

## SSMB Plug Connector Crimp/Solder Attachment for RG178, RG196



### RF Connectors Technical Data Sheet

PE4019

#### Configuration

- SSMB Plug Connector
- MIL-STD-348A
- 50 Ohms

- Straight Body Geometry
- RG178, RG196 Interface Type
- Crimp/Solder Attachment

#### Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 30  $\mu$ in minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4019 SSMB plug connector with crimp/solder attachment for RG178 and RG196 is part of our full line of RF components available for same-day shipping. Our SSMB plug connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.3:1.

Our SSMB plug connector PE4019 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
VSWR			1.3:1	
Operating Voltage (AC)			250	Vrms

#### Mechanical Specifications

Size	
Length	0.745 in [18.92 mm]
Width/Dia.	0.19 in [4.83 mm]
Weight	0.01 lbs [4.54 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMB Plug Connector Crimp/Solder Attachment for RG178, RG196 PE4019](#)



## SSMB Plug Connector Crimp/Solder Attachment for RG178, RG196

### RF Connectors Technical Data Sheet

PE4019

#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 30 $\mu$ in minimum
Insulation	PTFE	
Outer Conductor	Beryllium Copper	Gold 3 $\mu$ in minimum
Body	Brass	Gold 3 $\mu$ in minimum

#### Environmental Specifications

##### Temperature

Operating Range

-65 to +165 deg C

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

#### Plotted and Other Data

Notes:

SSMB Plug Connector Crimp/Solder Attachment for RG178, RG196 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.

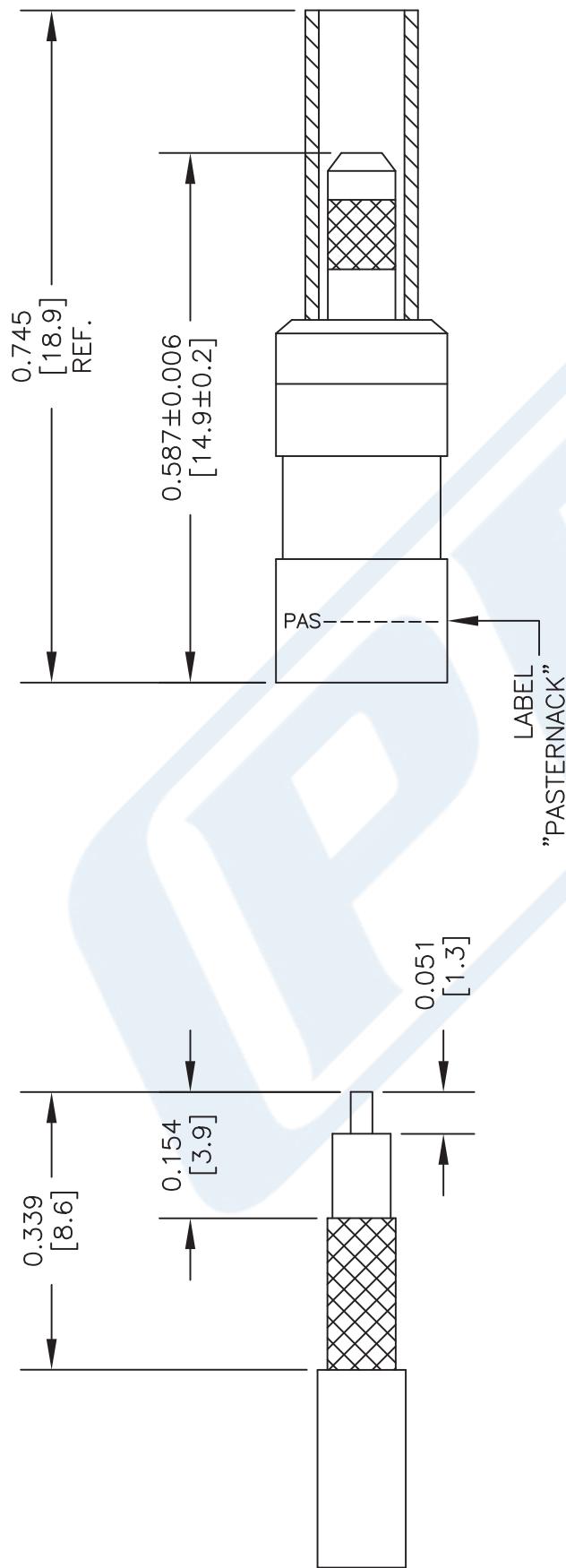
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMB Plug Connector Crimp/Solder Attachment for RG178, RG196 PE4019](#)

URL: <https://www.pasternack.com/ssmb-plug-standard-rg178-rg196-connector-pe4019-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.

# PE4019 CAD Drawing

SSMB Plug Connector Crimp/Solder Attachment for RG178, RG196



STANDARD TOLERANCES	
.	±0.2
XX	±0.1
XXX	±0.05

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES



Pasternack Enterprises, Inc.  
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DWG TITLE	PE4019
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].

SCALE N/A  
SIZE A  
3045



## SMB Plug Right Angle Connector Crimp/ Solder Attachment for RG178, RG196

### RF Connectors Technical Data Sheet

PE4159

#### Configuration

- SMB Plug Connector
- MIL-STD-348A
- 50 Ohms

- Right Angle Body Geometry
- RG178, RG196 Interface Type
- Crimp/Solder Attachment

#### Features

- Max. Operating Frequency 3 GHz
- Good VSWR of 1.5:1

- Gold Plated Beryllium Copper Contact
- 30  $\mu$ in minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4159 SMB plug right angle connector with crimp/solder attachment for RG178 and RG196 is part of our full line of RF components available for same-day shipping. Our SMB plug connector operates up to a maximum frequency of 3 GHz and offers good VSWR of 1.5:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SMB plug right angle connector PE4159 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			1.5:1	
Operating Voltage (AC)			250	Vrms

#### Mechanical Specifications

##### Size

- Length
- Width/Dia.
- Height
- Weight

- 0.53 in [13.46 mm]
- 0.256 in [6.50 mm]
- 0.62 in [15.75 mm]
- 0.006 lbs [2.72 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Plug Right Angle Connector Crimp/Solder Attachment for RG178, RG196 PE4159](#)



## SMB Plug Right Angle Connector Crimp/ Solder Attachment for RG178, RG196

### RF Connectors Technical Data Sheet

PE4159

#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 30 $\mu$ in minimum
Insulation	PTFE	
Body	Brass	Nickel 100 $\mu$ in minimum

#### Environmental Specifications

##### Temperature

Operating Range

-65 to +165 deg C

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

#### Plotted and Other Data

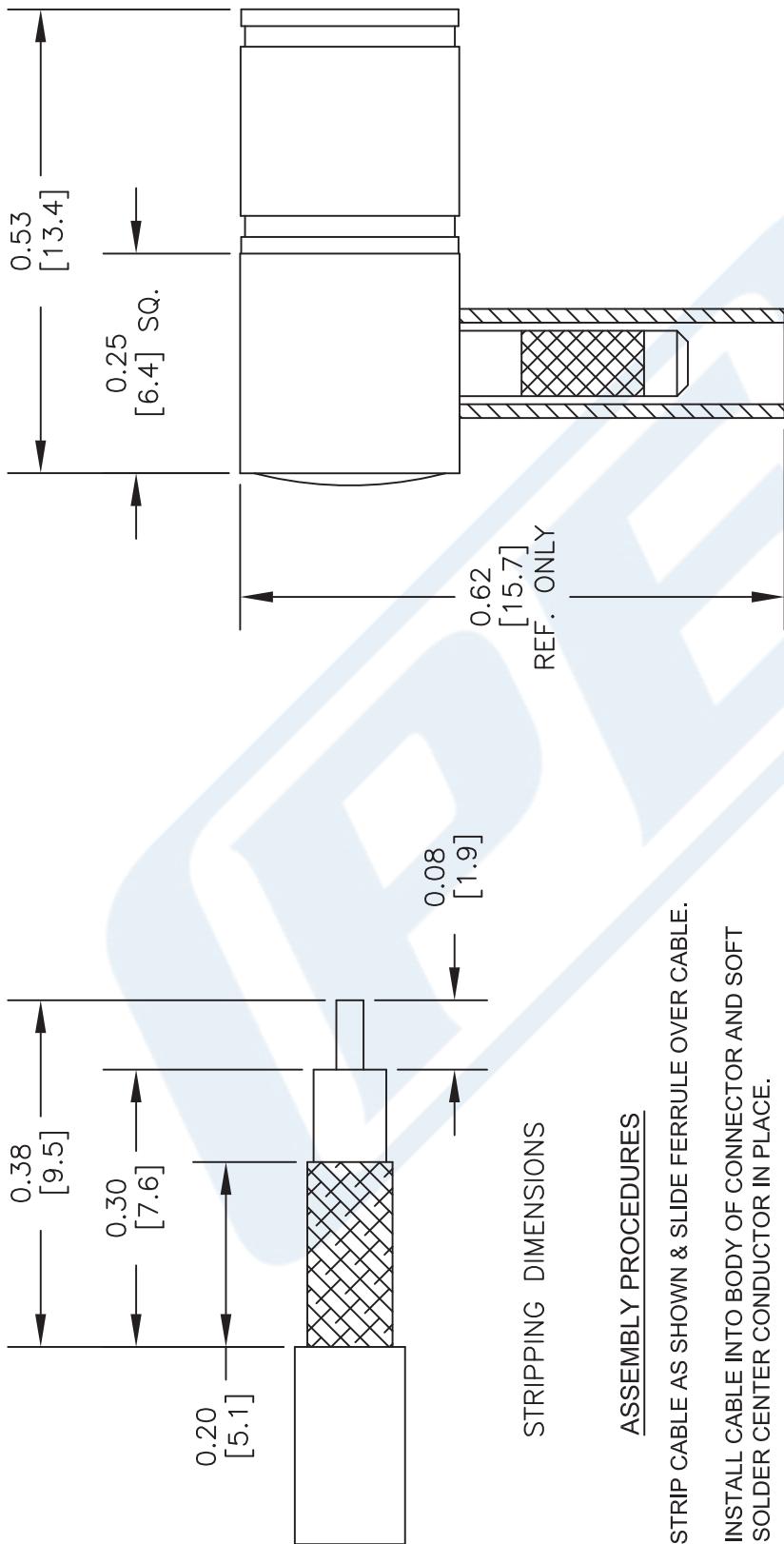
Notes:

SMB Plug Right Angle Connector Crimp/Solder Attachment for RG178, RG196 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.

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URL: <https://www.pasternack.com/smb-plug-standard-rg178-rg196-connector-pe4159-p.aspx>

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1. STRIP CABLE AS SHOWN & SLIDE FERRULE OVER CABLE.
2. INSTALL CABLE INTO BODY OF CONNECTOR AND SOFT SOLDER CENTER CONDUCTOR IN PLACE.
3. CRIMP FERRULE & PRESS CAP DOWN.

#### CRIMP SIZE REQUIRED

FERRULE: .100" HEX CRIMP TOOL



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DWG TITLE  
**PE4159**

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 3. DIMENSIONS ARE IN INCHES [mm].  
 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

REV. A	FSCM NO.	53919	CAD FILE	120111	SCALE N/A	SIZE A	2233
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## Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket

### RF Cables Technical Data Sheet

**RG196A/U**

#### Configuration

- Flexible Cable
- 1 Shield(s)

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			2,000	Vrms
Nominal Capacitance		32 [104.99]		pF/ft [pF/m]

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	400					MHz
Attenuation, Typ	33					dB/100ft
	108.27					dB/100m

#### Mechanical Specifications

Diameter	0.08 in [2.03 mm]
Weight	0.005 lbs/ft [0.01 Kg/m]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 7 Strands	0.011 in [0.28 mm]
Conductor Type	Stranded	
Dielectric	PTFE	0.035 in [0.89 mm]
First Shield	Silver Plated Copper Braid 92.3% coverage	0.054 in [1.37 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket RG196A/U](#)

## Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket

### RF Cables Technical Data Sheet

**RG196A/U**

Jacket	PTFE, White	0.08 in [2.03 mm]
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#### **Environmental Specifications**

##### **Temperature**

Operating Range

-55 to +200 deg C

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

#### **Plotted and Other Data**

Notes:

Flexible RG196 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.

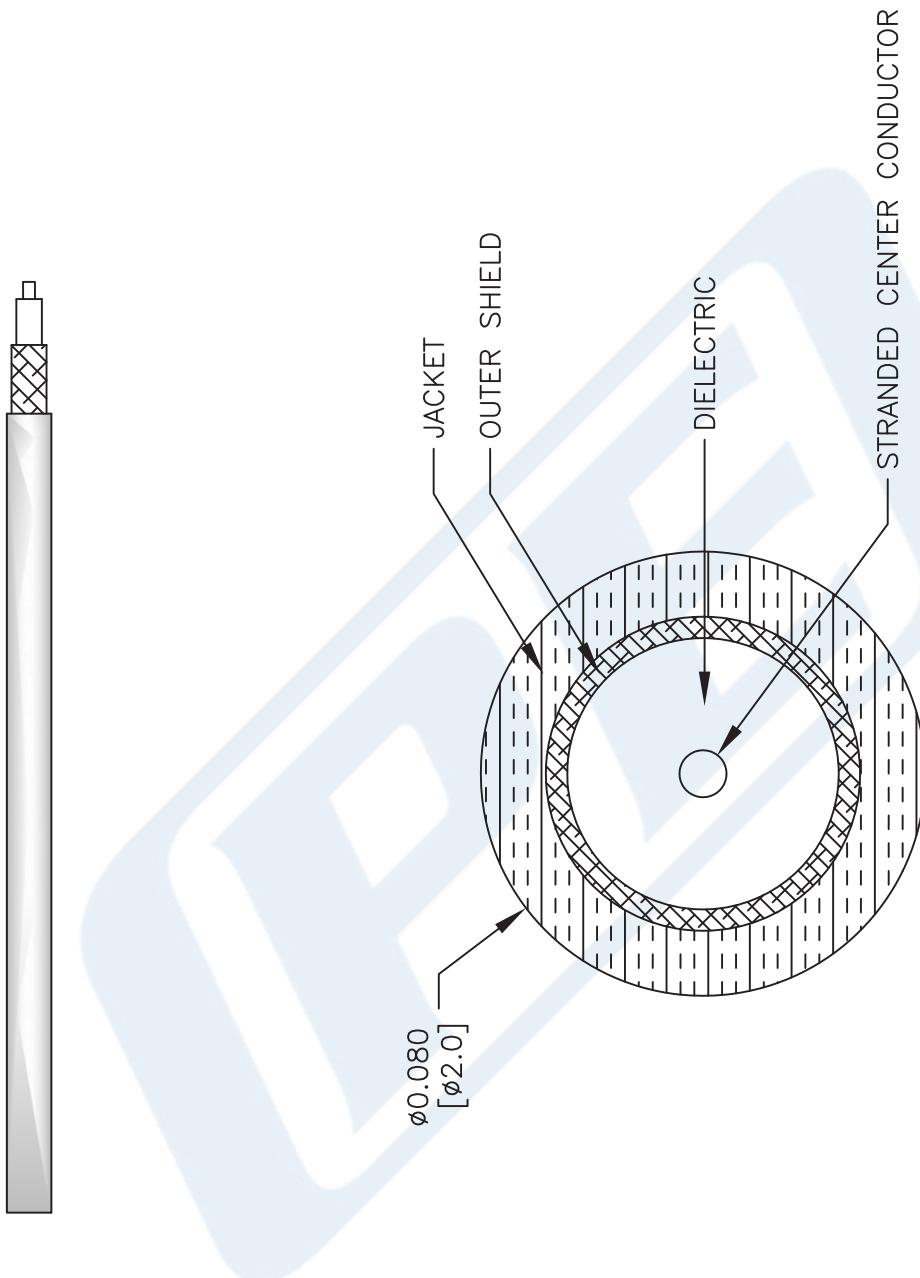
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket RG196A/U](#)

URL: <https://www.pasternack.com/flexible-0.080-rg196-50-ohm-coax-cable-ptfe-jacket-rg196a-u-p.aspx>

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# RG196A/U CAD Drawing

Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket



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

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DWG TITLE	RG196A/U
FSCM NO.	53919

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