PASTERNACK®
THE ENGINEER'S RF SOURCE

SMB Plug Connector Clamp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100

RF Connectors Technical Data Sheet PE4200

Configuration

- SMB Plug Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 Interface Type
- Clamp/Solder Attachment

Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.41:1
- Gold Plated Beryllium Copper Contact
- 30 µin minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4200 SMB plug connector with clamp/solder attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100 and LMR-100 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 4 GHz and offers good VSWR of 1.41:1.

Our SMB plug connector PE4200 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		4	GHz
VSWR			1.41:1	
Operating Voltage (AC)			750	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			1	mOhms
Insulation Resistance	1,000			MOhms

Mechanical Specifications

Size

Length	0.63 in [16 mm]
Width/Dia.	0.25 in [6.35 mm]
Weight	0.006 lbs [2.72 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 Clamp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 PE4200

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
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SMB Plug Connector Clamp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 30 µin minimum
Insulation	PTFE	
Body	Brass	Nickel 2.5 µin minimum

Environmental Specifications

Temperature

Operating Range	-65 to +165 deg C
Vibration	MIL-STD-202, Method 204, Condition B
Temperature Cycle	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMB Plug Connector Clamp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 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 Clamp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 PE4200

URL: https://www.pasternack.com/smb-plug-standard-rg174-rg316-rg188-connector-pe4200-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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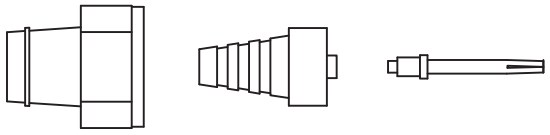
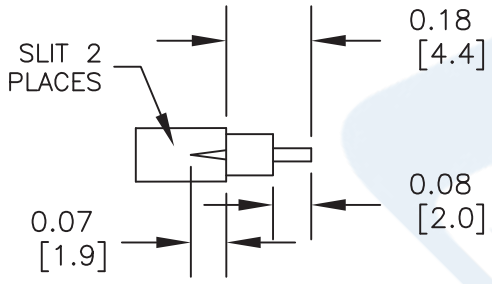
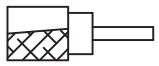
PE4200 CAD Drawing

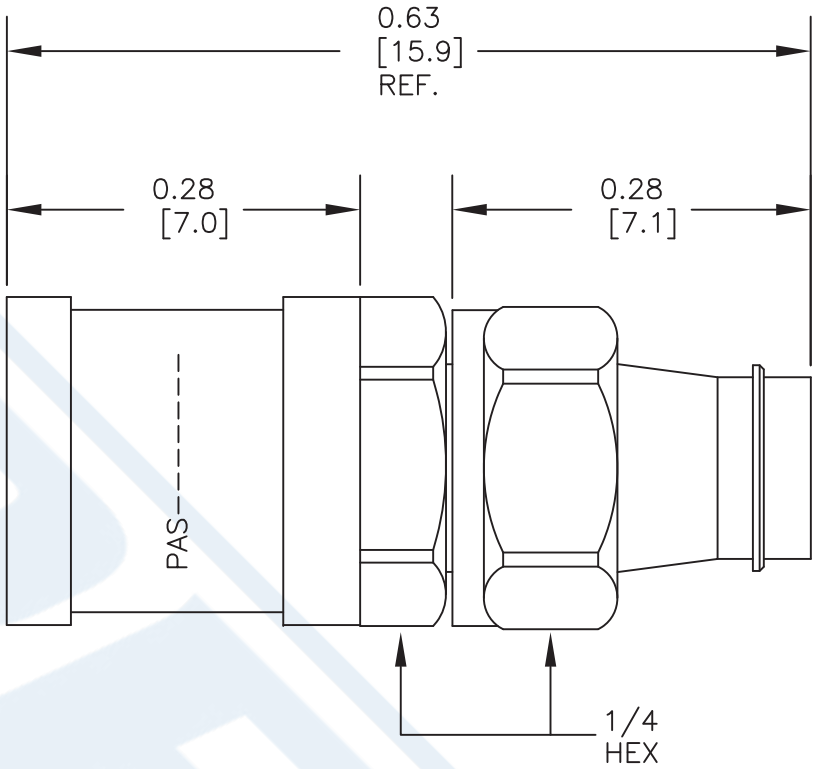
SMB Plug Connector Clamp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100







ASSEMBLY B
STRIPPING DIMENSIONS



ASSEMBLY PROCEDURES

1. SLIDE CLAMP NUT (1) OVER CABLE. STRIP CABLE AS SHOWN IN ASSEMBLY A. TIN CENTER CONDUCTOR. SLIT JACKET IN 2 PLACES & REMOVE ONE SIDE OF JACKET TO END OF SLIT AS SHOWN IN ASSEMBLY B. DO NOT NICK BRAID WHEN CUTTING ONE SIDE OF JACKET.

2. INSERT WEDGE ASSEMBLY (2) BETWEEN BRAID & DIELECTRIC. CENTER CONDUCTOR MUST ENTER HOLE IN INSULATOR.

3. INSERT CONTACT (3) IN INSULATOR & SOLDER CONTACT TO CENTER CONDUCTOR. INSERT CABLE ASSEMBLY INTO BODY & TIGHTEN.

STANDARD TOLERANCES	
.X	±0.008
.XX	±0.004
.XXX	±0.002

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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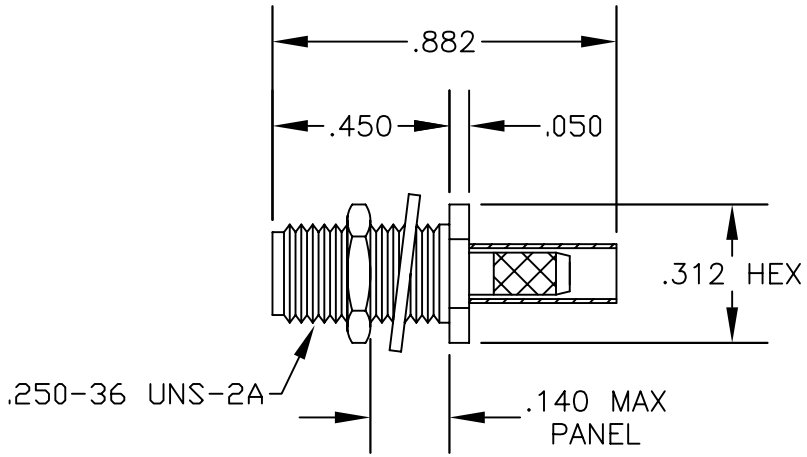
DWG TITLE

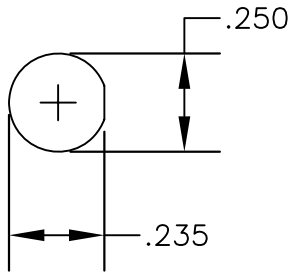
PE4200

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].

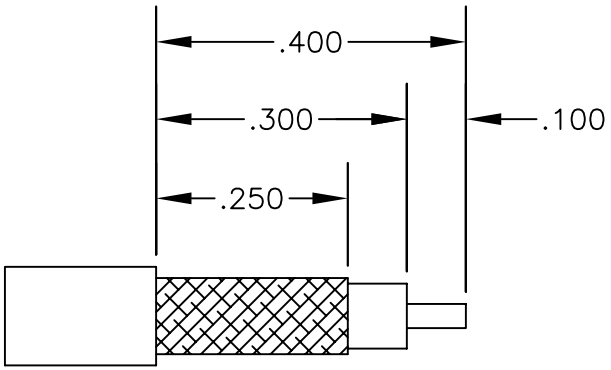
FSCM NO. 53919	CAD FILE 032316	SCALE N/A	SIZE A	3045

MATERIALS	
BODY	BRASS NICKEL PLATED
CONTACT	GOLD PLATED
INSULATOR	PTFE
FERRULE	GOLD PLATED





MOUNTING HOLE



STRIPPING DIMENSIONS

CONTACT: SOLDER
FERRULE: SOLDER

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DWG TITLE
PE4188

DES. SMA FEMALE, BULKHEAD, SOLDER ATTACHMENT FOR RG174, RG188 & RG316

SIZE A	FSCM NO. 53919	CAD FILE 072403	SCALE N/A		127

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PASTERNACK
an INFINITE brand

Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket

RF Cables
Technical Data Sheet

RG316/U

Configuration

- Flexible Cable
- 1 Shield(s)

Features

- High Flexibility
- FEP Jacket
- Velocity of Propagation 69%

Applications

- General Purpose
- Antenna Feeds
- Communication Systems
- Wireless Systems
- Indoor / Outdoor Uses
- High Temperature Applications
- High Flexibility Applications
- Jumper Cable Assemblies

Description

Flexible coaxial cable are ideal for applications where tight bends and continual flexure are required. Pasternack's RG316/U is a single shielded flexible coax cable with FEP jacket and compatible with a wide selection of connector types. This RG316/U coaxial cable has a stranded inner conductor for better flexibility and operates up to 3 GHz. The FEP jacket of this RG316/U coax cable makes it suitable for indoor/outdoor uses and high temperature applications. RG316/U datasheet specifications and outline drawing for this flexible cable are shown in the PDF below.

Pasternack carries a wide range of cables ready to ship same day to fit your needs. They are available in corrugated, flexible, formable or semi-rigid versions with different constructions of conductor materials, dielectric materials, shielding configurations and jacket materials. Our cables are designed to fit a wide range of performance criteria including attenuation, operating temperature, environmental factor, and power capability.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Velocity of Propagation		69		%
Operating Voltage (AC)			900	Vrms
Dielectric Withstanding Voltage (AC)			2,000	Vrms
Jacket Spark			2,000	Vrms
Nominal Capacitance			32 [104.99]	[pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket RG316/U

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Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket

RF Cables
Technical Data Sheet

RG316/U

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.05	0.1	0.4	1	3	GHz
Attenuation, Typ	7.5	11	21	38	58	dB/100ft
	24.61	36.09	68.9	124.67	190.29	dB/100m

Mechanical Specifications

Diameter	0.102 in [2.59 mm]
Weight	0.01 lbs/ft [0.01 Kg/m]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver7	0.02 in 0.51 mm
Conductor Type	Stranded	
Dielectric	PTFE	0.06 in 1.52 mm
First Shield	Silver Plated Copper Braid 95% coverage	0.081 in 2.06 mm
Jacket	FEP, Tan	0.102 in [2.59 mm]

Environmental Specifications

Temperature

Operating Range	-55 to +200 deg C

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Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket

RF Cables
Technical Data Sheet

RG316/U

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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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: Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket RG316/U

URL: https://www.pasternack.com/flexible-rg316u-fep-jacket-silver-plated-copper-braid-outer-conductor-single-shielded-rg316-u-p.aspx

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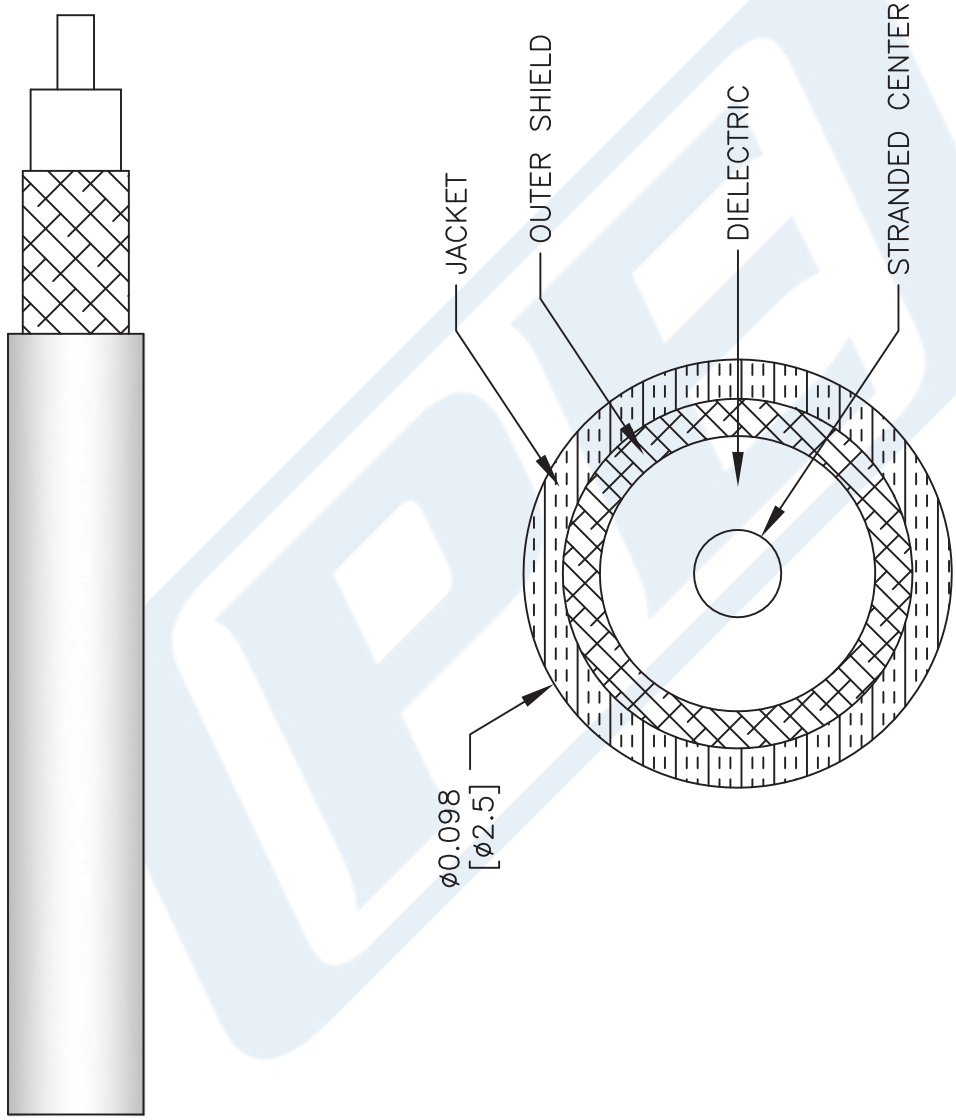
RG316/U CAD Drawing

Flexible RG316 Coax Cable Single Shielded with Tan FEP Jacket



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CAD FILE	SCALE	SIZE	
111716	N/A	A	41742

DWG TITLE: **RG316/U**

FSCM NO. 53919

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