

## SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188



### RF Connectors Technical Data Sheet

**PE45209**

#### Configuration

- SSMC Plug Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: RG316, RG174, RG188
- 5/32 inch Hex

#### Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.5:1

- Gold Plated Beryllium Copper Contact

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE45209 SSMC plug connector with crimp/solder attachment for RG316, RG174 and RG188 is part of our full line of RF components available for same-day shipping. Our SSMC plug connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.5:1.

Our SSMC plug connector PE45209 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                  |         |         | 1.5:1   |       |
| Insulation Resistance | 1,000   |         |         | MOhms |

#### Mechanical Specifications

##### Size

|               |                    |
|---------------|--------------------|
| Length        | 0.94 in [23.88 mm] |
| Width/Dia.    | 0.156 in [3.96 mm] |
| Weight        | 0.0033 lbs [1.5 g] |
| Mating Cycles | 500 Cycles         |
| Mating Torque | 1 in-lbs [0.11 Nm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188 PE45209](#)

SSMC Plug Connector Crimp/Solder  
Attachment for RG316, RG174, RG188



**RF Connectors**  
**Technical Data Sheet**

**PE45209**

**Material Specifications**

| Description  | Material         | Plating |
|--------------|------------------|---------|
| Contact      | Beryllium Copper | Gold    |
| Insulation   | PTFE             |         |
| Body         | Beryllium Copper | Gold    |
| Coupling Nut | Beryllium Copper | Gold    |

**Environmental Specifications**

**Temperature**

Operating Range -45 to +120 deg C

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

**Plotted and Other Data**

Notes:

SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188 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: [SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188 PE45209](#)

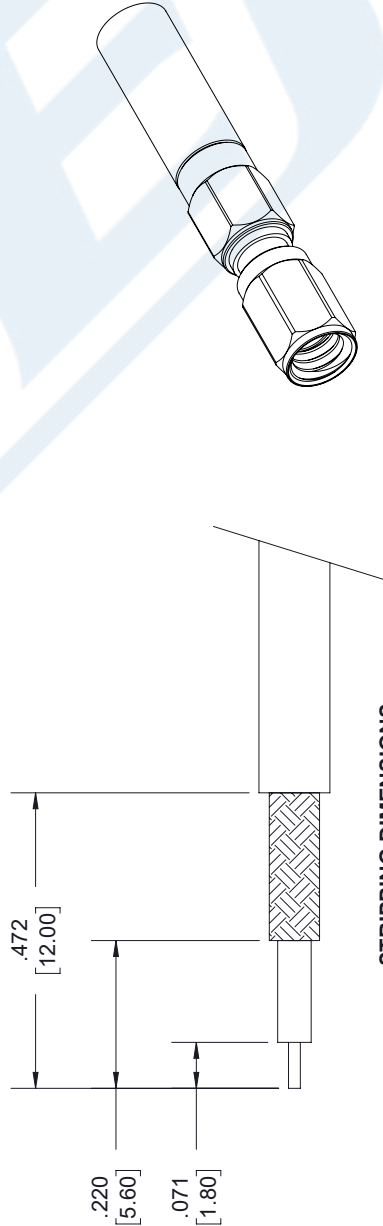
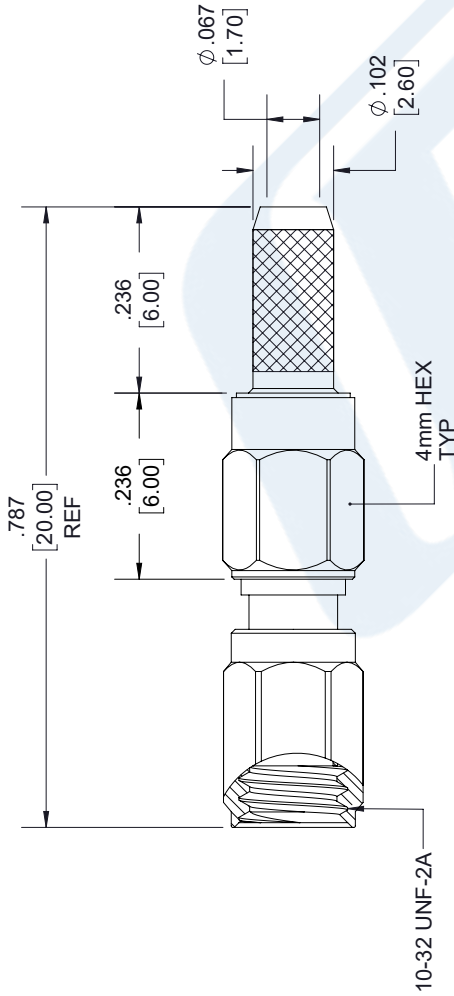
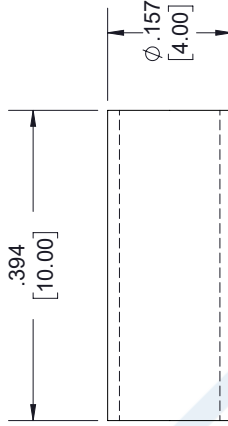
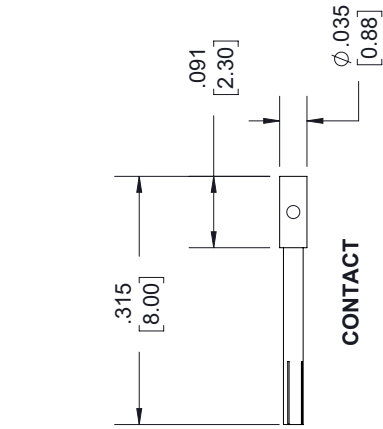
URL: <https://www.pasternack.com/ssmc-male-rg316-rg174-rg188-connector-pe45209-p.aspx>

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.

# PE45209 CAD Drawing

SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188

| REV. | DESCRIPTION         | DATE     | APPROVED |
|------|---------------------|----------|----------|
| A    | PCR PE45209 2011127 | 12/13/19 | SELLIS   |



## NOTES:

- CABLE ATTACHMENT:
  - OUTER: CRIMP.
  - INNER: SOLDER.
- CRIMP SIZE REQUIRED:
  - FERRULE: .134 [3.40] HEX. CRIMP TOOL.
  - CONTACT: SOLDER.

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

| TOLERANCES:                  | FRACTIONS   |
|------------------------------|-------------|
| .X = ± .2                    | [.08]       |
| .XX = ± .02                  | [.51]       |
| .XXX = ± .005                | [.13]       |
| CABLE LENGTH (L) TOLERANCES: | ANGLES ± 1° |
| L ≤ 12 [305]                 | ± 1/32      |
| 12 [305] < L ≤ 60 [1524]     | ± 1/16      |
| 60 [1524] < L ≤ 120 [3048]   | ± 1/8       |
| 120 [3048] < L ≤ 300 [7620]  | ± 1/4       |
| 300 [7620] < L ≤ ∞           | ± 1/2       |

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Pasternack Enterprises, Inc.  
P.O. Box 16759, Irvine, CA 92623.  
Phone: 1.949.261.1920 | 1.866.727.8376  
Fax: 1.949.261.7451  
Website: [www.pasternack.com](http://www.pasternack.com)  
E-mail: [sales@pasternack.com](mailto:sales@pasternack.com)

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SHEET 1 OF 1

SCALE N/A

REV A

SIZE A

CAGE CODE 53919

DRAWN BY K.DANG

ITEM NO. PE45209



TNC Male Connector Crimp/Crimp Attachment for RG174,  
RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch

## RF Connectors Technical Data Sheet

**PE45527**

### Configuration

- TNC Male Connector
- 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 1.3:1
- Gold Plated Brass Contact
- 30  $\mu$ m minimum contact plating

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE45527 TNC male 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 TNC male connector operates up to a maximum frequency of 3 GHz and offers good VSWR of 1.3:1.

Our TNC male connector PE45527 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                   |         |         | 1.3:1   |       |
| Operating Voltage (AC) |         |         | 500     | Vrms  |

### Mechanical Specifications

#### Size

Length

0.88 in [22.35 mm]

Width/Dia.

0.571 in [14.50 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Connector Crimp/Crimp Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch PE45527](#)



TNC Male Connector Crimp/Crimp Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch

## RF Connectors Technical Data Sheet

**PE45527**

### Material Specifications

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

### Environmental Specifications

#### Temperature

Operating Range

-65 to +165 deg C

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

### Plotted and Other Data

Notes:

TNC Male Connector Crimp/Crimp Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .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: [TNC Male Connector Crimp/Crimp Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch PE45527](#)

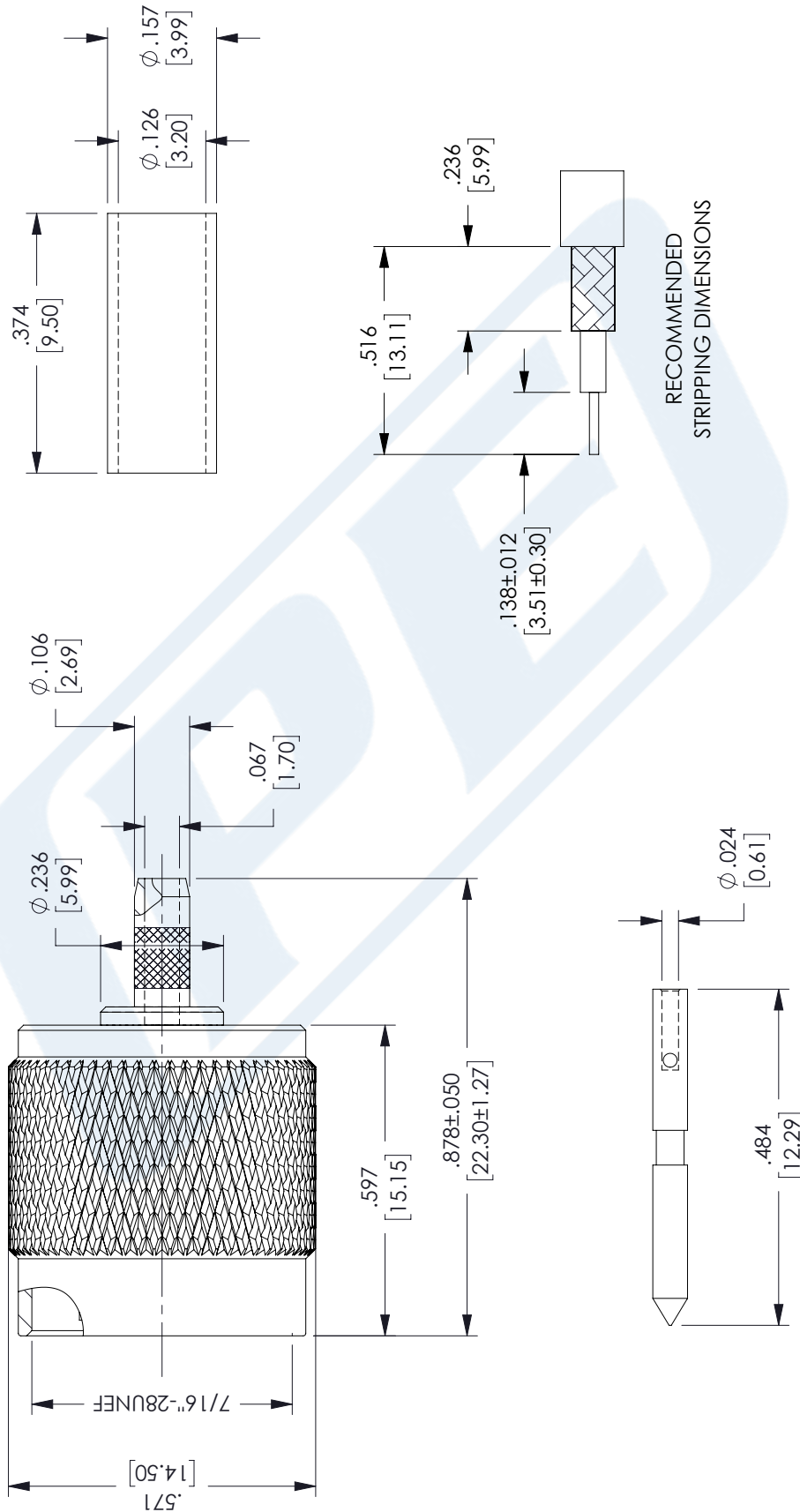
URL: <https://www.pasternack.com/tnc-male-rg174-rg316-lmr-100-pe-b100-pe-c100-connector-pe45527-p.aspx>

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# PE45527 CAD Drawing

TNC Male Connector Crimp/Crimp Attachment for RG174, RG316,  
RG188, LMR-100, PE-B100, PE-C100, .100 inch

| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 07/06/2021 | SRAUTUS  |



RECOMMENDED  
STRIPPING DIMENSIONS

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
 .X = ±.2 [5.08]  
 .XX = ±.02 [.51]  
 .XXX = ±.005 [.13]  
 ANGLES ± 1°  
 CABLE LENGTH (L) TOLERANCES:  
 L ≤ 12 [305] = +1 [25] / -0  
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
 300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.



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Pasternack Enterprises, Inc.  
P.O. Box 16759, Irvine, CA 92623.  
Phone: 1.949.261.1920 | 1.866.727.8376  
Fax: 1.949.261.7451  
Website: [www.pasternack.com](http://www.pasternack.com)  
E-mail: [sales@pasternack.com](mailto:sales@pasternack.com)

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SHEET 1 OF 1

SCALE N/A

REV A

SIZE A

CAGE CODE 53919

DRAWN BY MVEERAPPAN

ITEM NO. PE45527



## Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket

### RF Cables Technical Data Sheet

#### 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] |
| Power@ 1GHz             |         |                | 17      | Watts        |

#### 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   | 0.009 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](#)



Flexible RG174 Coax Cable Single  
Shielded with Black PVC Jacket

**RF Cables**  
**Technical Data Sheet**

|        |            |                   |
|--------|------------|-------------------|
| 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**

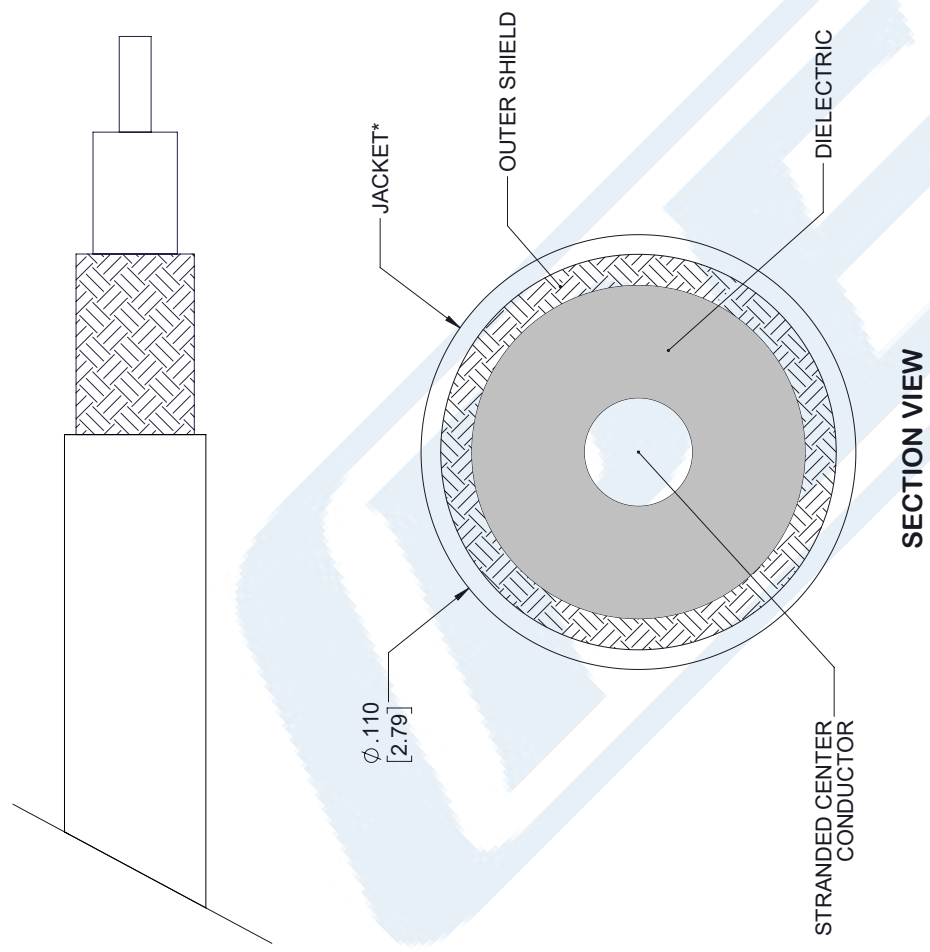
Notes:

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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NOTE:

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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

|                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |                                         |                                                                                                                                                                                                                       |                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <div>  <div> <div>PASTERNAK®</div> <div>THE ENGINEER'S RF SOURCE</div> <div>Pasternack Enterprises, Inc.</div> <div>P.O. Box 16759   Irvine   CA   92623</div> <div> <div>Phone: (949) 261-1920   Fax: (949) 261-7451</div> <div>Website: www.pasternack.com   E-Mail: sales@pasternack.com</div> </div> </div> </div> | <div>DWG TITLE</div> <div>RG174A/U</div> |                                         | <div>NOTES:</div> <div>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.</div> <div>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME</div> <div>3. DIMENSIONS ARE IN INCHES [mm].</div> |                              |
|                                                                                                                                                                                                                                                                                                                                                                                                             | <div>CAGE CODE</div> <div>53919</div>    | <div>CAD FILE</div> <div>05/25/18</div> | <div>SCALE</div> <div>N/A</div>                                                                                                                                                                                       | <div>SIZE</div> <div>A</div> |
| <div>7361</div>                                                                                                                                                                                                                                                                                                                                                                                             |                                          |                                         |                                                                                                                                                                                                                       |                              |