



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

## RF Connectors Technical Data Sheet

PE4017

### Configuration

- SSMB 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 6 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 30 µin minimum contact plating

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4017 SSMB 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 SSMB plug connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1.

Our SSMB plug connector PE4017 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      |         | 6       | GHz   |
| VSWR                                 |         |         | 1.3:1   |       |
| Operating Voltage (AC)               |         |         | 250     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 500     | Vrms  |

### Mechanical Specifications

|             |                    |
|-------------|--------------------|
| <b>Size</b> |                    |
| Length      | 0.807 in [20.5 mm] |
| Width/Dia.  | 0.184 in [4.67 mm] |
| Height      | 0 in [0 mm]        |
| Weight      | 0.008 lbs [3.63 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMB Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch PE4017](#)



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

## RF Connectors Technical Data Sheet

**PE4017**

### Material Specifications

| Description     | Material         | Plating                |
|-----------------|------------------|------------------------|
| Contact         | Beryllium Copper | Gold<br>30 µin minimum |
| Insulation      | PTFE             |                        |
| Outer Conductor | Beryllium Copper | Gold<br>30 µin minimum |
| Body            | Brass            | Gold<br>30 µin minimum |
| Crimp Sleeve    | Brass            | Gold<br>30 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:

SSMB Plug Connector Crimp/Solder 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: [SSMB Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch PE4017](#)

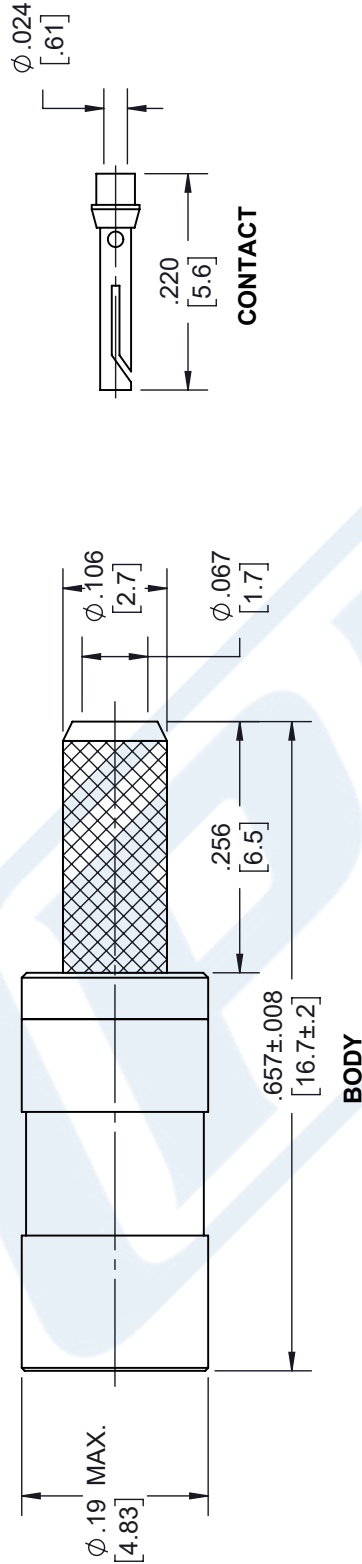
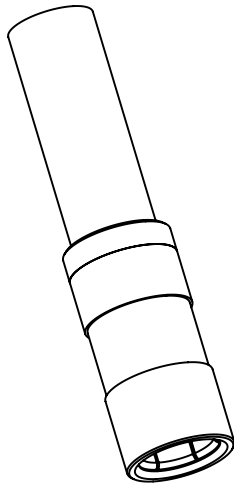
URL: <https://www.pasternack.com/ssmb-plug-rg174-rg316-lmr-100-pe-b100-pe-c100-connector-pe4017-p.aspx>

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.

# PE4017 CAD Drawing

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

| REVISIONS |             |        |          |
|-----------|-------------|--------|----------|
| REV.      | DESCRIPTION | DATE   | APPROVED |
| B         | PCR PE4017  | 4/7/22 | SRAUTUS  |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                 |                                                                                                                                                                              |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>PE PASTERNAK</b><br>an INFINITI® brand<br>Pasternack Enterprises, Inc.<br>P.O. Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Fax: 1.949.261.7451<br>Website: www.pasternack.com<br>E-mail: sales@pasternack.com                                                                                                                                                                                                                                                                                 |                                                                 | <b>THIRD-ANGLE PROJECTION</b><br><br>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.<br>SHEET 1 OF 1<br>SCALE N/A |  |
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS<br>TOLERANCES:<br>X = $\pm$ .2 [5.08]<br>.XX = $\pm$ .02 [.51]<br>.XXX = $\pm$ .005 [.13]<br>CABLE LENGTH (L) TOLERANCES:<br>L $\leq$ 12 [305] = $\pm$ 1 [25] / -0<br>12 [305] < L $\leq$ 60 [1524] = $\pm$ 2 [51] / -0<br>60 [1524] < L $\leq$ 120 [3048] = $\pm$ 4 [102] / -0<br>120 [3048] < L $\leq$ 300 [7620] = $\pm$ 6 [152] / -0<br>300 [7620] < L = $\pm$ 5% / -0<br>ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY. | SIZE A<br>CAGE CODE 53919<br>DRAWN BY HBAKKE<br>ITEM NO. PE4017 | REV B                                                                                                                                                                        |  |

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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 µin 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](#)

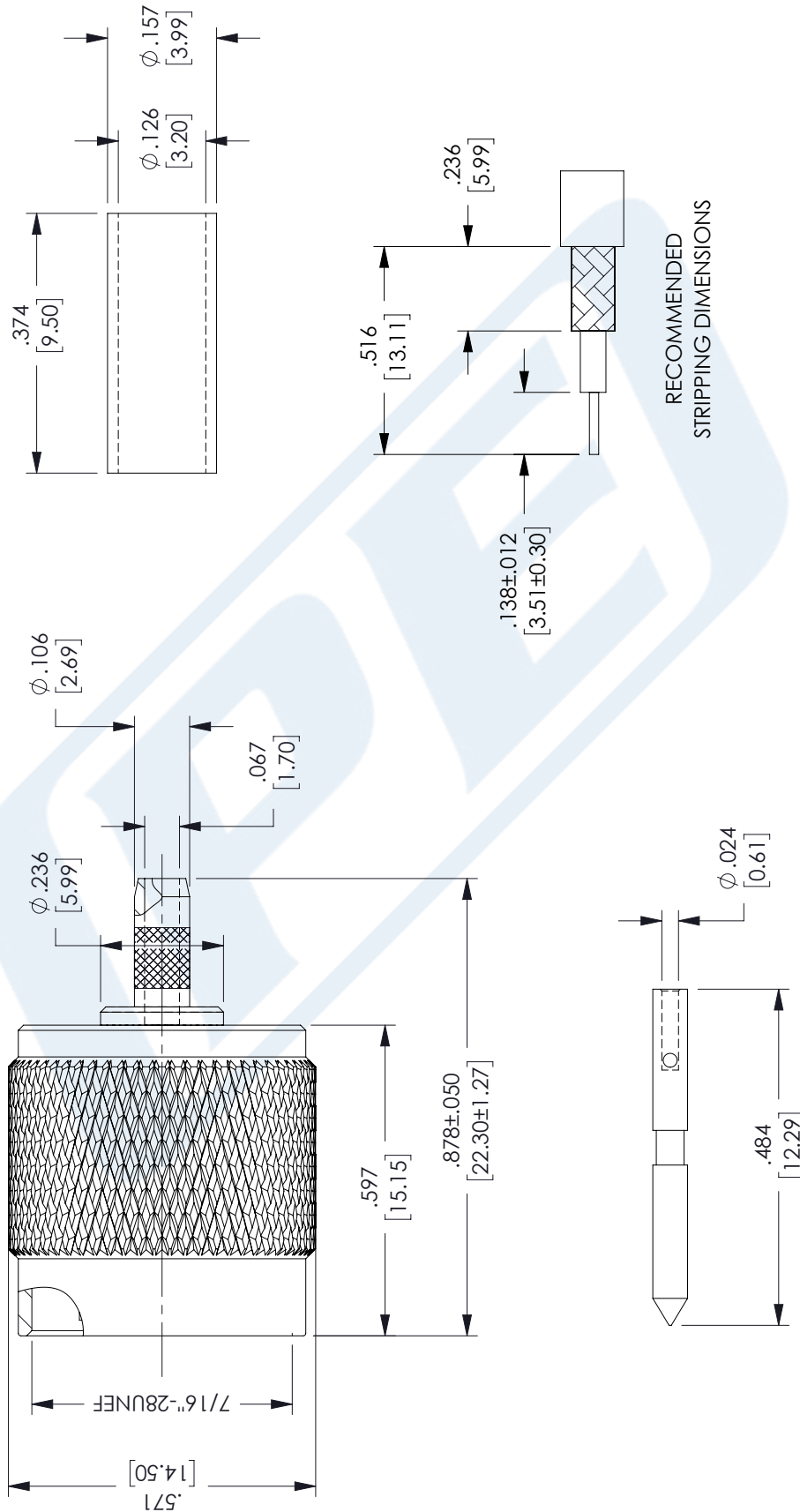
URL: <https://www.pasternack.com/tnc-male-rg174-rg316-lmr-100-pe-b100-pe-c100-connector-pe45527-p.aspx>

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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<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |           |
| TOLERANCES:                                                                                      | FRACTIONS |
| .X = ± .2                                                                                        | [.08]     |
| .XX = ± .02                                                                                      | [.51]     |
| .XXX = ± .005                                                                                    | [.13]     |
| 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<br>ARE FOR REFERENCE ONLY.                                                  |           |



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THIRD-ANGLE PROJECTION



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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 RG316 Coax Cable Single Shielded with Tan FEP Jacket

RF Cables  
Technical Data Sheet

RG316/U

**Configuration**

- Flexible Cable
- 1 Shield(s)

**Features**

- High Flexibility
- FEP Jacket
- Velocity of Propagation 69%

**Applications**

- General Purpose
- Antenna Feeds
- Communication Systems
- Wireless Systems
- Indoor / Outdoor Uses
- High Temperature Applications
- High Flexibility Applications
- Jumper Cable Assemblies

**Description**

Flexible coaxial cable are ideal for applications where tight bends and continual flexure are required. Pasternack's RG316/U is a single shielded flexible coax cable with FEP jacket and compatible with a wide selection of connector types. This RG316/U coaxial cable has a stranded inner conductor for better flexibility and operates up to 3 GHz. The FEP jacket of this RG316/U coax cable makes it suitable for indoor/outdoor uses and high temperature applications. RG316/U datasheet specifications and outline drawing for this flexible 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      |         | 3           | GHz    |
| Impedance                            |         | 50      |             | Ohms   |
| Velocity of Propagation              |         | 69      |             | %      |
| Operating Voltage (AC)               |         |         | 900         | Vrms   |
| Dielectric Withstanding Voltage (AC) |         |         | 2,000       | Vrms   |
| Jacket Spark                         |         |         | 2,000       | Vrms   |
| Nominal Capacitance                  |         |         | 32 [104.99] | [pF/m] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket RG316/U](#)

## Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

**RG316/U**

#### Performance by Frequency Band

| Description      | F1    | F2    | F3   | F4     | F5     | Units    |
|------------------|-------|-------|------|--------|--------|----------|
| Frequency        | 0.05  | 0.1   | 0.4  | 1      | 3      | GHz      |
| Attenuation, Typ | 7.5   | 11    | 21   | 38     | 58     | dB/100ft |
|                  | 24.61 | 36.09 | 68.9 | 124.67 | 190.29 | dB/100m  |

#### Mechanical Specifications

|          |                         |
|----------|-------------------------|
| Diameter | 0.102 in [2.59 mm]      |
| Weight   | 0.01 lbs/ft [0.01 Kg/m] |

#### Construction Specifications

| Description     | Material and Plating                       | Diameter           |
|-----------------|--------------------------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, Silver7                 | 0.02 in 0.51 mm    |
| Conductor Type  | Stranded                                   |                    |
| Dielectric      | PTFE                                       | 0.06 in 1.52 mm    |
| First Shield    | Silver Plated Copper Braid<br>95% coverage | 0.081 in 2.06 mm   |
| Jacket          | FEP, Tan                                   | 0.102 in [2.59 mm] |

#### Environmental Specifications

|                                |                   |
|--------------------------------|-------------------|
| Temperature<br>Operating Range | -55 to +200 deg C |
|--------------------------------|-------------------|

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket RG316/U](#)



## Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

RG316/U

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

#### Plotted and Other Data

Notes:

Flexible RG316 Coax Cable Single Shielded with Tan FEP 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.

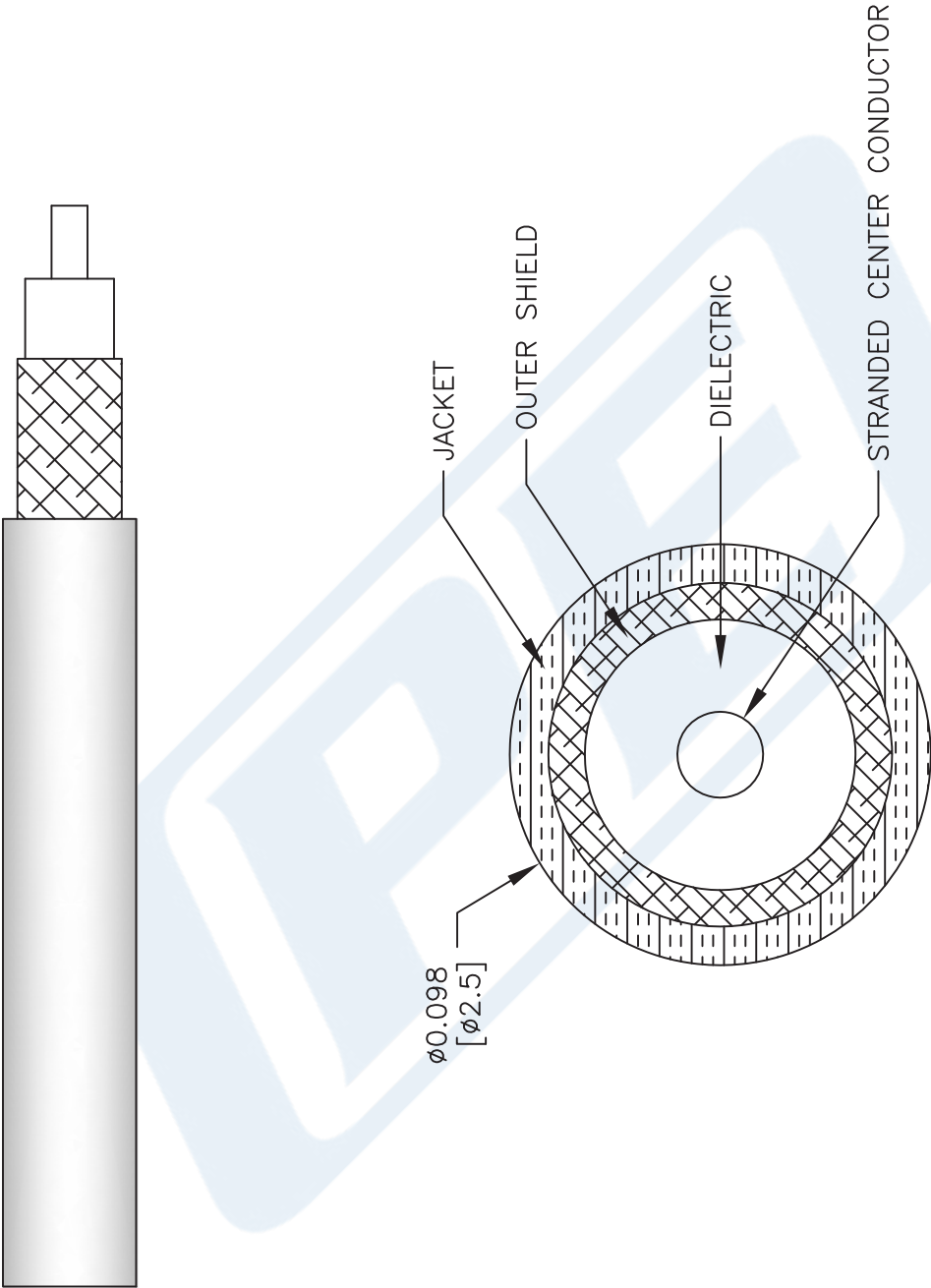
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket RG316/U](#)

URL: <https://www.pasternack.com/flexible-rg316u-fep-jacket-silver-plated-copper-braid-outer-conductor-single-shielded-rg316-u-p.aspx>

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RG316/U CAD Drawing

Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket



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  
**RG316/U**

FSCM NO. 53919

41742

SIZE A

SCALE N/A

CAD FILE 111716

**P****E** **PASTERNAK®**  
THE ENGINEER'S RF SOURCE

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