## SHV Plug to SHV Plug Cable 60 Inch Length Using RG141 Coax

# RF Cable Assemblies Technical Data Sheet          PE34428-60

## Configuration
- Connector 1: SHV Plug
- Connector 2: SHV Plug
- Cable Type: RG141

## Features
- Max Frequency 300 MHz
- PTFE (FG) Jacket

## Applications
- General Purpose
- Laboratory Use

## Description

Pasternack's PE34428-60 SHV plug to SHV plug 60 inch cable using RG141 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 RG141 coax. The PE34428-60 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

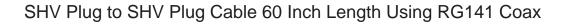| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | Error on F1=NULL | | Error on F1=NULL | |
| VSWR | | | 1.4:1 | |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |
| Dielectric Withstanding Voltage (AC) | | | 5,000 | Vrms |
| Jacket Spark | | | 2,000 | Vrms |

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 60 Inch Length Using RG141 Coax PE34428-60

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### Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 50 | 100 | 250 | 500 | 1,000 | MHz |
| Insertion Loss (Typ.) | 0.32 | 0.395 | 0.471 | 0.597 | 0.85 | dB |
| VSWR (Max.) | 1.4:1 | 1.4:1 | 1.4:1 | 1.4:1 | 1.4:1 | |
| Return Loss (Max.) | 15.56 | 15.563 | 15.563 | 15.563 | 15.563 | dB |

### Mechanical Specifications

**Cable Assembly**
Length*                                    60 in [152.4 cm]
Diameter                                   0.571 in [14.5 mm]

Weight                                     0.233 lbs [105.69 g]

**Cable**
Cable Type                                 RG141
Impedance                                  50 Ohms
Inner Conductor Type                       Solid
Inner Conductor Material and Plating       Copper Clad Steel, Silver
Dielectric Type                            PTFE
Number of Shields                          1
Shield Layer 1                             Silver Plated Copper
Jacket Material                            PTFE (FG), Beige
Jacket Diameter                            0.19 in  [4.83 mm]

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 60 Inch Length Using RG141 Coax PE34428-60

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
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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 | 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 |

Mechanical Specification Notes:
*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

**Compliance Certifications** (see product page for current document)

**Plotted and Other Data**
Notes:
• Values at 25°C, sea level.

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**How to Order**

Part Number Configuration:                    **PE34428        - xx        uu**

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

Example:     PE34428-12 = 12 inches long cable
PE34428-100cm = 100 cm long cable

SHV Plug to SHV Plug Cable 60 Inch Length Using RG141 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 60 Inch Length Using RG141 Coax PE34428-60

URL: https://www.pasternack.com/shv-plug-shv-plug-rg141au-cable-assembly-pe34428-60-p.aspx

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# PE34428-60 CAD Drawing
## SHV Plug to SHV Plug Cable 60 Inch Length Using RG141 Coax

CONTACT

SHV PLUG

LENGTH MEASURED FROM CONTACT TO CONTACT

RG141A/U

2X HEAT SHRINK SLEEVE

SHV PLUG

CONTACT

## REVISIONS

| REV. | DESCRIPTION | DATE | APPROVED |
|------|-------------|------|----------|
| A | INITIAL RELEASE | 07/23/19 | S.ELLIS |

SHEET 1 OF 1

SCALE N/A

REV A

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PART NUMBER
PE34428

| SIZE | CAGE | DRAWN BY |
|------|------|----------|
| A | 53919 | K.DANG |

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:
| | FRACTIONS |
|---|---|
| X=± .2 [5.08] | ± 1/32 |
| XX=± .01 [.25] | ANGLES ± 1° |
| .XXX=± .005 [.13] | |

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

T-Rev.B

PE34428-60 REV 1.1