PASTERNACK
THE ENGINEER'S RF SOURCE



# BMA Jack Snap-On Connector Crimp/Solder Attachment for RG316, RG188, RG174, PE-C100, LMR-100A

## RF Connectors Technical Data Sheet PE45319

### Configuration

- Snap-On BMA Jack Connector
- 50 Ohms
- Straight Body Geometry
- RG316, RG188, RG174, PE-C100, LMR-100A Interface Type
- Crimp/Solder Attachment

### Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.4:1
- Gold Plated Beryllium Copper Contact
- 51.18µ in. minimum contact plating
- Blind Mate Connector
- Low-Engagement Force
- Radial and Axial Float Versions

### Applications

- General Purpose Test
- Custom Cable Assemblies
- Blind Mating
- Rack and Panel
- Phased Array Systems
- Base Stations
- RF Backplanes
- Test I/O

### Description

Pasternack's PE45319 BMA jack snap-on connector with crimp/solder attachment for RG316, RG188, RG174, PE-C100 and LMR-100A is part of our full line of RF components available for same-day shipping. Our BMA jack connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.4:1. 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.

Our BMA jack connector PE45319 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 | | 12.4 | GHz |
| VSWR | | | 1.4:1 | |
| Insertion Loss | | | 0.1 | dB |
| Operating Voltage (AC) | | | 250 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 750 | Vrms |
| 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: BMA Jack Snap-On Connector Crimp/Solder Attachment for RG316, RG188, RG174, PE-C100, LMR-100A PE45319

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# BMA Jack Snap-On Connector Crimp/Solder Attachment for RG316, RG188, RG174, PE-C100, LMR-100A



## Mechanical Specifications

### Size

| | |
|---|---|
| Length | 0.97 in [24.64 mm] |
| Width/Dia. | 0.35 in [8.89 mm] |
| Weight | 0.007 lbs [3.18 g] |
| Mating Cycles | 1,000 Cycles |

### Material Specifications

| Description | Material | Plating |
|---|---|---|
| Contact | Beryllium Copper | Gold<br>51.18µ in. minimum |
| Insulation | PTFE | |
| Outer Conductor | Beryllium Copper | Gold |
| Body | Passivated Stainless Steel | |

Mechanical Specification Notes:
Recommended axial float mount for best electricl performance: 0.51 +/- 0.25 mm (.020” +/-.010)

## Environmental Specifications

### Temperature

| | |
|---|---|
| Operating Range | -55 to +165 deg C |

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# BMA Jack Snap-On Connector Crimp/Solder Attachment for RG316, RG188, RG174, PE-C100, LMR-100A



**Compliance Certifications** (see product page for current document)

**Plotted and Other Data**

Notes:

BMA Jack Snap-On Connector Crimp/Solder Attachment for RG316, RG188, RG174, PE-C100, LMR-100A 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: BMA Jack Snap-On Connector Crimp/Solder Attachment for RG316, RG188, RG174, PE-C100, LMR-100A PE45319

URL: https://www.pasternack.com/bma-jack-snap-on-rg316-rg188-rg174-pe-c100-lmr-100a-connector-pe45319-p.aspx

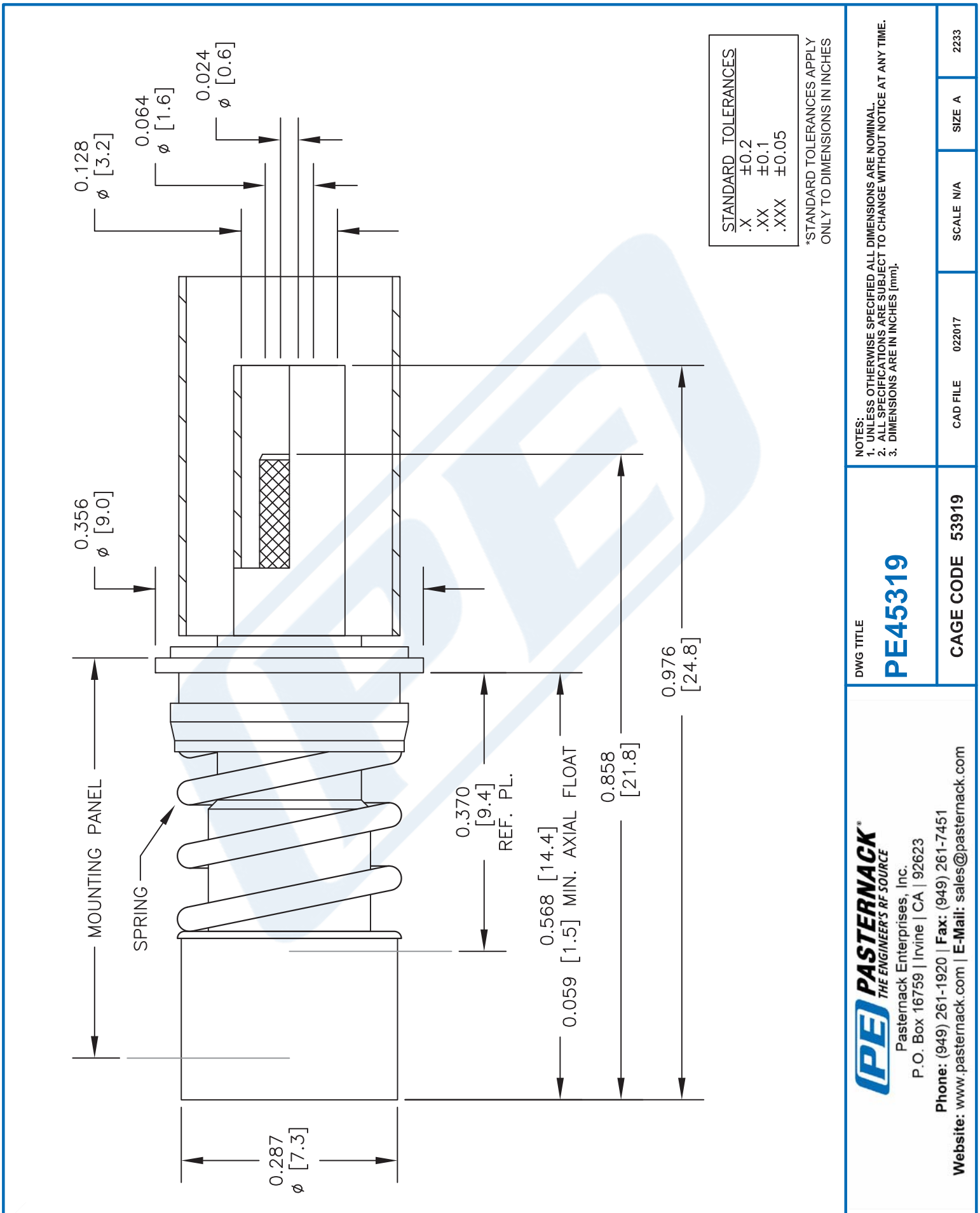
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# PE45319 CAD Drawing

BMA Jack Snap-On Connector Crimp/Solder Attachment for
RG316, RG188, RG174, PE-C100, LMR-100A



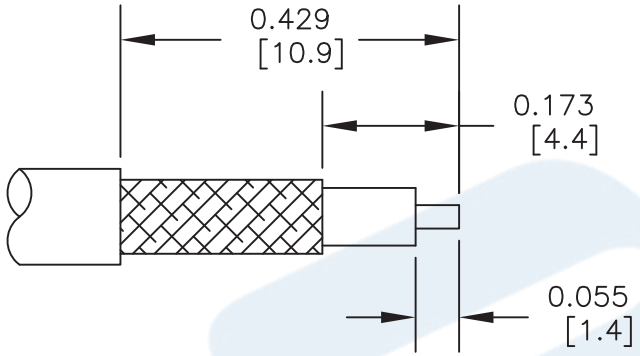

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# PE45319 CAD Drawing

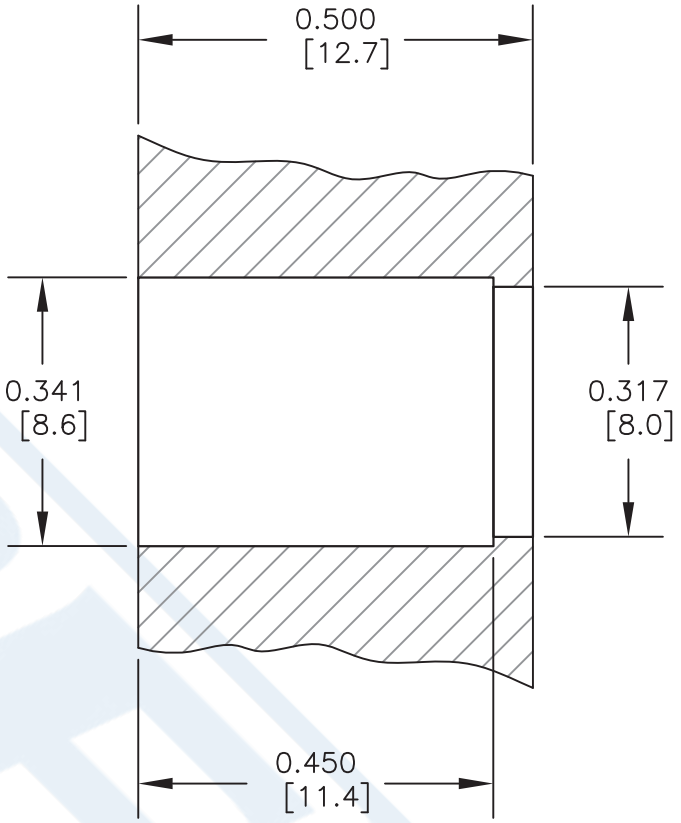
BMA Jack Snap-On Connector Crimp/Solder Attachment for RG316, RG188, RG174, PE-C100, LMR-100A




STRIPPING DIMENSIONS

## ASSEMBLY PROCEDURES

1. STRIP CABLE TO THE DIMENSIONS SHOWN, DO NOT NICK CENTER CONDUCTOR OR BRAID.
2. SLIDE HEAT SHRINK AND FERRULE ONTO CABLE.
3. PUSH CENTER CONDUCTOR FULLY INTO CONTACT AND SOLDER, REMOVE ANY EXCESS SOLDER.
4. FLARE BRAID AND INSERT CONTACT INTO THE BODY UNTIL IT SEATS.
5. SLIDE FERRULE OVER BRAID AND CRIMP WITH .128" HEX CRIMP TOOL.




PANEL DRILLING

| STANDARD TOLERANCES | |
|---|---|
| .X | ±0.2 |
| .XX | ±0.1 |
| .XXX | ±0.05 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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DWG TITLE

**PE45319**

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].

| CAGE CODE 53919 | CAD FILE 022017 | SCALE N/A | SIZE A | 2233 |
|---|---|---|---|---|

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# SMB Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch

RF Connectors
Technical Data Sheet

PE4046

## Configuration

- SMB Plug Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch

## Features

- Max. Operating Frequency 3 GHz
- Good VSWR of 1.37:1
- Gold Plated Beryllium Copper Contact
- 30 µin minimum contact plating

## Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4046 SMB plug connector with crimp/solder attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100 and .100 inch is part of our full line of RF components available for same-day shipping. Our SMB plug connector operates up to a maximum frequency of 3 GHz and offers good VSWR of 1.37:1.

Our SMB plug connector PE4046 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 | | 3 | GHz |
| VSWR | | | 1.37:1 | |
| Operating Voltage (AC) | | | 335 | Vrms |

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 0.85 in [21.59 mm] |
| Width/Dia. | 0.256 in [6.50 mm] |
| Weight | 0.012 lbs [5.44 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMB Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4046

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# SMB Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch



### Material Specifications

| Description | Material | Plating |
|---|---|---|
| Contact | Beryllium Copper | Gold<br>30 µin minimum |
| Insulation | PTFE | |
| Body | Brass | Nickel<br>100 µin minimum |
| Coupling Nut | Brass | Nickel<br>100 µin minimum |
| Crimp Sleeve | Brass | Nickel |

### Environmental Specifications

**Temperature**

Operating Range -65 to +165 deg C

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

### Plotted and Other Data

Notes:

SMB Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch 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: SMB Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4046

URL: https://www.pasternack.com/smb-plug-standard-rg174-rg316-rg188-connector-pe4046-p.aspx

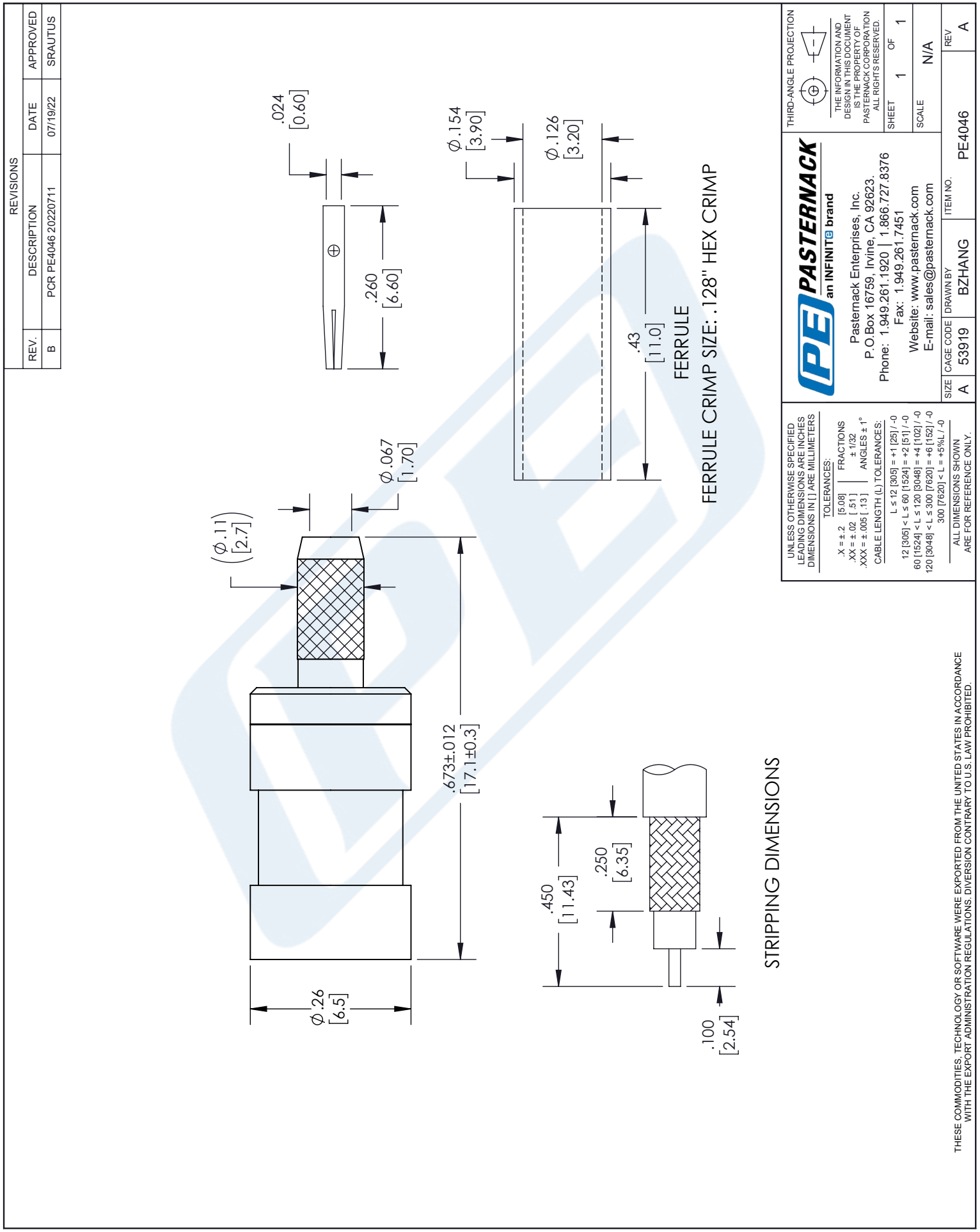
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# PE4046 CAD Drawing

SMB Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch




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# Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket

## RF Cables
## Technical Data Sheet

**RG174A/U**

## Times Microwave Systems Coax Cable Specification

### Configuration

- Flexible Cable
- 1 Shield(s)

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 1,000 | MHz |
| Impedance | | 50 | | Ohms |
| Velocity of Propagation | | 66 | | % |
| Nominal Capacitance | | 31.08 [101.97] | | pF/ft [pF/m] |

### Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 100 | 400 | 1,000 | | | MHz |
| Attenuation, Typ | 8.4 | 19 | 32 | | | dB/100ft |
| | 27.56 | 62.34 | 104.99 | | | dB/100m |

### Mechanical Specifications

| | |
|---|---|
| Diameter | 0.11 in [2.79 mm} |
| Weight | 0.008 lbs/ft [0.01 kg/m] |

### Construction Specifications

| Description | Material and Plating | Diameter |
|---|---|---|
| Inner Conductor | Copper Clad Steel, 7 Strands | 0.019 in [0.48 mm] |
| Conductor Type | Stranded | |
| Dielectric | PE | 0.06 in [1.52 mm] |
| First Shield | Tinned Copper Braid | 0.078 in [1.98 mm] |

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket RG174A/U

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# Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket

## RF Cables
## Technical Data Sheet

**RG174A/U**

| | | |
|---|---|---|
| Jacket | PVC, Black | 0.11 in [2.79 mm] |

### Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -40 to +80 deg C |

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

### Plotted and Other Data

Notes:

Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket 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: Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket RG174A/U

URL: https://www.pasternack.com/flexible-0.100-rg174-50-ohm-coax-cable-pvc-jacket-rg174a-u-p.aspx

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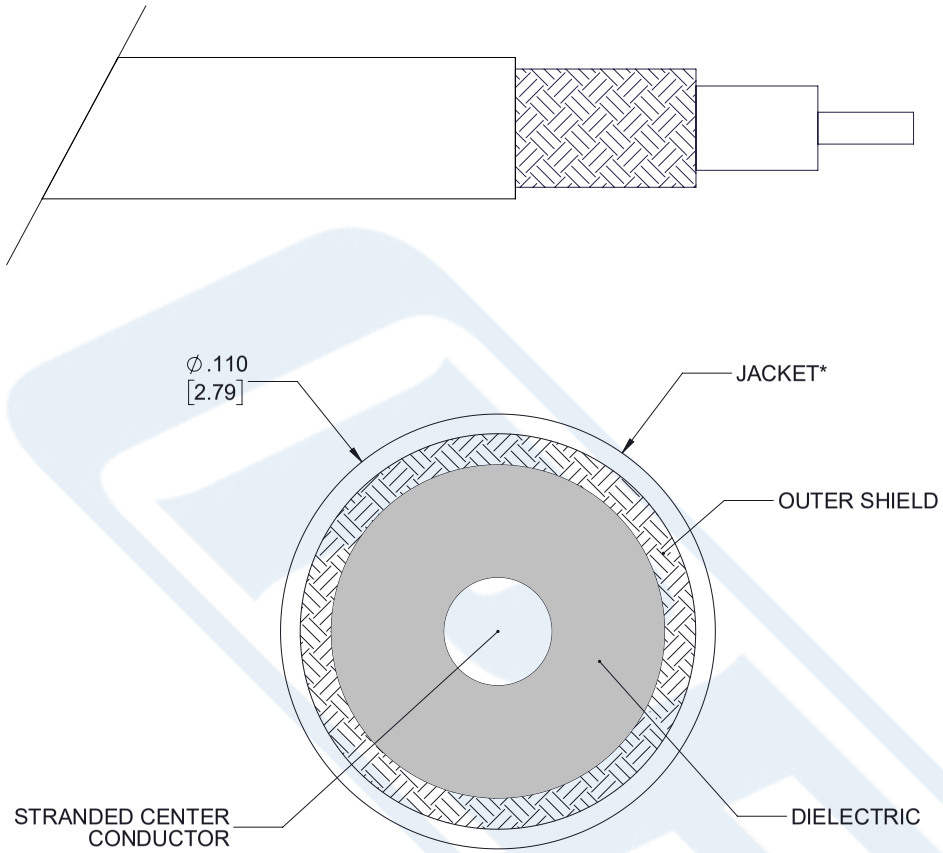
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# RG174A/U CAD Drawing

Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket




**SECTION VIEW**

NOTE:

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| STANDARD | TOLERANCES |
|---|---|
| .X | ±0.2 |
| .XX | ±0.01 |
| .XXX | ±0.005 |

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DWG TITLE

RG174A/U

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| CAGE CODE 53919 | CAD FILE 05/25/18 | SCALE N/A | SIZE A | 7361 |
|---|---|---|---|---|