



## 10KV Male Connector Crimp/Solder Attachment for RG58

### RF Connectors Technical Data Sheet

**PE45836**

#### Configuration

- 10KV Male Connector
- MIL-STD-202
- Straight Body Geometry
- Connector Interface Types: RG58

#### Features

- Gold over nickel over copper Plated Beryllium Copper Contact
- High Density PE Insulator

#### Applications

- General Purpose Test
- Custom Cable Assemblies
- High Voltage Pulsed RF Transmission

#### Description

Pasternack's PE45836 10kV high voltage coaxial connector is part of our series of High Voltage coaxial interconnects. This high voltage connector minimizes the risk of electric shock due to its recessed contact design. Both cable connectors and bulkhead receptacles have recessed contacts to withstand unmated high voltage ratings. Additionally, the front mount receptacles in this family of connectors are hermetically sealed. Our 10 kV connectors operate up to maximum frequency of 300 MHz and offers good insulation resistance of 1000MOhm. These connectors allow designers to create external connections on product enclosures in a variety of high voltage transmission applications.

Our 10kV coaxial connector PE45836 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 |
|-------------------------------|---------|---------|---------|-------|
| Operating Voltage (DC)        |         |         | 10,000  | Vdc   |
| Test Voltage (DC)             |         |         | 15,000  | Vdc   |
| Inner Conductor DC Resistance |         |         | 3       | mOhms |
| Outer Conductor DC Resistance |         |         | 2       | mOhms |
| Insulation Resistance         | 1,000   |         |         | MOhms |

#### Mechanical Specifications

##### Size

|            |                    |
|------------|--------------------|
| Length     | 2.5 in [63.5 mm]   |
| Width/Dia. | 0.57 in [14.48 mm] |
| Height     | 0.57 in [14.48 mm] |
| Weight     | 0.016 lbs [7.26 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10KV Male Connector Crimp/Solder Attachment for RG58 PE45836](#)



## 10KV Male Connector Crimp/Solder Attachment for RG58

### RF Connectors Technical Data Sheet

**PE45836**

#### Material Specifications

| Description    | Material         | Plating                      |
|----------------|------------------|------------------------------|
| Contact        | Beryllium Copper | Gold over nickel over copper |
| Contact Spring |                  | Tinned Copper                |
| Insulation     | PE (HD)          |                              |
| Body           | Brass            | Nickel Over Copper           |
| Coupling Nut   | Brass            | Nickel Over Copper           |
| Gasket         | Silicone         |                              |
| Crimp Sleeve   | Copper           | Nickel over Copper           |
| Washer         | Brass            | Tinned Copper                |

#### Environmental Specifications

##### Temperature

Operating Range

-55 to +85 deg C

Salt Spray

MIL-STD-202, Method 101, Condition B

**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: [10KV Male Connector Crimp/Solder Attachment for RG58 PE45836](#)



## 10KV Male Connector Crimp/Solder Attachment for RG58

### RF Connectors Technical Data Sheet

**PE45836**

#### Assembly Instruction

| A       | B                | C                                                                                                                                                                                                     | D      | E       |
|---------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|
|         |                  |                                                                                                                                                                                                       |        |         |
| BODY    | INTERFACE GASKET | CONTACT PIN                                                                                                                                                                                           | GASKET | FERRULE |
| DIAGRAM |                  | ASSEMBLY INSTRUCTION                                                                                                                                                                                  |        |         |
|         |                  | Step 1: STRIP AS SHOWN.                                                                                                                                                                               |        |         |
|         |                  | Step 2: SLIDE FERRULE "E" OVER CABLE.<br>Step 3: PUT GASKET "D" AND PIN "C" ON CENTER CONDUCTOR AND SOLDER IN "Y".<br><br>※ GASKET MUST BE UNDER COMPRESSION AFTER SOLDERING IS COMPLETED.            |        |         |
|         |                  | Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR "A" IN PLACE.                                                                                                                                             |        |         |
|         |                  | STEP 5: SLIDE FERRULE "E" TOWARDS THE CONNECTOR "A" AND CRIMP. (USE 5.5MM/0.217INCH HEX SECTION OF INSERT-B)<br>STEP 6: USE LOCATOR TOOL "ST-10KVM" TO INSTALL INTERFACE GASKET "B" OVER CONTACT PIN. |        |         |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10KV Male Connector Crimp/Solder Attachment for RG58 PE45836](#)



## 10KV Male Connector Crimp/Solder Attachment for RG58

### RF Connectors Technical Data Sheet

**PE45836**

10KV Male Connector Crimp/Solder Attachment for RG58 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: [10KV Male Connector Crimp/Solder Attachment for RG58 PE45836](https://www.pasternack.com/10KV-male-rg58-connector-pe45836-p.aspx)

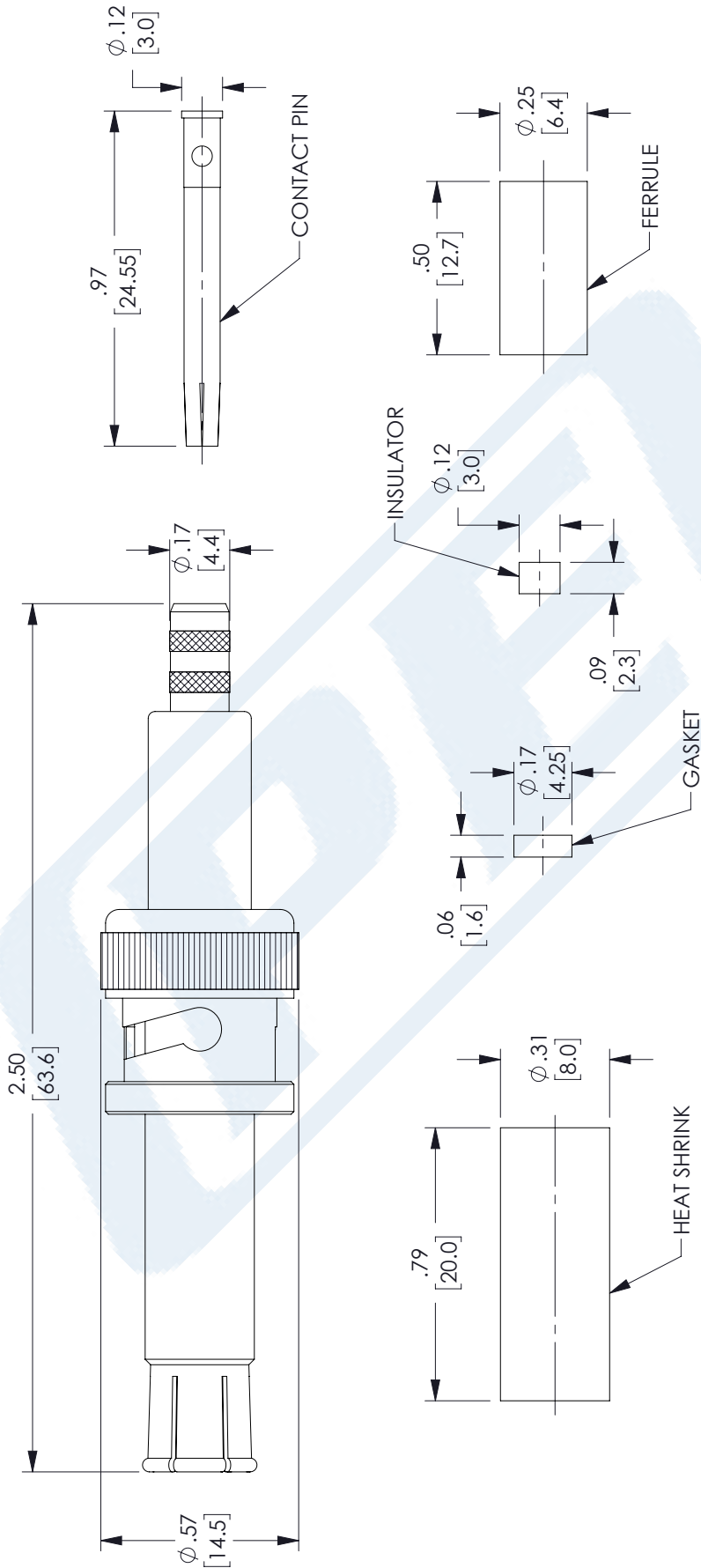
URL: <https://www.pasternack.com/10KV-male-rg58-connector-pe45836-p.aspx>

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# PE45836 CAD Drawing

10KV Male Connector Crimp/Solder Attachment for RG58

| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 09/15/2022 | VJWATODE |



THIRD-ANGLE PROJECTION

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

TOLERANCES:

|               |       |             |
|---------------|-------|-------------|
| .X = ± .2     | [.08] | FRACTIONS   |
| .XX = ± .02   | [.51] | ± 1/32      |
| .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     |

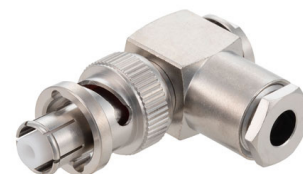
ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

SHEET 1 OF 1

SCALE N/A

REV A

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SHV plug clamp right angle for  
RG58, RG142, RG400, JBY195, LMR195

## RF Connectors Technical Data Sheet

**PE45849**

### Configuration

- SHV Plug Connector
- MIL-STD-348B
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: RG58, RG142, RG400
- 7/16 Inch Hex

### Features

- Max. Operating Frequency 300 MHz
- Gold over Nickel over copper Plated Brass Contact

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE45849 SHV plug right angle connector with clamp/solder attachment for RG58, RG142 and RG400 is part of our full line of RF components available for same-day shipping. Our SHV plug connector operates up to a maximum frequency of 300 MHz. Its right angle body geometry allows for easier connections in tight spaces.

Our SHV plug right angle connector PE45849 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

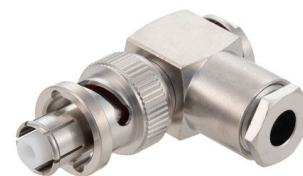
| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 300     | MHz   |
| Operating Voltage (AC)               |         |         | 3,500   | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 5,000   | Vrms  |
| Inner Conductor DC Resistance        |         |         | 2       | mOhms |
| Outer Conductor DC Resistance        |         |         | 1.5     | mOhms |
| Insulation Resistance                | 5,000   |         |         | MOhms |

### Mechanical Specifications

#### Size

|            |                     |
|------------|---------------------|
| Length     | 0.92 in [23.37 mm]  |
| Width/Dia. | 0.57 in [14.48 mm]  |
| Height     | 1.48 in [37.59 mm]  |
| Weight     | 0.062 lbs [28.12 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SHV plug clamp right angle for RG58, RG142, RG400, JBY195, LMR195 PE45849](#)



SHV plug clamp right angle for  
RG58, RG142, RG400, JBY195, LMR195

## RF Connectors Technical Data Sheet

**PE45849**

### Material Specifications

| Description    | Material | Plating                            |
|----------------|----------|------------------------------------|
| Contact        | Brass    | Gold over Nickel over copper       |
| Contact Spring |          | Tinned Copper                      |
| Insulation     | Teflon   |                                    |
| Body           | Brass    | Tinned Copper                      |
| Coupling Nut   | Brass    | Tinned Copper                      |
| Gasket         | Silicon  |                                    |
| Crimp Sleeve   | Brass    | Tinned Copper                      |
| Washer         | Brass    | Tinned Copper<br>BNC3200B-0058-9/W |

### Environmental Specifications

#### Temperature

Operating Range

Thermal Shock

-65 to +165 deg C

MIL-STD-202, Method 107, Condition B

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

### Plotted and Other Data

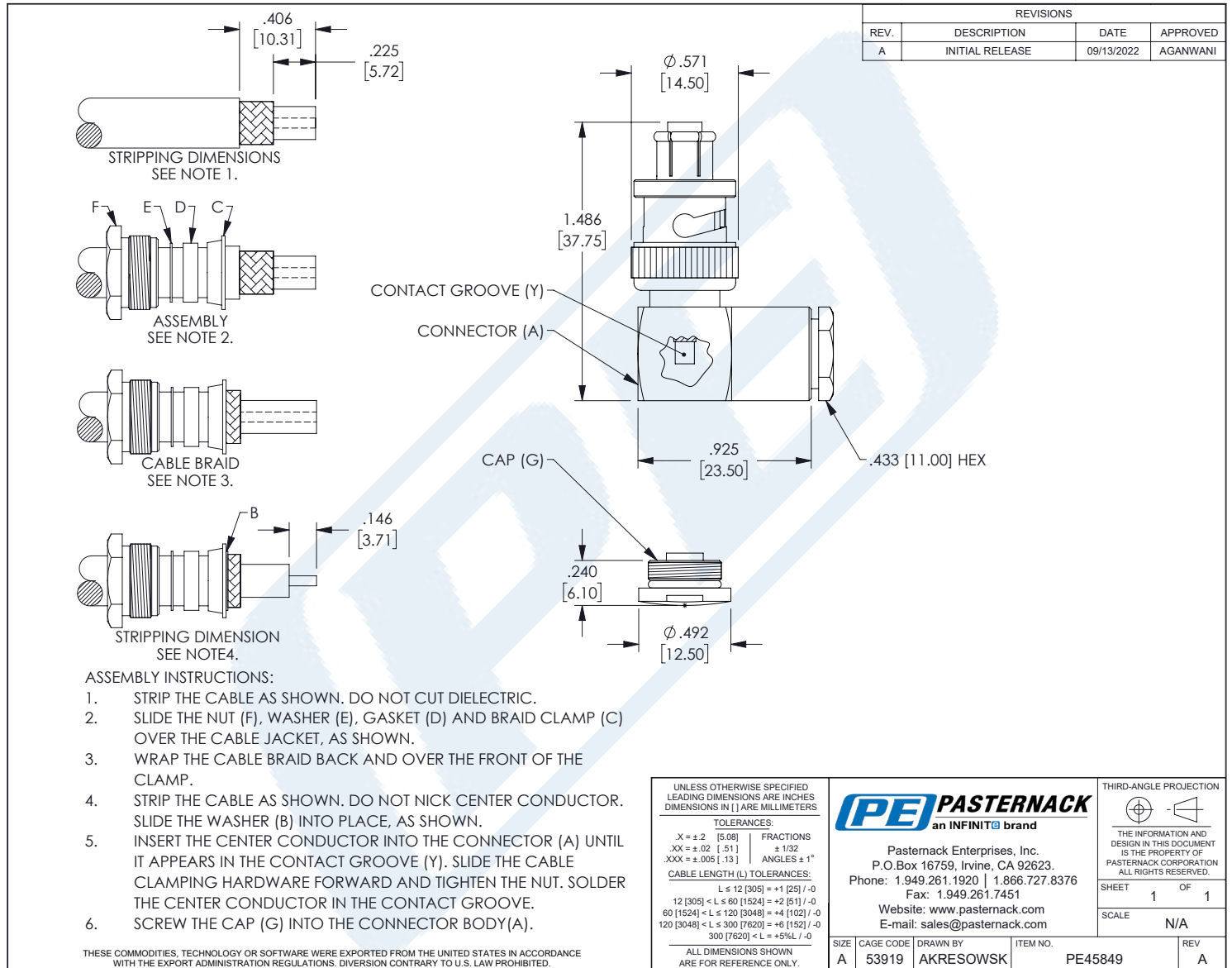
Notes:

SHV plug clamp right angle for RG58, RG142, RG400, JBY195, LMR195 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.

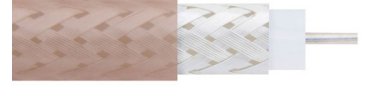
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SHV plug clamp right angle for RG58, RG142, RG400, JBY195, LMR195 PE45849](#)

URL: <https://www.pasternack.com/shv-plug-rg58-rg142-rg400-connector-pe45849-p.aspx>

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T-Rev.D



## Flexible RG303 Coax Cable Single Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

**RG303/U**

#### Configuration

- Flexible Cable
- 1 Shield(s)

#### Electrical Specifications

| Description                          | Minimum | Typical     | Maximum | Units        |
|--------------------------------------|---------|-------------|---------|--------------|
| Frequency Range                      | DC      |             | 3       | GHz          |
| Impedance                            |         | 50          |         | Ohms         |
| Velocity of Propagation              |         | 69          |         | %            |
| Dielectric Withstanding Voltage (AC) |         |             | 5,000   | Vrms         |
| Nominal Capacitance                  |         | 32 [104.99] |         | pF/ft [pF/m] |
| Power@ 1GHz                          |         |             | 650     | Watts        |

#### Performance by Frequency Band

| Description      | F1    | F2 | F3 | F4 | F5 | Units    |
|------------------|-------|----|----|----|----|----------|
| Frequency        | 400   |    |    |    |    | MHz      |
| Attenuation, Typ | 8.6   |    |    |    |    | dB/100ft |
|                  | 28.22 |    |    |    |    | dB/100m  |

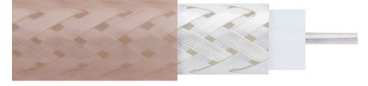
#### Mechanical Specifications

|          |                          |
|----------|--------------------------|
| Diameter | 0.17 in [4.32 mm]        |
| Weight   | 0.027 lbs/ft [0.04 kg/m] |

#### Construction Specifications

| Description     | Material and Plating                | Diameter           |
|-----------------|-------------------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, Silver, 1 Strand | 0.037 in [0.94 mm] |
| Conductor Type  | Solid                               |                    |
| Dielectric      | PTFE                                | 0.116 in [2.95 mm] |
| First Shield    | Silver Plated Copper Braid          | 0.146 in [3.71 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG303 Coax Cable Single Shielded with Tan FEP Jacket RG303/U](#)



## Flexible RG303 Coax Cable Single Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

**RG303/U**

|        |          |                   |
|--------|----------|-------------------|
| Jacket | FEP, Tan | 0.17 in [4.32 mm] |
|--------|----------|-------------------|

#### Environmental Specifications

##### Temperature

Operating Range -55 to +200 deg C

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

#### Plotted and Other Data

Notes:

Flexible RG303 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.

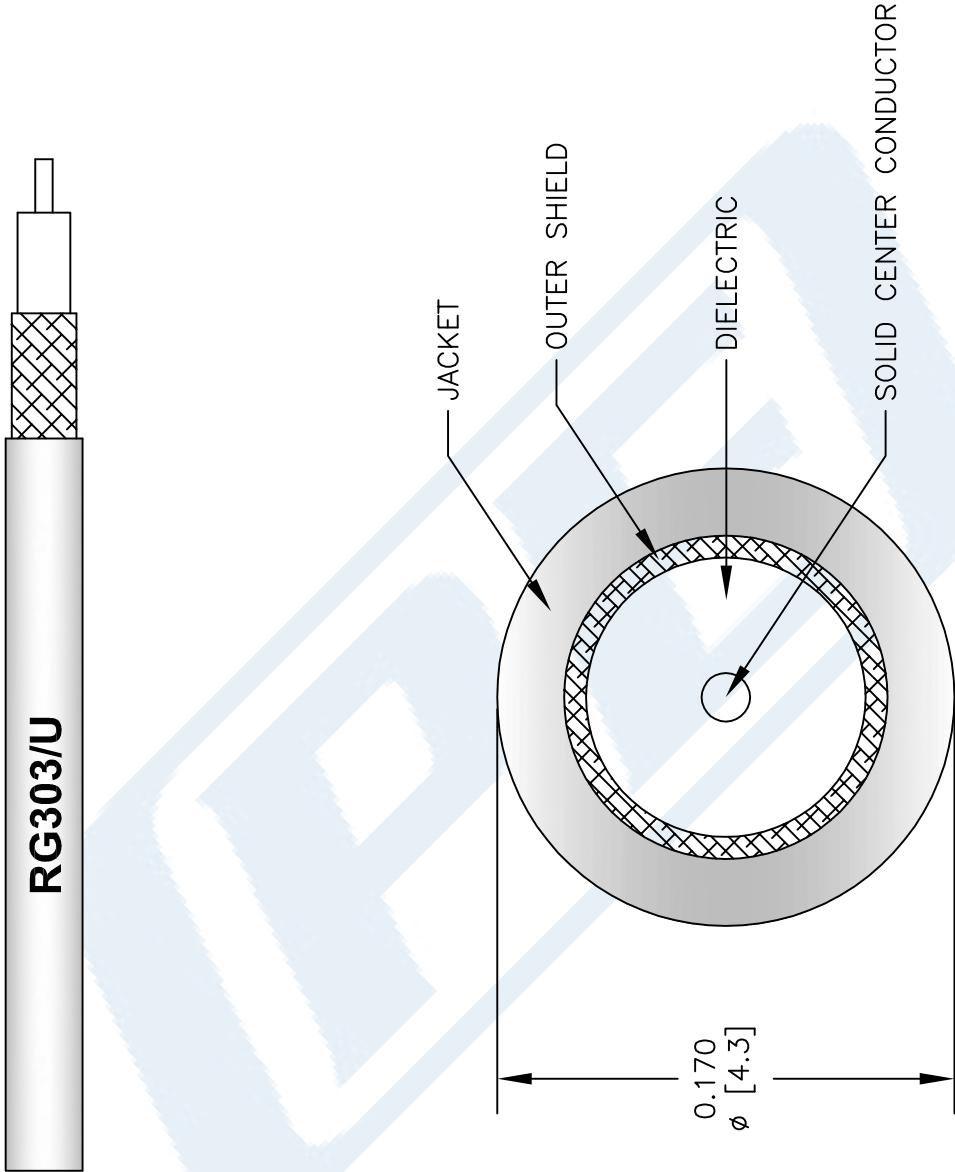
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG303 Coax Cable Single Shielded with Tan FEP Jacket RG303/U](#)

URL: <https://www.pasternack.com/flexible-0.170-rg303-50-ohm-coax-cable-fep-jacket-rg303-u-p.aspx>

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RG303/U CAD Drawing

Flexible RG303 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  
**RG303/U**

147

SIZE A

SCALE N/A

CAD FILE 022908-A

REV. A FSCM NO. 53919



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