



## 75 Ohm SMB Jack Connector Crimp/Solder Attachment for PE-B150, RG180, RG195

### RF Connectors Technical Data Sheet

**PE4163**

#### Configuration

- SMB Jack Connector
- MIL-STD-348
- 75 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-B150, RG180, RG195

#### Features

- Max. Operating Frequency 4 GHz
- Gold Plated Contact
- Contact plating according to MIL-G-45204

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4163 75 ohm SMB jack connector with crimp/solder attachment for PE-B150, RG180 and RG195 is part of our full line of RF components available for same-day shipping. Our SMB jack connector operates up to a maximum frequency of 4 GHz.

Our 75 ohm SMB jack connector PE4163 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      |         | 4       | GHz   |
| Operating Voltage (AC)               |         |         | 375     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 1,000   | Vrms  |
| Insulation Resistance                | 1,000   |         |         | MOhms |

#### Mechanical Specifications

|               |                    |
|---------------|--------------------|
| <b>Size</b>   |                    |
| Length        | 1.02 in [25.91 mm] |
| Width/Dia.    | 0.345 in [8.76 mm] |
| Weight        | 0.012 lbs [5.44 g] |
| Mating Cycles | 500 Cycles         |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm SMB Jack Connector Crimp/Solder Attachment for PE-B150, RG180, RG195 PE4163](#)



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Attachment for PE-B150, RG180, RG195

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

**PE4163**

**Material Specifications**

| Description  | Material | Plating |
|--------------|----------|---------|
| Contact      | Brass    | Gold    |
| Insulation   | PTFE     |         |
| Body         | Brass    | Nickel  |
| Crimp Sleeve | Brass    | Brass   |

**Environmental Specifications**

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

**Plotted and Other Data**

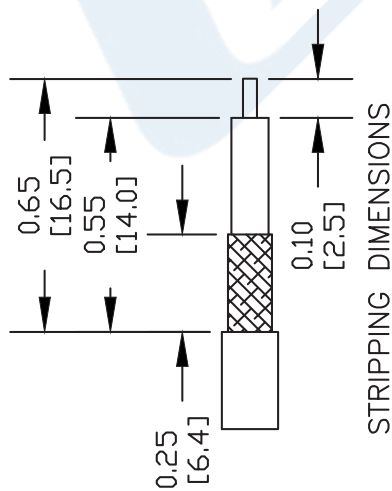
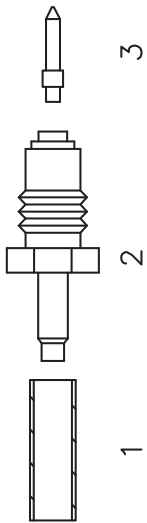
Notes:

75 Ohm SMB Jack Connector Crimp/Solder Attachment for PE-B150, RG180, RG195 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.

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URL: <https://www.pasternack.com/smb-jack-standard-rg180-rg195-connector-pe4163-p.aspx>

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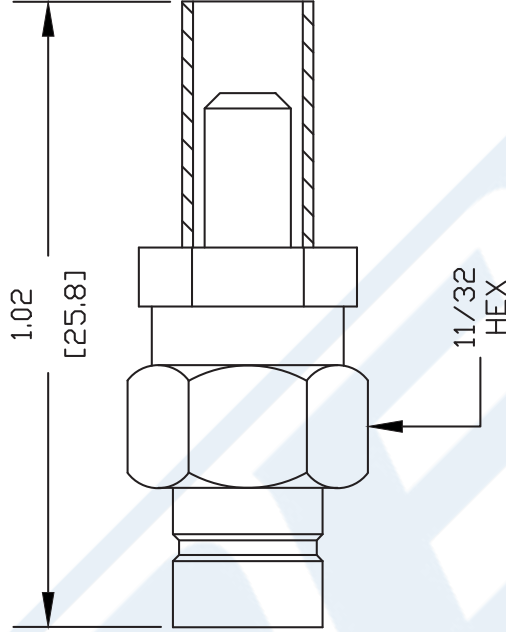


## ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & SLIDE FERRULE (1) ONTO CABLE. TIN CENTER CONDUCTOR.
2. ADD CRIMP NUT (2) SLIDING EXTENSION BETWEEN BRAID & DIELECTRIC. SLIDE FERRULE (1) OVER BRAID & AGAINST CRIMP NUT (2).
3. SOLDER CONTACT (3) TO CENTER CONDUCTOR.
4. THREAD CRIMP NUT (2) INTO BODY & TIGHTEN. CRIMP FERRULE (1).

## CRIMP SIZE REQUIRED

CONTACT: SOLDER  
FERRULE: .178" HEX CRIMP TOOL



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

**PE4163**

NOTES:  
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4. FITS MIL-C-17 AND EQUIVALENT CABLES.

REV. -

FSCM NO. 53919

CAD FILE 042309

SCALE N/A

SIZE A

147



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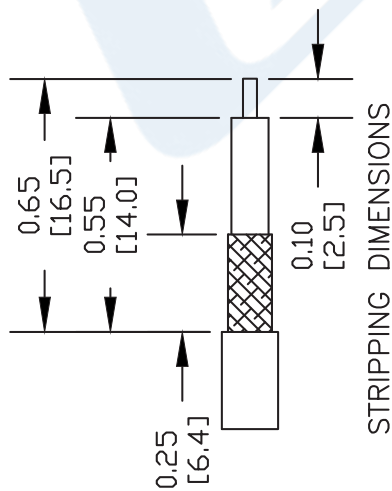
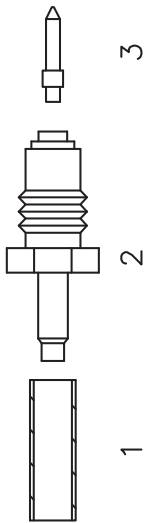
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URL: <https://www.pasternack.com/smb-jack-standard-rg180-rg195-connector-pe4163-p.aspx>

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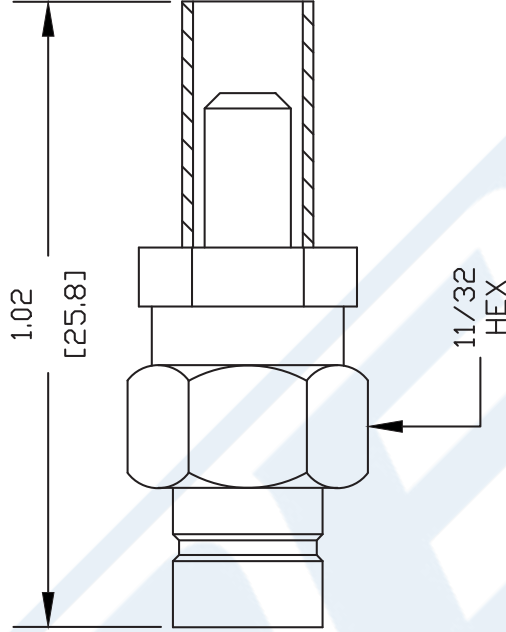


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DWG TITLE

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REV. -

FSCM NO. 53919

CAD FILE 042309

SCALE N/A

SIZE A

147

95 Ohm Flexible RG180 Coax Cable Single  
Shielded with Tan FEP Jacket

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

**RG180B/U**

**Configuration**

- Flexible Cable
- 1 Shield(s)

**Electrical Specifications**

| Description                          | Minimum | Typical      | Maximum | Units        |
|--------------------------------------|---------|--------------|---------|--------------|
| Frequency Range                      | DC      |              | 3       | GHz          |
| Impedance                            |         | 95           |         | Ohms         |
| Velocity of Propagation              |         | 70           |         | %            |
| Dielectric Withstanding Voltage (AC) |         |              | 2,000   | Vrms         |
| Jacket Spark                         |         |              | 2,000   | Vrms         |
| Nominal Capacitance                  |         | 17.4 [57.09] |         | pF/ft [pF/m] |

**Performance by Frequency Band**

| Description      | F1    | F2 | F3 | F4 | F5 | Units    |
|------------------|-------|----|----|----|----|----------|
| Frequency        | 400   |    |    |    |    | MHz      |
| Attenuation, Typ | 17    |    |    |    |    | dB/100ft |
|                  | 55.77 |    |    |    |    | dB/100m  |

**Mechanical Specifications**

|          |                           |
|----------|---------------------------|
| Diameter | 0.141 in [3.58 mm]        |
| Weight   | 0.0175 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                                       | 0.102 in [2.59 mm] |
| First Shield    | Silver Plated Copper Braid<br>91% coverage | 0.12 in [3.05 mm]  |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [95 Ohm Flexible RG180 Coax Cable Single Shielded with Tan FEP Jacket RG180B/U](#)

## 95 Ohm Flexible RG180 Coax Cable Single Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

**RG180B/U**

|        |          |                    |
|--------|----------|--------------------|
| Jacket | FEP, Tan | 0.141 in [3.58 mm] |
|--------|----------|--------------------|

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

95 Ohm Flexible RG180 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.

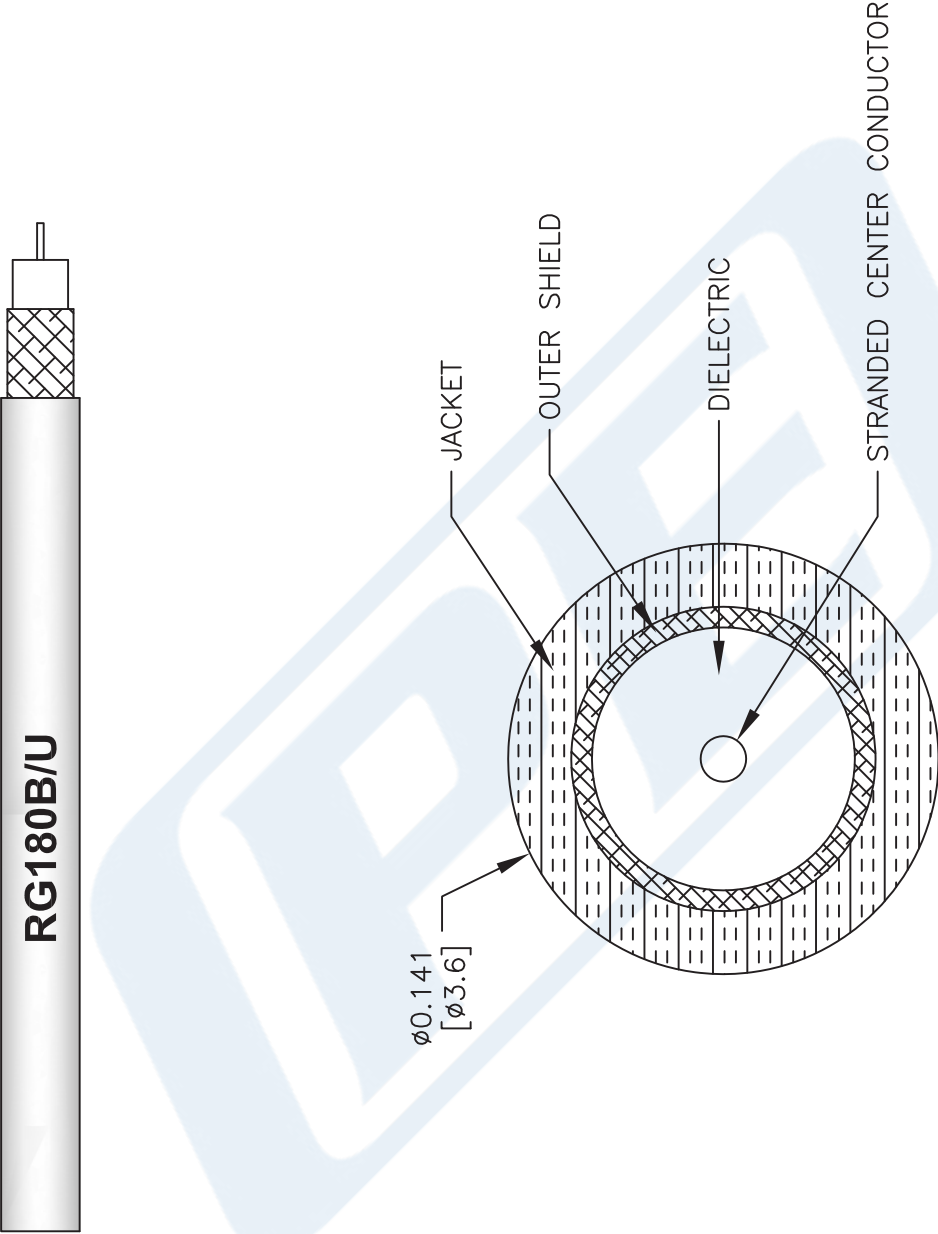
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URL: <https://www.pasternack.com/flexible-0.145-rg180-95-ohm-twinax-cable-fep-jacket-rg180b-u-p.aspx>

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RG180B/U CAD Drawing

95 Ohm Flexible RG180 Coax Cable Single Shielded with Tan FEP Jacket



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|           |  |                |  |          |        |       |     |      |   |       |
|-----------|--|----------------|--|----------|--------|-------|-----|------|---|-------|
| DWG TITLE |  | FSCM NO. 53919 |  | CAD FILE | 111716 | SCALE | N/A | SIZE | A | 41742 |
| RG180B/U  |  |                |  |          |        |       |     |      |   |       |



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