

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



PE4498

Configuration

- SHV Plug Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch

Features

- Max. Operating Frequency 300 MHz
- Good VSWR of 1.5:1
- Gold Plated Brass Contact
- 30 μ m minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4498 , 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 1.5:1.

Our SHV plug connector PE4498 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			1.5:1	
Operating Voltage (AC)			1,100	Vrms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	1.83 in [46.48 mm]
Width	0.571 in [14.50 mm]
Weight	0.06 lbs [27.22 g]

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



PE4498

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 16 in-lbs [1.81 Nm]

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

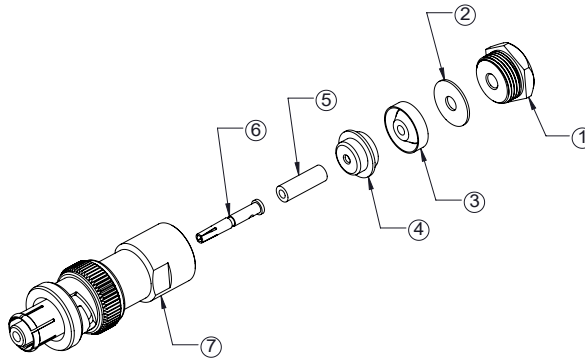
Notes:

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

PE4498

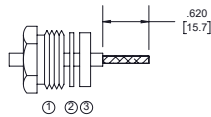


Assembly Instruction

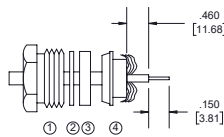


ASSEMBLY PROCEDURES

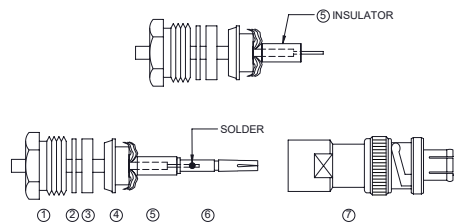
1. SLIDE CLAMP NUT (1), THINNER WASHER (2) & GASKET (3) OVER CABLE. STRIP CABLE AS SHOWN. DO NOT NICK BRAID WHILE CUTTING JACKET. TAPER END OF BRAID TO PERMIT ASSEMBLY OF CLAMP.



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



3. SLIDE INSULATOR (5) AGAINST THE BRAID CLAMP. SOLDER CONTACT (6) TO CENTER CONDUCTOR. REMOVE EXCESS SOLDER. DO NOT OVER HEAT DIELECTRIC. INSERT CABLE ASSEMBLY INTO BODY (7) & TIGHTEN WITH RECOMMENDED TORQUE: 16 in-lbs.



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



PE4498

SHV Plug Connector Clamp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch 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 RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch PE4498](https://www.pasternack.com/shv-plug-standard-rg174-rg316-rg188-connector-pe4498-p.aspx)

URL: <https://www.pasternack.com/shv-plug-standard-rg174-rg316-rg188-connector-pe4498-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 implement 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.

PE4498 CAD Drawing

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

REVISIONS		
REV.	DESCRIPTION	DATE
A	PCR PE4498	6/19/2020
		APPROVED SELLIS

$1.661 \pm .012$
 [42.19 ± 0.30]

$\phi .571$
 [14.50]

$\phi .118$
 [3.00]

11mm FLATS

11mm HEX

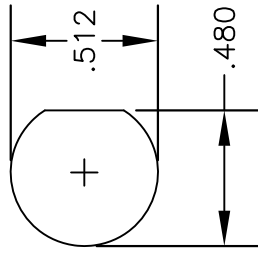
THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table style="width: 100%;"> <tr> <td>.X = ±.2 [5.08]</td> <td>FRACTIONS ±.132</td> </tr> <tr> <td>.XX = ±.02 [5.1]</td> <td>ANGLES ± 1°</td> </tr> <tr> <td>.XXX = ±.005 [13]</td> <td></td> </tr> </table> <p>CABLE LENGTH (L) TOLERANCES:</p> <table style="width: 100%;"> <tr> <td>L ≤ 12 [305] = +1 [25] / -0</td> </tr> <tr> <td>12 [305] < L ≤ 60 [1524] = +2 [51] / -0</td> </tr> <tr> <td>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0</td> </tr> <tr> <td>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0</td> </tr> <tr> <td>300 [7620] < L = +9.5%L / -0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	.X = ±.2 [5.08]	FRACTIONS ±.132	.XX = ±.02 [5.1]	ANGLES ± 1°	.XXX = ±.005 [13]		L ≤ 12 [305] = +1 [25] / -0	12 [305] < L ≤ 60 [1524] = +2 [51] / -0	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0	120 [3048] < L ≤ 300 [7620] = +6 [152] / -0	300 [7620] < L = +9.5%L / -0	<p>PE PASTERNAK an INFINITO brand</p> <p>Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com</p> <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN CONTAINED HEREIN IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 2</p> <p>SCALE N/A</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SIZE</td> <td>CAGE CODE</td> <td>DRAWN BY</td> <td>ITEM NO.</td> </tr> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">53919</td> <td style="text-align: center;">K. DANG</td> <td style="text-align: center;">PE4498</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">REV A</td> </tr> </table>	SIZE	CAGE CODE	DRAWN BY	ITEM NO.	A	53919	K. DANG	PE4498				REV A
.X = ±.2 [5.08]	FRACTIONS ±.132																								
.XX = ±.02 [5.1]	ANGLES ± 1°																								
.XXX = ±.005 [13]																									
L ≤ 12 [305] = +1 [25] / -0																									
12 [305] < L ≤ 60 [1524] = +2 [51] / -0																									
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0																									
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0																									
300 [7620] < L = +9.5%L / -0																									
SIZE	CAGE CODE	DRAWN BY	ITEM NO.																						
A	53919	K. DANG	PE4498																						
			REV A																						

T-Rev D

MATERIALS

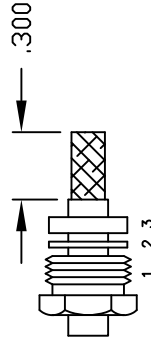
BODY	BRASS NICKEL PLATED
CONTACT	GOLD PLATED
INSULATOR	PTFE



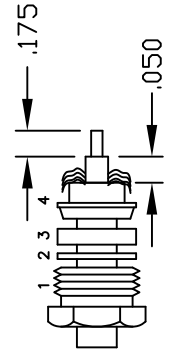
MOUNTING HOLE

ASSEMBLY PROCEDURES

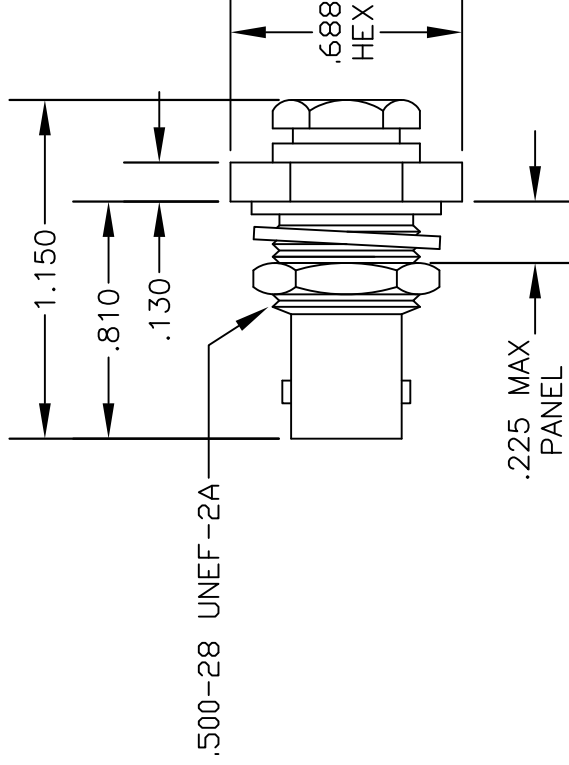
1. SLIDE CLAMP NUT (1), WASHER (2) & GASKET (3) OVER CABLE. STRIP CABLE AS SHOWN. DO NOT NICK BRAID WHILE CUTTING JACKET. TAPER END OF BRAID TO PERMIT ASSEMBLY OF BRAID CLAMP (4). SLIDE BRAID CLAMP (4) OVER BRAID & SEAT AGAINST CABLE.



2. FORM BRAID OVER CLAMP NUT (4). TRIM BRAID BACK TO SHOULDER. CUT DIELECTRIC & CENTER CONDUCTOR TO DIMENSION SHOWN. DO NOT NICK CENTER CONDUCTOR. SOLDER CONTACT TO CENTER CONDUCTOR. REMOVE EXCESS SOLDER. DO NOT OVER HEAT DIELECTRIC. INSERT CABLE ASSEMBLY INTO BODY & TIGHTEN.



NOTE: INSERT PTFE BEFORE CONTACT. WITH OPEN END SLIDE OVER CENTER CONDUCTOR RESTING AGAINST DIELECTRIC.



.500-28 UNEF-2A



PASTERNAK ENTERPRISES, INC.
 P.O. BOX 16759, IRVINE, CA 92623
 PHONE (949) 261-1920 FAX (949) 261-7451
 WEB ADDRESS: www.pasternack.com
 E-MAIL ADDRESS: sales@pasternack.com
COAXIAL & FIBER OPTICS

DWG TITLE
PE4319

DES. BNC FEMALE, BULKHEAD, CLAMP ATTACHMENT FOR RG174, RG188 & RG316

REV. A	FSCM NO. 53919	CAD FILE 042210	SCALE N/A	SIZE A	147
--------	----------------	-----------------	-----------	--------	-----

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.



Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket

RF Cables Technical Data Sheet

Times Microwave Systems Coax Cable Specification Configuration

- Flexible Cable
- 1 Shield(s)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
Impedance		50		Ohms
Velocity of Propagation		66		%
Nominal Capacitance		31.08 [101.97]		pF/ft [pF/m]
Power@ 1GHz			17	Watts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	100	400	1,000			MHz
Attenuation, Typ	8.4	19	32			dB/100ft dB/100m
	27.56	62.34	104.99			

Mechanical Specifications

Diameter	0.11 in [2.79 mm]
Weight	0.009 lbs/ft [0.01 kg/m]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, 7 Strands	0.019 in [0.48 mm]
Conductor Type	Stranded	
Dielectric	PE	0.06 in [1.52 mm]
First Shield	Tinned Copper Braid	0.078 in [1.98 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket RG174A/U](#)



Flexible RG174 Coax Cable Single
Shielded with Black PVC Jacket

RF Cables
Technical Data Sheet

Jacket	PVC, Black	0.11 in [2.79 mm]
--------	------------	-------------------

Environmental Specifications

Temperature

Operating Range -40 to +80 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Flexible RG174 Coax Cable Single Shielded with Black PVC 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 RG174 Coax Cable Single Shielded with Black PVC Jacket RG174A/U](#)

URL: <https://www.pasternack.com/flexible-0.100-rg174-50-ohm-coax-cable-pvc-jacket-rg174a-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.



NOTE:

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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



Pasternack Enterprises, Inc.
 P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | **Fax:** (949) 261-7451
Website: www.pasternack.com | **E-Mail:** sales@pasternack.com

DWG TITLE

RG174A/U

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].

CAGE CODE 53919

CAD FILE 05/25/18

SCALE N/A

SIZE A

7361