



SHV Plug to SHV Plug Cable 48 Inch Length
Using RG58 Coax , LF Solder

RF Cable Assemblies Technical Data Sheet

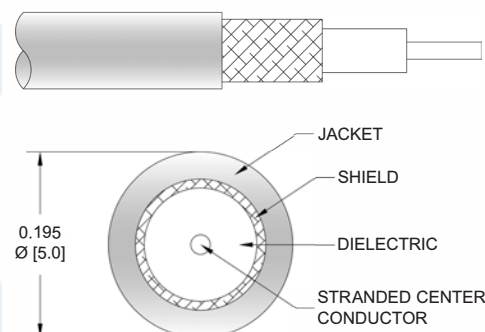
PE3815LF-48

Configuration

- Connector 1: SHV Plug
- Connector 2: SHV Plug
- Cable Type: RG58

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3815LF-48 SHV plug to SHV plug 48 inch 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 PE3815LF-48 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.

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 RG58 Coax , LF Solder PE3815LF-48](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		300	MHz
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

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	300			MHz
Insertion Loss (Typ.)	0.332	0.395	0.575			dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length*	48 in [121.92 cm]
Diameter	0.571 in [14.5 mm]
Weight	0.165 lbs [74.84 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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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.

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How to Order

Part Number Configuration:

PE3815LF

- **xx**

uu

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

Example: PE3815LF-12 = 12 inches long cable
PE3815LF-100cm = 100 cm long cable

SHV Plug to SHV Plug Cable 48 Inch Length Using RG58 Coax , LF Solder 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.

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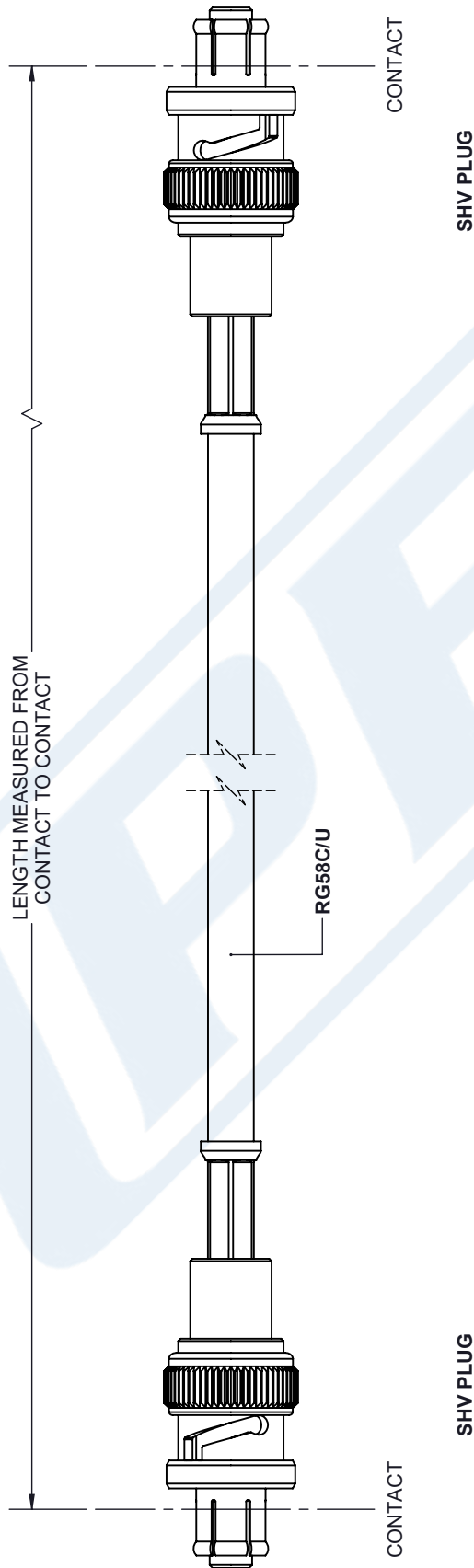
URL: <https://www.pasternack.com/shv-plug-shv-plug-rg58cu-cable-assembly-pe3815lf-48-p.aspx>

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.

PE3815LF-48 CAD Drawing

SHV Plug to SHV Plug Cable 48 Inch Length Using RG58 Coax , LF Solder

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	9/15/2020	S. ELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: <table border="1"> <tr> <td>X = ± .2</td><td>[.008]</td><td>FRACTIONS</td><td>± 1/32</td></tr> <tr> <td>.XX = ± .02</td><td>[.51]</td><td>ANGLES</td><td>± 1°</td></tr> <tr> <td>.XXX = ± .005</td><td>[.13]</td><td>CABLE LENGTH (L)</td><td>TOLERANCES:</td></tr> <tr> <td colspan="4">L ≤ 12 [305] = +1 [25] / -0</td></tr> <tr> <td colspan="4">12 [305] < L ≤ 60 [1524] = +2 [51] / -0</td></tr> <tr> <td colspan="4">60 [1524] < L ≤ 120 [3048] = +4 [102] / -0</td></tr> <tr> <td colspan="4">120 [3048] < L ≤ 300 [7620] = +6 [152] / -0</td></tr> <tr> <td colspan="4">300 [7620] < L = +5% / -0</td></tr> </table> ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		X = ± .2	[.008]	FRACTIONS	± 1/32	.XX = ± .02	[.51]	ANGLES	± 1°	.XXX = ± .005	[.13]	CABLE LENGTH (L)	TOLERANCES:	L ≤ 12 [305] = +1 [25] / -0				12 [305] < L ≤ 60 [1524] = +2 [51] / -0				60 [1524] < L ≤ 120 [3048] = +4 [102] / -0				120 [3048] < L ≤ 300 [7620] = +6 [152] / -0				300 [7620] < L = +5% / -0				THIRD-ANGLE PROJECTION THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED. SHEET 1 OF 1 SCALE N/A	
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PE PASTERNAK an INFINITE brand Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com		SIZE A CAGE CODE 53919 DRAWN BY K.DANG ITEM NO. PE3815LF REV A																																	

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