SMB Plug Connector Crimp/Solder Attachment for RG178, RG196

RF Connectors Technical Data Sheet   PE4080

Configuration
- SMB Plug Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- RG178, RG196 Interface Type
- Crimp/Solder Attachment

Features
- Max. Operating Frequency 3 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 30 µin minimum contact plating

Applications
- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4080 SMB 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 SMB plug connector operates up to a maximum frequency of 3 GHz and offers good VSWR of 1.3:1.

Our SMB plug connector PE4080 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			1.3:1	
Operating Voltage (AC)			250	Vrms

Mechanical Specifications

Size
Length   0.86 in [21.84 mm]
Width/Dia.   0.25 in [6.35 mm]

Weight   0.011 lbs [4.99 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 Connector Crimp/Solder Attachment for RG178, RG196 PE4080

PE4080 REV 1.1   1

RF Connectors Technical Data Sheet   PE4080

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 30 µin minimum
Insulation	PTFE	
Body	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:

SMB 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.
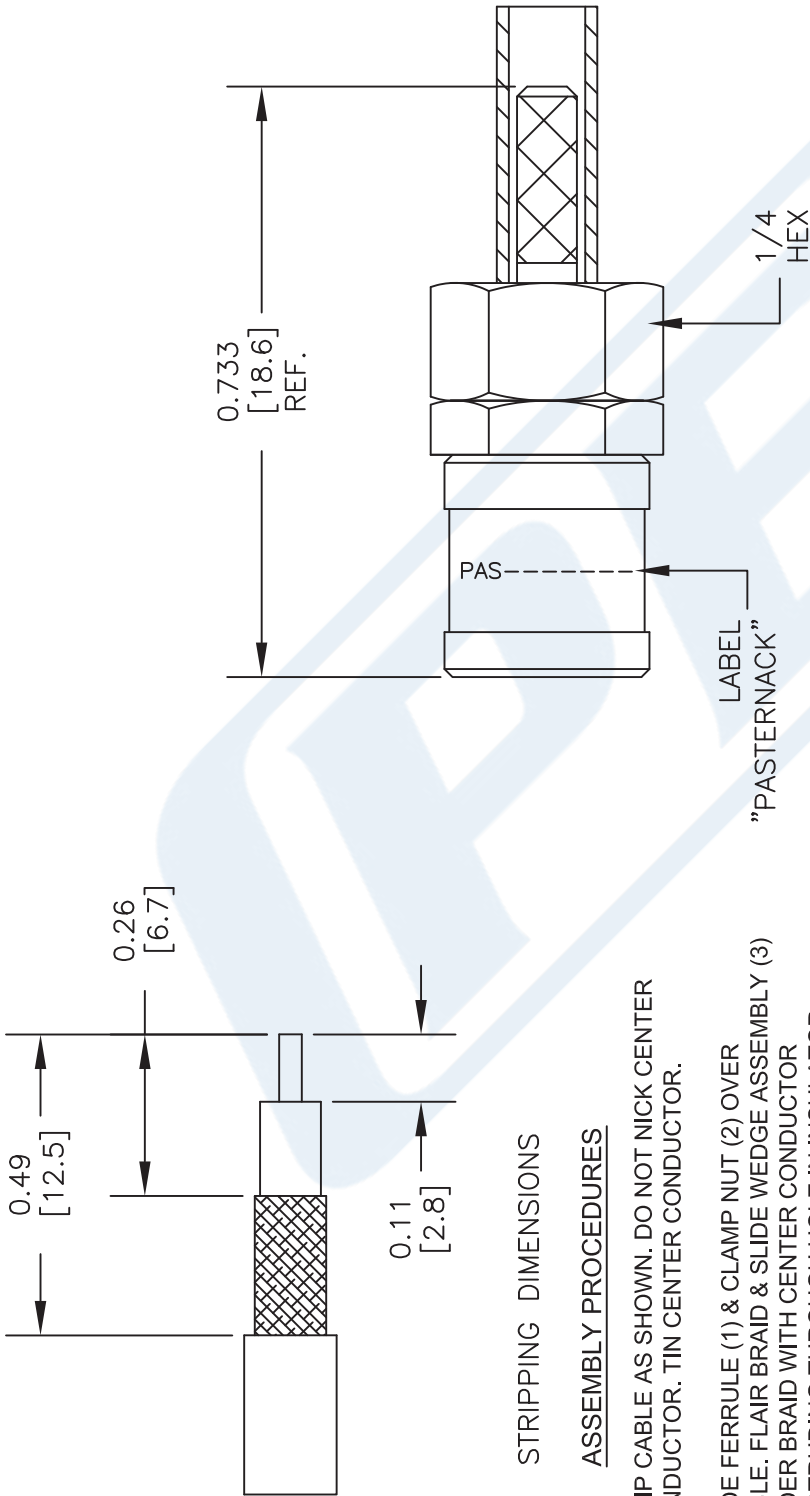
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMB Plug Connector Crimp/Solder Attachment for RG178, RG196 PE4080

URL: https://www.pasternack.com/smb-plug-standard-rg178-rg196-connector-pe4080-p.aspx

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PE4080 CAD Drawing
SMB Plug Connector Crimp/Solder Attachment for RG178, RG196

0.733
[18.6]
REF.

1/4
HEX

PAS

LABEL
"PASTERNACK"

0.26
[6.7]

0.49
[12.5]

0.11
[2.8]

STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR. TIN CENTER CONDUCTOR.

2. SLIDE FERRULE (1) & CLAMP NUT (2) OVER CABLE. FLAIR BRAID & SLIDE WEDGE ASSEMBLY (3) UNDER BRAID WITH CENTER CONDUCTOR PROTRUDING THROUGH HOLE IN INSULATOR. SLIDE FERRULE (1) OVER BRAID & AGAINST CLAMP NUT.

3. SOLDER CONTACT TO CENTER CONDUCTOR. CLEAN. INSERT CABLE ASSEMBLY INTO BODY & TIGHTEN.

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .100" HEX CRIMP TOOL

STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

DWG TITLE
PE4080

FSCM NO. 53919

CAD FILE 050216

SCALE N/A

SIZE A

3045

SMB Jack Connector Crimp/Solder Attachment For RG178, RG196

TECHNICAL DATA SHEET   **PE4926**

SMB Jack Connector Crimp/Solder Attachment For RG178, RG196

Configuration
Connector	SMB Jack
Connector Interface Type	RG178,RG196
Cable Attachment Method (Shield/Contact)	Crimp/Solder
Body Style	Straight

Electrical Specifications
Impedance, Ohms	50

Mechanical Specifications

Size
Length, in [mm]	1.015 [25.78]
Width/Dia., in [mm]	0.219 [5.56]
Weight, lbs [g]	0.006 [2.72]

Connector
Type	SMB Jack
Contact Material and Plating	Gold
Body Material and Plating	Brass, Nickel
Dielectric Type	PTFE

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

Plotted and Other Data
Notes:	Values at 25 °C, sea level

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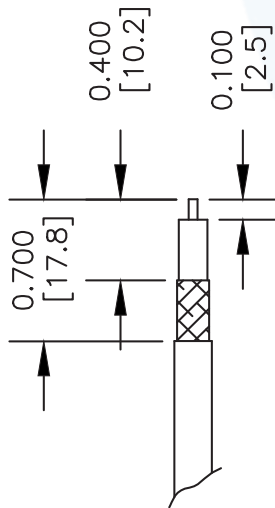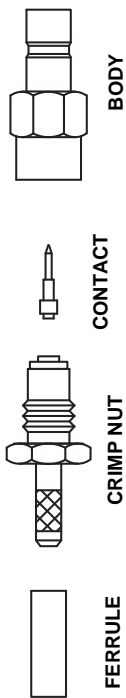
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMB Jack Connector Crimp/Solder Attachment For RG178, RG196 PE4926

URL: http://www.pasternack.com/smb-jack-standard-rg178-rg196-connector-pe4926-p.aspx

PE4926 CAD Drawing
SMB Jack Connector Crimp/Solder Attachment For RG178, RG196

7/32 HEX

1.015
[25.8]

BODY

CONTACT

0.400
[10.2]

0.100
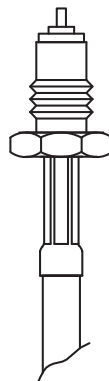[2.5]

CRIMP NUT

0.700
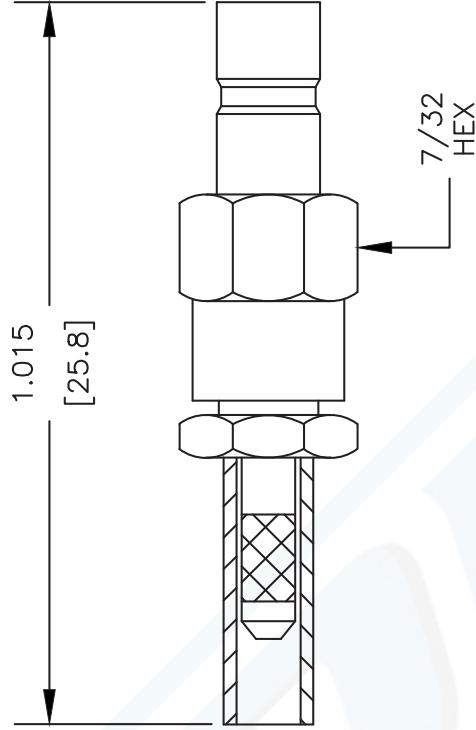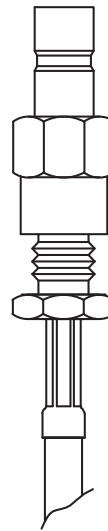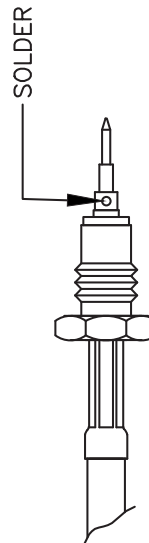[17.8]

FERRULE

STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. SLIDE FERRULE OVER CABLE. FLARE BRAID AND INSERT CRIMP NUT BETWEEN BRAID AND DIELECTRIC.
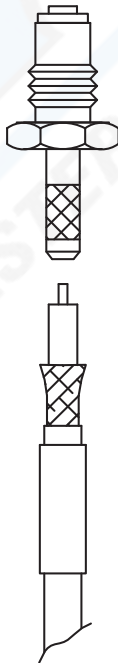
2. SLIDE FERRULE OVER BRAID AND CRIMP (.100" HEX CRIMP TOOL)

3. SOLDER CONTACT TO CENTER CONDUCTOR. SLIDE ASSEMBLY INTO BODY AND TIGHTEN.

SOLDER

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].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE	**PE4926**	
FSCM NO. 53919		
CAD FILE 121208	SCALE N/A	SIZE A 127

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PE4926 REV 01

2

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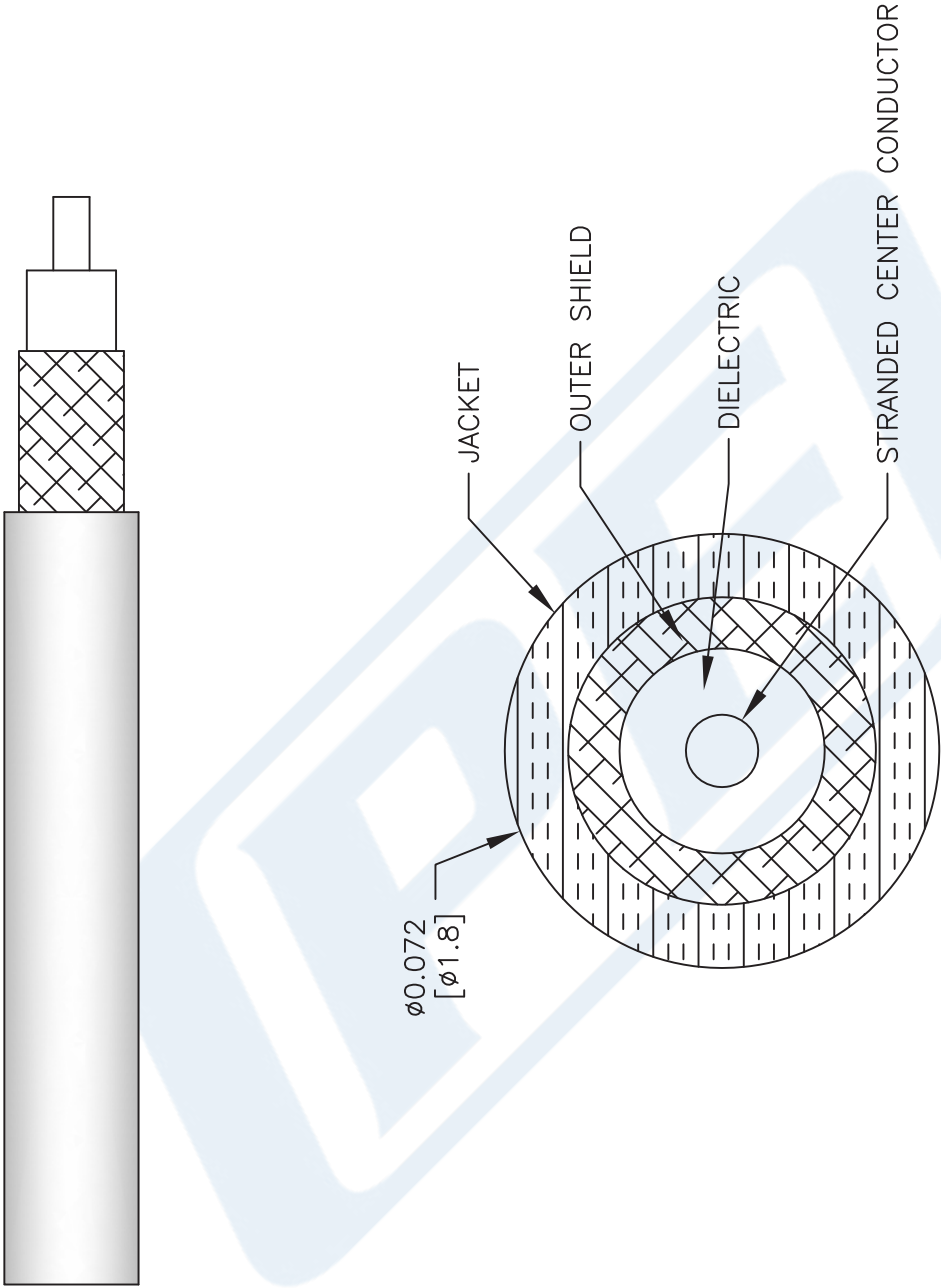
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket RG178B/U

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

JACKET

OUTER SHIELD

DIELECTRIC

STRANDED CENTER CONDUCTOR

Ø0.072
[Ø1.8]

CAD FILE	062117	SCALE N/A	SIZE A	2233

DWG TITLE

RG178B/U

CAGE CODE 53919

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RG178B/U REV 1.1