



RF Connectors
Technical Data Sheet

PE44274

#### Configuration

- SMP Female Connector
- MIL-STD-348
- 50 Ohms

- Right Angle Body Geometry
- PE-047SR, PE-SR047AL, PE-SR047FL Interface Type
- Solder/Solder Attachment

#### **Features**

- Gold over Nickel Plated Beryllium Copper Contact
- 50 µin minimum contact plating

Blind Mate Connector

#### **Applications**

General Purpose Test

Custom Cable Assemblies

#### **Description**

Pasternack's PE44274 SMP female 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. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated. Its right angle body geometry allows for easier connections in tight spaces.

Our SMP female right angle connector PE44274 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.

#### **Mechanical Specifications**

Size

 Length
 0.265 in [6.73 mm]

 Width/Dia.
 0.195 in [4.95 mm]

 Weight
 0.003 lbs [1.36 g]

#### **Material Specifications**

Description	Material	Plating		
Contact	Beryllium Copper	Gold over Nickel 50 µin minimum		
Insulation	PTFE			
Body	Beryllium Copper	Gold over Nickel 50 µin minimum		

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 PE-047SR, PE-SR047AL, PE-SR047FL PE44274

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RF Connectors Technical Data Sheet

PE44274

**Environmental Specifications** 

Compliance Certifications (see product page for current document)

Plotted and Other Data Notes:

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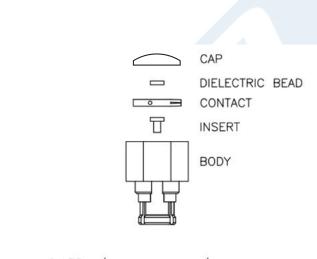


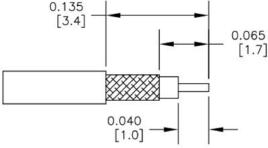


RF Connectors Technical Data Sheet

PE44274

#### **Assembly Instruction**





#### STRIPPING DIMENSIONS

#### ASSEMBLY PROCEDURES

- STRIP CABLE AS SHOWN & SHARP CENTER CONDUCTOR.
- 2. INSERT INSULATOR AND CONTACT INTO BODY.
- 3. INSERT CABLE INTO BODY UNTIL IT SITS IN PLACE.
- 4. SOLDER OUTER CONDUCTOR TO BODY. PRESS DOWN CAP.

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PE44274

SMP Female 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.

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 PE-047SR, PE-SR047AL, PE-SR047FL PE44274

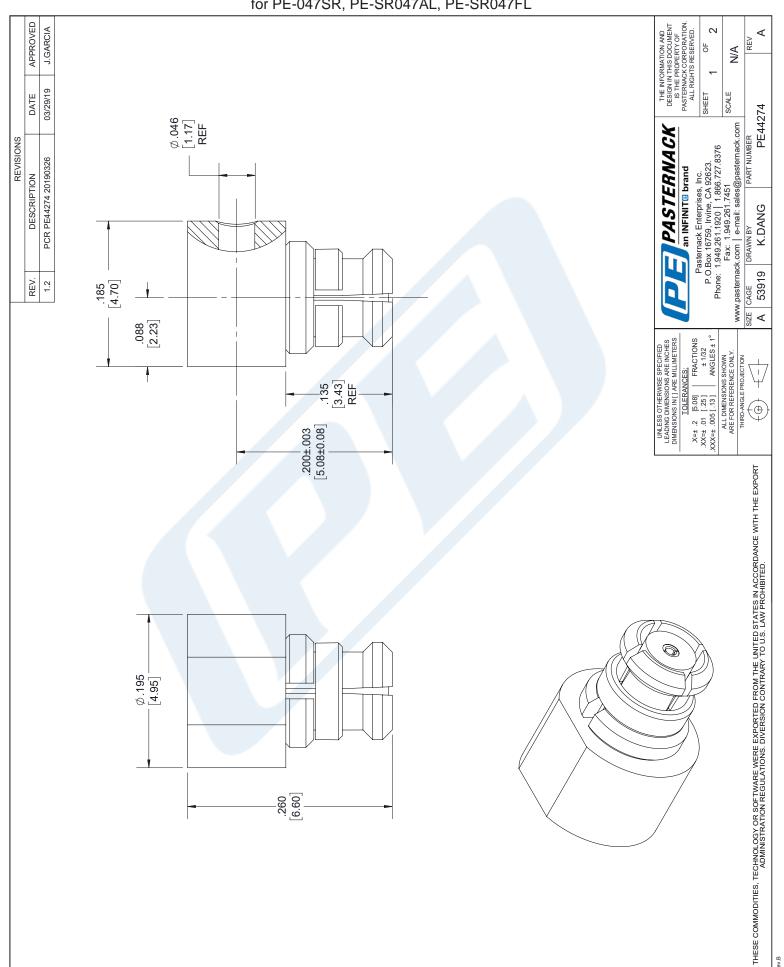
URL: https://www.pasternack.com/smp-female-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe44274-p.aspx

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### PE44274 CAD Drawing

SMP Female Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL







#### RF Connectors Technical Data Sheet

PF4404

#### Configuration

- SMA Male Connector
- MIL-STD-348
- •50 Ohms
- Straight Body Geometry

#### **Features**

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.2:1

• PE-047SR, PE-SR047AL, PE-SR047FL Interface Type

Gold over Nickel Plated Beryllium Copper Contact

Solder/Solder Attachment

• 50 µin minimum contact plating

- 5/16 inch Hex
- Precision Design

### **Applications**

- General Purpose Test
- Precision Test & Measurement
- Custom Cable Assemblies

### **Description**

Pasternack's PE4404 SMA male precision 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 18 GHz and offers excellent VSWR of 1.2:1.

Our SMA male connector PE4404 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			1.2:1	
Insertion Loss			0.17	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
High Potential Voltage			1,000	Vrms
5 to 7.5 MHz				
Corona Discharge			375	Vrms
at 70,000 ft				
Insulation Resistance	5,000			MOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male Precision Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE4404

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#### RF Connectors Technical Data Sheet

PE4404

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 14	14 to 18				GHz
VSWR, Max	1.13:1	1.2:1				

**Electrical Specification Notes:** 

Insertion loss: 0.04 x sqrt(fGHz) dB max. RF leakage: 90 dB min up to 1 GHz.

#### **Mechanical Specifications**

Size

 Length
 0.489 in [12.42 mm]

 Width/Dia.
 0.312 in [7.92 mm]

 Weight
 0.008 lbs [3.63 g]

Mating Cycles 500 Cycles

Mating Torque 7 to 10 in-lbs [0.79 to 1.13 Nm]

#### **Material Specifications**

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 µin minimum
Insulation	PTFE	
Body	Brass	Gold over Nickel 50 µin minimum
Coupling Nut	Brass	Nickel 50 µin minimum

#### **Environmental Specifications**

Temperature

Operating Range -65 to +165 deg C
Humidity MIL-STD-202, Method 106, No Vibration
Shock MIL-STD-202, Method 213, Condition I
Vibration MIL-STD-202, Method 204, Condition D
Thermal Shock MIL-STD-202, Method 107, Condition B
Salt Spray MIL-STD-202, Method 101, Condition B (5%)

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male Precision Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE4404

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#### RF Connectors Technical Data Sheet

PE4404

Compliance Certifications (see product page for current document)

Plotted and Other Data Notes:

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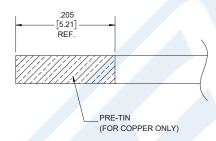


#### RF Connectors Technical Data Sheet

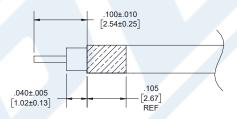
PE4404

#### **Assembly Instruction**

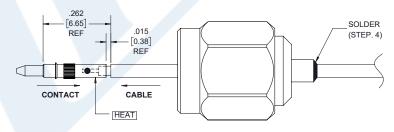
 PRE-TIN CABLE JACKET TO THE REFERENCE LENGTH AS SHOWN. ONLY FOR COPPER OUTER CONDUCTOR CABLE.



- A. STRIP CABLE TO THE DIMENSIONS AS SHOWN TO EXPOSE CENTER CONDUCTOR AND DIELECTRIC.
  - B. PRE-TIN CABLE CENTER CONTACT.
  - C. SLIDE CONNECTOR THROUGH CABLE.



INSERT CENTER CONDUCTOR INTO CONTACT UNTIL DIELECTRIC BOTTOMS
 INSIDE CONTACT. SOFT SOLDER CONTACT TO CENTER CONDUCTOR. DO NOT
 OVER HEAT DIELECTRIC.



 USING ASSEMBLY TOOL, PRESS CONTACT FULLY INTO INSULATOR. SOLDER OUTER CONDUCTOR TO BODY.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male Precision Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE4404

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#### RF Connectors Technical Data Sheet

PE4404

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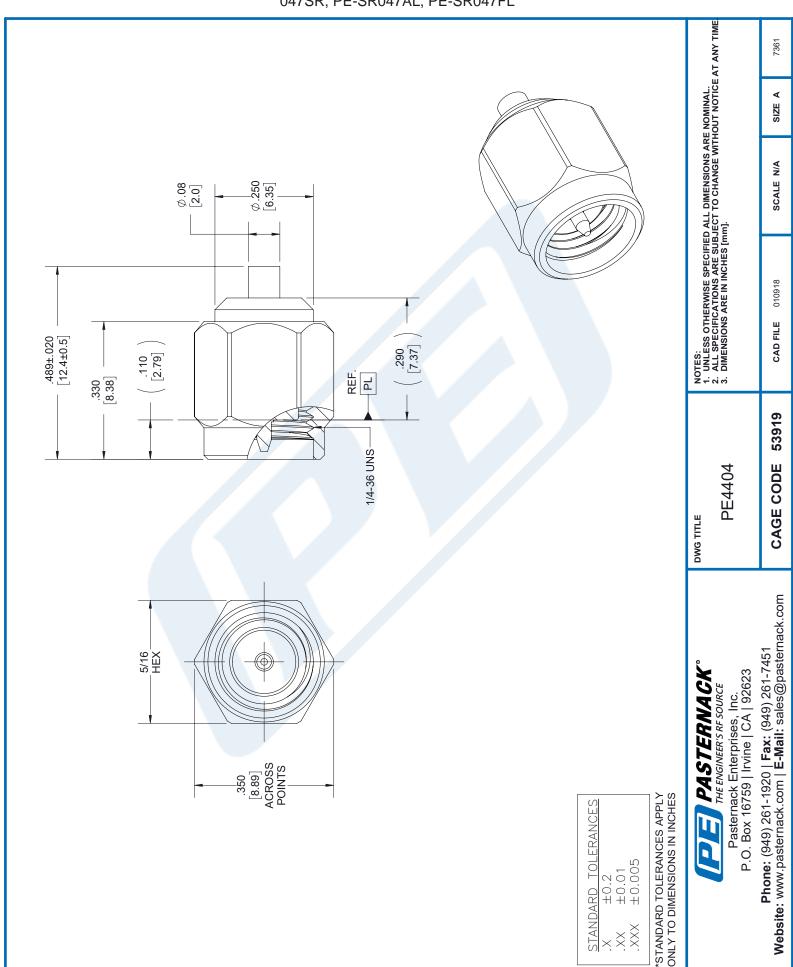
URL: https://www.pasternack.com/sma-male-standard-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe4404-p.aspx

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### PE4404 CAD Drawing

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



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## Formable 047 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor

RF Cables Technical Data Sheet

PE-SR047FL

#### Configuration

- · Formable Cable
- 1 Shield(s)

#### **Features**

- Dimensionally and electrically the same as standard, solid outer conductor semi-rigid coax
- May be formed by hand and does not require special tools to bend
- May be formed more than once without damaging the outer conductor
- Tinned Copper Braid Outer Conductor
- Max Frequency 20 GHz

#### **Applications**

- Test and Measurement
- · Communication Systems
- Wireless Systems
- Medical Equipment
- RADAR
- · Low Loss Applications

#### Description

Formable semi-rigid coaxial cable is a hand formable version of standard semi-rigid that does not require complicated and costly preformed cable assemblies. Because the dimensions and electrical characteristics are so closely matched to semi-rigid coax, standard semi-rigid connectors can be used. Pasternack's PE-SR047FL is a formable .047 semi-rigid coax cable with tinned copper braid outer conductor, providing low loss and excellent RF shielding effectiveness. This semi-flexible cable has an FEP jacket to reduce the chance of shorting exposed contacts or circuit conductors. Pasternack's formable cable can be used as an alternative to semi-rigid coaxial cable in applications where flexibility is required without giving up high electrical performance level. PE-SR047FL datasheet specifications and outline drawing for this .047 semi-flexible hand formable cable are shown in the PDF below.

Pasternack carries a wide range of cables ready to ship same day to fit your needs. They are available in corrugated, flexible, formable or semi-rigid versions with different constructions of conductor materials, dielectric materials, shielding configurations and jacket materials. Our cables are designed to fit a wide range of performance criteria including attenuation, operating temperature, environmental factor, and power capability.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		20	GHz
Impedance		50		Ohms
Velocity of Propagation		69.5		%
Inner Conductor DC Resistance			207	Ohms/1000ft
Outer Conductor DC Resistance			8	Ohms/1000ft
Nominal Capacitance		32 [104.99]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Formable 047 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor PE-SR047FL

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## Formable 047 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor

RF Cables Technical Data Sheet

PE-SR047FL

#### **Performance by Frequency Band**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	3	5	10	GHz
Attenuation, Typ	25	36	65	86	128	dB/100ft
	82.02	118.11	213.25	282.15	419.95	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	15	20		$A \setminus$		GHz
Attenuation, Typ	162 531.5	192 629.92				dB/100ft dB/100m

#### **Mechanical Specifications**

#### **Construction Specifications**

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver1	0.011 in 0.28 mm
Conductor Type	Solid	
Dielectric	PTFE	0.034 in 0.86 mm
Outer Conductor	Tinned Copper Braid	0.047 in 1.19 mm

#### **Environmental Specifications**

Temperature

Operating Range

-40 to +100 deg C

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## Formable 047 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor

RF Cables Technical Data Sheet

PE-SR047FL

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

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URL: https://www.pasternack.com/formable-0.047-semirigid-replacement-50-ohm-coax-cable-tinned-braid-pe-sr047fl-p.aspx

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### PE-SR047FL CAD Drawing

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