SHV Plug to SHV Plug Cable 12 Inch Length Using RG225 Coax

RF Cable Assemblies Technical Data Sheet   PE34421-12

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 PE34421-12 SHV plug to SHV plug 12 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 PE34421-12 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	500	1,000	MHz
Insertion Loss (Typ.)	0.206	0.213	0.231			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 12 Inch Length Using RG225 Coax PE34421-12

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

SHV Plug to SHV Plug Cable 12 Inch Length Using RG225 Coax

RF Cable Assemblies Technical Data Sheet   **PE34421-12**

Mechanical Specifications

Cable Assembly

Length*	12 in [304.8 mm]
Diameter	0.57 in [14.48 mm]
Weight	0.286 lbs [129.73 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), Tan
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

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.

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 12 Inch Length Using RG225 Coax PE34421-12

RF Cable Assemblies Technical Data Sheet   PE34421-12

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 12 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.
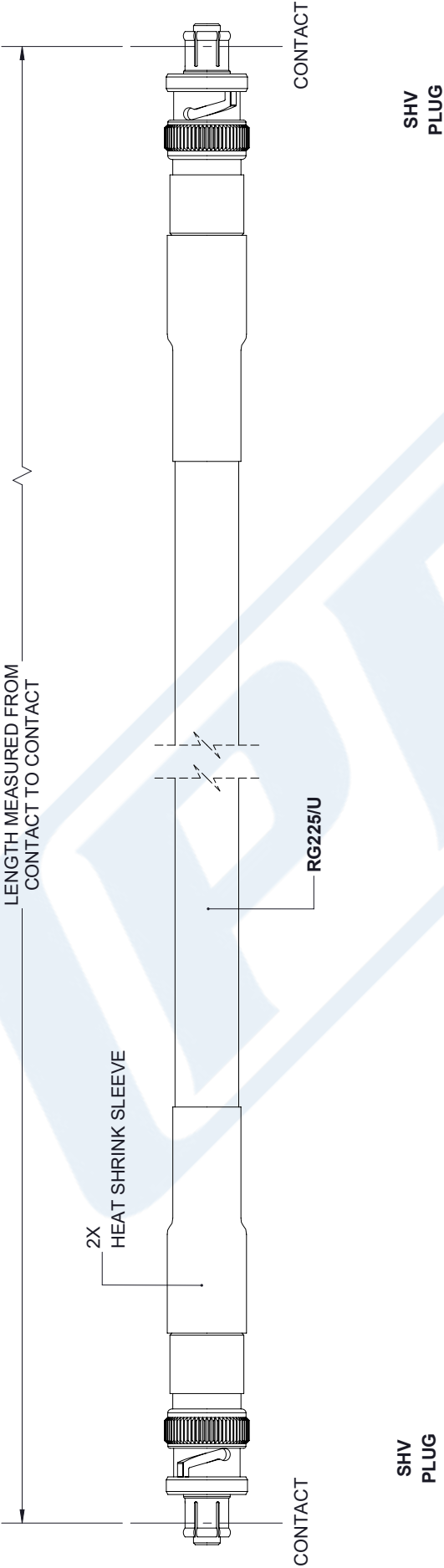
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SHV Plug to SHV Plug Cable 12 Inch Length Using RG225 Coax PE34421-12

URL: https://www.pasternack.com/shv-plug-shv-plug-rg225u-cable-assembly-pe34421-12-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.

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2019 Pasternack Enterprises All Rights Reserved   PE34421-12 REV 1.2   3

PE34421-12 CAD Drawing
SHV Plug to SHV Plug Cable 12 Inch Length Using RG225 Coax

CONTACT

SHV PLUG

CONTACT

LENGTH MEASURED FROM CONTACT TO CONTACT

RG225/U

2X HEAT SHRINK SLEEVE

SHV PLUG

CONTACT

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNACK CORPORATION. ALL RIGHTS RESERVED.

SHEET 1 OF 1
SCALE N/A
REV A

PART NUMBER PE34421

SIZE	CAGE	DRAWN BY
A	53919	K.DANG

REVISIONS

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

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