



D-Sub Receptacle Contact Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100

## RF Connectors Technical Data Sheet

PE4801

### Configuration

- D-Sub Receptacle Connector
- 50 Ohms
- Straight Body Geometry
- RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 Interface Type
- Crimp/Solder Attachment

### Features

- Gold Plated Contact

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4801 D-Sub receptacle contact crimp/solder attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100 and LMR-100 is part of our full line of RF components available for same-day shipping.

Our D-Sub receptacle connector PE4801 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.

### Mechanical Specifications

| Size       |                    |
|------------|--------------------|
| Length     | 0.94 in [23.88 mm] |
| Width/Dia. | 0.22 in [5.59 mm]  |
| Weight     | 0.005 lbs [2.27 g] |

### Material Specifications

| Description | Material | Plating |
|-------------|----------|---------|
| Contact     |          | Gold    |
| Insulation  | PTFE     |         |
| Body        | Brass    | Gold    |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [D-Sub Receptacle Contact Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 PE4801](#)



D-Sub Receptacle Contact Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100

## RF Connectors Technical Data Sheet

PE4801

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

### Plotted and Other Data

Notes:

D-Sub Receptacle Contact Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 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.

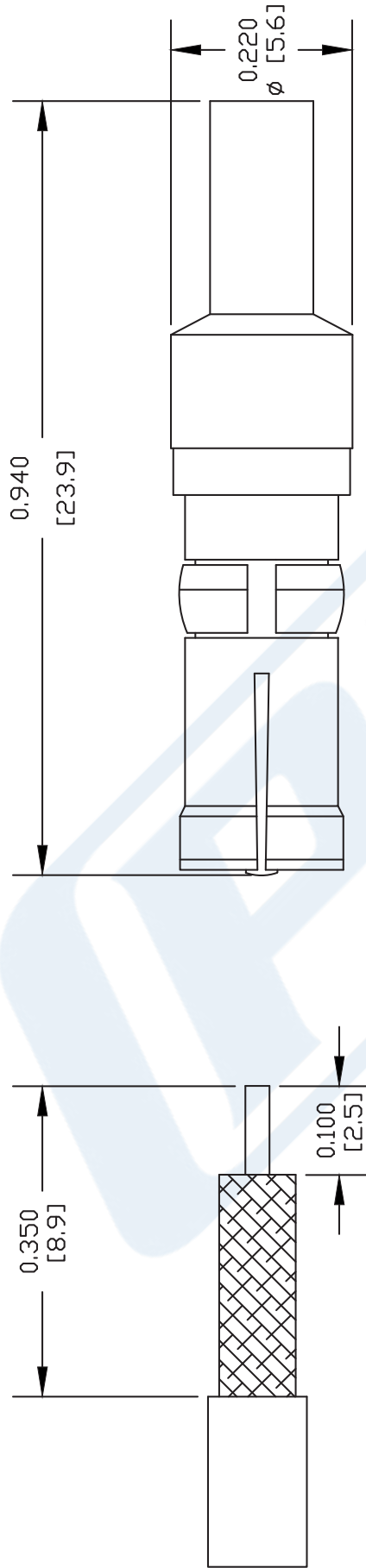
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [D-Sub Receptacle Contact Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 PE4801](#)

URL: <https://www.pasternack.com/d-sub-receptacle-standard-rg174-rg316-rg187-rg188-connector-pe4801-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.

# PE4801 CAD Drawing

D-Sub Receptacle Contact Crimp/Solder Attachment for RG174,  
RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100



## STRIPPING DIMENSIONS

## ASSEMBLY PROCEDURES

1. SLIDE FERRULE ONTO CABLE STRIP CABLE AS SHOWN & TIN CENTER CONDUCTOR.
2. INSERT DIELECTRIC AND CENTER CONDUCTOR INTO BODY. SOLDER CENTER CONDUCTOR THROUGH HOLE IN BODY. REMOVE EXCESS SOLDER. SLIDE FERRULE FORWARD & CRIMP.

## CRIMP SIZE REQUIRED

FERRULE: .128" HEX CRIMP TOOL



**PASTERNAK®**  
Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)

DWG TITLE

**PE4801**

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.

FSCM NO. 53919

CAD FILE 060702

SCALE N/A

SIZE A

127



TNC Female Bulkhead Mount Connector Crimp/Solder  
Attachment for RG174, RG316, RG188, 0.100 inch,  
PE-B100, PE-C100, LMR-100, IP67 Rated

RF Connectors  
Technical Data Sheet

PE44899

### Configuration

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

### Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.25:1
- Gold Plated Phosphor Bronze Contact
- IP67 Rated (Unmated)

### Applications

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

### Description

Pasternack's PE44899 TNC female bulkhead connector with crimp/solder attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100 and LMR-100 is part of our full line of RF components available for same-day shipping. Our TNC female connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.25:1. This TNC bulkhead 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. The connector has an IP67 rating to protect against dust and temporary moisture protection under immersion conditions.

Our TNC female bulkhead connector PE44899 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            |         |         | 1.25:1  |       |

### Mechanical Specifications

|             |                     |
|-------------|---------------------|
| <b>Size</b> |                     |
| Length      | 1.36 in [34.54 mm]  |
| Width/Dia.  | 0.68 in [17.27 mm]  |
| Weight      | 0.047 lbs [21.32 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100, IP67 Rated PE44899](#)



TNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100, IP67 Rated

## RF Connectors Technical Data Sheet

PE44899

### Material Specifications

| Description | Material        | Plating |
|-------------|-----------------|---------|
| Contact     | Phosphor Bronze | Gold    |
| Insulation  | PTFE            |         |
| Body        | Brass           | Nickel  |

### Environmental Specifications

#### Temperature

Operating Range

-65 to +165 deg C

Ingress Protection (IP) Rating

IP67 Rated (Unmated)

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

### Plotted and Other Data

Notes:

TNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100, IP67 Rated 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 Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100, IP67 Rated PE44899](#)

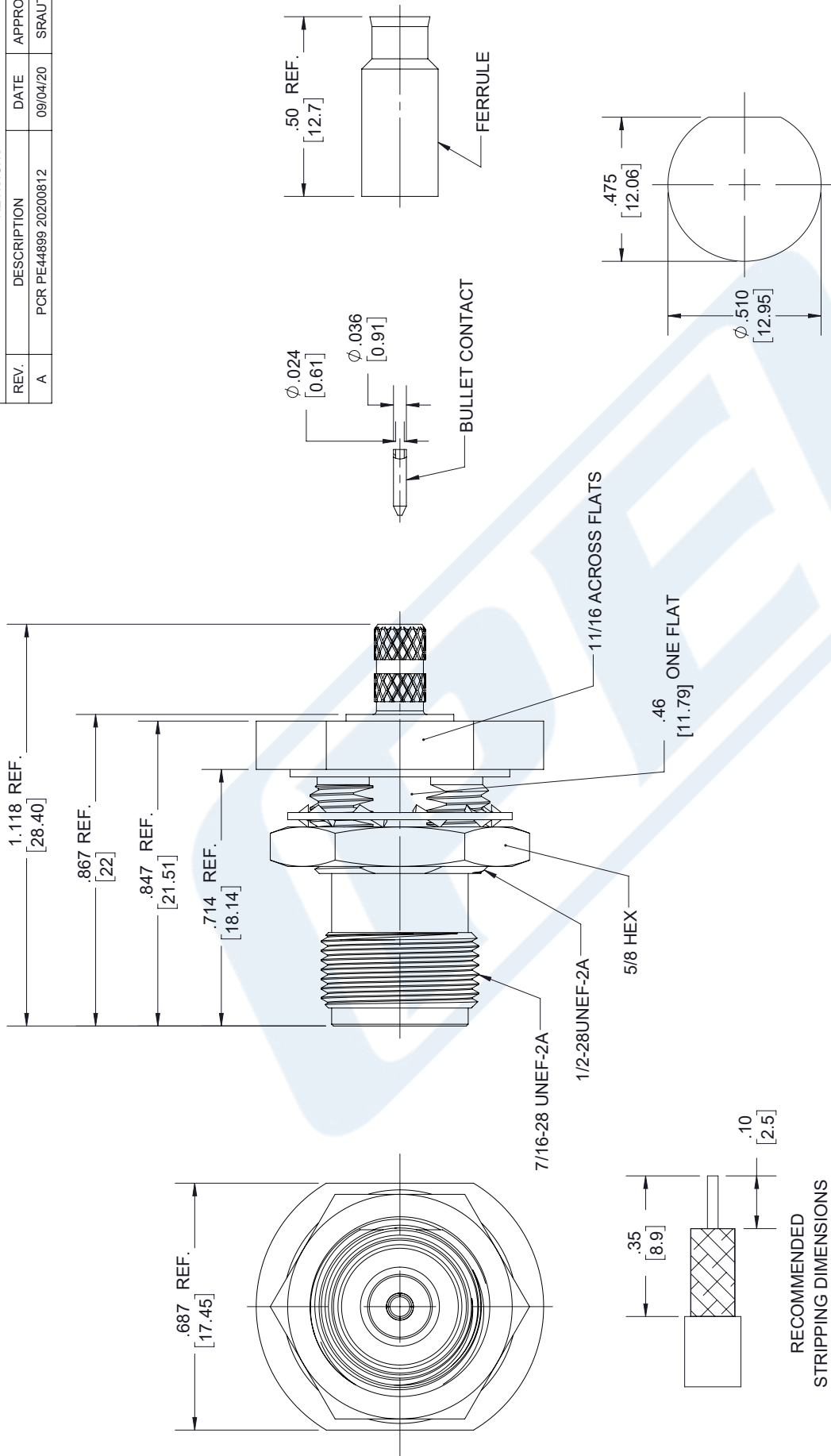
URL: <https://www.pasternack.com/tnc-female-standard-rg316-u-rg174a-u-rg188-connector-pe44899-p.aspx>

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.

# PE44899 CAD Drawing

TNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100, IP67 Rated

| REVISIONS |                      |          |          |
|-----------|----------------------|----------|----------|
| REV.      | DESCRIPTION          | DATE     | APPROVED |
| A         | PCR PE44899 20200812 | 09/04/20 | SBRAUTUS |



## RECOMMENDED STRIPPING DIMENSIONS ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN
2. SLIDE CRIMP FERRULE ONTO CABLE
3. CRIMP OR SOLDER BULLET CONTACT TO THE CENTER CONDUCTOR, INSERT CABLE WITH BULLET CONTACT INTO REAR FERRULE BODY, SLIDING FOIL INTO THE BODY AND THE BRAID OVER THE BODY
4. CRIMP FERRULE: .178" HEX CRIMP TOOL

## RECOMMENDED MOUNTING HOLE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |                            |       |           |             |       |        |               |       |             |              |           |      |                          |           |      |                            |            |      |                             |            |      |                |         |      |                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------|-------|-----------|-------------|-------|--------|---------------|-------|-------------|--------------|-----------|------|--------------------------|-----------|------|----------------------------|------------|------|-----------------------------|------------|------|----------------|---------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="0"> <tr> <td>.X = ± .2</td> <td>[.08]</td> <td>FRACTIONS</td> </tr> <tr> <td>.XX = ± .02</td> <td>[.51]</td> <td>± 1/32</td> </tr> <tr> <td>.XXX = ± .005</td> <td>[.13]</td> <td>ANGLES ± 1°</td> </tr> </table> <p>CABLE LENGTH (L) TOLERANCES:</p> <table border="0"> <tr> <td>L ≤ 12 [305]</td> <td>± .1 [25]</td> <td>/ -0</td> </tr> <tr> <td>12 [305] &lt; L ≤ 60 [1524]</td> <td>± .2 [51]</td> <td>/ -0</td> </tr> <tr> <td>60 [1524] &lt; L ≤ 120 [3048]</td> <td>± .4 [102]</td> <td>/ -0</td> </tr> <tr> <td>120 [3048] &lt; L ≤ 300 [7620]</td> <td>± .6 [152]</td> <td>/ -0</td> </tr> <tr> <td>300 [7620] &lt; L</td> <td>± .5% L</td> <td>/ -0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> |            | .X = ± .2                  | [.08] | FRACTIONS | .XX = ± .02 | [.51] | ± 1/32 | .XXX = ± .005 | [.13] | ANGLES ± 1° | 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 | <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN ARE THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> |
| .X = ± .2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | [.08]      | FRACTIONS                  |       |           |             |       |        |               |       |             |              |           |      |                          |           |      |                            |            |      |                             |            |      |                |         |      |                                                                                                                                                                     |
| .XX = ± .02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | [.51]      | ± 1/32                     |       |           |             |       |        |               |       |             |              |           |      |                          |           |      |                            |            |      |                             |            |      |                |         |      |                                                                                                                                                                     |
| .XXX = ± .005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | [.13]      | ANGLES ± 1°                |       |           |             |       |        |               |       |             |              |           |      |                          |           |      |                            |            |      |                             |            |      |                |         |      |                                                                                                                                                                     |
| 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                       |       |           |             |       |        |               |       |             |              |           |      |                          |           |      |                            |            |      |                             |            |      |                |         |      |                                                                                                                                                                     |
| <p><b>PE PASTERNAK</b> an INFINITE brand</p> <p>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</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | <p>REV A</p>               |       |           |             |       |        |               |       |             |              |           |      |                          |           |      |                            |            |      |                             |            |      |                |         |      |                                                                                                                                                                     |
| <p>SIZE A</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | <p>PART NUMBER PE44899</p> |       |           |             |       |        |               |       |             |              |           |      |                          |           |      |                            |            |      |                             |            |      |                |         |      |                                                                                                                                                                     |

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

## 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.

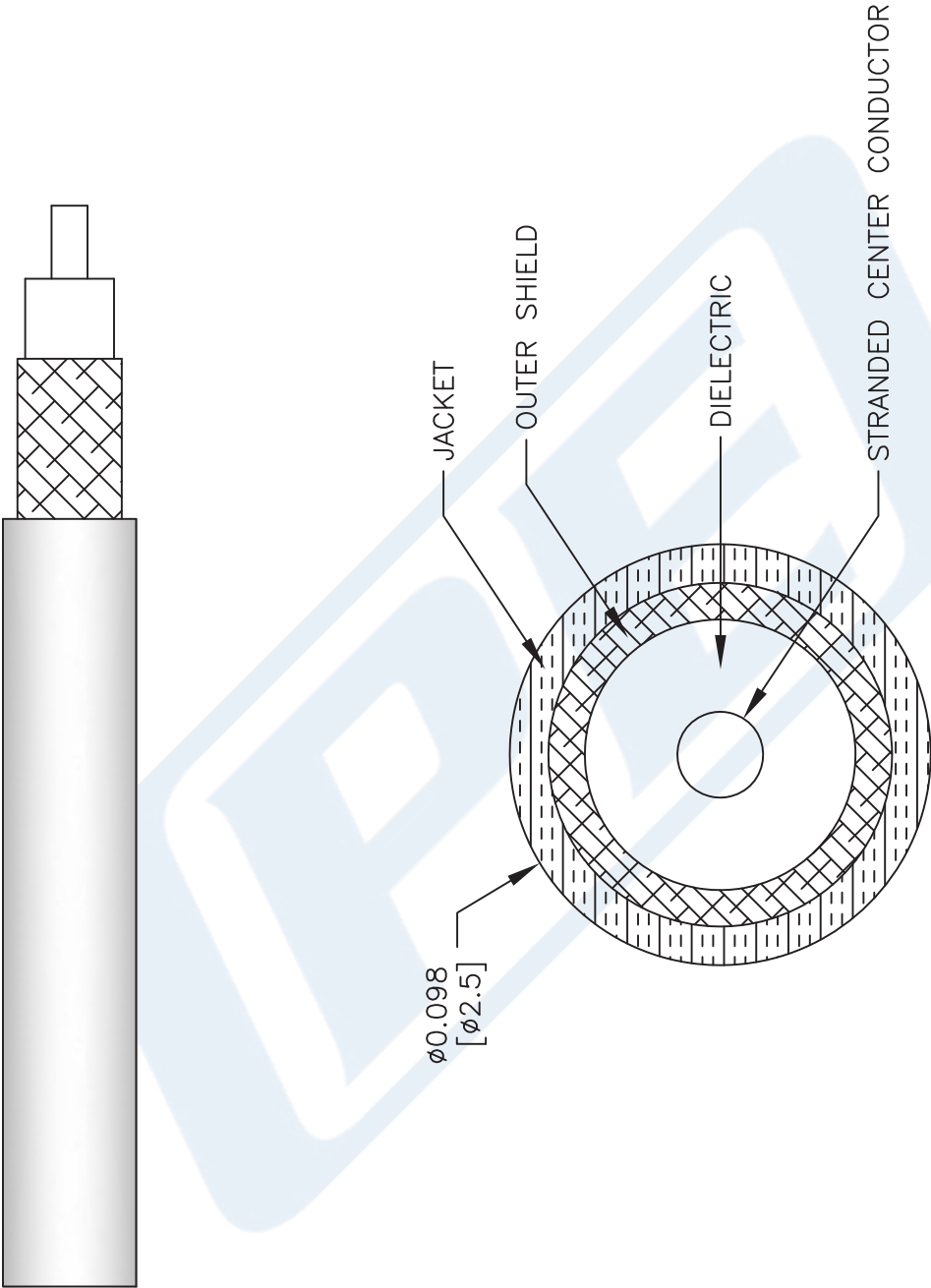
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket RG316/U](#)

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

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.

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

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

Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)