

SHV Plug to SHV Plug Right Angle Cable Using RG142 Coax



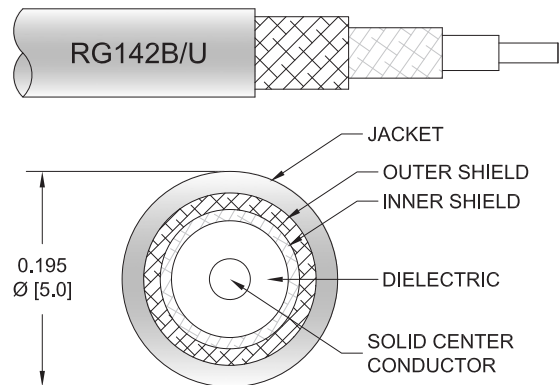
PE3C0609

Configuration

- Connector 1: SHV Plug
- Connector 2: SHV Plug Right Angle
- Cable Type: RG142
- Coax Flex Type: Flexible

Features

- Max Frequency 300 MHz
- Shielding Effectivity > 70 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0609 SHV plug to SHV plug right angle cable using RG142 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 RG142 coax. The PE3C0609 SHV plug to SHV plug cable assembly operates to 300 MHz. The right angle SHV interface on the RG142 cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 70 dB.

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	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	70			dB
Capacitance		96.45 [316.44]		pF/ft [pF/m]
DC Resistance Inner Conductor		65 [213.25]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		9 [29.53]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			1,400	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	Units	Weight (lbs)
		Frequency	100	250	300	MHz	
PE3C0609	Custom Lengths Available	Insertion Loss (Typ.)	0.04	0.06	0.065	dB/ft	
			0.13	0.2	0.22	dB/m	
PE3C0609-12	12 inch	Insertion Loss (Typ.)	0.34	0.36	0.37	dB	0.131
PE3C0609-24	24 inch	Insertion Loss (Typ.)	0.38	0.42	0.43	dB	0.173
PE3C0609-36	36 inch	Insertion Loss (Typ.)	0.42	0.48	0.5	dB	0.215
PE3C0609-48	48 inch	Insertion Loss (Typ.)	0.46	0.54	0.56	dB	0.257
PE3C0609-60	60 inch	Insertion Loss (Typ.)	0.5	0.6	0.63	dB	0.299

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:	0.131 pounds
Additional Weight per Inch:	0.0035 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.131 lbs [59.42 g]

Cable

Cable Type	RG142
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.195 in [4.95 mm]
One Time Minimum Bend Radius	0.98 in [24.89 mm]
Repeated Minimum Bend Radius	1.97 in [50.04 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SHV Plug	SHV Plug Right Angle
Specification		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	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Tinned Copper
Body Plating Specification	100 µin minimum	
Coupling Nut Material and Plating		Brass, Tinned Copper
Hex Size		7/16 Inch

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

Plotted and Other Data

Notes:

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PE3C0609

Typical Performance Data

How to Order

Part Number Configuration:

PE3C0609

- xx

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C0609-12 = 12 inches long cable
PE3C0609-100cm = 100 cm long cable

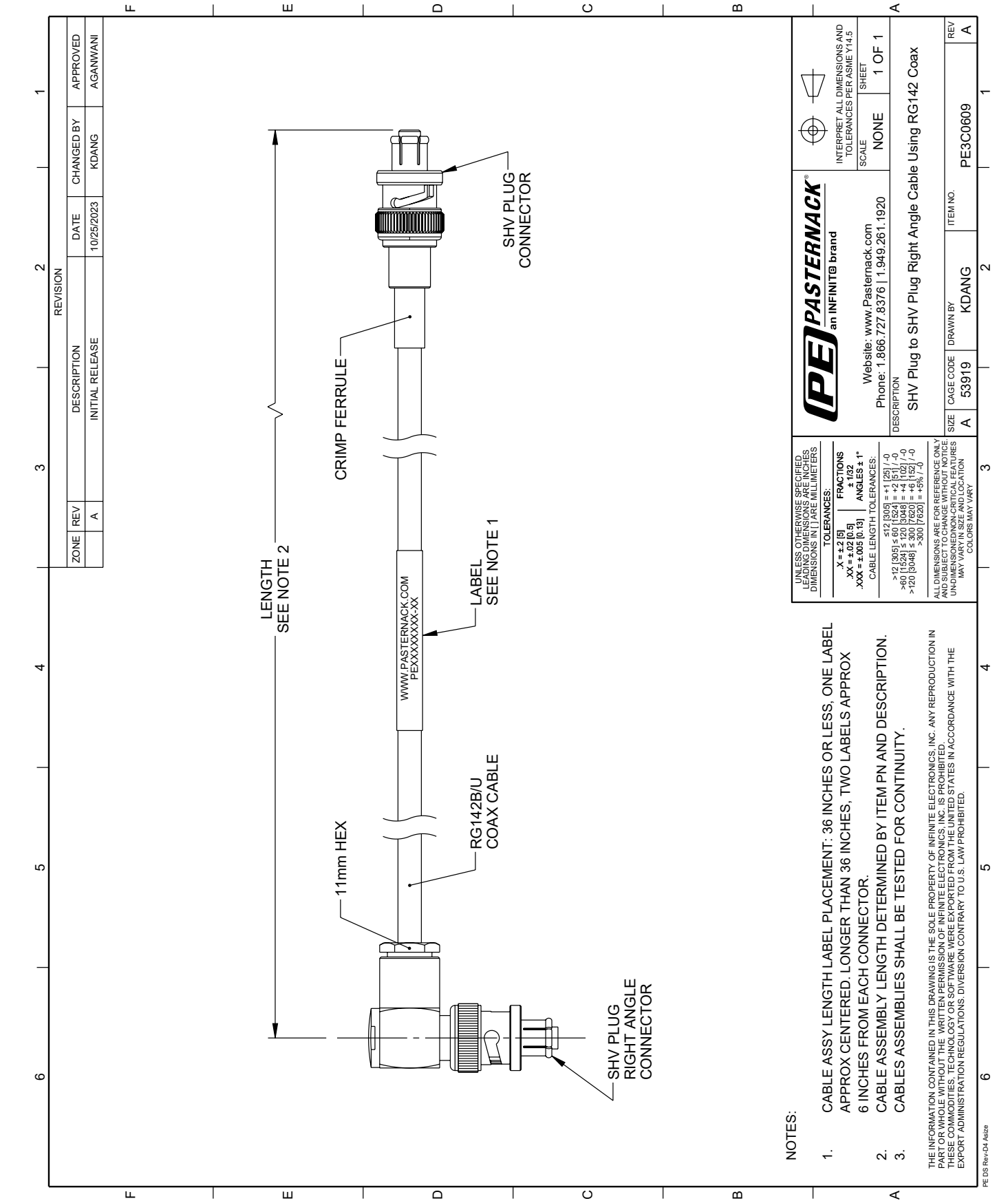
SHV Plug to SHV Plug Right Angle Cable Using RG142 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 RG142 Coax PE3C0609](#)

URL: <https://www.pasternack.com/shv-plug-to-shv-plug-cable-using-rg142-pe3c0609-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.

PE3C0609 CAD Drawing
SHV Plug to SHV Plug Right Angle Cable Using RG142 Coax



UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.		PE PASTERNAK an INFINITI® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES: X = ± 2 [5] .XX = ± 0.02 [0.5] .XXX = ± 0.005 [0.13]		FRACTIONS ± 1/32 ANGLES ± 1°		SCALE NONE	
CABLE LENGTH TOLERANCES: ≤ 12 [305] ≤ 60 [1524] = +2 [51] / -0 > 60 [1524] ≤ 120 [3048] = +4 [102] / -0 > 120 [3048] ≤ 300 [7620] = +5% [-7.5]		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SHEET 1 OF 1	
DESCRIPTION SHV Plug to SHV Plug Right Angle Cable Using RG142 Coax					
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.					
REV A					
PE3C0609					
ITEM NO.					
KDANG					
DRAWN BY					
53919					
CAGE CODE					
A					
SIZE					

NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.

2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

3. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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