

## SHV Plug to SHV Plug Cable Using RG58 Coax



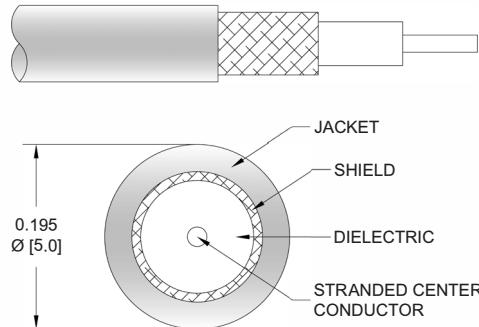
### PE3W00034

#### Configuration

- Connector 1: SHV Plug
- Connector 2: SHV Plug
- Cable Type: RG58
- Coax Flex Type: Flexible

#### Features

- Max Frequency 300 MHz
- Shielding Effectivity > 45 dB
- 65.9% Phase Velocity
- PVC (NC) Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W00034 SHV plug to SHV plug cable using RG58 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 RG58 coax. The PE3W00034 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     | GHz          |
| VSWR                    |         |               | 1.4:1   |              |
| Velocity of Propagation |         | 65.9          |         | %            |
| RF Shielding            | 45      |               |         | dB           |
| Capacitance             |         | 30.8 [101.05] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |               | 1,900   | Vrms         |

#### Specifications by Frequency

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| Part Number     | Length                   | Description           | F1    | F2    | F3    | F4    | Units | Weight (lbs) |
|-----------------|--------------------------|-----------------------|-------|-------|-------|-------|-------|--------------|
|                 |                          | Frequency             | 50    | 100   | 250   | 300   | MHz   |              |
| PE3W00034       | Custom Lengths Available | Insertion Loss (Typ.) | 0.029 | 0.049 | 0.074 | 0.082 | dB/ft |              |
|                 |                          |                       | 0.1   | 0.17  | 0.25  | 0.27  | dB/m  |              |
| PE3W00034-12    | 12 in                    | Insertion Loss (Typ.) | 0.23  | 0.25  | 0.28  | 0.29  | dB    | 0.138        |
| PE3W00034-24    | 24 in                    | Insertion Loss (Typ.) | 0.26  | 0.3   | 0.35  | 0.37  | dB    | 0.162        |
| PE3W00034-36    | 36 in                    | Insertion Loss (Typ.) | 0.29  | 0.35  | 0.43  | 0.45  | dB    | 0.186        |
| PE3W00034-48    | 48 in                    | Insertion Loss (Typ.) | 0.32  | 0.4   | 0.5   | 0.53  | dB    | 0.21         |
| PE3W00034-200CM | 200 CM                   | Insertion Loss (Typ.) | 0.4   | 0.53  | 0.69  | 0.74  | dB    | 0.272        |

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: 0.138 pounds  
Additional Weight per Inch: 0.002 pounds

## Mechanical Specifications

### Cable Assembly

Width/Diameter 0.5 in [12.7 mm]  
Weight 0.138 lbs [62.6 g]

### Cable

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | RG58                |
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Stranded            |
| Inner Conductor Material and Plating | Copper, Tin         |
| Dielectric Type                      | PE                  |
| Number of Shields                    | 1                   |
| Shield Layer 1                       | Tinned Copper Braid |
| Jacket Material                      | PVC (NC), Black     |
| Jacket Diameter                      | 0.195 in [4.95 mm]  |
| One Time Minimum Bend Radius         | 2 in [50.8 mm]      |

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**PE3W00034**

### 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 $\mu$ in minimum  | 30 $\mu$ in minimum  |
| Dielectric Type                    | PTFE                 | PTFE                 |
| Body Material and Plating          | Brass, Nickel        | Brass, Nickel        |
| Body Plating Specification         | 100 $\mu$ in minimum | 100 $\mu$ in minimum |
| Coupling Nut Material and Plating  | Brass, Nickel        | Brass, Nickel        |
| Coupling Nut Plating Specification | 100 $\mu$ in minimum | 100 $\mu$ in minimum |

### Environmental Specifications

Operating Range Temperature

-40 to +80 deg C

### Compliance Certifications

(see product page for current document)

### Plotted and Other Data

Notes:

## SHV Plug to SHV Plug Cable Using RG58 Coax

**PE3W00034****Typical Performance Data****How to Order**

Part Number Configuration:

PE3W00034 - xx uu

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example: PE3W00034-12 = 12 inches long cable  
PE3W00034-100cm = 100 cm long cable

SHV Plug to SHV Plug Cable Using RG58 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 Using RG58 Coax PE3W00034](#)

URL: <https://www.pasternack.com/shv-plug-to-shv-plug-cable-using-rg58-pe3w00034-p.aspx>

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PE3W00034 CAD Drawing

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