



2.92mm Female Connector Clamp/Non-Solder Contact Attachment 4 Hole Flange Mount for PE-047SR, PE-SR047FL

RF Connectors Technical Data Sheet

PE44905

Configuration

- 2.92mm Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-047SR, PE-SR047FL
- 4 Hole Flange

Features

- Max. Operating Frequency 40 GHz
- Excellent VSWR of 1.2:1
- Gold Plated Beryllium Copper Contact
- 50 μ in. minimum contact plating

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

Description

Pasternack's PE44905 2.92mm female 4 hole flange mount connector with clamp/non-solder contact attachment for PE-047SR and PE-SR047FL is part of our full line of RF components available for same-day shipping. Our 2.92mm female connector operates up to a maximum frequency of 40 GHz and offers excellent VSWR of 1.2:1. This 2.92mm 4 hole flange connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our 2.92mm female 4 hole flange connector PE44905 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			1.2:1	
Dielectric Withstanding Voltage (AC)			500	Vrms

Mechanical Specifications

Size	
Length	0.565 in [14.35 mm]
Width/Dia.	0.5 in [12.70 mm]
Weight	0.011 lbs [4.99 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Female Connector Clamp/Non-Solder Contact Attachment 4 Hole Flange Mount for PE-047SR, PE-SR047FL PE44905](#)



2.92mm Female Connector Clamp/Non-Solder Contact Attachment 4 Hole Flange Mount for PE-047SR, PE-SR047FL

RF Connectors Technical Data Sheet

PE44905

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50μ in. minimum
Insulation	ULTEM	
Outer Conductor	Passivated Stainless Steel	SAE-AMS-2700
Body	Passivated Stainless Steel	SAE-AMS-2700

Environmental Specifications

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

Plotted and Other Data

Notes:

2.92mm Female Connector Clamp/Non-Solder Contact Attachment 4 Hole Flange Mount for PE-047SR, 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.

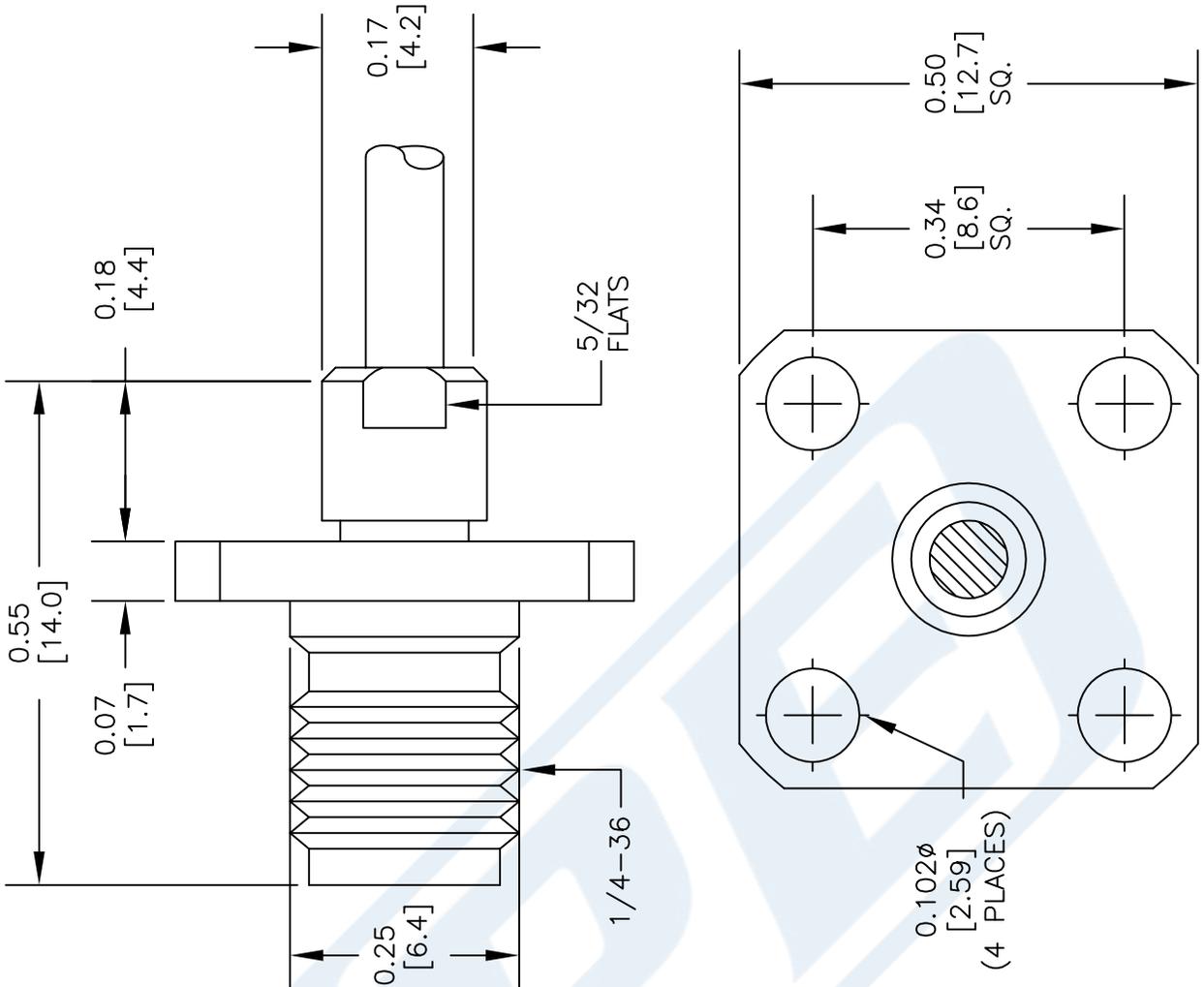
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Female Connector Clamp/Non-Solder Contact Attachment 4 Hole Flange Mount for PE-047SR, PE-SR047FL PE44905](#)

URL: <https://www.pasternack.com/2.92mm-female-pe-047sr-pe-sr047fl-connector-pe44905-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.

PE44905 CAD Drawing

2.92mm Female Connector Clamp/Non-Solder Contact Attachment
4 Hole Flange Mount for PE-047SR, PE-SR047FL



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. TRIM CABLE TO EXPOSE CENTER DIELECTRIC AS SHOWN.
2. PRE-TIN CABLE OUTER JACKET OVER APPROX. LENGTH SHOWN
3. SLIDE CLAMP NUT ONTO CABLE AS SHOWN
4. INSERT CABLE INTO SOLDER FERRULE UNTIL JACKET IS FULLY SEATED IN FERRULE; THEN SOLDER CABLE TO FERRULE WHERE SHOWN.
5. TRIM CABLE DIELECTRIC FLUSH WITH FERRULE FACE AND POINT CENTER CONDUCTOR AS SHOWN. (DO NOT SCORE CENTER CONDUCTOR)
6. INSERT CABLE SUB-ASSEMBLY INTO CONNECTOR BODY UNTIL SOLDER FERRULE IS SEATED AND CABLE CENTER CONDUCTOR PLUGS IN. TIGHTEN CLAMP NUT TO 8-10 IN-LBS.

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	FSCM NO. 53919	CAD FILE	102413	SCALE	N/A	SIZE	A
PE44905							150

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

TECHNICAL DATA SHEET

PE44800

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

Configuration

Connector	1.85mm Female
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]	0.61 [15.49]
Width/Dia., in [mm]	0.3 [7.62]

Connector

Type	1.85mm Female
Contact Material and Plating	Beryllium Copper, Gold
Contact Plating Specification	50µ Inches.
Coupling Nut Material and Plating	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2700
Body Material and Plating	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700

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 Female Precision Connector Clamp/Solder Attachment For PE-047SR, PE-SR047AL, PE-SR047FL PE44800](#)

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

TECHNICAL DATA SHEET

PE44800

Plotted and Other Data

Notes:

Values at 25 °C, sea level

1.85mm Female 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.

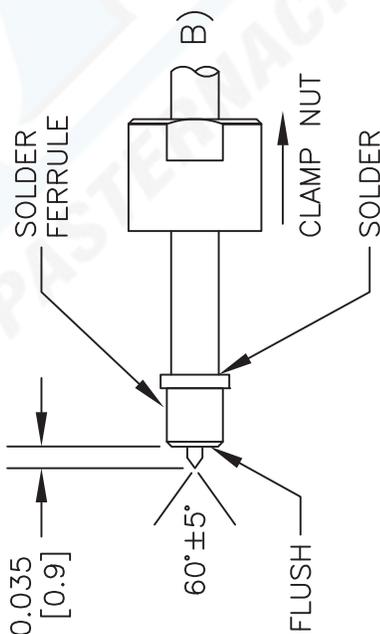
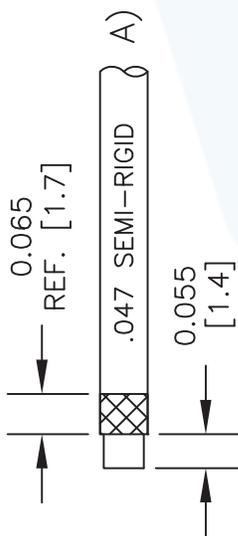
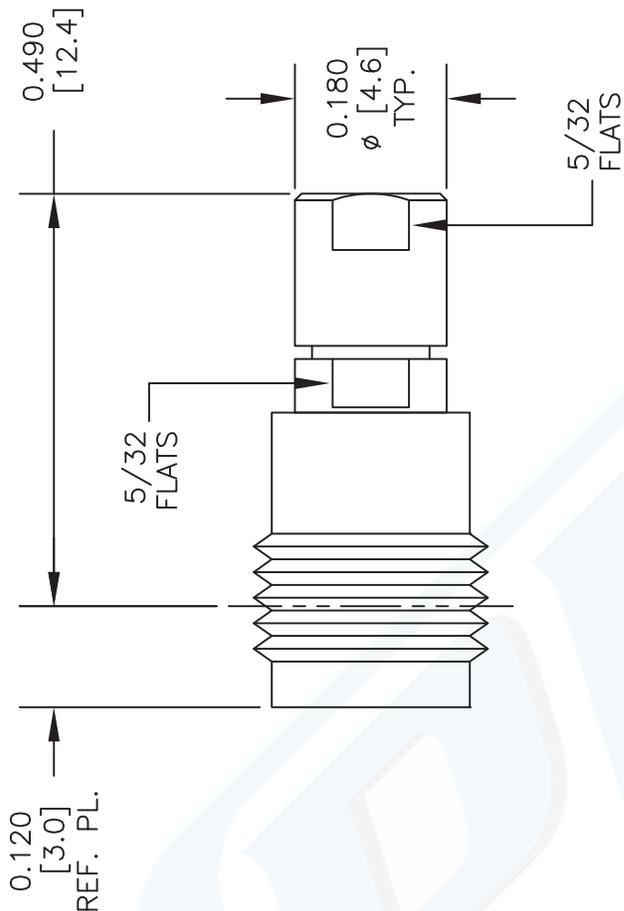
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.85mm Female Precision Connector Clamp/Solder Attachment For PE-047SR, PE-SR047AL, PE-SR047FL PE44800](#)

URL: <http://www.pasternack.com/1.85mm-female-standard-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe44800-p.aspx>

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PE44800 CAD Drawing

1.85mm Female 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.

DWG TITLE

PE44800

NOTES:
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3. DIMENSIONS ARE IN INCHES [mm].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

FSCM NO. 53919

CAD FILE 042413

SCALE N/A

SIZE A

2233



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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](#)



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				GHz
Attenuation, Typ	162	192				dB/100ft
	531.5	629.92				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

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](#)

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:

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

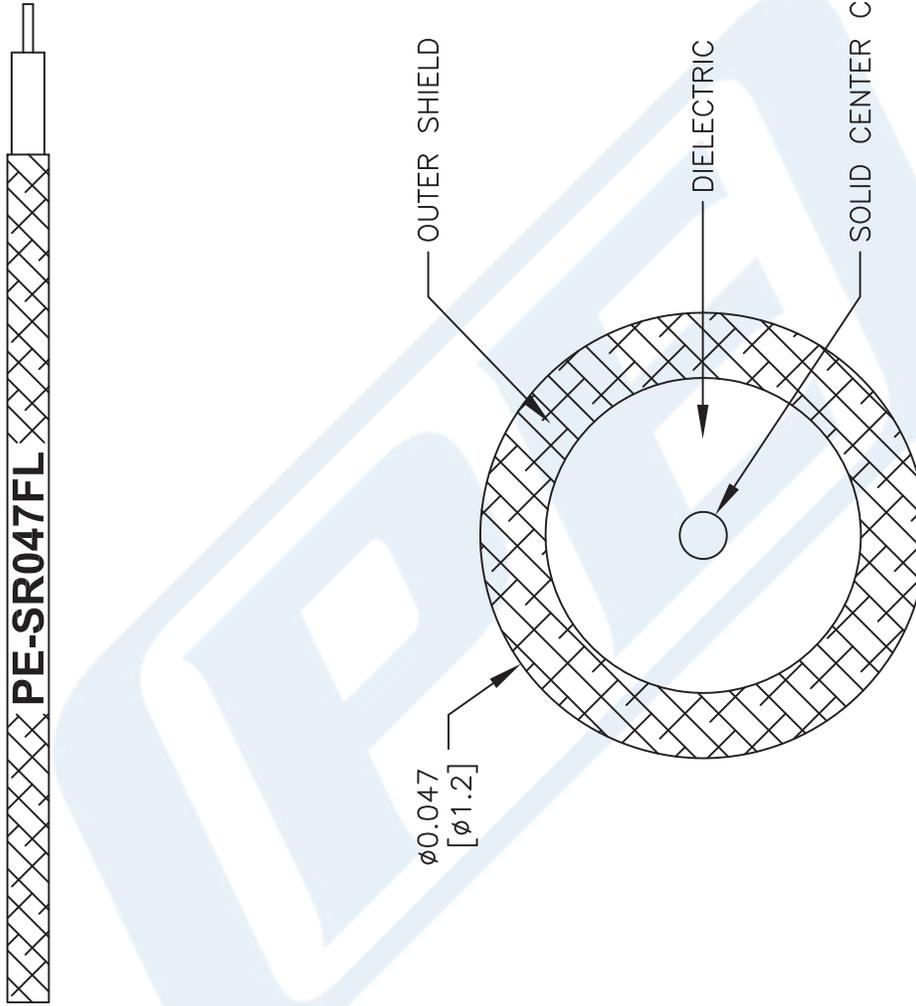
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Formable 047 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor PE-SR047FL](#)

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

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



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 3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
PE-SR047FL

41742

SIZE A

SCALE N/A

CAD FILE 111716

FSCM NO. 53919

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