

## SHV Plug to SHV Plug Cable Using RG303HV Coax with HeatShrink



### PE3W16872/HS

#### Configuration

- Connector 1: SHV Plug
- Connector 2: SHV Plug
- Cable Type: RG303HV
- Coax Flex Type: Flexible

#### Features

- Max Frequency 300 MHz
- FEP Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W16872/HS SHV plug to SHV plug cable using RG303HV 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 RG303HV coax. The PE3W16872/HS SHV plug to SHV plug cable assembly operates to 300 MHz.

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	
Capacitance		308.4 [1,011.81]		pF/ft [pF/m]

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	50	100	250	300	
PE3W16872/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.024	0.031	0.052	0.059	dB/ft	
			0.08	0.11	0.18	0.2	dB/m	
PE3W16872/HS-12	12 inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.26	dB	0.097
PE3W16872/HS-24	24 inch	Insertion Loss (Typ.)	0.25	0.27	0.31	0.32	dB	0.124
PE3W16872/HS-36	36 inch	Insertion Loss (Typ.)	0.28	0.3	0.36	0.38	dB	0.151
PE3W16872/HS-48	48 inch	Insertion Loss (Typ.)	0.3	0.33	0.41	0.44	dB	0.178
PE3W16872/HS-60	60 inch	Insertion Loss (Typ.)	0.32	0.36	0.46	0.5	dB	0.205

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:	0.097 pounds
Additional Weight per Inch:	0.00225 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.07 lbs [31.75 g]

#### Cable

Cable Type	RG303HV
Impedance	50 Ohms
Inner Conductor Material and Plating	Silver, Copper Clad Aluminum
Dielectric Type	FEP
Number of Shields	1
Shield Layer 1	Silver Plated Copper Braid
Jacket Material	FEP, Red
Jacket Diameter	0.169 in [4.29 mm]
Repeated Minimum Bend Radius	0.788 in [20.02 mm]

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#### 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 -65 to +165 deg C

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

#### Plotted and Other Data

Notes:

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### PE3W16872/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3W16872/HS - xx uu**



Example: PE3W16872/HS-12 = 12 inches long cable  
PE3W16872/HS-100cm = 100 cm long cable

SHV Plug to SHV Plug Cable Using RG303HV 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 RG303HV Coax with HeatShrink PE3W16872/HS](https://www.pasternack.com/shv-plug-to-shv-plug-cable-using-rg303hv-with-heatshrink-pe3w16872-hs)

URL: <https://www.pasternack.com/shv-plug-to-shv-plug-cable-using-rg303hv-with-heatshrink-pe3w16872-hs-p.aspx>

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# PE3W16872/HS CAD Drawing

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