

### SMA Male Right Angle Connector Crimp/ Solder Attachment for RG178, RG196



#### RF Connectors Technical Data Sheet

PE4296

#### Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Right Angle Body Geometry

#### **Features**

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

Gold Plated Brass Contact

Crimp/Solder Attachment

• 5/16 inch Hex

• 50 µin minimum contact plating

RG178, RG196 Interface Type

### **Applications**

• General Purpose Test

Custom Cable Assemblies

#### Description

Pasternack's PE4296 SMA male 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 SMA male 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 SMA male right angle connector PE4296 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
 0.715 in [18.16 mm]

 Width/Dia.
 0.315 in [8.00 mm]

 Height
 0.61 in [15.49 mm]

 Weight
 0.016 lbs [7.26 g]

Mating Torque 3 to 5 in-lbs [0.34 to 0.57 Nm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male Right Angle Connector Crimp/Solder Attachment for RG178, RG196 PE4296

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451



### SMA Male Right Angle Connector Crimp/ Solder Attachment for RG178, RG196



#### RF Connectors Technical Data Sheet

PE4296

#### Material Specifications

Description	Material	Plating		
Contact	Brass	Gold 50 µin minimum		
Insulation	PTFE			
Body	Brass	Nickel 100 µin minimum		
Coupling Nut	Brass	Nickel 100 µin minimum		

#### **Environmental Specifications**

**Temperature** 

**Operating Range** 

-65 to +165 deg C

Compliance Certifications (see product page for current document)

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

Notes:

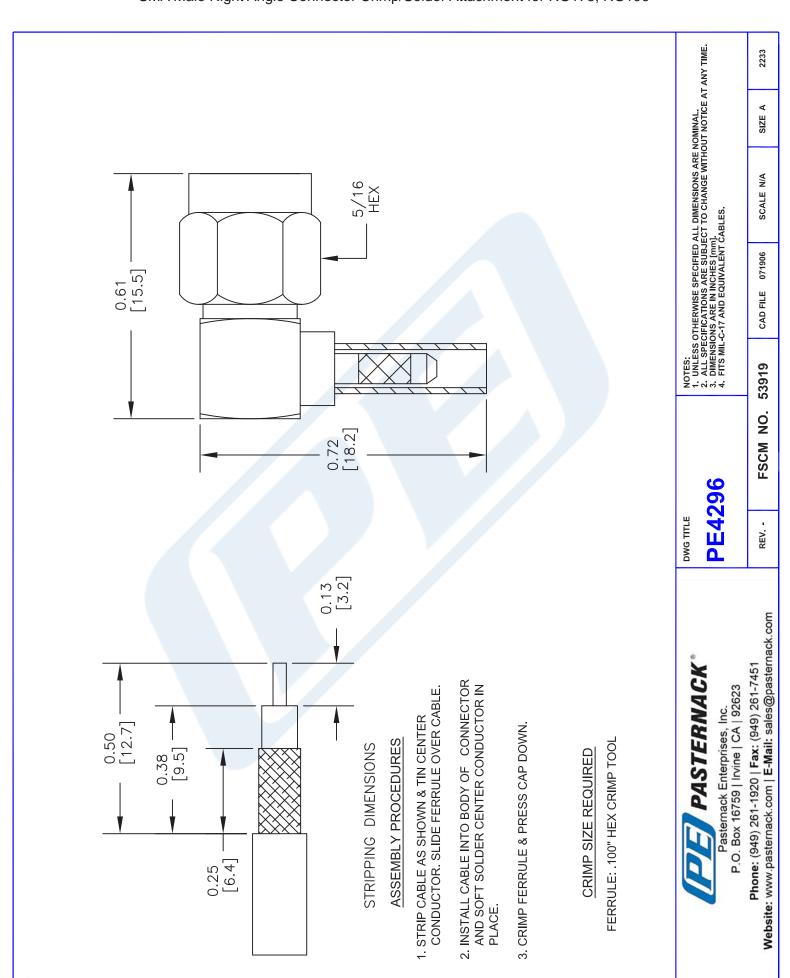
SMA Male Right Angle Connector Crimp/Solder Attachment for RG178, RG196 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/sma-male-standard-rg178-rg196-connector-pe4296-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.

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



#### RF Connectors Technical Data Sheet

PE45367

#### Configuration

- SSMC Plug Connector
- 50 Ohms
- Straight Body Geometry

#### **Features**

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.44:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204
- Reliable threaded coupling

- RG178, RG196 Interface Type
- Crimp/Solder Attachment

#### SMA, radially) • IEC 60169-20 SSMC connector interface

• Small SSMC connector form factor (50% smaller than

- · In stock and ready to ship

### **Applications**

- General Purpose Test
- Custom Cable Assemblies
- Avionics

- A/D Modules
- Data Acquisition
- Software defined radio (SDR)
- RADAR/SONAR
- Ultra Wideband Digital Receivers
- Medical equipment

#### **Description**

Pasternack's PE45367 SSMC 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 SSMC plug connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.44:1.

Our SSMC plug connector PE45367 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		12.4	GHz
VSWR			1.44:1	
Insertion Loss			0.3	dB
Operating Voltage (AC)			250	Vrms
High Potential Voltage			400	Vrms
5 MHz				
Inner Conductor DC Resistance			4	mOhms
Outer Conductor DC Resistance			1	mOhms
Insulation Resistance	1,000			MOhms
RF Leakage	-50			dB

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



#### RF Connectors Technical Data Sheet

PE45367

#### **Mechanical Specifications**

Size

 Length
 0.7 in [17.78 mm]

 Width/Dia.
 0.156 in [3.96 mm]

Mating Cycles 500 Cycles

Mating Torque 1.75 to 2 in-lbs [0.20 to 0.23 Nm]

#### **Material Specifications**

Description	Material	Plating
Contact	Beryllium Copper	Gold MIL-G-45204
Insulation	Teflon	
Body	Beryllium Copper	Gold MIL-G-45204
Coupling Nut	Beryllium Copper	Gold MIL-G-45205
Crimp Sleeve	Brass	Gold MIL-G-45204

#### **Environmental Specifications**

**Temperature** 

Operating Range -65 to +165 deg C

Shock Method 213, Condition B, 75G @6ms @1/2 sine

Vibration Method 204, Condition D (20G)

Salt Spray Method 101, Condition B, 5% salt solution

Compliance Certifications (see product page for current document)

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

Notes:

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

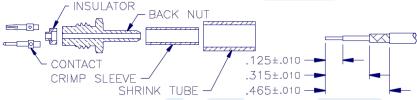


#### RF Connectors Technical Data Sheet

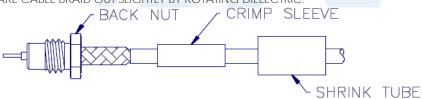
PE45367

#### **Assembly Instruction**

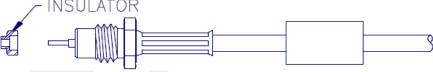
# Assembly Instructions



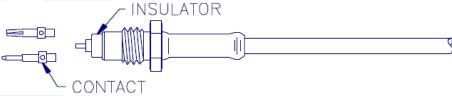
- 1. TRIM CABLE AS SHOWN ABOVE. TIN END OF CENTER CONDUCTOR.
- 2. SLIDE CRIMP SLEEVE AND SHRINK TUBE (IF SUPPLIED) OVER CABLE JACKET.
- 3. FLARE CABLE BRAID OUT SLIGHTLY BY ROTATING DIELECTRIC.



- 4. INSERT CABLE INTO TAIL-END OF BACK NUT, MAKING SURE TAIL GOES OVER DIELECTRIC AND UNDER BRAID. SLIDE IN UNTIL BRAID TOUCHES REAR SURFACE OF NUT.
- 5. SLIDE CRIMP SLEEVE FORWARD AND USE .105 HEX DIE TO CRIMP.



6. POSITION INSULATOR OVER CABLE DIELECTIC AND CENTER CONDUCTOR.



- 7. SOLDER CONTACT TO CENTER CONDUCTOR.
- 8. INSERT CAABLE ASSEMBLY INTO BODY AND TIGHTEN NUT WITH A TORQUE WRENCH WITH A TORQUE OF 35-45 INCH-OUNCES.
- 9. SLIDE SHRINK TUBE (IF SUPPLIED) OVER CRIMP SLEEVE AND SHRINK TO FIT.

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#### RF Connectors Technical Data Sheet

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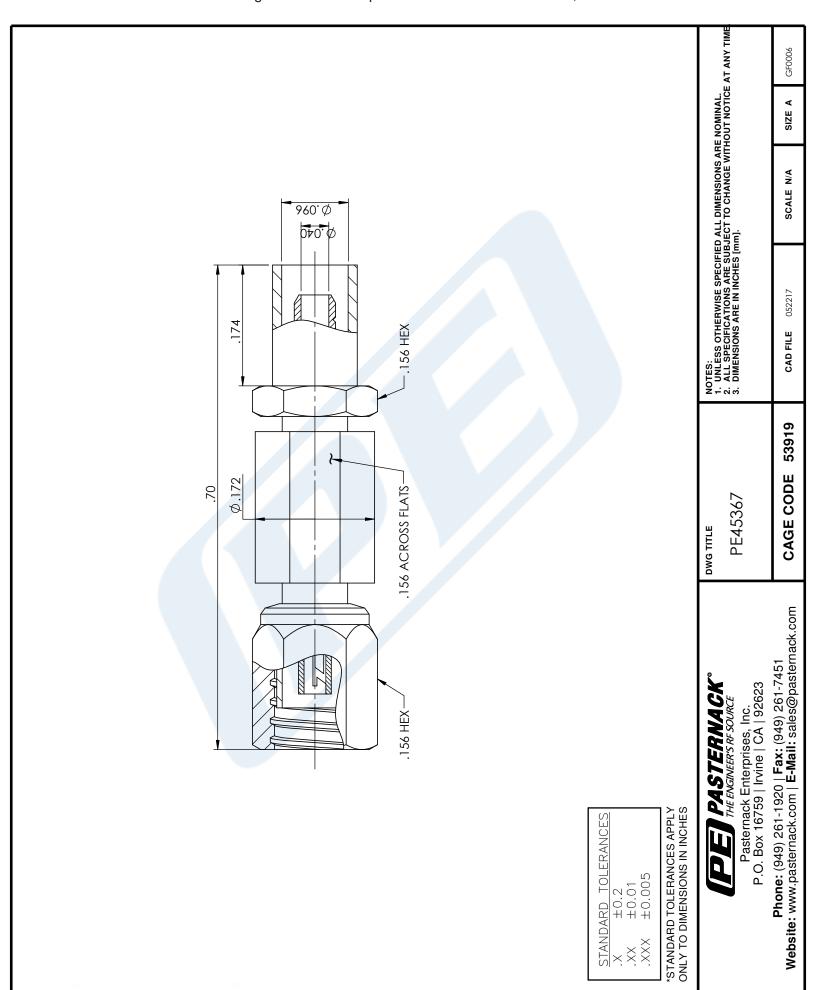
SSMC Plug Connector Crimp/Solder Attachment for RG178, RG196 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SSMC Plug Connector Crimp/Solder Attachment for RG178, RG196 PE45367

URL: https://www.pasternack.com/ssmc-plug-rg178-rg196-connector-pe45367-p.aspx

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PE45367 CAD Drawing
SSMC Plug Connector Crimp/Solder Attachment for RG178, RG196







## 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**

			Units
DC		1,000	MHz
	50		Ohms
		2,000	Vrms
	32 [104.99]		pF/ft [pF/m]
	DC	50	50 2,000

#### Performance by Frequency Band

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

#### **Mechanical Specifications**

Diameter Weight 0.08 in [2.03 mm] 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

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## 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]

#### **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

