



## 75 Ohm BNC Female Connector Clamp/ Solder Attachment for RG179, RG187

### RF Connectors Technical Data Sheet

PE4615

#### Configuration

- BNC Female Connector
- 75 Ohms
- Straight Body Geometry

- RG179, RG187 Interface Type
- Clamp/Solder Attachment

#### Features

- Silver Plated Contact

- Contact plating according to ASTM-B700

#### Applications

- General Purpose Test

- Custom Cable Assemblies

- CATV

#### Description

Pasternack's PE4615 75 ohm BNC female connector with clamp/solder attachment for RG179 and RG187 is part of our full line of RF components available for same-day shipping.

Our 75 ohm BNC female connector PE4615 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

1.13 in [28.7 mm]

Width/Dia.

0.57 in [14.48 mm]

Weight

0.041 lbs [18.6 g]

#### Material Specifications

| Description | Material | Plating             |
|-------------|----------|---------------------|
| Contact     |          | Silver<br>ASTM-B700 |
| Body        | Brass    | Nickel<br>ASTM-B689 |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm BNC Female Connector Clamp/Solder Attachment for RG179, RG187 PE4615](#)



75 Ohm BNC Female Connector Clamp/  
Solder Attachment for RG179, RG187

RF Connectors Technical Data Sheet

PE4615

**Environmental Specifications**

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

**Plotted and Other Data**

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm BNC Female Connector Clamp/Solder Attachment for RG179, RG187 PE4615](#)

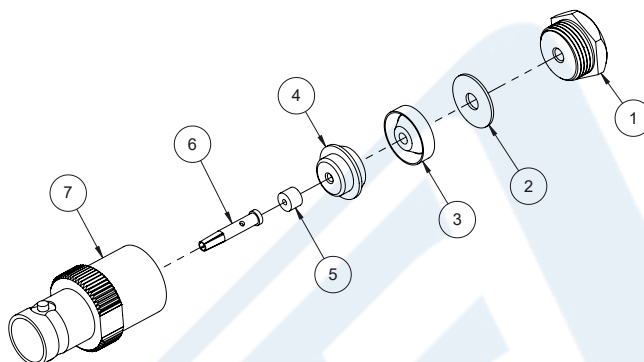


## 75 Ohm BNC Female Connector Clamp/ Solder Attachment for RG179, RG187

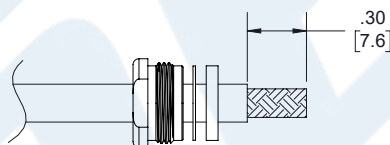
### RF Connectors Technical Data Sheet

PE4615

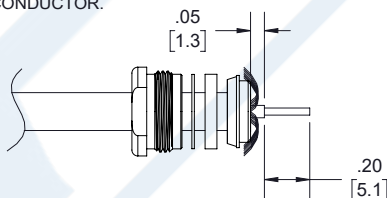
#### Assembly Instruction



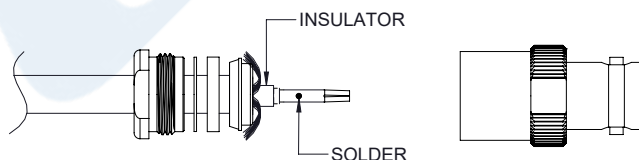
1. SLIDE CLAMP NUT ①, WASHER ② & GASKET ③ OVER CABLE. STRIP CABLE AS SHOWN. DO NOT NICK BRAID WHILE CUTTING JACKET. TAPER END OF BRAID TO PERMIT ASSEMBLY OF CLAMP.



2. SLIDE BRAID CLAMP ④ OVER BRAID & SEAT AGAINST CABLE. FORM BRAID OVER CLAMP NUT. TRIM BRAID BACK TO SHOULDER. CUT DIELECTRIC & CENTER CONDUCTOR TO DIMENSION SHOWN. DO NOT NICK CENTER CONDUCTOR.



3. SLIDE INSULATOR ⑤ AGAINST THE BRAID CLAMP. SOLDER CONTACT ⑥ TO CENTER CONDUCTOR. REMOVE EXCESS SOLDER. DO NOT OVER HEAT DIELECTRIC. INSERT CABLE ASSEMBLY INTO BODY ⑦ & TIGHTEN.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm BNC Female Connector Clamp/Solder Attachment for RG179, RG187 PE4615](#)



## 75 Ohm BNC Female Connector Clamp/ Solder Attachment for RG179, RG187

### RF Connectors Technical Data Sheet

PE4615

75 Ohm BNC Female Connector Clamp/Solder Attachment for RG179, RG187 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.

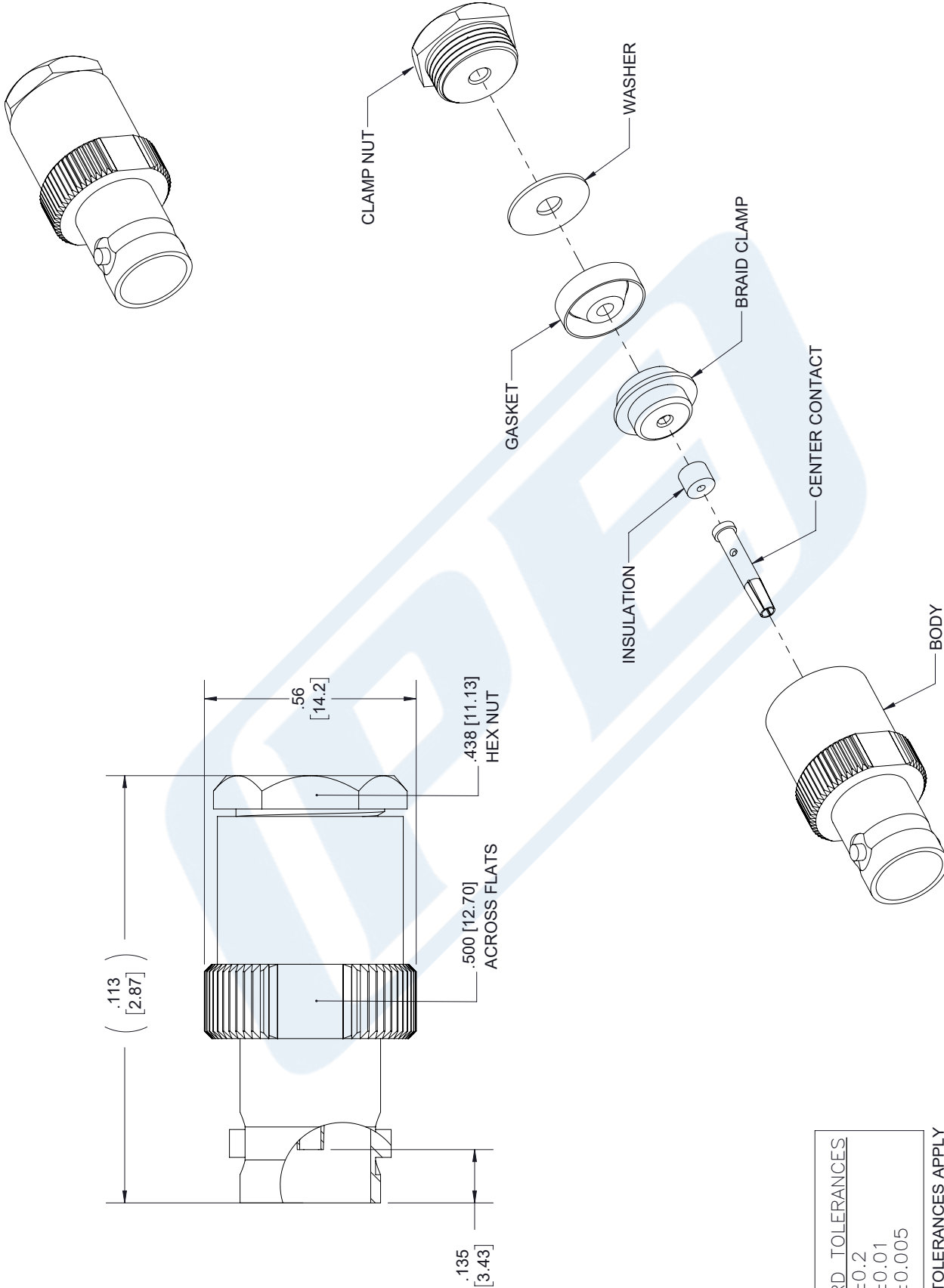
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm BNC Female Connector Clamp/Solder Attachment for RG179, RG187 PE4615](https://www.pasternack.com/bnc-female-standard-rg179-rg187-connector-pe4615-p.aspx)

URL: <https://www.pasternack.com/bnc-female-standard-rg179-rg187-connector-pe4615-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.

# PE4615 CAD Drawing

75 Ohm BNC Female Connector Clamp/Solder Attachment for RG179, RG187



## STANDARD TOLERANCES

.X ±0.2  
.XX ±0.01  
.XXX ±0.005

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE4615

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].

7361

SIZE A

SCALE N/A

CAD FILE 120617

CAGE CODE 53919



## 75 Ohm BNC Male Connector Crimp/Solder Attachment for RG179, RG187

### RF Connectors Technical Data Sheet

**PE4604**

#### Configuration

- BNC Male Connector
- 75 Ohms
- Straight Body Geometry
- RG179, RG187 Interface Type
- Crimp/Solder Attachment

#### Features

- Max. Operating Frequency 1,000 MHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 30 µin minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies
- CATV

#### Description

Pasternack's PE4604 75 ohm BNC male connector with crimp/solder attachment for RG179 and RG187 is part of our full line of RF components available for same-day shipping. Our BNC male connector operates up to a maximum frequency of 1,000 MHz and offers good VSWR of 1.3:1.

Our 75 ohm BNC male connector PE4604 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      |         | 1,000   | MHz   |
| VSWR                   |         |         | 1.3:1   |       |
| Operating Voltage (AC) |         |         | 500     | Vrms  |

#### Mechanical Specifications

##### Size

|            |                     |
|------------|---------------------|
| Length     | 1.225 in [31.12 mm] |
| Width/Dia. | 0.571 in [14.50 mm] |
| Weight     | 0.027 lbs [12.25 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm BNC Male Connector Crimp/Solder Attachment for RG179, RG187 PE4604](#)



## 75 Ohm BNC Male Connector Crimp/Solder Attachment for RG179, RG187

### RF Connectors Technical Data Sheet

**PE4604**

#### 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 |
| 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:

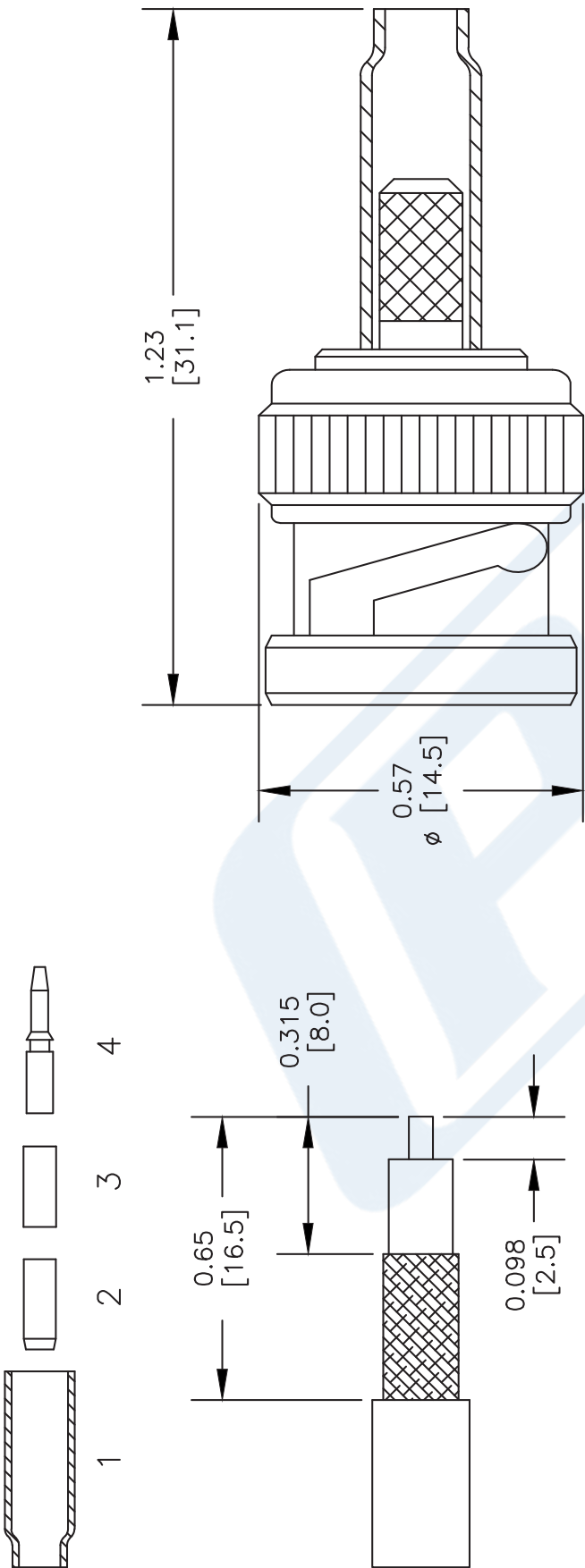
75 Ohm BNC Male Connector Crimp/Solder Attachment for RG179, RG187 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm BNC Male Connector Crimp/Solder Attachment for RG179, RG187 PE4604](#)

URL: <https://www.pasternack.com/bnc-male-standard-rg179-rg187-connector-pe4604-p.aspx>

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STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & SLIDE FERRULE (1) ONTO CABLE.
2. FLARE END OF CABLE BRAID & SLIDE METAL SPACER (2) & PTFE (3) SPACER OVER CABLE DIELECTRIC.
3. THE CONTACT (4) SHOULD BUTT AGAINST THE DIELECTRIC & PTFE SPACER. CRIMP CONTACT TO CABLE CENTER CONDUCTOR.
4. INSTALL CABLE ASSEMBLY INTO BODY SO THAT THE INNER FERRULE PORTION OF BODY SLIDES UNDER BRAID. PUSH CABLE ASSEMBLY FORWARD UNTIL CONTACT SNAPS INTO PLACE. SLIDE FERRULE OVER BRAID AND UP AGAINST CONNECTOR BODY & CRIMP.

CRIMP SIZE REQUIRED

CONTACT: .068" HEX CRIMP TOOL  
FERRULE: .178" HEX CRIMP TOOL



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DWG TITLE

PE4604

FSCM NO. 53919

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.

CAD FILE 052402

SCALE N/A

SIZE A

2233



## 75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket

### RF Cables Technical Data Sheet

RG187A/U

#### Configuration

- Flexible Cable
- 1 Shield(s)

#### Electrical Specifications

| Description                          | Minimum | Typical      | Maximum | Units        |
|--------------------------------------|---------|--------------|---------|--------------|
| Frequency Range                      | DC      |              | 3       | GHz          |
| Impedance                            |         | 75 ±7        |         | Ohms         |
| Velocity of Propagation              |         | 70           |         | %            |
| Operating Voltage (AC)               |         |              | 2,000   | Vrms         |
| Dielectric Withstanding Voltage (AC) |         |              | 2,000   | Vrms         |
| Inner Conductor DC Resistance        |         |              | 245     | Ohms/1000ft  |
| Nominal Capacitance                  |         | 19.5 [63.98] |         | pF/ft [pF/m] |

#### Performance by Frequency Band

| Description           | F1   | F2 | F3 | F4 | F5 | Units    |
|-----------------------|------|----|----|----|----|----------|
| Frequency             | 400  |    |    |    |    | MHz      |
| Attenuation, Typ      | 21   |    |    |    |    | dB/100ft |
|                       | 68.9 |    |    |    |    | dB/100m  |
| Input Power (CW), Max | 1.4  |    |    |    |    | kWatts   |

#### Mechanical Specifications

|          |                         |
|----------|-------------------------|
| Diameter | 0.102 in [2.59 mm]      |
| Weight   | 0.02 lbs/ft [0.03 Kg/m] |

#### Construction Specifications

| Description     | Material and Plating                 | Diameter          |
|-----------------|--------------------------------------|-------------------|
| Inner Conductor | Copper Clad Steel, Silver, 7 Strands | 0.012 in [0.3 mm] |
| Conductor Type  | Stranded                             |                   |
| Dielectric      | PTFE                                 | 0.063 in [1.6 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket RG187A/U](#)

## 75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket

### RF Cables Technical Data Sheet

RG187A/U

|              |                            |                    |
|--------------|----------------------------|--------------------|
| First Shield | Silver Plated Copper Braid | 0.081 in [2.06 mm] |
| Jacket       | PTFE, White                | 0.102 in [2.59 mm] |

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE 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.

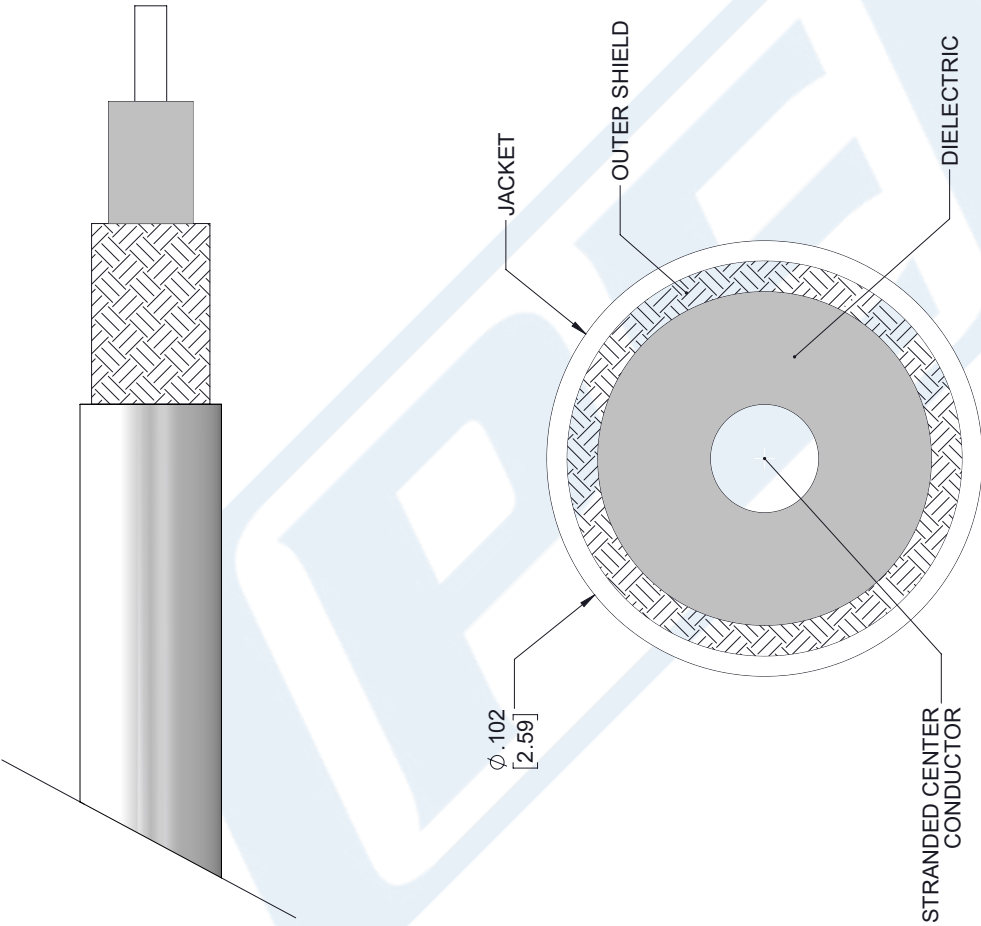
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket RG187A/U](#)

URL: <https://www.pasternack.com/flexible-0.110-rg187-75-ohm-coax-cable-ptfe-jacket-rg187a-u-p.aspx>

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RG187A/U CAD Drawing

75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket



SECTION VIEW

STANDARD TOLERANCES

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

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

RG187A/U

CAGE CODE 53919

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CAD FILE 05/11/18

SCALE N/A

SIZE A

7361