



SHV Plug Right Angle to SHV Plug Right Angle
Cable Using RG214 Coax

RF Cable Assemblies Technical Data Sheet

PE3C9505

Configuration

- Connector 1: SHV Plug Right Angle
- Connector 2: SHV Plug Right Angle
- Cable Type: RG214

Features

- Recessed contacts prevent shock hazards
- Max Frequency 300 MHz
- Shielding Effectivity > 45 dB
- 66% Phase Velocity
- PVC Jacket
- Dielectric withstanding of 5kV
- Shock, Moisture & Corrosion resistant

Applications

- General Purpose
- Laboratory Use
- Nuclear Instrumentation
- High Voltage Electrical Transmission
- Semiconductor Test

Description

Pasternack's PE3C9505 SHV plug right angle to SHV plug right angle 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 such as nuclear instrumentation and semiconductor testing, where transmission of high voltage signals over coax is required. This Pasternack SHV to SHV cable assembly has a plug to plug gender configuration with 50 ohm flexible RG214 coax. The PE3C9505 SHV plug to SHV plug cable assembly operates to 300 MHz. The right angle SHV interfaces on the RG214 cable allow for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness. Safety High Voltage (SHV) connectors are designed to allow signal transmission with high voltage ratings without safety risk for the operators. Both the pin and socket contacts are securely recessed inside the insulation to guard against potential electrical shock when live unmated connectors are handled.

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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SHV Plug Right Angle to SHV Plug Right Angle Cable Using RG214 Coax PE3C9505](#)



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Electrical Specifications

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

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	300			MHz
Insertion Loss (Typ.)	0.02	0.029	0.032			dB/ft
	0.07	0.1	0.1			dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.29 lbs [131.54 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]

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Connectors

Description	Connector 1	Connector 2
Type	SHV Plug Right Angle	SHV Plug Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold over Nickel over copper	Brass, Gold over Nickel over copper
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tinned Copper	Brass, Tinned Copper
Coupling Nut Material and Plating	Brass, Tinned Copper	Brass, Tinned Copper

Environmental Specifications

Temperature

Operating Range

-20 to +80 deg C

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3C9505

- **xx**

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

Example: PE3C9505-12 = 12 inches long cable
PE3C9505-100cm = 100 cm long cable

SHV Plug Right Angle to SHV Plug Right Angle Cable Using RG214 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 Right Angle to SHV Plug Right Angle Cable Using RG214 Coax PE3C9505](#)

URL: <https://www.pasternack.com/shv-plug-right-angle-to-shv-plug-cable-using-rg214-pe3c9505-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.

PE3C9505 CAD Drawing

SHV Plug Right Angle to SHV Plug Right Angle Cable Using RG214 Coax

