



SHV Jack to SHV Jack Bulkhead Cable Using RG58 Coax

RF Cable Assemblies Technical Data Sheet

PE3C9491

Configuration

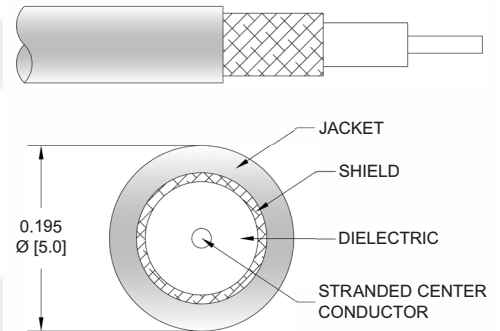
- Connector 1: SHV Jack
- Connector 2: SHV Jack Bulkhead
- Cable Type: RG58

Features

- Recessed contacts prevent shock hazards
- Max Frequency 300 MHz
- Shielding Effectivity > 45 dB
- 66% Phase Velocity
- PVC Jacket
- Dielectric withstanding of 5kV
- Shock, Moisture & Corrosion resistant

Applications

- General Purpose
- Laboratory Use
- Nuclear Instrumentation
- High Voltage Electrical Transmission
- Semiconductor Test



Description

Pasternack's PE3C9491 SHV jack to SHV jack bulkhead 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 such as nuclear instrumentation and semiconductor testing, where transmission of high voltage signals over coax is required. This Pasternack SHV to SHV cable assembly has a jack to jack gender configuration with 50 ohm flexible RG58 coax. The PE3C9491 SHV jack to SHV jack cable assembly operates to 300 MHz. Our RF cable assembly with SHV bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. Safety High Voltage (SHV) connectors are designed to allow signal transmission with high voltage ratings without safety risk for the operators. Both the pin and socket contacts are securely recessed inside the insulation to guard against potential electrical shock when live unmated connectors are handled.

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 Jack to SHV Jack Bulkhead Cable Using RG58 Coax PE3C9491](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		300	MHz
Velocity of Propagation		65.9		%
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	250	300		MHz
Insertion Loss (Typ.)	0.029	0.049	0.074	0.082		dB/ft
	0.1	0.16	0.24	0.27		dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.072 lbs [32.66 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 0.98 in [24.89 mm]
 Repeated Minimum Bend Radius 1.96 in [49.78 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SHV Jack to SHV Jack Bulkhead Cable Using RG58 Coax PE3C9491](#)



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Connectors

Description	Connector 1	Connector 2
Type	SHV Jack	SHV Jack Bulkhead
Specification	MIL-STD-348B	MIL-STD-348B
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold over Nickel over copper	Brass, Gold over Nickel over copper
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tinned Copper	Brass, Tinned Copper
Coupling Nut Material and Plating		Brass, Tinned Copper
Hex Size		16-Jul Inch

Environmental Specifications

Temperature

Operating Range

-40 to +80 deg C

Ingress Protection (IP) Rating

IP67 Rated

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

Plotted and Other Data

Notes:

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RF Cable Assemblies Technical Data Sheet

PE3C9491

How to Order

Part Number Configuration:

PE3C9491

- **xx**

uu

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

Example: PE3C9491-12 = 12 inches long cable
PE3C9491-100cm = 100 cm long cable

SHV Jack to SHV Jack Bulkhead Cable Using RG58 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.

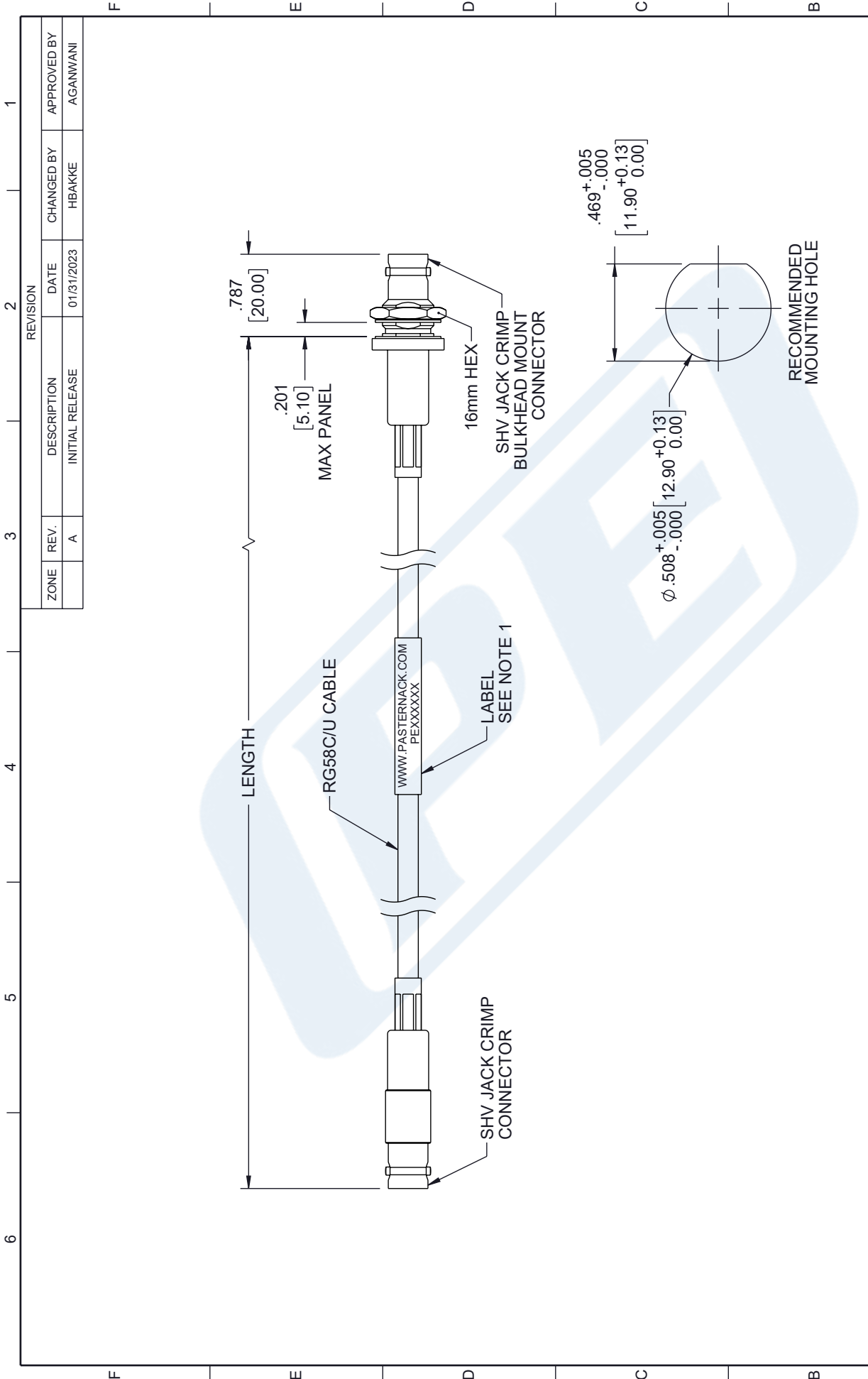
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

PE3C9491 CAD Drawing

SHV Jack to SHV Jack Bulkhead Cable Using RG58 Coax



<p style="font-size: small;">an INFINITO brand</p>	<p style="font-size: x-small;">INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p style="font-size: x-small;">SCALE: NONE SHEET: 1 OF 1</p>	<p style="font-size: x-small;">UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p style="font-size: x-small;">TOLERANCES:</p> <table style="font-size: x-small; width: 100%;"> <tr> <td>.X = ±.2 [5]</td> <td>FRACTIONS ±.1/32</td> </tr> <tr> <td>.XX = ±.02 [.5]</td> <td>ANGLES ± 1°</td> </tr> <tr> <td>.XXX = ±.005 [.13]</td> <td></td> </tr> </table> <p style="font-size: x-small;">CABLE LENGTH TOLERANCES:</p> <table style="font-size: x-small; width: 100%;"> <tr> <td>>12 [305] ≤ 60 [1524]</td> <td>±.1 [25] / -0</td> </tr> <tr> <td>>60 [1524] ≤ 120 [3048]</td> <td>±.2 [5] / -0</td> </tr> <tr> <td>>120 [3048] ≤ 300 [7620]</td> <td>±.4 [102] / -0</td> </tr> <tr> <td>>300 [7620]</td> <td>±.6 [152] / -0</td> </tr> </table> <p style="font-size: x-small;">ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.</p>	.X = ±.2 [5]	FRACTIONS ±.1/32	.XX = ±.02 [.5]	ANGLES ± 1°	.XXX = ±.005 [.13]		>12 [305] ≤ 60 [1524]	±.1 [25] / -0	>60 [1524] ≤ 120 [3048]	±.2 [5] / -0	>120 [3048] ≤ 300 [7620]	±.4 [102] / -0	>300 [7620]	±.6 [152] / -0
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<p style="font-size: small;">Website: www.Pasternack.com</p> <p style="font-size: small;">Phone: 1.866.727.8376 1.949.261.1920</p>																
<p style="font-size: small;">DESCRIPTION</p> <p style="font-weight: bold;">SHV JACK CRIMP TO SHV JACK CRIMP BULKHEAD, IP67 MATED, FOR RG58</p>																
SIZE	DRAWN BY	ITEM NO.														
A	HBAKKE	PE3C9491														
REV	REV	REV														
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NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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