

SHV Plug to BNC Male Cable Using PE-C195 Coax , LF Solder In 36 Inch Length



RF Cable Assemblies Technical Data Sheet

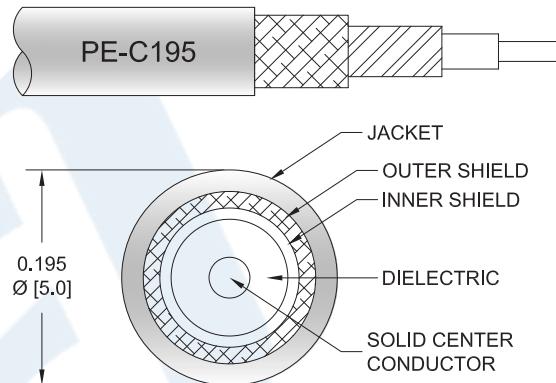
PE3W10605LF-36

Configuration

- Connector 1: SHV Plug
- Connector 2: BNC Male
- Cable Type: PE-C195

Features

- Max Frequency 300 MHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W10605LF-36 SHV plug to BNC male 36 inch cable using PE-C195 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 PE-C195 coax. The PE3W10605LF-36 SHV plug to BNC male cable assembly operates to 300 MHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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 PE-C195 Coax , LF Solder In 36 Inch Length PE3W-10605LF-36](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 300 | MHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 80 | | % |
| RF Shielding | 90 | | | dB |
| Capacitance | | 25.4 [83.33] | | pF/ft [pF/m] |
| Jacket Spark | | | 5,000 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|----|----|----|-------|
| Frequency | 250 | 300 | | | | MHz |
| Insertion Loss (Typ.) | 0.27 | 0.29 | | | | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of $0.1 * \text{SQRT}(F\text{GHz})$ dB per connector.

Mechanical Specifications

Cable Assembly

| | |
|---------|---------------------|
| Length* | 36 in [914.4 mm] |
| Weight | 0.104 lbs [47.17 g] |

Cable

| | |
|--------------------------------------|---------------------|
| Cable Type | PE-C195 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper |
| Dielectric Type | PE (F) |
| Number of Shields | 2 |
| Shield Layer 1 | Aluminum Tape |
| Shield Layer 2 | Tinned Copper Braid |
| Jacket Material | PE, Black |
| Jacket Diameter | 0.195 in [4.95 mm] |

| | |
|------------------------------|------------------|
| One Time Minimum Bend Radius | 0.5 in [12.7 mm] |
| Repeated Minimum Bend Radius | 2 in [50.8 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|----------------------|---------------------|
| Type | SHV Plug | BNC Male |
| Specification | MIL-STD-348A | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 30 μ in minimum | 30 μ in minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100 μ in minimum | 90 μ in minimum |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Nickel |
| Coupling Nut Plating Specification | 100 μ in minimum | |

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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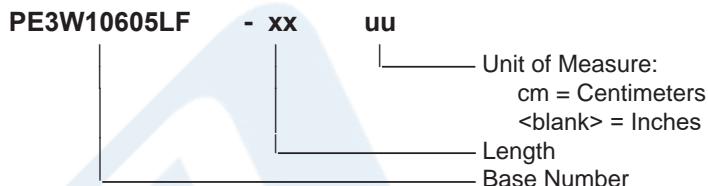


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How to Order

Part Number Configuration:



Example: PE3W10605LF-12 = 12 inches long cable
PE3W10605LF-100cm = 100 cm long cable

SHV Plug to BNC Male Cable Using PE-C195 Coax , LF Solder In 36 Inch Length 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-to-bAc-male-cable-36-iAch-leAgh-usiAg-pe-c195-lf-solder-pe3w10605lf-36-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.

PE3W10605LF-36 CAD Drawing

SHV Plug to BNC Male Cable Using PE-C195 Coax , LF Solder In 36 Inch Length

