

SHV Plug to SHV Plug Cable Using RG214 Coax with HeatShrink



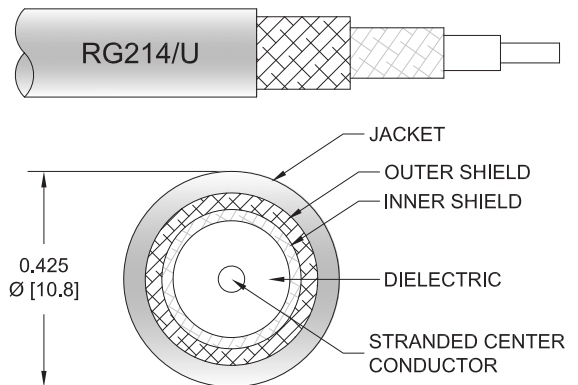
PE3117/HS

Configuration

- Connector 1: SHV Plug
- Connector 2: SHV Plug
- Cable Type: RG214
- Coax Flex Type: Flexible

Features

- Max Frequency 300 MHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3117/HS SHV plug to SHV plug cable using RG214 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SHV to SHV cable assembly has a plug to plug gender configuration with 50 ohm flexible RG214 coax. The PE3117/HS SHV plug to SHV plug cable assembly operates to 300 MHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		300	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			3,500	Vrms

Specifications by Frequency

SHV Plug to SHV Plug Cable Using RG214 Coax with HeatShrink



PE3117/HS

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	50	100	250	300	MHz	
PE3117/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.012	0.021	0.03	0.033	dB/ft	
			0.04	0.07	0.1	0.11	dB/m	
PE3117/HS-12	12 inch	Insertion Loss (Typ.)	0.22	0.23	0.24	0.24	dB	0.23
PE3117/HS-36	36 inch	Insertion Loss (Typ.)	0.24	0.27	0.3	0.3	dB	0.487
PE3117/HS-48	48 inch	Insertion Loss (Typ.)	0.25	0.29	0.33	0.34	dB	0.615
PE3117/HS-72	72 inch	Insertion Loss (Typ.)	0.28	0.33	0.39	0.4	dB	0.871
PE3117/HS-108	108 inch	Insertion Loss (Typ.)	0.31	0.39	0.48	0.5	dB	1.255

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.23 pounds
Additional Weight per Inch:	0.01067 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.102 lbs [46.27 g]

Cable

Cable Type	RG214
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.425 in [10.8 mm]
Repeated Minimum Bend Radius	1.6 in [40.64 mm]

SHV Plug to SHV Plug Cable Using RG214 Coax with HeatShrink



PE3117/HS

Connectors

Description	Connector 1	Connector 2
Type	SHV Plug	SHV Plug
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum

Environmental Specifications

Operating Range Temperature -20 to +80 deg C

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

Plotted and Other Data

Notes:

SHV Plug to SHV Plug Cable Using RG214 Coax with HeatShrink



PE3117/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3117/HS - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3117/HS-12 = 12 inches long cable
PE3117/HS-100cm = 100 cm long cable

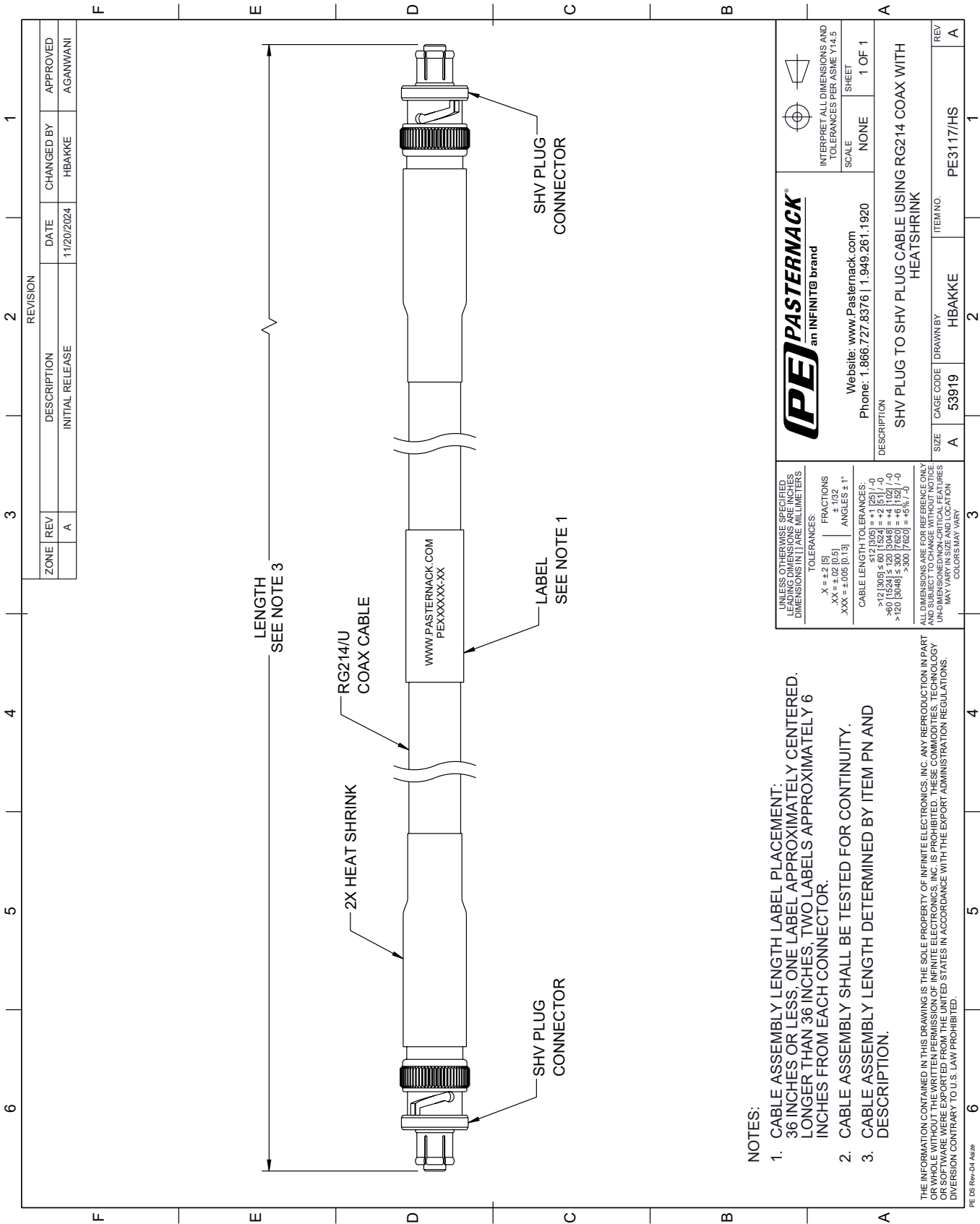
SHV Plug to SHV Plug Cable Using RG214 Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SHV Plug to SHV Plug Cable Using RG214 Coax with HeatShrink PE3117/HS](#)

URL: <https://www.pasternack.com/shv-plug-to-shv-plug-cable-using-rg214-with-heatshrink-pe3117-hs-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.

PE3117/HS CAD Drawing
SHV Plug to SHV Plug Cable Using RG214 Coax with HeatShrink



- NOTES:
- 1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
 - 2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
 - 3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE NOT EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

PE DS Rev-D4 Adda