

SHV Plug to SHV Plug Right Angle Cable Using 75 Ohm RG59 Coax



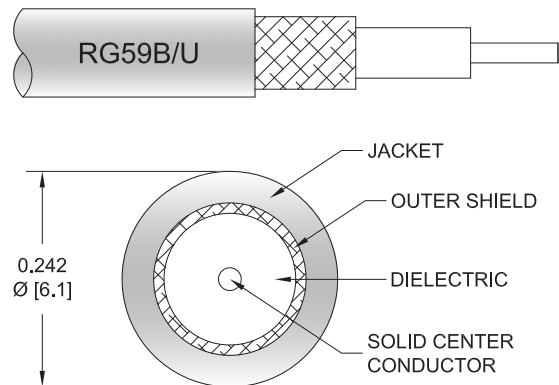
PE3C1972

Configuration

- Connector 1: SHV Plug
- Connector 2: SHV Plug Right Angle
- Cable Type: RG59
- Coax Flex Type: Flexible

Features

- Max Frequency 300 MHz
- 66% Phase Velocity
- PVC (NC) Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C1972 SHV plug to SHV plug right angle cable using 75 ohm RG59 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 75 ohm flexible RG59 coax. The PE3C1972 SHV plug to SHV plug cable assembly operates to 300 MHz. The right angle SHV interface on the RG59 cable allows for easier connections in tight spaces.

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		20.4 [66.93]		pF/ft [pF/m]
Operating Voltage (AC)			2,300	V _{rms}

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	50	100	250	300	
PE3C1972	Custom Lengths Available	Insertion Loss (Typ.)	0.024	0.032	0.054	0.059	dB/ft	
			0.08	0.11	0.18	0.2	dB/m	
PE3C1972-12	12 In	Insertion Loss (Typ.)	0.33	0.34	0.36	0.36	dB	0.133
PE3C1972-24	24 In	Insertion Loss (Typ.)	0.35	0.37	0.41	0.42	dB	0.169
PE3C1972-36	36 In	Insertion Loss (Typ.)	0.38	0.4	0.47	0.48	dB	0.205
PE3C1972-60	60 In	Insertion Loss (Typ.)	0.42	0.46	0.57	0.6	dB	0.277
PE3C1972-72	72 In	Insertion Loss (Typ.)	0.45	0.5	0.63	0.66	dB	0.313

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:	0.2 dB
Base Weight:	0.133 pounds
Additional Weight per Inch:	0.003 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.26 lbs [117.93 g]

Cable

Cable Type	RG59
Impedance	75 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Copper Braid
Jacket Material	PVC (NC), Black
Jacket Diameter	0.242 in [6.15 mm]

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Connectors

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

Environmental Specifications

Operating Range Temperature -25 to +70 deg C

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

Plotted and Other Data

Notes:

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PE3C1972

Typical Performance Data

How to Order

Part Number Configuration:

PE3C1972

- xx

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C1972-12 = 12 inches long cable
PE3C1972-100cm = 100 cm long cable

SHV Plug to SHV Plug Right Angle Cable Using 75 Ohm RG59 Coax 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 Right Angle Cable Using 75 Ohm RG59 Coax PE3C1972](#)

URL: <https://www.pasternack.com/shv-plug-to-shv-plug-cable-using-rg59-pe3c1972-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.

PE3C1972 CAD Drawing

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