



## SMA Female Connector Clamp/Solder Attachment For RG178, RG196

## TECHNICAL DATA SHEET

PE4591

### SMA Female Connector Clamp/Solder Attachment For RG178, RG196

Configuration

ConnectorSMA FemaleConnector SpecificationMIL-C-39012Connector Interface TypeRG178,RG196Cable Attachment Method (Shield/Contact)Clamp/SolderBody StyleStraight

**Electrical Specifications** 

Impedance, Ohms 50

**Mechanical Specifications** 

**Temperature** 

Operating Range, deg C -65 to +165

Size

 Length, in [mm]
 0.7 [17.78]

 Width/Dia., in [mm]
 0.312 [7.92]

 Weight, lbs [g]
 0.013 [5.9]

Connector

Type SMA Female
Contact Material and Plating Gold
Contact Plating Specification MIL-G-45204
Body Material and Plating Brass, Nickel
Dielectric Type Teflon

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant Yes

**Plotted and Other Data** 

Notes: Values at 25 °C, sea level

SMA Female Connector Clamp/Solder Attachment For RG178, RG196 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic 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: SMA Female Connector Clamp/Solder Attachment For RG178, RG196 PE4591

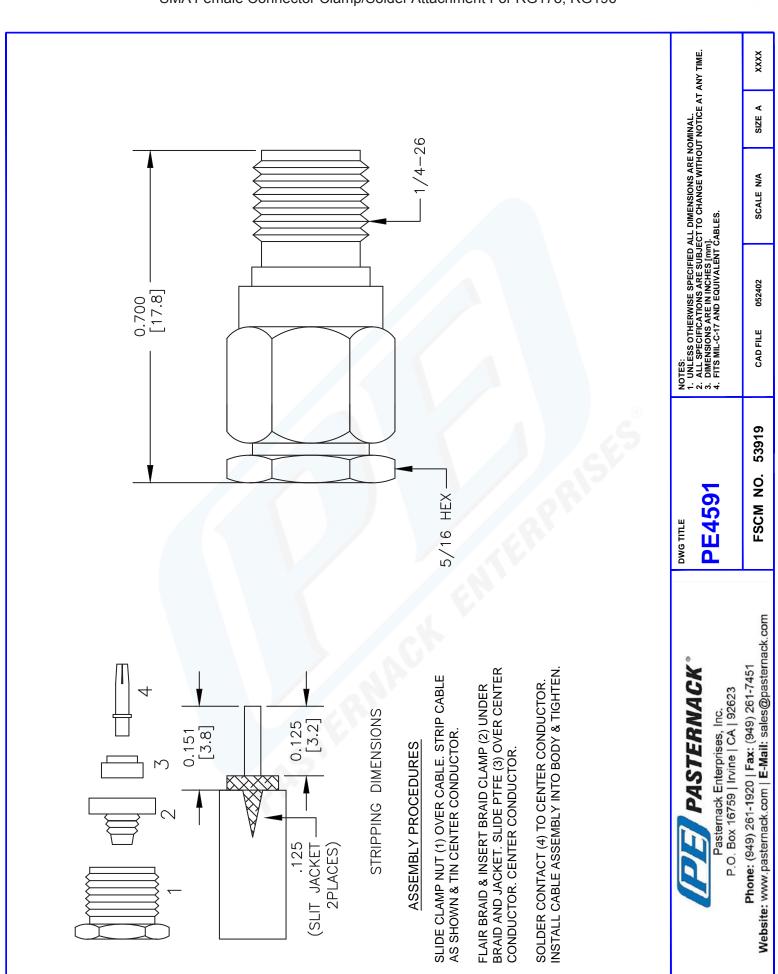
URL: http://www.pasternack.com/sma-female-standard-rg178-rg196-connector-pe4591-p.aspx

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 Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623

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# SMP Female Right Angle Connector Crimp/Solder Attachment for RG178, RG196, Up To 8 GHz



## RF Connectors Technical Data Sheet

PE45290

### Configuration

- SMP Female Connector
- MIL-STD-348A
- 50 Ohms

- Right Angle Body Geometry
- Connector Interface Types: RG178, RG196

#### **Features**

- Max. Operating Frequency 8 GHz
- Excellent VSWR of 1.1:1
- Gold Plated Beryllium Copper Contact

- Contact plating according to MIL-DTL-45204
- Blind Mate Connector

### **Applications**

General Purpose Test

Custom Cable Assemblies

### Description

Pasternack's PE45290 SMP female 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 SMP female connector operates up to a maximum frequency of 8 GHz and offers excellent VSWR of 1.1:1. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated. Its right angle body geometry allows for easier connections in tight spaces. Pasternack 8 GHz SMP connectors are designed to offer a low cost alternative where the SMP form factor is desired but the standard SMP frequency range is not needed. The line of 8 GHz SMP connectors is fully compatible with industry standard SMP and GPO® connectors. These SMP connectors offer a low cost high performance blind-mate solution for lower frequency applications. The Male versions of the 8 GHz SMP is available in Full Detent, Limited Detent, and Smooth Bore versions.

Our SMP female right angle connector PE45290 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**

Units
GHz

### **Mechanical Specifications**

#### Size

 Length
 0.34 in [8.64 mm]

 Width/Dia.
 0.15 in [3.81 mm]

 Height
 0.285 in [7.24 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMP Female Right Angle Connector Crimp/Solder Attachment for RG178, RG196, Up To 8 GHz PE45290

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## RF Connectors Technical Data Sheet

PE45290

Weight 0.005 lbs [2.27 g]

### **Material Specifications**

Description	Material	Plating
Contact	Beryllium Copper	Gold MIL-DTL-45204
Insulation	PTFE	
Outer Conductor	Beryllium Copper	Gold MIL-DTL-45204
Body	Brass	Gold MIL-DTL-45204

### **Environmental Specifications**

### **Temperature**

Operating Range -55 to +155 deg C
Humidity -55 to +155 deg C
MIL-STD-202, Method 106 (except 7b omitted)

Shock MIL-STD-202, Method 213, Condition I
Vibration MIL-STD-202, Method 204, Condition D
Salt Spray MIL-STD-202, Method 101, Condition B

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

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## RF Connectors Technical Data Sheet

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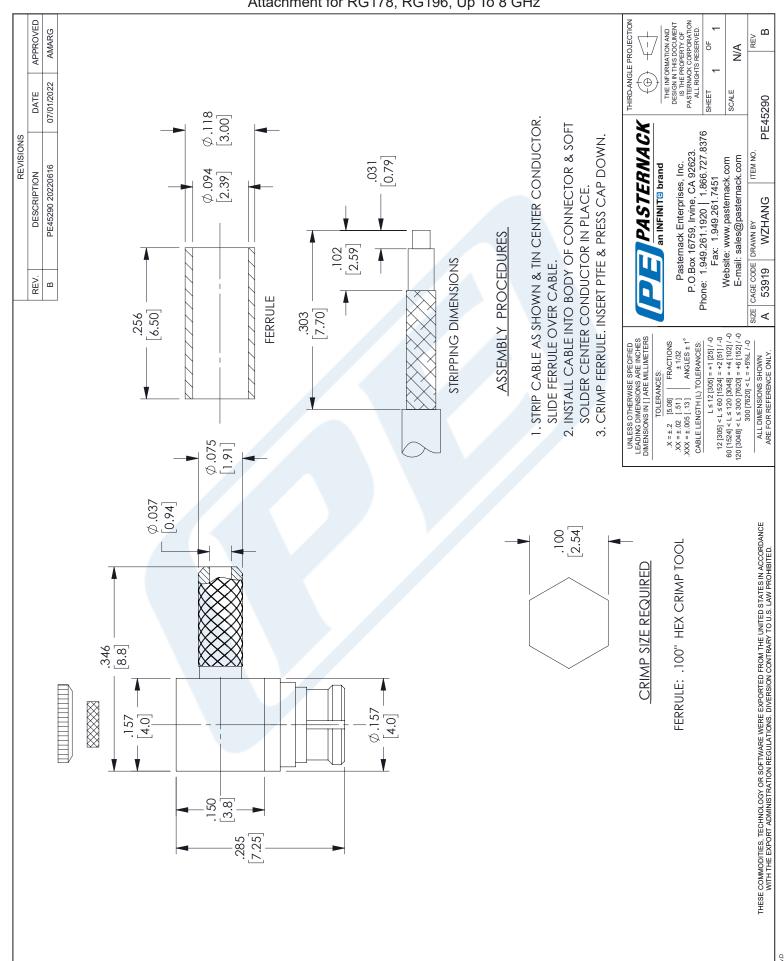
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URL: https://www.pasternack.com/smp-female-rg178-rg196-connector-pe45290-p.aspx

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.

## PE45290 CAD Drawing

SMP Female Right Angle Connector Crimp/Solder Attachment for RG178, RG196, Up To 8 GHz







## Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

RG178B/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		70		%
Operating Voltage (AC)			1,000	Vrms
Nominal Capacitance		29.4 [96.46]		pF/ft [pF/m]

#### **Performance by Frequency Band**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3		GHz
Attenuation, Typ	13.81	27.8	44.41	78.4		dB/100ft
	45.31	91.21	145.7	257.22		dB/100m

### **Mechanical Specifications**

 Diameter
 0.072 in [1.83 mm]

 Weight
 0.005 lbs/ft [0.01 Kg/m]

Min. Bend Radius (Repeated) 0.4 in [10.16 mm]

### **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	0.034 in [0.86 mm]	
First Shield	Silver Plated Copper Braid	0.051 in [1.3 mm]	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket RG178B/U

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## Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

RG178B/U

Jacket FEP, Tan 0.072 in [1.83 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 RG178 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-0.075-rg178-50-ohm-coax-cable-fep-jacket-rg178b-u-p.aspx

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## RG178B/U CAD Drawing

Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket

