



## SHV Plug to SHV Plug Cable 24 Inch Length Using RG214 Coax

### RF Cable Assemblies Technical Data Sheet

PE3117-24

#### Configuration

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

#### Features

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

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3117-24 SHV plug to SHV plug 24 inch 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 PE3117-24 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.

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 24 Inch Length Using RG214 Coax PE3117-24](#)



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#### Electrical Specifications

| Description             | Minimum | Typical       | Maximum | Units        |
|-------------------------|---------|---------------|---------|--------------|
| Frequency Range         | DC      |               | 300     | MHz          |
| VSWR                    |         |               | 1.5:1   |              |
| 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             | 50    | 100   | 250   | 300   |    | MHz   |
| Insertion Loss (Max.) | 0.226 | 0.241 | 0.26  | 0.266 |    | dB    |
| Insertion Loss (Typ.) | 0.22  | 0.24  | 0.258 | 0.264 |    | dB    |

#### Mechanical Specifications

##### Cable Assembly

|          |                      |
|----------|----------------------|
| Length*  | 24 in [609.6 mm]     |
| Diameter | 0.57 in [14.48 mm]   |
| Weight   | 0.365 lbs [165.56 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        | SHV Plug        |
| Specification                      | MIL-STD-348A    | MIL-STD-348A    |
| Impedance                          | 50 Ohms         | 50 Ohms         |
| 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

##### Temperature

Operating Range

-20 to +80 deg C

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

#### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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### RF Cable Assemblies Technical Data Sheet

PE3117-24

#### How to Order

Part Number Configuration:

PE3117

- xx

uu

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

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

SHV Plug to SHV Plug Cable 24 Inch Length 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 to SHV Plug Cable 24 Inch Length Using RG214 Coax PE3117-24](#)

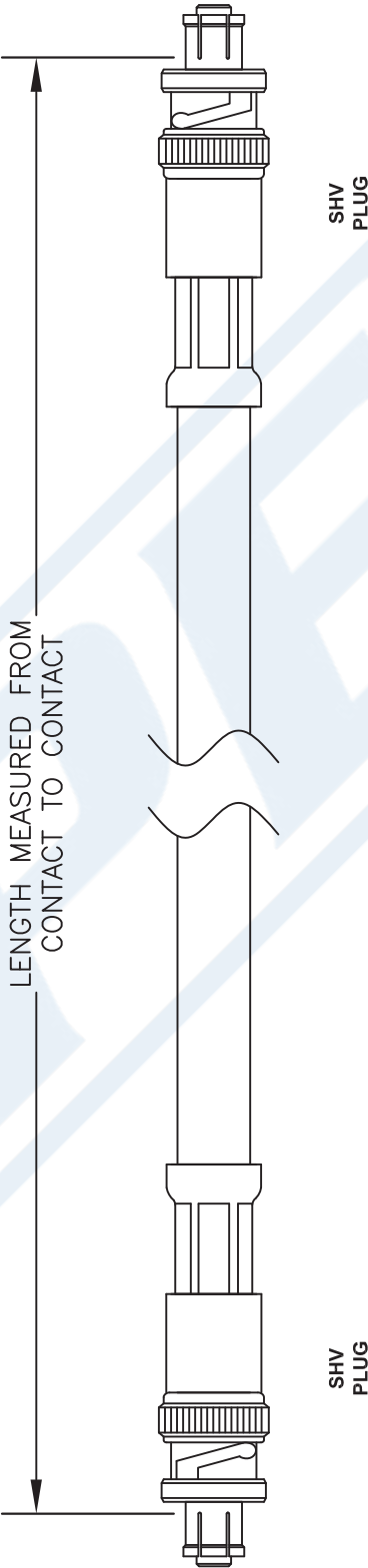
URL: <https://www.pasternack.com/shv-plug-shv-plug-rg214u-cable-assembly-pe3117-24-p.aspx>

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.

PE3117-24 CAD Drawing

SHV Plug to SHV Plug Cable 24 Inch Length Using RG214 Coax

| Standard Lengths |                         |
|------------------|-------------------------|
| -12              | 12"                     |
| -24              | 24"                     |
| -36              | 36"                     |
| -48              | 48"                     |
| -60              | 60"                     |
| -XXX             | Custom Length in Inches |



NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].  
4. LENGTH TOLERANCE IS  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

DWG TITLE  
**PE3117-XX**

|        |                |                 |           |        |     |
|--------|----------------|-----------------|-----------|--------|-----|
| REV. - | FSCM NO. 53919 | CAD FILE 020108 | SCALE N/A | SIZE A | 127 |
|--------|----------------|-----------------|-----------|--------|-----|

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