



## SHV Plug to SHV Plug Cable Using RG141 Coax

### RF Cable Assemblies Technical Data Sheet

PE34428

#### 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 SHV plug to SHV plug 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 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 Using RG141 Coax PE34428](#)



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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.)	0.224	0.239	0.254	0.279	0.33	dB/ft
	0.73	0.78	0.83	0.92	1.08	dB/m
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**

Diameter 0.571 in [14.5 mm]

Weight 0.09 lbs [40.82 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]

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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 $\mu$ in. minimum	30 $\mu$ in. minimum
Dielectric Type	Teflon	Teflon
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

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8$ ", 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 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 Using RG141 Coax PE34428](https://www.pasternack.com/shv-plug-to-shv-plug-cable-using-rg141-coax-pe34428)

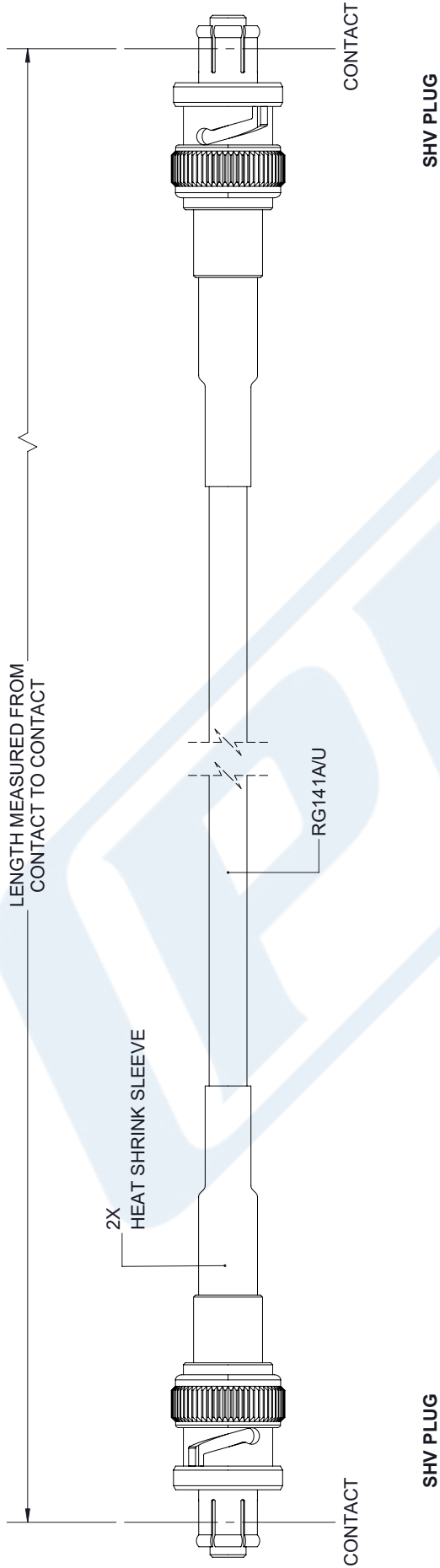
URL: <https://www.pasternack.com/shv-plug-shv-plug-rg141au-cable-assembly-pe34428-p.aspx>

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# PE34428 CAD Drawing

SHV Plug to SHV Plug Cable Using RG141 Coax

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



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="0"> <tr> <td>X±.2</td> <td>[5.08]</td> <td>FRACTIONS</td> </tr> <tr> <td>.XX±.01</td> <td>[.25]</td> <td>±.132</td> </tr> <tr> <td>.XXX±.005</td> <td>[.13]</td> <td>ANGLES ± 1°</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> <p>THIRD-ANGLE PROJECTION</p>	X±.2	[5.08]	FRACTIONS	.XX±.01	[.25]	±.132	.XXX±.005	[.13]	ANGLES ± 1°	<p><b>PE PASTERNAK</b> an INFINITO brand</p> <p>Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920   1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com   e-mail: sales@pasternack.com</p>		<p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.</p>
	X±.2	[5.08]	FRACTIONS									
.XX±.01	[.25]	±.132										
.XXX±.005	[.13]	ANGLES ± 1°										
<p>SIZE: A</p> <p>CAGE: 53919</p> <p>DRAWN BY: K.DANG</p> <p>PART NUMBER: PE34428</p>	<p>SHEET 1 OF 1</p> <p>SCALE: N/A</p>	<p>REV: A</p>										

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