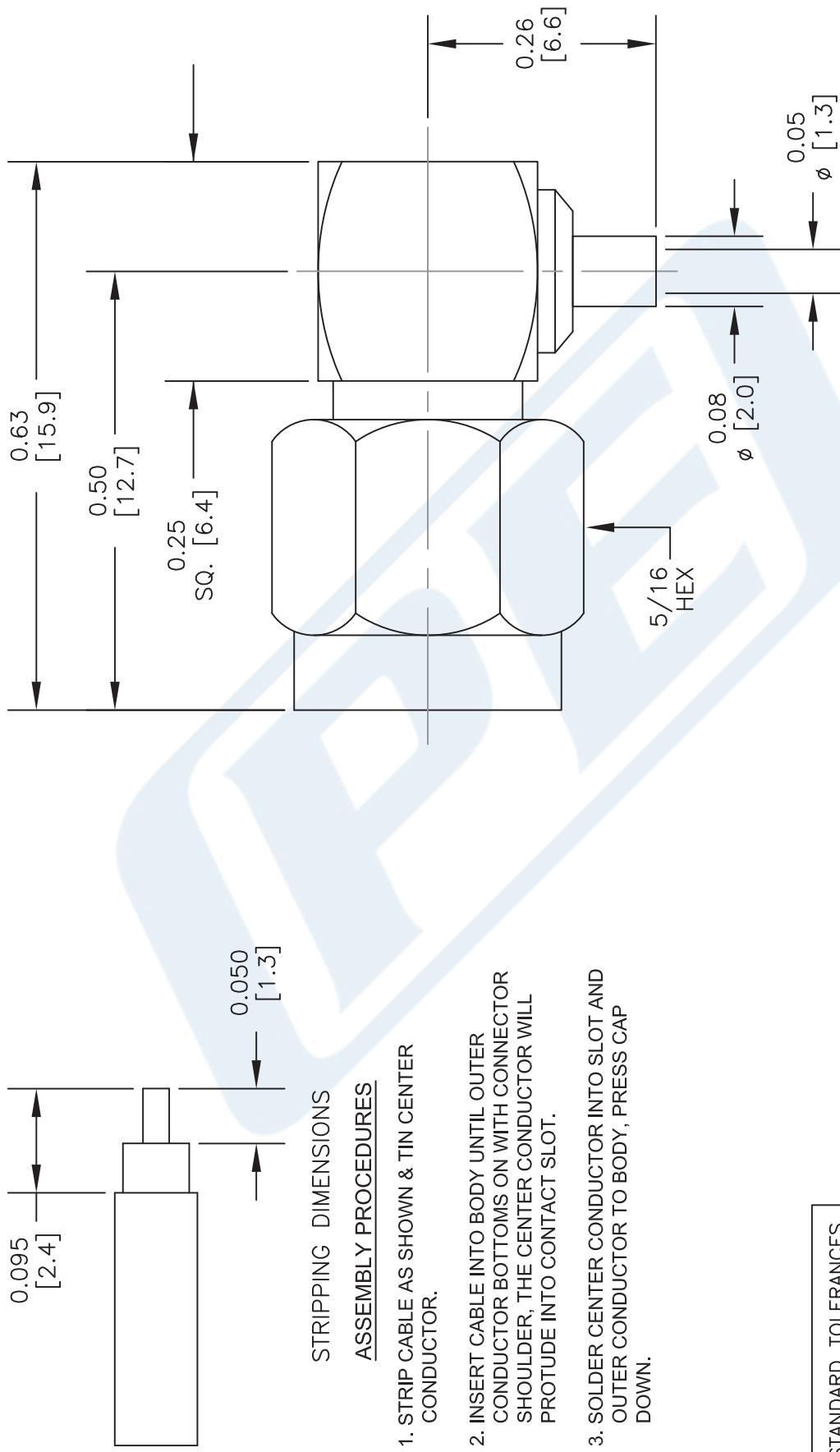
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URL: <https://www.pasternack.com/sma-male-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe45282-p.aspx>

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PE45282 CAD Drawing

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



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DWG TITLE	PE45282
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	Copper Clad Steel, Silver
Dielectric Type	PTFE
Shield Materials	Copper

Electrical Specifications

Impedance, Ohms	50
Maximum Operating Frequency, GHz	40
Dielectric Withstanding Voltage, Vrms	2,000

Electrical Specifications by Frequency

Frequency 1

Frequency, MHz	1000
Attenuation, dB/100ft [dB/100m]	40 [131.23]
Power Handling, Watts	32

Frequency 2

Frequency, GHz	10
Attenuation, dB/100ft [dB/100m]	130 [426.51]
Power Handling, Watts	9

Frequency 3

Frequency, GHz	20
Attenuation, dB/100ft [dB/100m]	190 [623.36]
Power Handling, Watts	6.5

Mechanical Specifications

Temperature

Operating Range, deg C	-55 to +100
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Inner Conductor

Number of Strands	1
Material	Copper Clad Steel
Plating	Silver
Diameter, in [mm]	0.011 [0.28]

Dielectric:

Type	PTFE
Diameter, in [mm]	0.037 [0.94]

Shield:

Number of	1
Material 1	Copper
Diameter, in [mm]	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 for current document)

RoHS Compliant
REACH Compliant

12/19/2011

Plotted and Other Data

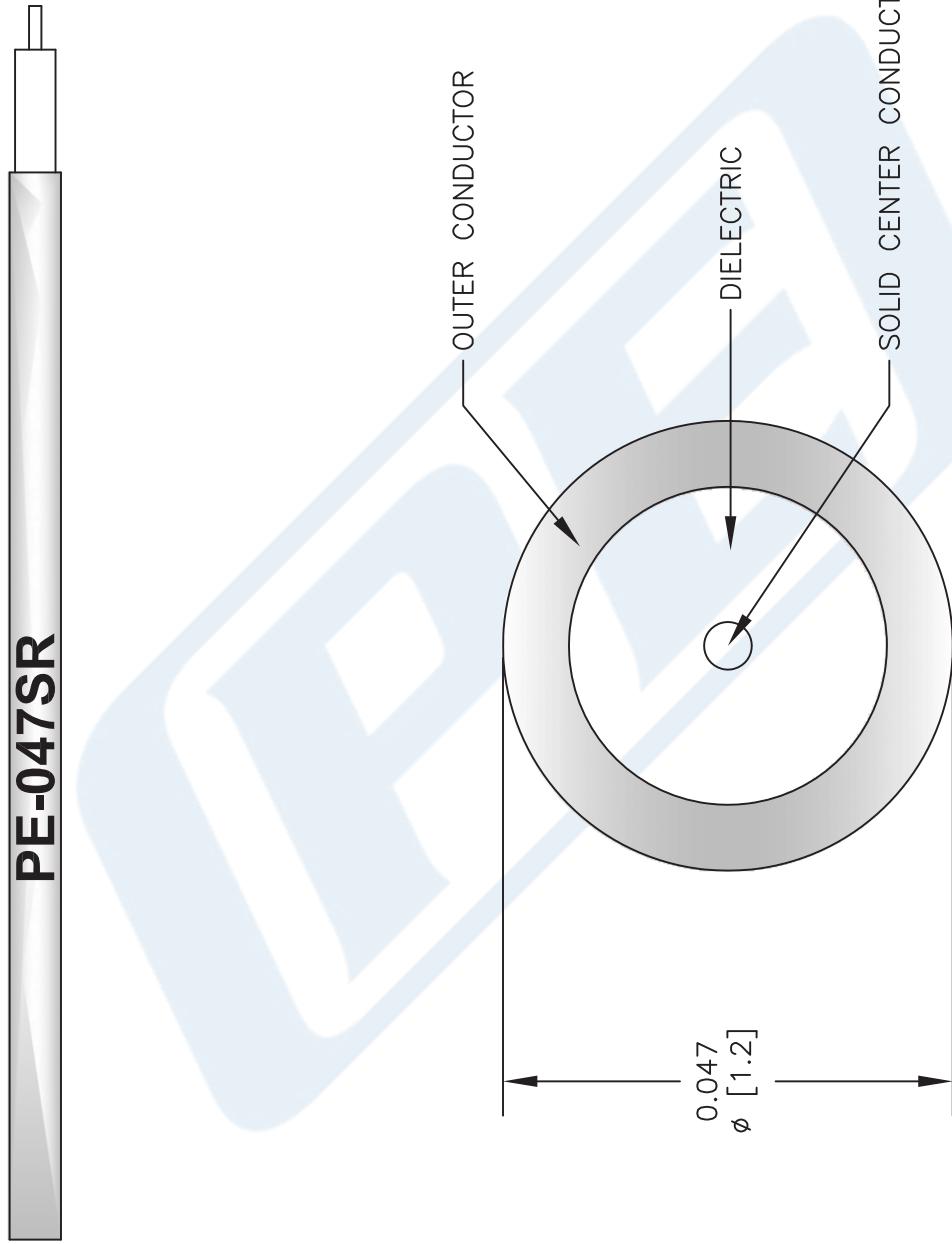
Notes:
• Values at +25 °C, sea level

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URL: <http://www.pasternack.com/semirigid-0.047-50-ohm-coax-cable-copper-pe-047sr-p.aspx>

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