

2.92mm Male Right Angle Connector Clamp/Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid



PE51272

Configuration

- 2.92mm Male Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid

Features

- Max. Operating Frequency 40 GHz
- Good VSWR of 1.35:1
- Gold over Nickel Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE51272 Right Angle, 2.92mm, Standard, Connector is part of our full line of RF components available for same-day shipping. Our 2.92mm male connector operates up to a maximum frequency of 40 GHz and offers good VSWR of 1.35:1. Its right angle body geometry allows for easier connections in tight spaces.

Our 2.92mm male right angle connector PE51272 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		40	GHz
VSWR			1.35:1	
Insertion Loss		0.253		dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms
RF Leakage	100			dB
Impedance		50		Ohms

Electrical Specification Notes:

Insertion loss is = $0.04 \times \text{SQRT}(F(\text{GHz}))$ dB

Mechanical Specifications

Size

Length	0.704724 in [17.9 mm]
Width	0.291339 in [7.4 mm]
Height	0.80315 in [20.4 mm]
Weight	0.015 lbs [6.8 g]

2.92mm Male Right Angle Connector Clamp/Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid



PE51272

Mating Cycles	5,000 Cycles
Mating Torque	11.47 to 15 in-lbs [[1.30 to 1.70 Nm]]
Cable Retention Force	4.9 lbs [2.22 kg]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel
Insulation	PPO	
Body	Stainless Steel	Passivated
Coupling Nut	Stainless Steel	Passivated
Retaining Ring	Beryllium Copper	Copper-Tin-Zinc Alloy
Gasket	Silicone	
Solder Sleeve	Brass	Tri-Metal

Environmental Specifications

Temperature

Operating Range
Thermal Shock

-55 to +105 deg C
MIL-STD-202, Method 107, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

2.92mm Male Right Angle Connector Clamp/Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid 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: [2.92mm Male Right Angle Connector Clamp/Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid PE51272](#)

URL: <https://www.pasternack.com/2.92mm-male-pe-047sr-pe-p047-pe-sr047al-connector-pe51272-p.aspx>

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PE51272 CAD Drawing

2.92mm Male Right Angle Connector Clamp/Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	3/26/2024	KDANG	AGANWANI

 PASTERNACK® an INFINITi brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5		REV A	
		SCALE	SHEET	1 OF 1	
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES LEADING DIMENS IN [] ARE MILLIMETERS					
TOLENCIES					
$X = 4.2$ [105]	FRACTIONS	$\pm .132$			
$XXY = 4.05$ [103]		$\pm .132$			
$XXX = 0.05$		ANGLES $\pm 1^\circ$			
CABLE LENGTH TOLERANCES:					
± 120 [305]		± 1.25 [31]			
± 60 [152]		± 1.5 [51]			
± 30 [76]		± 1.4 [41]			
± 15 [38]		± 0.75 [24]			
± 10 [25]		± 0.5 [16]			
± 5 [12.5]		± 0.25 [8]			
± 3 [7.6]		± 0.15 [4]			
± 2 [5]		± 0.1 [3]			
± 1 [2.5]		± 0.05 [1.3]			
DESCRIPTION					
2.921mm MALE SOLDER CLAMP RIGHT ANGLE FOR 0407 SEMI-RIGID, 40GHZ VSWR 1.35					
Phone: 1.866.727.8376 1.949.261.1920					
Website: www.Pasternack.com					
ITEM NO.					
KDANG					
DRAWN BY					
CAGE CODE					
A		53919			
REV A					
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UN-DIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY					

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PE51272

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Environmental Specifications

Temperature

Operating Range
Thermal Shock

-55 to +105 deg C
MIL-STD-202, Method 107, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

2.92mm Male Right Angle Connector Clamp/Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid 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/2.92mm-male-pe-047sr-pe-p047-pe-sr047al-connector-pe51272-p.aspx>

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PE51272 CAD Drawing

2.92mm Male Right Angle Connector Clamp/Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	3/28/2024	KDANG	AGANWANI

mm [in]	A	B	C	D	E	F
						
	SOLDER FERRULE DIAGRAM	NUT ASSEMBLY INSTRUCTION	Step 1: STRIP AS SHOWN. 	Step 2: SLIDE NUT "C" AND SOLDER FERRULE "B" OVER THE CABLE. Step 3: SOLDER IN "X". 	Step 4: STRIP AS SHOWN. 	Step 5: FINALLY SCREW NUT "C" ON THE CONNECTOR BODY "A". 

 PASTERNACK® an INFINITE® brand				A																							
<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES</p> <table border="1" style="margin-left: 100px;"> <tr> <td>$X = \pm 0.02$</td> <td>$[0.5]$</td> <td>FRACTIONS</td> </tr> <tr> <td>$XY = \pm 0.02$</td> <td>$[0.5]$</td> <td>$\pm 1/32$</td> </tr> <tr> <td>$XXX = \pm 0.03$</td> <td>$[0.75]$</td> <td>ANGLES $\pm 1^\circ$</td> </tr> </table>						$X = \pm 0.02$	$[0.5]$	FRACTIONS	$XY = \pm 0.02$	$[0.5]$	$\pm 1/32$	$XXX = \pm 0.03$	$[0.75]$	ANGLES $\pm 1^\circ$													
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<p>Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920</p>		<p>DESCRIPTION</p>		<p>ITEM NO. PE51272</p>																							
<p>CABLE LENGTH TOLERANCES</p> <table border="1" style="margin-left: 100px;"> <tr> <td>$S1 [2305] = \pm 1.25$</td> <td>$[0]$</td> </tr> <tr> <td>$S1 [2305] = \pm 1.52$</td> <td>$[4]$</td> </tr> <tr> <td>$S1 [2305] = \pm 2.5$</td> <td>$[12]$</td> </tr> <tr> <td>$S1 [2305] = \pm 3.0$</td> <td>$[20]$</td> </tr> <tr> <td>$S1 [2305] = \pm 4.0$</td> <td>$[30]$</td> </tr> <tr> <td>$S1 [2305] = \pm 6.0$</td> <td>$[50]$</td> </tr> </table>		$S1 [2305] = \pm 1.25$	$[0]$	$S1 [2305] = \pm 1.52$	$[4]$	$S1 [2305] = \pm 2.5$	$[12]$	$S1 [2305] = \pm 3.0$	$[20]$	$S1 [2305] = \pm 4.0$	$[30]$	$S1 [2305] = \pm 6.0$	$[50]$	<p>ANGLE TOLERANCES</p> <table border="1" style="margin-left: 100px;"> <tr> <td>$\pm 1/32$</td> <td>$[0]$</td> </tr> <tr> <td>$\pm 1/16$</td> <td>$[1]$</td> </tr> <tr> <td>$\pm 1/8$</td> <td>$[5]$</td> </tr> <tr> <td>$\pm 1/4$</td> <td>$[20]$</td> </tr> <tr> <td>$\pm 1/2$</td> <td>$[50]$</td> </tr> </table>		$\pm 1/32$	$[0]$	$\pm 1/16$	$[1]$	$\pm 1/8$	$[5]$	$\pm 1/4$	$[20]$	$\pm 1/2$	$[50]$	<p>DRAWN BY KDANG</p>	
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SIZE	CAGE CODE	REV	2	3	4																						
A	53919																										

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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

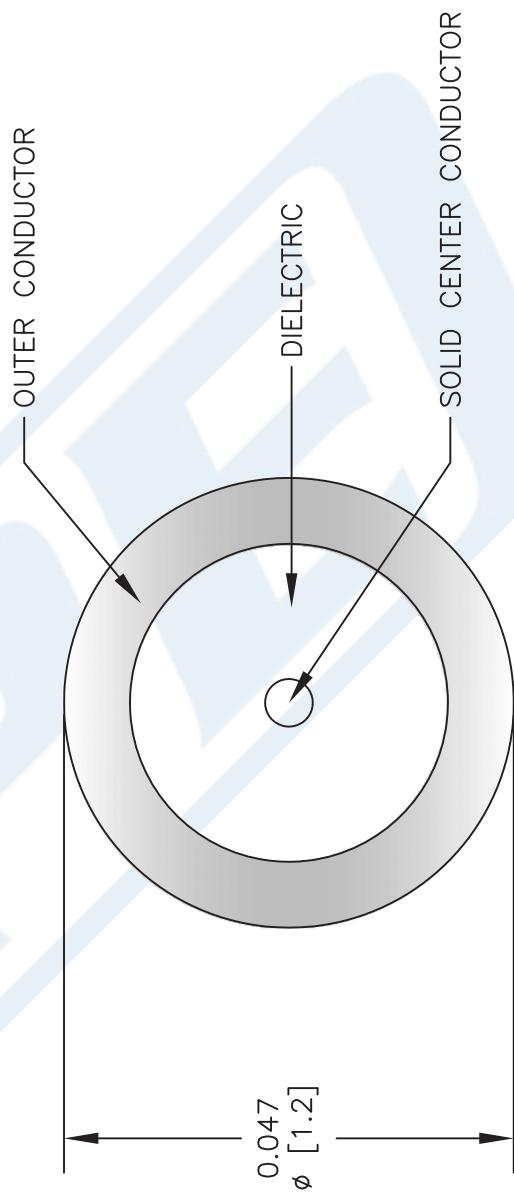
047 Semi-rigid Coax Cable with Copper Outer Conductor from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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PE-047SR



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
PE-047SR

PE PASTERNACK
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

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