



## SHV Plug to BNC Male Cable Using RG142 Coax , LF Solder

### RF Cable Assemblies Technical Data Sheet

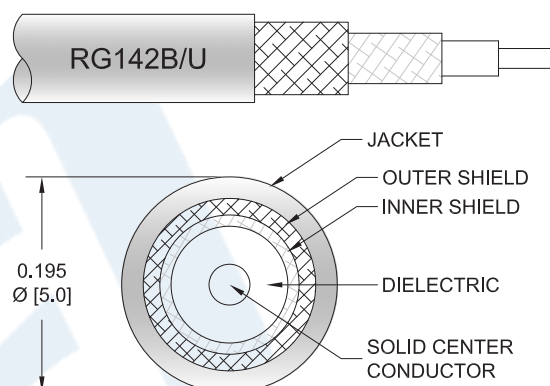
**PE36015LF**

#### Configuration

- Connector 1: SHV Plug
- Connector 2: BNC Male
- Cable Type: RG142

#### Features

- Max Frequency 300 MHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE36015LF SHV plug to BNC male cable using RG142 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 BNC cable assembly has a plug to male gender configuration with 50 ohm flexible RG142 coax. The PE36015LF SHV plug to BNC male 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.

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 BNC Male Cable Using RG142 Coax , LF Solder PE36015LF](#)



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#### Electrical Specifications

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 300     | MHz          |
| VSWR                    |         |              | 1.4:1   |              |
| Velocity of Propagation |         | 70           |         | %            |
| Capacitance             |         | 29.4 [96.46] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |              | 500     | Vrms         |

#### Specifications by Frequency

| Description           | F1    | F2    | F3    | F4 | F5 | Units |
|-----------------------|-------|-------|-------|----|----|-------|
| Frequency             | 100   | 250   | 300   |    |    | MHz   |
| Insertion Loss (Typ.) | 0.039 | 0.054 | 0.059 |    |    | dB/ft |
|                       | 0.13  | 0.18  | 0.19  |    |    | dB/m  |

#### Electrical Specification Notes:

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

#### Mechanical Specifications

##### Cable Assembly

Weight 0.097 lbs [44 g]

##### Cable

Cable Type RG142  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 2  
 Shield Layer 1 Silver Plated Copper Braid  
 Shield Layer 2 Silver Plated Copper Braid  
 Jacket Material FEP, Tan  
 Jacket Diameter 0.195 in [4.95 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm]

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#### Connectors

| Description                        | Connector 1              | Connector 2          |
|------------------------------------|--------------------------|----------------------|
| Type                               | SHV Plug                 | BNC Male             |
| Specification                      |                          | MIL-STD-348A         |
| Impedance                          | 50 Ohms                  | 50 Ohms              |
| Contact Material and Plating       | Brass, Gold              | Brass, Gold          |
| Contact Plating Specification      | 30 $\mu$ inches minimum  | 30 $\mu$ in minimum  |
| Dielectric Type                    | Teflon                   | PTFE                 |
| Body Material and Plating          | Brass, Nickel            | Brass, Nickel        |
| Body Plating Specification         | 100 $\mu$ inches minimum | 100 $\mu$ in minimum |
| Coupling Nut Material and Plating  |                          | Brass, Nickel        |
| Coupling Nut Plating Specification |                          | 100 $\mu$ in minimum |

#### Environmental Specifications

##### Temperature

Operating Range -55 to +165 deg C

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

#### Plotted and Other Data

Notes:

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 BNC Male Cable Using RG142 Coax , LF Solder PE36015LF](#)



## SHV Plug to BNC Male Cable Using RG142 Coax , LF Solder

### RF Cable Assemblies Technical Data Sheet

**PE36015LF**

#### How to Order

Part Number Configuration:

**PE36015LF**

- **xx**

**uu**

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

Example: PE36015LF-12 = 12 inches long cable  
PE36015LF-100cm = 100 cm long cable

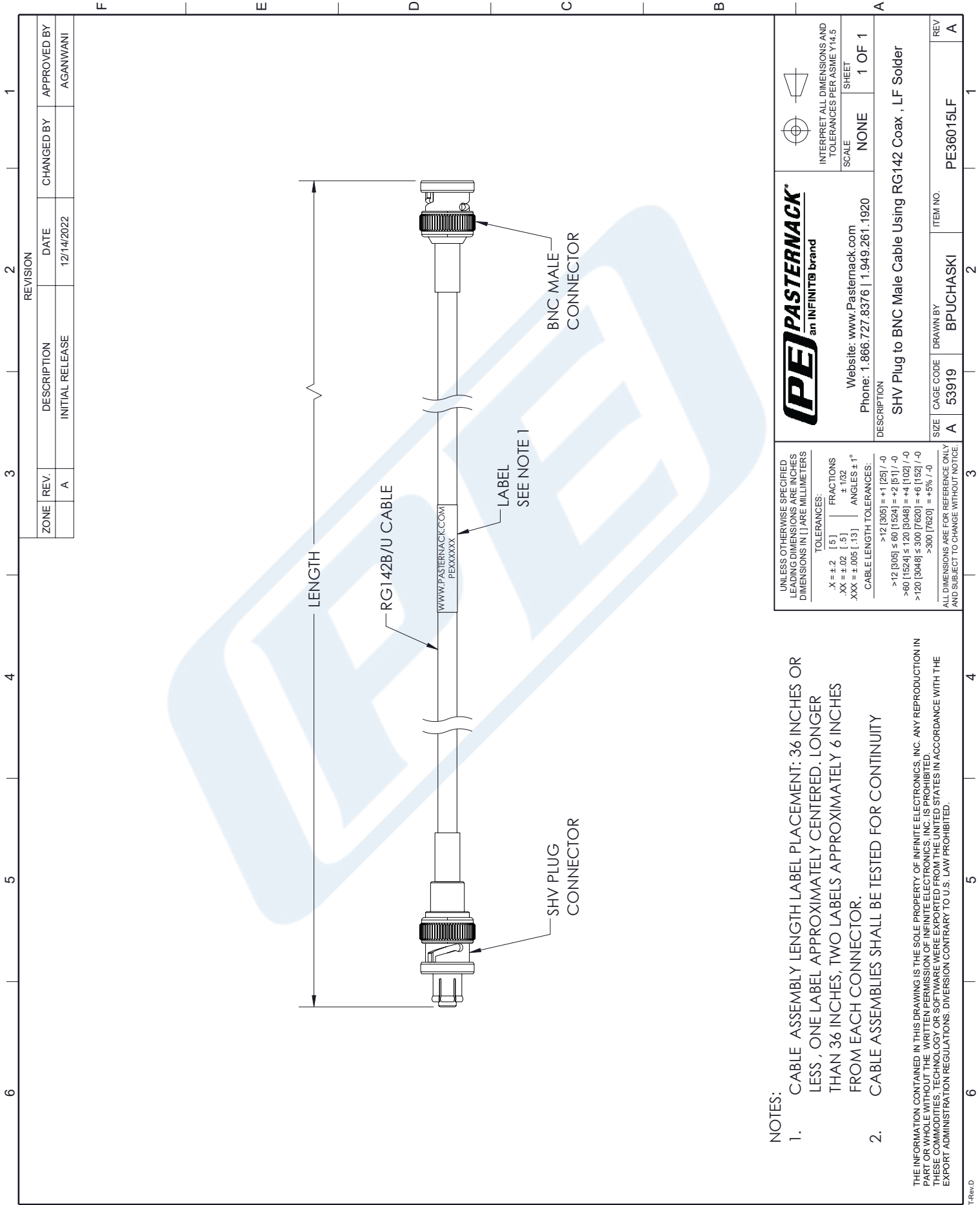
SHV Plug to BNC Male Cable Using RG142 Coax , LF Solder from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 BNC Male Cable Using RG142 Coax , LF Solder PE36015LF](https://www.pasternack.com/shv-plug-to-bnc-male-cable-using-rg142-lf-solder-pe36015lf-p.aspx)

URL: <https://www.pasternack.com/shv-plug-to-bnc-male-cable-using-rg142-lf-solder-pe36015lf-p.aspx>

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PE36015LF CAD Drawing  
SHV Plug to BNC Male Cable Using RG142 Coax , LF Solder



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.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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|                                                                                                  |                     |
|--------------------------------------------------------------------------------------------------|---------------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |                     |
| TOLERANCES:                                                                                      |                     |
| X = ±.2 [ .5 ]                                                                                   | FRACTIONS<br>± 1/32 |
| .XX = ±.02 [ .5 ]                                                                                | ANGLES ± 1°         |
| XXX = ±.005 [ .13 ]                                                                              |                     |
| CABLE LENGTH TOLERANCES:                                                                         |                     |
| >12 [305] = +1 [25] / -0                                                                         |                     |
| >12 [305] ≤ 60 [1524] = +2 [51] / -0                                                             |                     |
| >60 [1524] ≤ 120 [3048] = +4 [102] / -0                                                          |                     |
| >120 [3048] ≤ 300 [7620] = +6 [152] / -0                                                         |                     |
| >300 [7620] = +5% / -0                                                                           |                     |
| ALL DIMENSIONS ARE FOR REFERENCE ONLY<br>AND SUBJECT TO CHANGE WITHOUT NOTICE.                   |                     |

|                                                                                                               |                    |                                                           |                       |
|---------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------|-----------------------|
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| Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a><br>Phone: 1.866.727.8376   1.949.261.1920 |                    | SCALE<br>NONE                                             | SHEET<br>1 OF 1       |
| DESCRIPTION<br>SHV Plug to BNC Male Cable Using RG142 Coax , LF Solder                                        |                    |                                                           |                       |
| SIZE<br>A                                                                                                     | CAGE CODE<br>53919 | DRAWN BY<br>BPUCHASKI                                     | ITEM NO.<br>PE36015LF |
| REV<br>A                                                                                                      |                    |                                                           |                       |