



## 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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#### 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

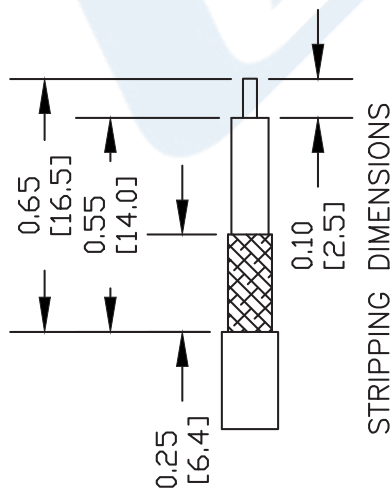
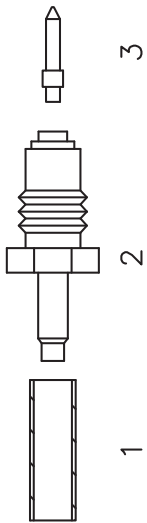
Notes:

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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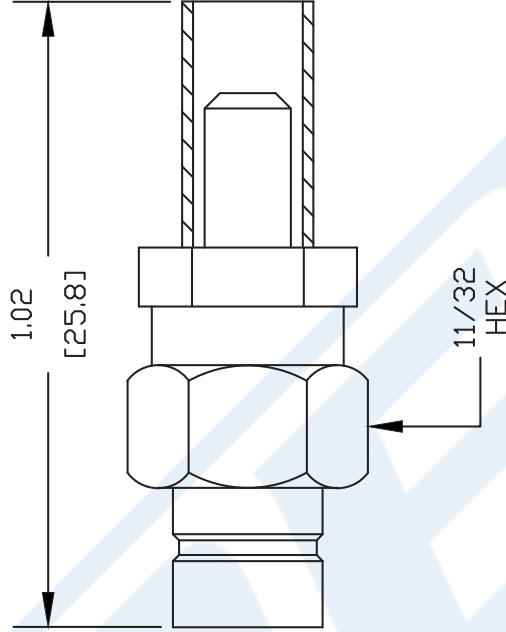


## ASSEMBLY PROCEDURES

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



DWG TITLE

**PE4163**

NOTES:

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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.

REV. -

FSCM NO. 53919

CAD FILE 042309

SCALE N/A

SIZE A

147



Pasternack Enterprises, Inc.  
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Insulation	PTFE	
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Crimp Sleeve	Brass	Brass

#### Environmental Specifications

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

#### Plotted and Other Data

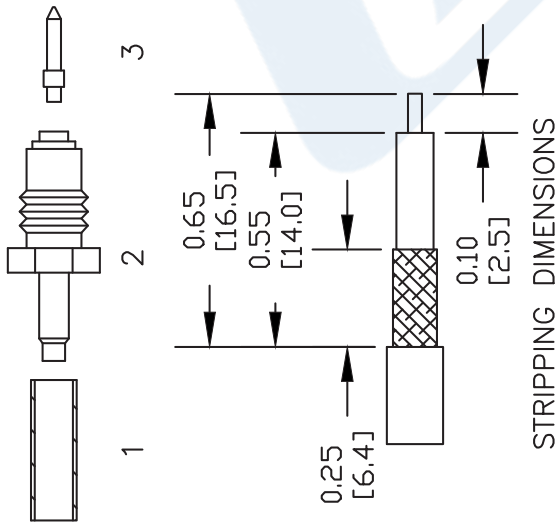
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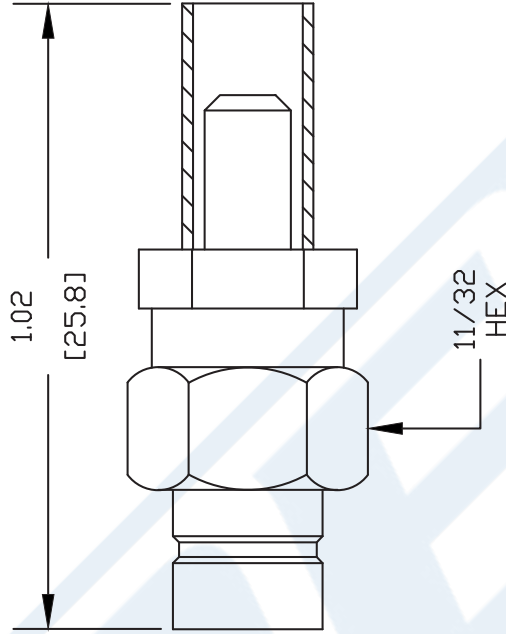


## ASSEMBLY PROCEDURES

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).
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## CRIMP SIZE REQUIRED

CONTACT: SOLDER  
FERRULE: .178" HEX CRIMP TOOL



DWG TITLE

**PE4163**

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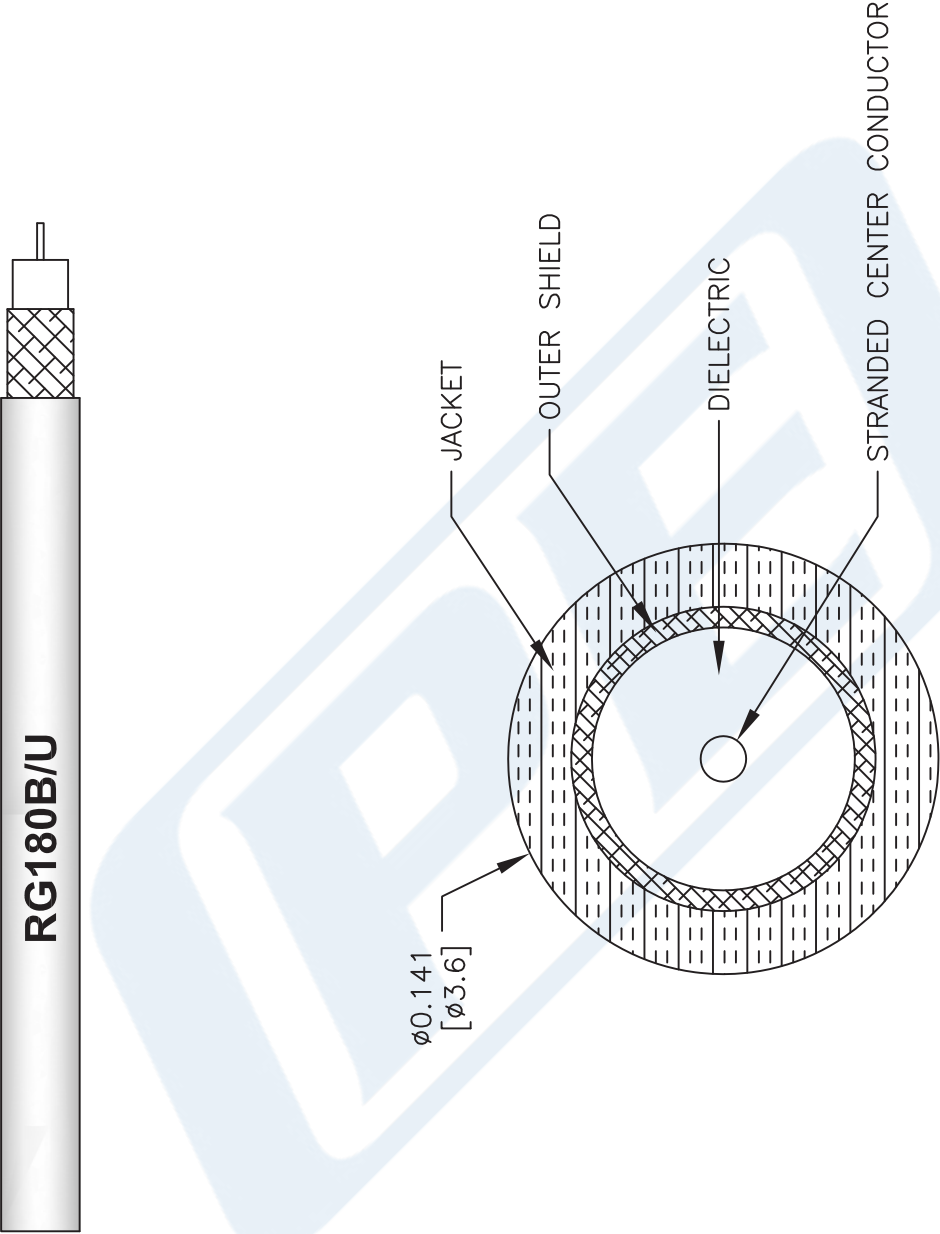
URL: <https://www.pasternack.com/flexible-0.145-rg180-95-ohm-twinax-cable-fep-jacket-rg180b-u-p.aspx>

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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	RG180B/U		
	FSCM NO.	53919	
	CAD FILE	111716	SCALE N/A
		SIZE A	41742



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

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