

3.5mm Male Connector Clamp/Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE- SR047AL, PE-SR047FL, .047 Semi-Rigid



PE51275

Configuration

- 3.5mm Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid

Features

- Max. Operating Frequency 26.5 MHz
- Excellent VSWR of 1.25:1
- Gold over Nickel Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE51275, 3.5mm, Standard, Connector is part of our full line of RF components available for same-day shipping. Our 3.5mm male connector operates up to a maximum frequency of 26.5 MHz and offers excellent VSWR of 1.25:1.

Our 3.5mm male connector PE51275 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 | | 26.5 | MHz |
| VSWR | | | 1.25:1 | |
| Insertion Loss | | 0.154 | | dB |
| Operating Voltage (AC) | | | 250 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 750 | Vrms |
| Inner Conductor DC Resistance | | | 3 | mOhms |
| Outer Conductor DC Resistance | | | 2 | mOhms |
| RF Leakage | 100 | | | dB |
| Impedance | | 50 | | Ohms |

Electrical Specification Notes:

Insertion loss is = $0.03 * \text{SQRT}(F(\text{GHz}))$ dB

Mechanical Specifications

Size

| | |
|-----------------------|--------------------------------------|
| Length | 0.314961 in [8 mm] |
| Width | 0.314961 in [8 mm] |
| Height | 0.633858 in [16.1 mm] |
| Weight | 0.015 lbs [6.8 g] |
| Mating Cycles | 500 Cycles |
| Mating Torque | 7.1 to 15 in-lbs [[0.80 to 1.70 Nm]] |
| Cable Retention Force | 6.1 lbs [2.77 kg] |

3.5mm Male Connector Clamp/Solder Attachment
for PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid



PE51275

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 | Stainless Steel | Passivated |

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:

3.5mm Male 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.

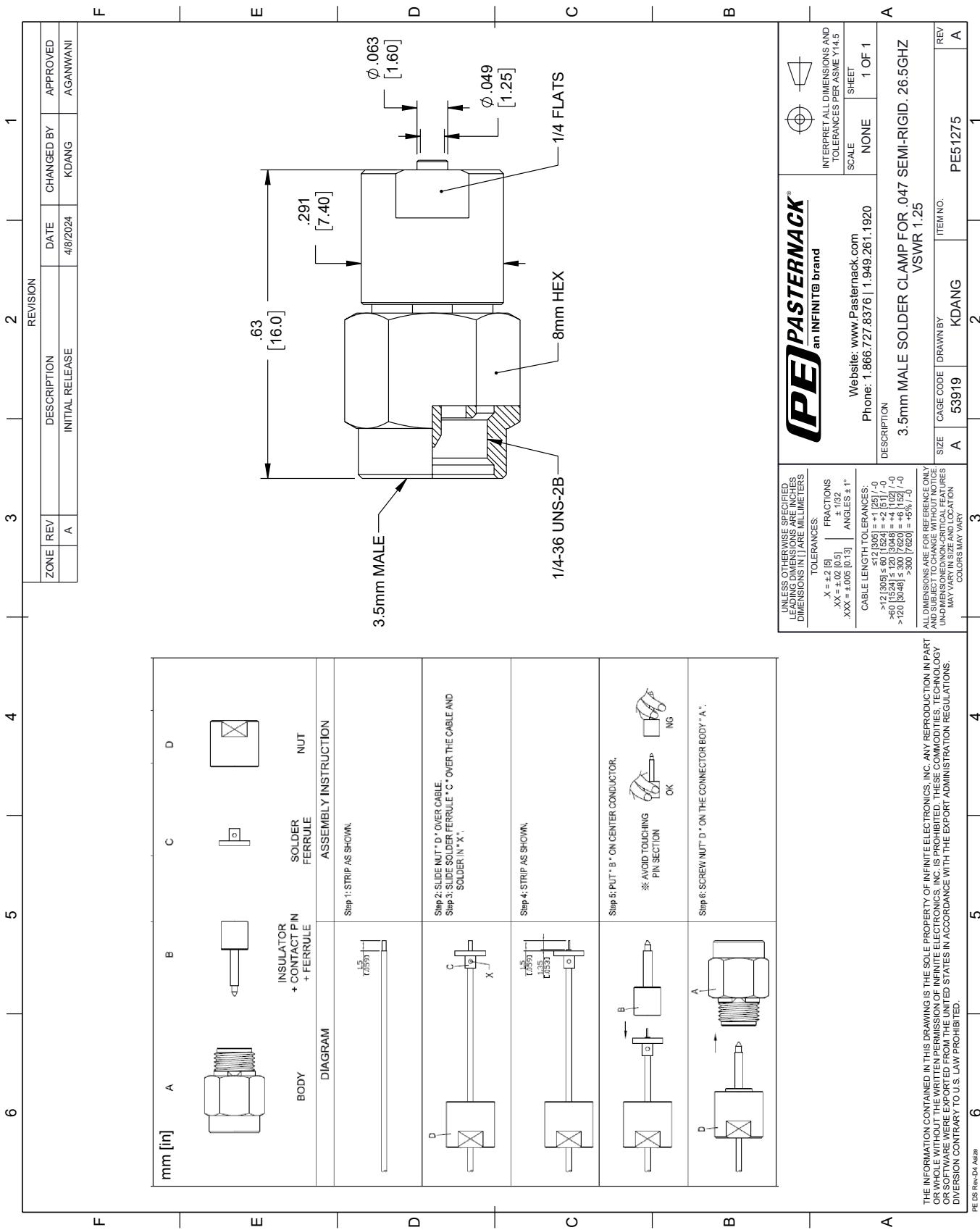
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Male Connector Clamp/Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid PE51275](https://www.pasternack.com/3.5mm-male-pe-047sr-pe-p047-pe-sr047al-connector-pe51275-p.aspx)

URL: <https://www.pasternack.com/3.5mm-male-pe-047sr-pe-p047-pe-sr047al-connector-pe51275-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE51275 CAD Drawing

3.5mm Male Connector Clamp/Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid



3.5mm Female Connector Clamp/Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE- SR047AL, PE-SR047FL, .047 Semi-Rigid



PE51276

Configuration

- 3.5mm Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid

Features

- Max. Operating Frequency 26.5 MHz
- Excellent VSWR of 1.25:1
- Gold over Nickel Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE51276, 3.5mm, Standard, Connector is part of our full line of RF components available for same-day shipping. Our 3.5mm female connector operates up to a maximum frequency of 26.5 MHz and offers excellent VSWR of 1.25:1.

Our 3.5mm female connector PE51276 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 | | 26.5 | MHz |
| VSWR | | | 1.25:1 | |
| Insertion Loss | | 0.154 | | dB |
| Operating Voltage (AC) | | | 250 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 750 | Vrms |
| Inner Conductor DC Resistance | | | 3 | mOhms |
| Outer Conductor DC Resistance | | | 2 | mOhms |
| RF Leakage | 100 | | | dB |
| Impedance | | 50 | | Ohms |

Electrical Specification Notes:

Insertion loss is = $0.03 * \text{SQRT}(F(\text{GHz}))$ dB

Mechanical Specifications

Size

Length

0.291339 in [7.4 mm]

Width

0.291339 in [7.4 mm]

Height

0.536614 in [13.63 mm]

Weight

0.015 lbs [6.8 g]

Mating Cycles

500 Cycles

Mating Torque

7.1 to 15 in-lbs [[0.80 to 1.70 Nm]]

Cable Retention Force

6.1 lbs [2.77 kg]

3.5mm Female Connector Clamp/Solder Attachment
 for PE-047SR, PE-P047, PE-P047LL, PE-
 SR047AL, PE-SR047FL, .047 Semi-Rigid



PE51276

Material Specifications

| Description | Material | Plating |
|---------------|------------------|------------------|
| Contact | Beryllium Copper | Gold over Nickel |
| Insulation | PPO | |
| Body | Stainless Steel | Passivated |
| Solder Sleeve | Stainless Steel | Passivated |

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:

3.5mm Female 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.

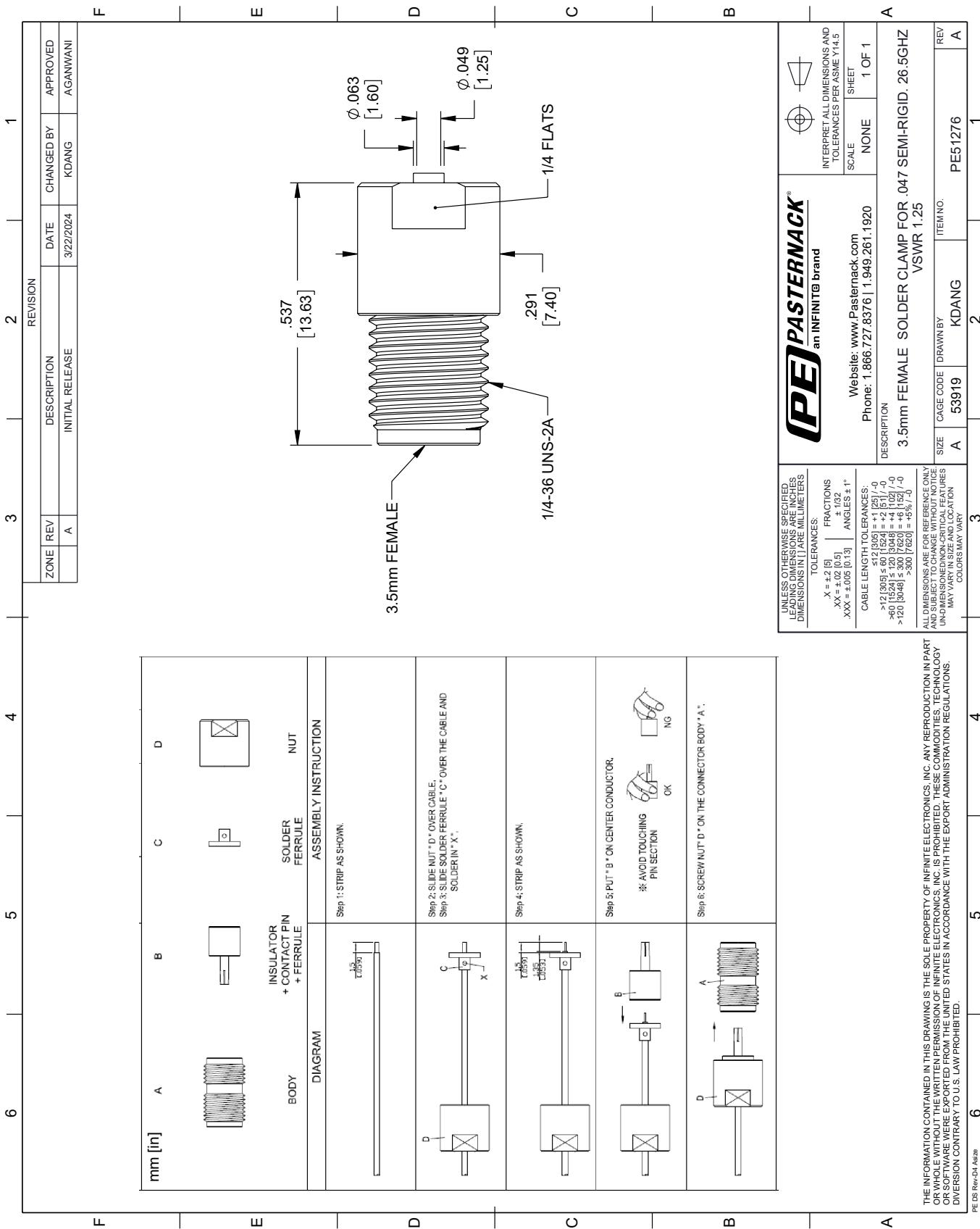
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Female Connector Clamp/Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid PE51276](https://www.pasternack.com/3.5mm-female-pe-047sr-pe-p047-pe-sr047al-connector-pe51276-p.aspx)

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PE51276 CAD Drawing

3.5mm Female Connector Clamp/Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid



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 for current document)

RoHS Compliant
REACH Compliant

12/19/2011

Plotted and Other Data

Notes:
• Values at +25 °C, sea level

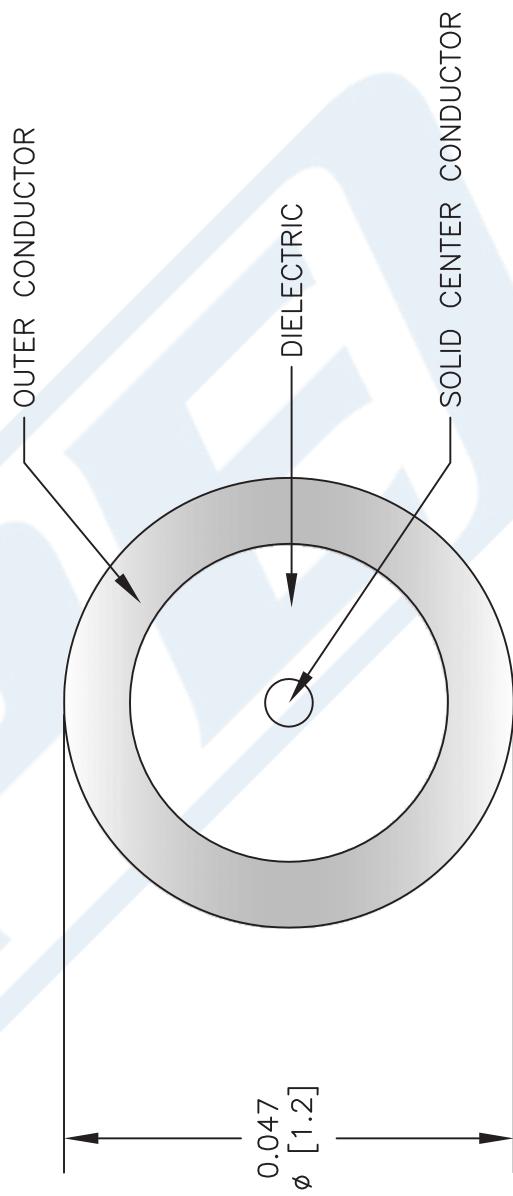
047 Semi-rigid Coax Cable with Copper Outer Conductor from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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](#)

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

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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

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| FSCM NO. | CAD FILE | SCALE | SIZE | REV |
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