



## SHV Plug to SHV Plug Cable 48 Inch Length Using RG225 Coax

### RF Cable Assemblies Technical Data Sheet

**PE34421-48**

#### Configuration

- Connector 1: SHV Plug
- Connector 2: SHV Plug
- Cable Type: RG225

#### Features

- Max Frequency 300 MHz
- Double Shielded
- PTFE (FG) Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE34421-48 SHV plug to SHV plug 48 inch cable using RG225 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 RG225 coax. The PE34421-48 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.

#### Electrical Specifications

| Description                          | Minimum | Typical      | Maximum | Units        |
|--------------------------------------|---------|--------------|---------|--------------|
| Frequency Range                      | DC      |              | 300     | MHz          |
| Capacitance                          |         | 32.4 [106.3] |         | pF/ft [pF/m] |
| Dielectric Withstanding Voltage (AC) |         |              | 5,000   | Vrms         |

#### Specifications by Frequency

| Description           | F1    | F2   | F3    | F4 | F5 | Units |
|-----------------------|-------|------|-------|----|----|-------|
| Frequency             | 50    | 100  | 250   |    |    | MHz   |
| Insertion Loss (Typ.) | 0.225 | 0.25 | 0.325 |    |    | dB    |

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 48 Inch Length Using RG225 Coax PE34421-48](#)



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#### Mechanical Specifications

##### Cable Assembly

Weight 0.855 lbs [387.82 g]

##### Cable

Cable Type RG225  
Impedance 50 Ohms  
Inner Conductor Type Stranded  
Inner Conductor Material and Plating Copper, Silver  
Dielectric Type PTFE  
Number of Shields 2  
Shield Layer 1 Silver Plated Copper Braid  
Shield Layer 2 Silver Plated Copper Braid  
Jacket Material PTFE (FG), Brown  
Jacket Diameter 0.43 in [10.92 mm]

#### 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      | 30µ in. minimum  | 30µ in. minimum  |
| Dielectric Type                    | Teflon           | Teflon           |
| Body Material and Plating          | Brass, Nickel    | Brass, Nickel    |
| Body Plating Specification         | 100µ in. minimum | 100µ in. minimum |
| Coupling Nut Material and Plating  | Brass, Nickel    | Brass, Nickel    |
| Coupling Nut Plating Specification | 100µ in. minimum | 100µ in. minimum |

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

#### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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 48 Inch Length Using RG225 Coax PE34421-48](#)



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**PE34421-48**

#### How to Order

Part Number Configuration:

**PE34421**

- **xx**

**uu**

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

Example: PE34421-12 = 12 inches long cable  
PE34421-100cm = 100 cm long cable

SHV Plug to SHV Plug Cable 48 Inch Length Using RG225 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.

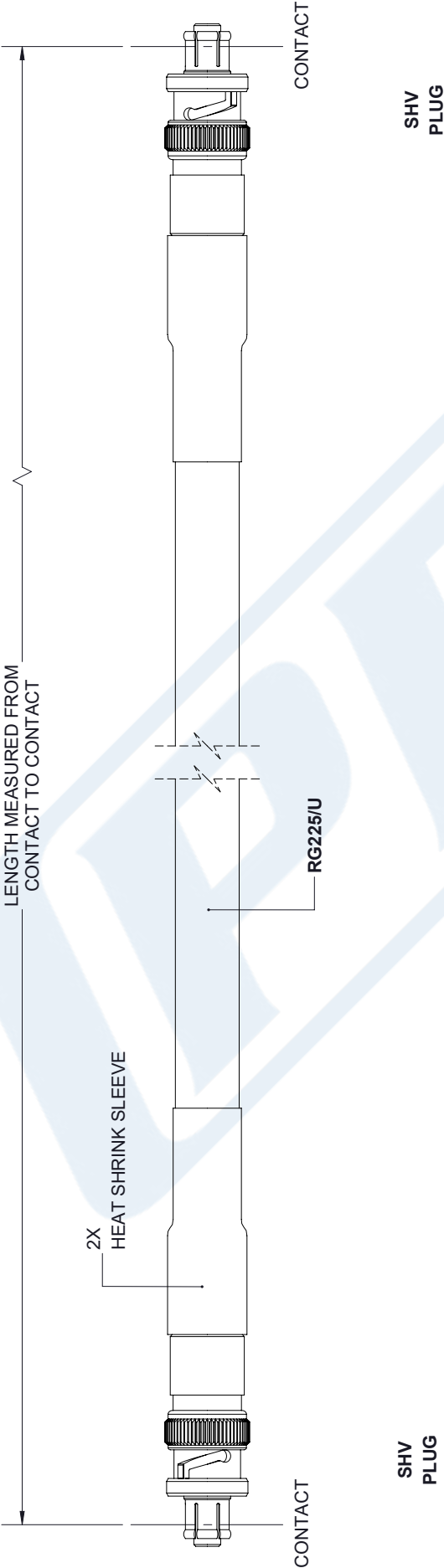
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SHV Plug to SHV Plug Cable 48 Inch Length Using RG225 Coax PE34421-48](https://www.pasternack.com/shv-plug-shv-plug-rg225u-cable-assembly-pe34421-48-p.aspx)

URL: <https://www.pasternack.com/shv-plug-shv-plug-rg225u-cable-assembly-pe34421-48-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.

PE34421-48 CAD Drawing  
SHV Plug to SHV Plug Cable 48 Inch Length Using RG225 Coax

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 07/23/19 | SELLIS   |



|                                                                                                  |        |             |       |
|--------------------------------------------------------------------------------------------------|--------|-------------|-------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |        |             |       |
| TOLERANCES:                                                                                      |        |             |       |
| X±.2                                                                                             | [5.08] | FRACTIONS   |       |
| .XX±.01                                                                                          | [.25]  |             | ±.132 |
| .XXX±.005                                                                                        | [.13]  | ANGLES ± 1° |       |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |        |             |       |
| THIRD-ANGLE PROJECTION                                                                           |        |             |       |
|                                                                                                  |        |             |       |

|                                                                                                                           |       |                                                                                                                                                                                         |             |
|---------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|  <b>PASTERNAK</b><br>an INFINITO brand |       | Pasternack Enterprises, Inc.<br>P.O. Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Fax: 1.949.261.7451<br>www.pasternack.com   e-mail: sales@pasternack.com |             |
| SIZE                                                                                                                      | CAGE  | DRAWN BY                                                                                                                                                                                | PART NUMBER |
| A                                                                                                                         | 53919 | K.DANG                                                                                                                                                                                  | PE34421     |
|                                                                                                                           |       |                                                                                                                                                                                         | REV         |
|                                                                                                                           |       |                                                                                                                                                                                         | A           |

|                                                                                                                        |     |    |   |
|------------------------------------------------------------------------------------------------------------------------|-----|----|---|
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| SHEET                                                                                                                  | 1   | OF | 1 |
| SCALE                                                                                                                  | N/A |    |   |

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