SHV Plug Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195, LMR-195

PE4316

Configuration
- SHV Plug Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195, LMR-195

Features
- Max. Operating Frequency 300 MHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 30 µin minimum contact plating

Applications
- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4316 , SHV, Standard, Connector is part of our full line of RF components available for same-day shipping. Our SHV plug connector operates up to a maximum frequency of 300 MHz and offers good VSWR of 1.3:1.

Our SHV plug connector PE4316 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		300	MHz
VSWR			1.3:1	
Operating Voltage (AC)			1,400	Vrms
Impedance		50		Ohms

Electrical Specification Notes:
Max Operating Voltage is limited by the cable attached.

Mechanical Specifications

Size

Length	1.77 in [44.96 mm]
Width	0.571 in [14.50 mm]
Height	0 in [0 mm]
Weight	0.057 lbs [25.85 g]

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SHV Plug Connector Clamp/Solder Attachment for
RG58, RG55, RG141, RG142, RG223, RG400,
RG303, PE-C195, PE-P195, LMR-195

PE4316

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

Mechanical Specification Notes:
When attaching the connector to the cable use a clamp torque value of 26 to 30 in-lbs [2.94 to 3.39 Nm]

Environmental Specifications

Temperature
Operating Range   -65 to +165 deg C

Compliance Certifications (see product page for current document)
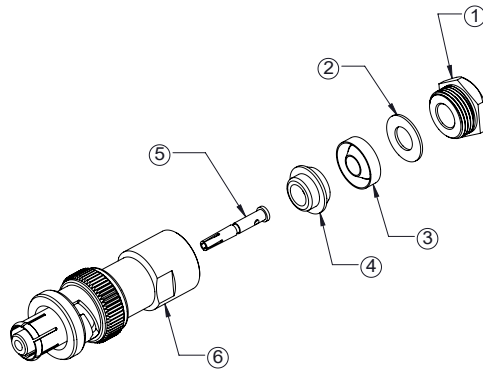
Plotted and Other Data

Notes:

SHV Plug Connector Clamp/Solder Attachment for
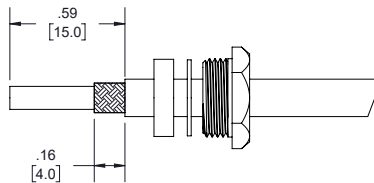RG58, RG55, RG141, RG142, RG223, RG400,
RG303, PE-C195, PE-P195, LMR-195
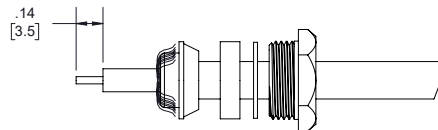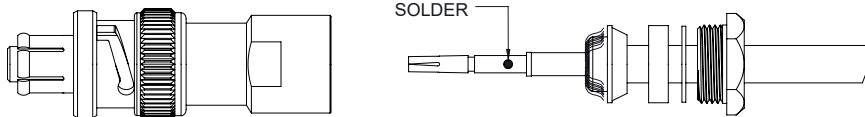
PE4316

Assembly Instruction

1.   SLIDE CLAMP NUT (1), WASHER (2) & GASKET (3) OVER CABLE. STRIP CABLE AS SHOWN. DO NOT NICK BRAID WHILE CUTTING JACKET. TAPER END OF BRAID TO PERMIT ASSEMBLY OF CLAMP.

.59
[15.0]

.16
[4.0]

2.   SLIDE BRAID CLAMP (4) OVER BRAID & SEAT AGAINST CABLE. FORM BRAID OVER CLAMP NUT (4). TRIM BRAID BACK TO SHOULDER. CUT DIELECTRIC & CENTER CONDUCTOR TO DIMENSION SHOWN. DO NOT NICK CENTER CONDUCTOR.

.14
[3.5]

3.   SOLDER CONTACT (5) TO CENTER CONDUCTOR. REMOVE EXCESS SOLDER. DO NOT OVER HEAT DIELECTRIC. INSERT CABLE ASSEMBLY INTO BODY (6) & TIGHTEN.

SOLDER

SHV Plug Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195, LMR-195

PE4316

SHV Plug Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195, LMR-195 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.
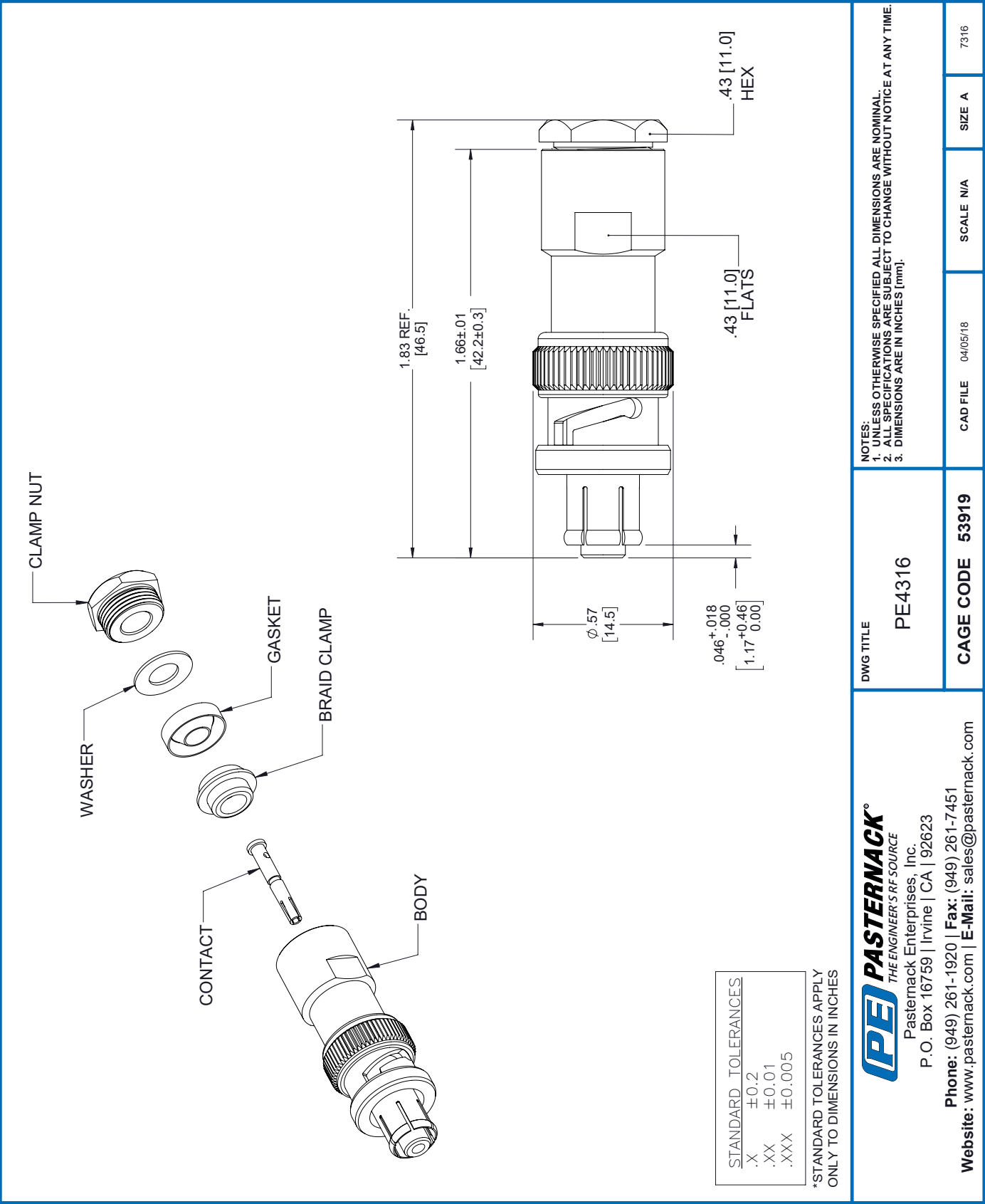
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SHV Plug Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195, LMR-195 PE4316

URL: https://www.pasternack.com/shv-plug-standard-rg58-rg55-rg141-rg142-rg223-rg400-connector-pe4316-p.aspx

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

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PE4316 CAD Drawing

SHV Plug Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195, LMR-195

.43 [11.0]
HEX

.43 [11.0]
FLATS

1.83 REF.
[46.5]

1.66±.01
[42.2±0.3]

Ø.57
[14.5]

.046 +.018 -.000
[1.17 +0.46 0.00]

CLAMP NUT

WASHER

GASKET

BRAID CLAMP

CONTACT

BODY

STANDARD TOLERANCES
.X   ±0.2
.XX   ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

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].

DWG TITLE
PE4316

CAGE CODE 53919

CAD FILE 04/05/18

SCALE N/A

SIZE A

7316

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PE4316

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		300	MHz
VSWR			1.3:1	
Operating Voltage (AC)			1,400	Vrms
Impedance		50		Ohms

Electrical Specification Notes:
Max Operating Voltage is limited by the cable attached.

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Size
Length   1.77 in [44.96 mm]
Width   0.571 in [14.50 mm]
Height   0 in [0 mm]
Weight   0.057 lbs [25.85 g]

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PE4316

Material Specifications

Description	Material	Plating
Contact	Brass	Gold
		30 µin minimum
Insulation	PTFE	
Body	Brass	Nickel
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Coupling Nut	Brass	Nickel
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Mechanical Specification Notes:
When attaching the connector to the cable use a clamp torque value of 26 to 30 in-lbs [2.94 to 3.39 Nm]

Environmental Specifications

Temperature
Operating Range   -65 to +165 deg C

Compliance Certifications (see product page for current document)
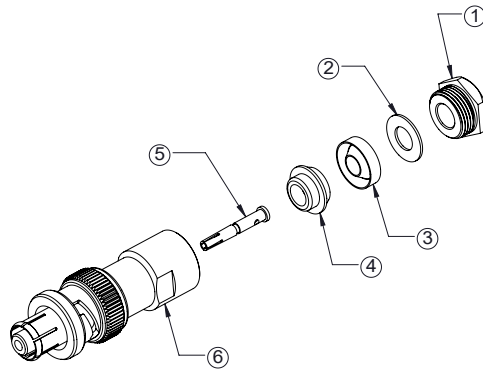
Plotted and Other Data

Notes:

SHV Plug Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195, LMR-195
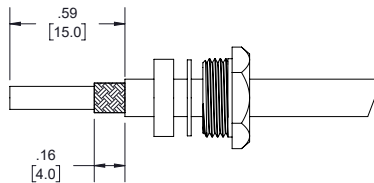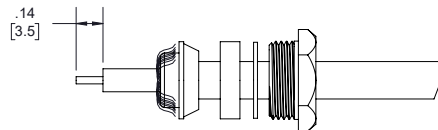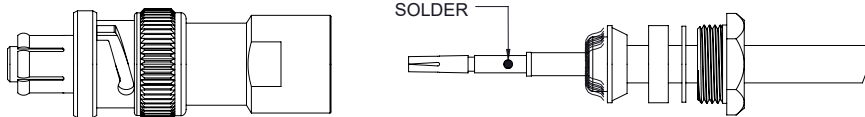
PE4316

Assembly Instruction

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.59 [15.0]

.16 [4.0]

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.14 [3.5]

3. SOLDER CONTACT (5) TO CENTER CONDUCTOR. REMOVE EXCESS SOLDER. DO NOT OVER HEAT DIELECTRIC. INSERT CABLE ASSEMBLY INTO BODY (6) & TIGHTEN.

SOLDER

SHV Plug Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195, LMR-195

PE4316

SHV Plug Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195, LMR-195 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.
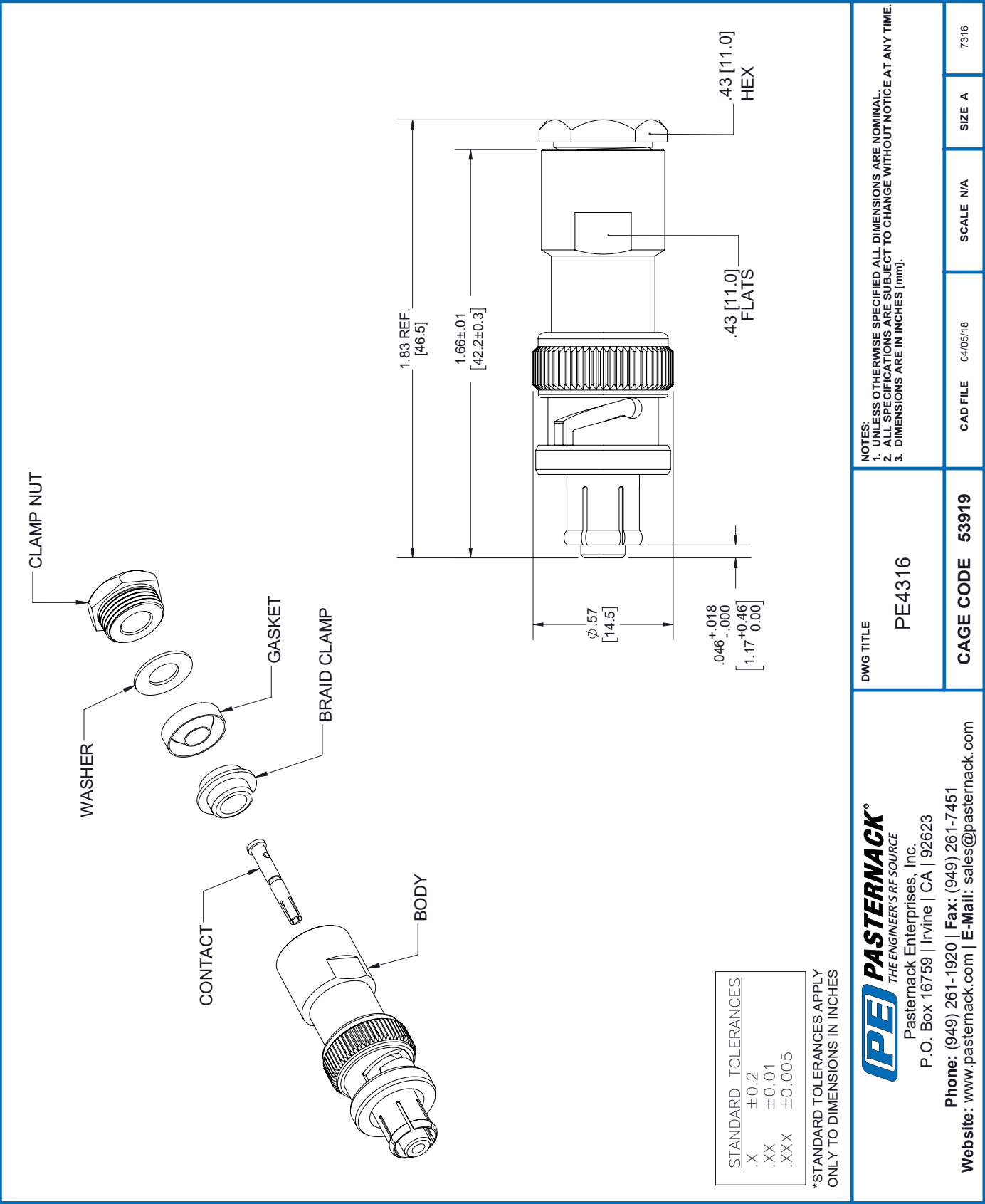
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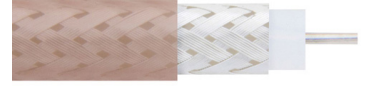
URL: https://www.pasternack.com/shv-plug-standard-rg58-rg55-rg141-rg142-rg223-rg400-connector-pe4316-p.aspx

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PE4316 CAD Drawing

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.43 [11.0]
HEX

.43 [11.0]
FLATS

1.83 REF.
[46.5]

1.66±.01
[42.2±0.3]

Ø.57
[14.5]

.046 +.018 / -.000
[1.17 +0.46 / 0.00]

CLAMP NUT

WASHER

GASKET

BRAID CLAMP

CONTACT

BODY

STANDARD TOLERANCES
.X   ±0.2
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.XXX ±0.005

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DWG TITLE			
PE4316	CAD FILE 04/05/18	SCALE N/A	SIZE A
CAGE CODE 53919			7316

Flexible RG303 Coax Cable Single Shielded with Tan FEP Jacket

RF Cables
Technical Data Sheet

RG303/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		69		%
Dielectric Withstanding Voltage (AC)			5,000	Vrms
Nominal Capacitance		32 [104.99]		pF/ft [pF/m]
Power@ 1GHz			650	Watts

Performance by Frequency Band

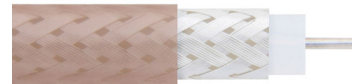| Description	F1	F2	F3	F4	F5	Units
Frequency	400					MHz
Attenuation, Typ	8.6					dB/100ft
	28.22					dB/100m

Mechanical Specifications

Diameter   0.17 in [4.32 mm}

Weight   0.027 lbs/ft [0.04 kg/m]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strand	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.116 in [2.95 mm]
First Shield	Silver Plated Copper Braid	0.146 in [3.71 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG303 Coax Cable Single Shielded with Tan FEP Jacket RG303/U

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Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

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Flexible RG303 Coax Cable Single Shielded with Tan FEP Jacket

RF Cables
Technical Data Sheet   RG303/U

Jacket	FEP, Tan	0.17 in [4.32 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 RG303 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.
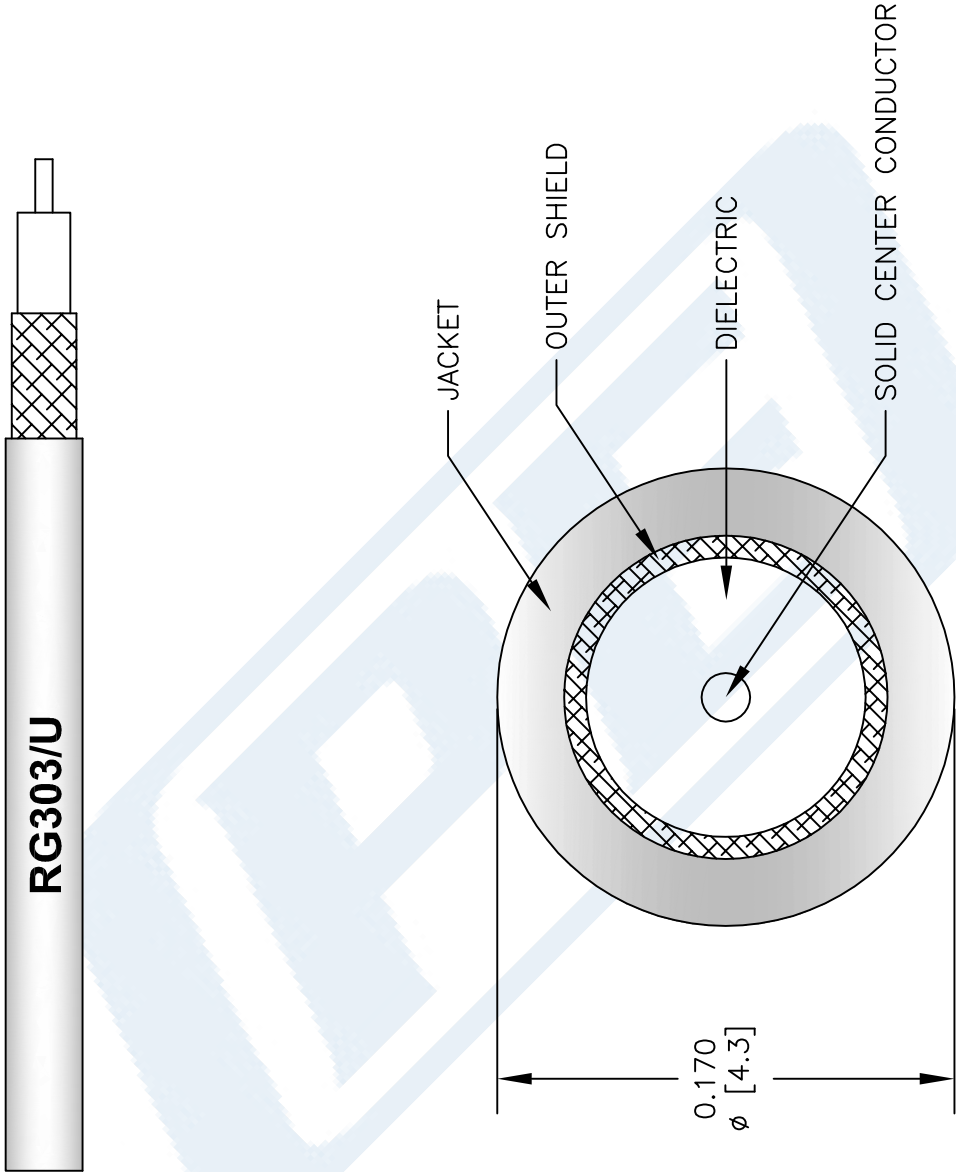
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG303 Coax Cable Single Shielded with Tan FEP Jacket RG303/U

URL: https://www.pasternack.com/flexible-0.170-rg303-50-ohm-coax-cable-fep-jacket-rg303-u-p.aspx

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RG303/U CAD Drawing

Flexible RG303 Coax Cable Single Shielded with Tan FEP Jacket

RG303/U

JACKET

OUTER SHIELD

DIELECTRIC

SOLID CENTER CONDUCTOR

0.170 Ø [4.3]

		147
	SIZE A	
	SCALE N/A	
CAD FILE 022908-A		
DWG TITLE **RG303/U**		
FSCM NO. 53919	REV. A	

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RG303/U REV 1.1

3