

# 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

#### **Features**

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

#### **Applications**

General Purpose Test

- Right Angle Body Geometry
- Connector Interface Types: RG178, RG196
- Contact plating according to MIL-DTL-45204
  Blind Mate Connector
- 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**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
VSWR			1.1:1	

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

# **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 Brass Gold Body MIL-DTL-45204 **Environmental Specifications** Temperature **Operating Range** -55 to +155 deg C MIL-STD-202, Method 106 (except 7b omitted) Humidity 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:

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**

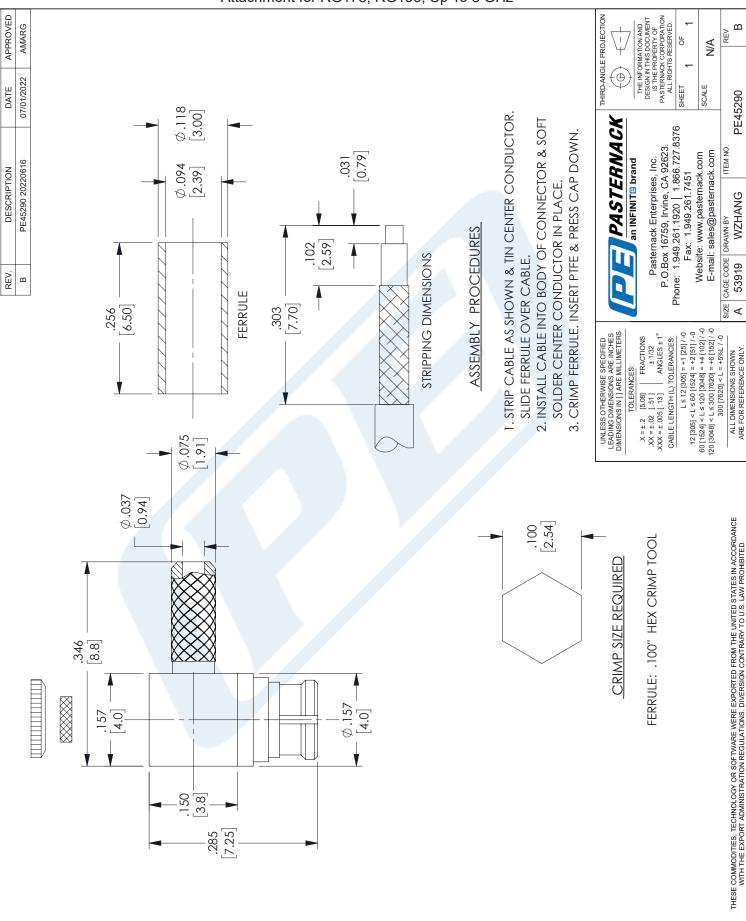
SMP Female Right Angle Connector Crimp/Solder Attachment for RG178, RG196, Up To 8 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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

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.

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# PE45290 CAD Drawing

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

REVISIONS

4



SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196, .235 inch D Hole



# RF Connectors Technical Data Sheet PE4422

# Configuration

- SMA Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry

#### Features

• Gold Plated Contact

#### **Applications**

- General Purpose Test
- Rack and Panel Mount Applications
  Cus

Bulkhead

• RG178, RG196 Interface Type

Contact plating according to MIL-G-45204

Crimp/Solder Attachment

Custom Cable Assemblies

#### Description

Pasternack's PE4422 SMA female bulkhead connector with crimp/solder attachment for RG178 and RG196 (.235 inch D hole) is part of our full line of RF components available for same-day shipping. This SMA bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our SMA female bulkhead connector PE4422 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.

#### **Mechanical Specifications**

Size	
Length	1.25 in [31.75 mm]
Width/Dia.	0.312 in [7.92 mm]
Weight	0.013 lbs [5.9 g]

#### Material Specifications

Description	Material	Plating
Contact		Gold MIL-G-45204
Insulation	PTFE	
Body	Brass	Nickel QQ-N-290

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196, .235 inch D Hole PE4422

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SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196, .235 inch D Hole

# **RF Connectors Technical Data Sheet**

**PE4422** 

Compliance Certifications (see product page for current document)

#### Plotted and Other Data Notes:

SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196, .235 inch D Hole 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.

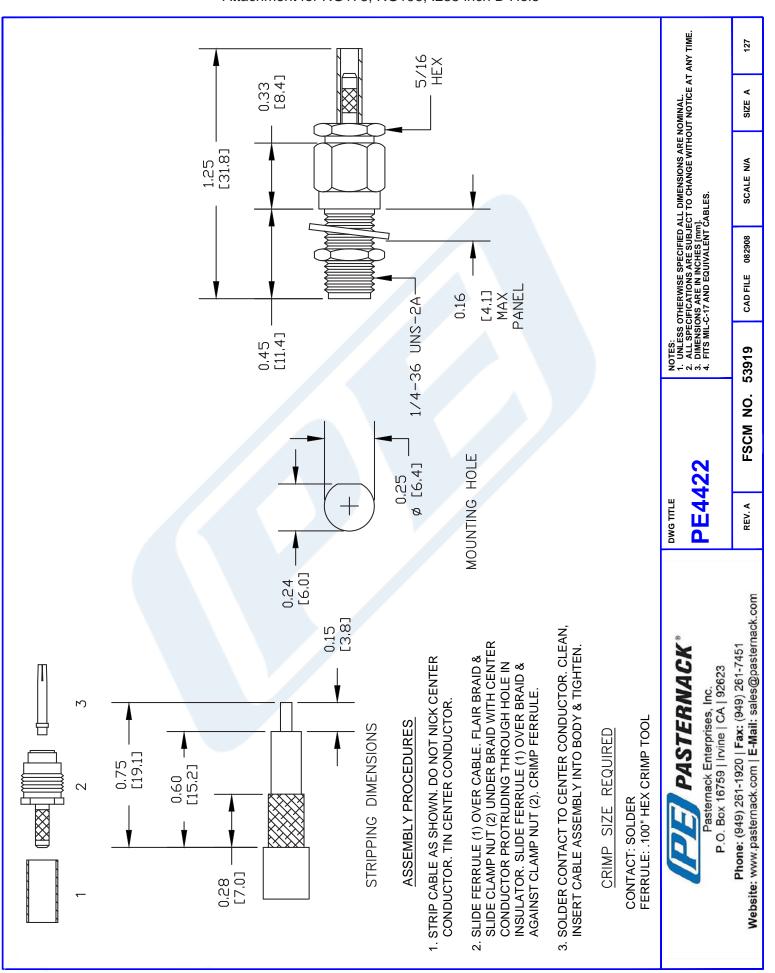
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196, .235 inch D Hole PE4422

URL: https://www.pasternack.com/sma-female-standard-rg178-rg196-connector-pe4422-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.

PE4422 CAD Drawing

SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196, .235 inch D Hole







# 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 Weight

0.072 in [1.83 mm] 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/L 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. 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 URL: https://www.pasternack.com/flexible-0.075-rg178-50-ohm-coax-cable-fep-jacket-rg178b-u-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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# RG178B/U CAD Drawing

Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket

