



RF Connectors Technical Data Sheet

PE45493

Configuration

- SSMC Jack 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

- RG-178, RG-196 Interface Type
- Crimp/Solder Attachment
- Bulkhead
- Small SSMC connector form factor (50% smaller than SMA, radially)
- IEC 60169-20 SSMC connector interface
- In stock and ready to ship

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies
- Avionics

- A/D Modules
- Data Acquisition
- Software defined radio (SDR)
- RADAR/SONAR

- Ultra Wideband Digital Receivers
- Medical equipment

Description

Pasternack's PE45493 SSMC jack bulkhead connector with crimp/solder attachment for RG-178 and RG-196 is part of our full line of RF components available for same-day shipping. Our SSMC jack connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.44:1. This SSMC 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 SSMC jack bulkhead connector PE45493 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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SSMC Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG-178, RG-196 PE45493

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RF Connectors Technical Data Sheet

PE45493

RF Leakage	-50	dB

Mechanical Specifications

Size

Length 0.74 in [18.8 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		
Outer Conductor	Beryllium Copper	Gold MIL-G-45204	
Body	Beryllium Copper	Gold MIL-G-45204	
Crimp Sleeve	Brass	Gold MIL-G-45204	
Washer	Phosphor Bronze	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:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SSMC Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG-178, RG-196 PE45493

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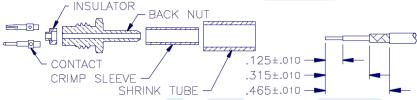


RF Connectors Technical Data Sheet

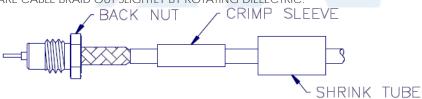
PE45493

Assembly Instruction

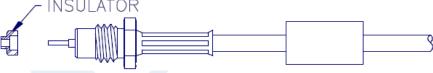
Assembly Instructions TOR BACK NUT



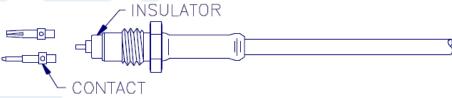
- 1. TRIM CABLE AS SHOWN ABOVE. TIN END OF CENTER CONDUCTOR.
- 2. SLIDE CRIMP SLEEVE AND SHRINK TUBE (IF SUPPLIED) OVER CABLE JACKET.
- 3. FLARE CABLE BRAID OUT SLIGHTLY BY ROTATING DIELECTRIC.



- 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SSMC Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG-178, RG-196 PE45493

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SSMC Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG-178, RG-196 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 Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG-178, RG-196 PE45493

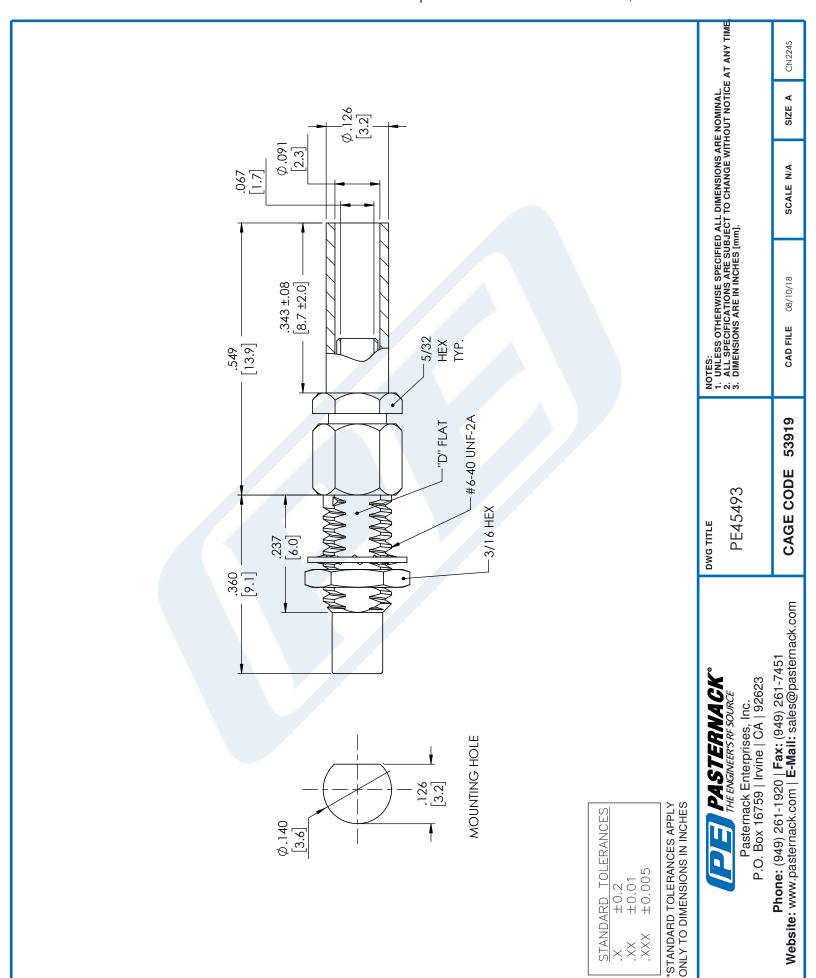
URL: https://www.pasternack.com/ssmc-jack-rg-178-rg-196-connector-pe45493-p.aspx

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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PE45493 CAD Drawing

SSMC Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG-178, RG-196







BNC Male Connector Crimp/Solder Attachment for RG178, RG196

RF Connectors Technical Data Sheet

PE4643

Configuration

- BNC Male Connector
- MIL-STD-348A
- 50 Ohms

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

Features

- Max. Operating Frequency 1,000 MHz
- Good VSWR of 1.35:1

- Gold Plated Brass Contact
- 30 µin minimum contact plating

Applications

General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE4643 BNC male connector with crimp/solder attachment for RG178 and RG196 is part of our full line of RF components available for same-day shipping. Our BNC male connector operates up to a maximum frequency of 1,000 MHz and offers good VSWR of 1.35:1.

Our BNC male connector PE4643 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		1,000	MHz
VSWR			1.35:1	
Operating Voltage (AC)			500	Vrms

Mechanical Specifications

Size

 Length
 1.39 in [35.31 mm]

 Width/Dia.
 0.57 in [14.48 mm]

 Weight
 0.034 lbs [15.42 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: BNC Male Connector Crimp/Solder Attachment for RG178, RG196 PE4643

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BNC Male Connector Crimp/Solder Attachment for RG178, RG196

RF Connectors Technical Data Sheet

PE4643

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 30 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:

BNC Male 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: BNC Male Connector Crimp/Solder Attachment for RG178, RG196 PE4643

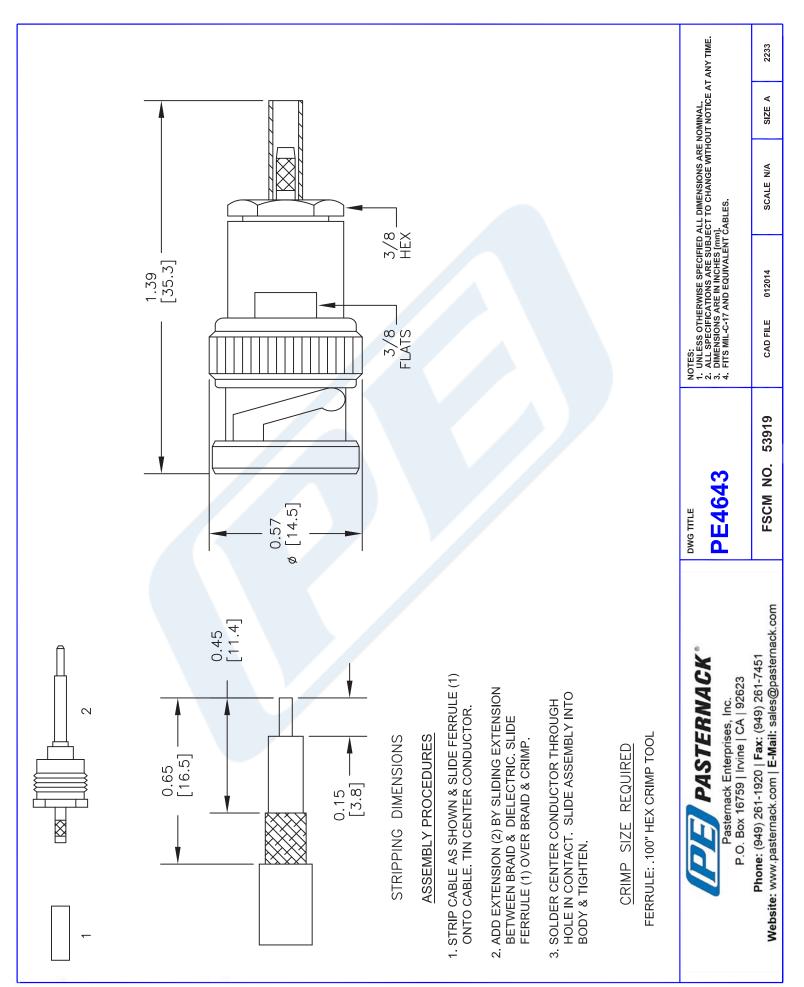
URL: https://www.pasternack.com/bnc-male-standard-rg178-rg196-connector-pe4643-p.aspx

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PE4643 CAD Drawing

BNC Male Connector Crimp/Solder Attachment for RG178, RG196







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.

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

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RG178B/U CAD Drawing

Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket

