



Push-On SMP Female Right Angle to TNC Female Bulkhead  
Low Loss Cable 100 CM Length Using PE-C100 Coax

**RF Cable Assemblies Technical Data Sheet**

**PE3W08711/HS-100CM**

**Configuration**

- Connector 1: Push-OnSMP Female Right Angle
- Connector 2: TNC Female Bulkhead
- Cable Type: PE-C100-LSZH

**Features**

- Max Frequency 5 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

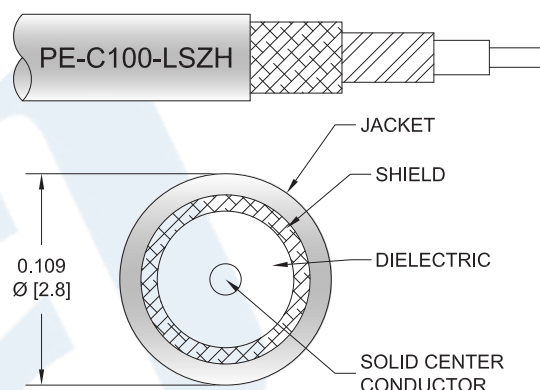
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W08711/HS-100CM SMP female push-on right angle to TNC female bulkhead 100 cm cable using PE-C100 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 SMP to TNC cable assembly has a female to female gender configuration with 50 ohm flexible PE-C100-LSZH coax. The PE3W08711/HS-100CM SMP female to TNC female cable assembly operates to 5 GHz. The right angle SMP interface on the PE-C100-LSZH cable allows for easier connections in tight spaces. Our RF cable assembly with TNC 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. 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: [Push-On SMP Female Right Angle to TNC Female Bulkhead Low Loss Cable 100 CM Length Using PE-C100 Coax PE3W08711/HS-100CM](#)



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### Electrical Specifications

| Description             | Minimum | Typical       | Maximum | Units        |
|-------------------------|---------|---------------|---------|--------------|
| Frequency Range         | DC      |               | 5       | GHz          |
| VSWR                    |         |               | 1.4:1   |              |
| Velocity of Propagation |         | 66            |         | %            |
| RF Shielding            | 90      |               |         | dB           |
| Capacitance             |         | 30.8 [101.05] |         | pF/ft [pF/m] |
| Jacket Spark            |         |               | 2,000   | Vrms         |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 5    | GHz   |
| Insertion Loss (Typ.) | 0.65 | 0.84 | 1.08 | 1.62 | 2.26 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

### Mechanical Specifications

#### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 39.37 in [100 cm]  |
| Diameter | 0.689 in [17.5 mm] |

#### Cable

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | PE-C100-LSZH        |
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Solid               |
| Inner Conductor Material and Plating | Copper Clad Steel   |
| Dielectric Type                      | PE                  |
| Number of Shields                    | 2                   |
| Shield Layer 1                       | Aluminum Tape       |
| Shield Layer 2                       | Tinned Copper Braid |
| Jacket Material                      | PVC, Black          |
| Jacket Diameter                      | 0.11 in [2.79 mm]   |

|                              |                   |
|------------------------------|-------------------|
| One Time Minimum Bend Radius | 0.25 in [6.35 mm] |
| Repeated Minimum Bend Radius | 1 in [25.4 mm]    |

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## RF Cable Assemblies Technical Data Sheet

**PE3W08711/HS-100CM**

### Connectors

| Description                           | Connector 1            | Connector 2         |
|---------------------------------------|------------------------|---------------------|
| Type                                  | SMP Female Right Angle | TNC Female Bulkhead |
| Specification                         | MIL-STD-348A           | MIL-STD-348A        |
| Impedance                             | 50 Ohms                | 50 Ohms             |
| Connection Method                     | Push-On                |                     |
| Contact Material and Plating          | Beryllium Copper, Gold | Brass, Gold         |
| Contact Plating Specification         | 30μ in. minimum        | 30 μin minimum      |
| Dielectric Type                       | Teflon                 | PTFE                |
| Outer Conductor Material and Plating  | Beryllium Copper, Gold |                     |
| Outer Conductor Plating Specification | 3μ in. minimum         |                     |
| Body Material and Plating             | Brass, Gold            | Brass, Nickel       |
| Body Plating Specification            | 3μ in. minimum         | 100 μin minimum     |

### Environmental Specifications

#### Temperature

Operating Range

-40 to +85 deg C

Storage Range

-40 to +85 deg C

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

### Plotted and Other Data

Notes:

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**PE3W08711/HS-100CM**

**How to Order**

Part Number Configuration:

**PE3W08711/HS**

**- xx**

**uu**

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

Example: PE3W08711/HS-12 = 12 inches long cable  
PE3W08711/HS-100cm = 100 cm long cable

Push-On SMP Female Right Angle to TNC Female Bulkhead Low Loss Cable 100 CM Length Using PE-C100 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: [Push-On SMP Female Right Angle to TNC Female Bulkhead Low Loss Cable 100 CM Length Using PE-C100 Coax PE3W08711/HS-100CM](https://www.pasternack.com/smp-female-tnc-female-pe-c100-cable-assembly-pe3w08711-hs-100cm-p.aspx)

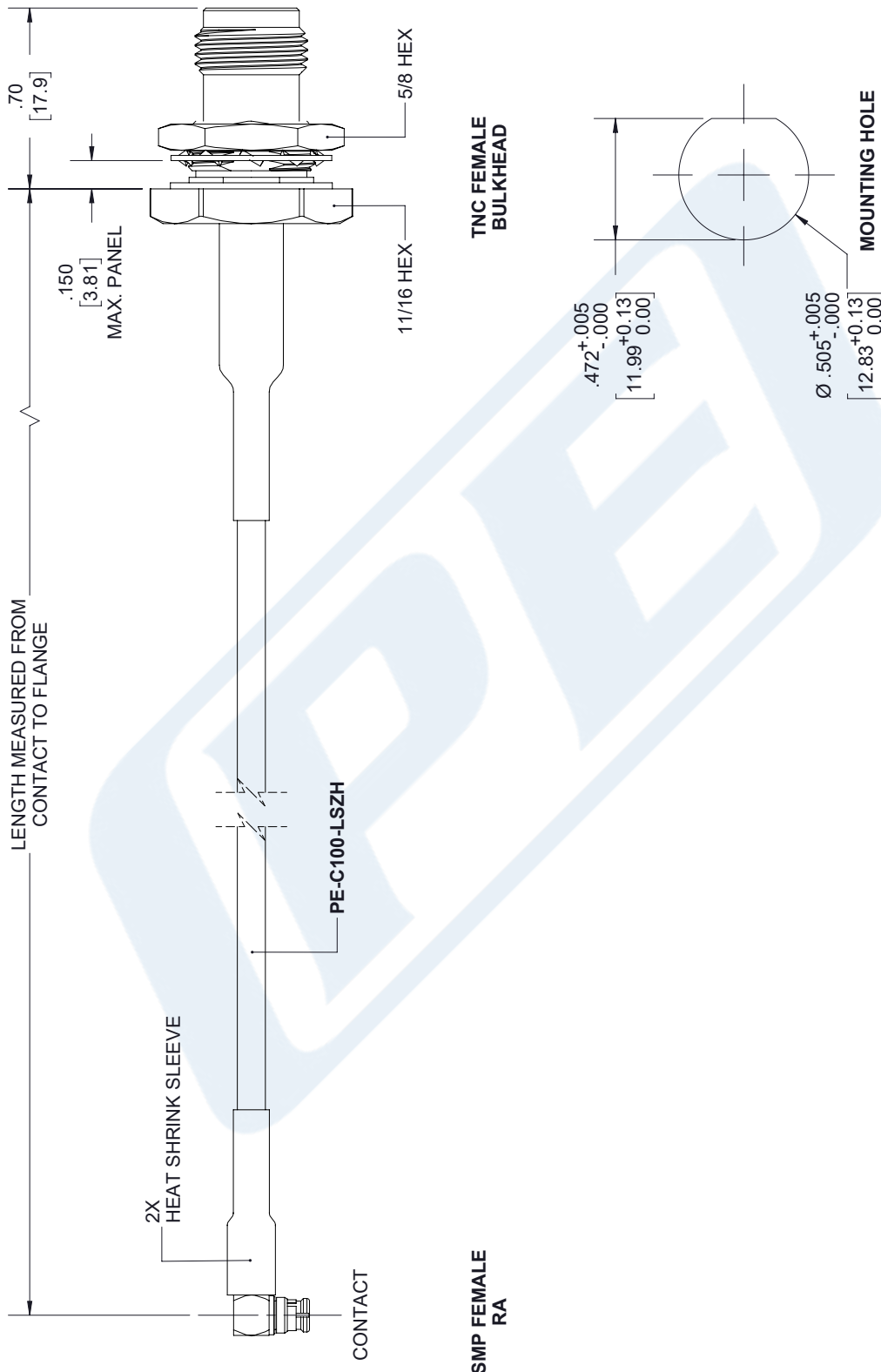
URL: <https://www.pasternack.com/smp-female-tnc-female-pe-c100-cable-assembly-pe3w08711-hs-100cm-p.aspx>

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.

## PE3W08711/HS-100CM CAD Drawing

Push-On SMP Female Right Angle to TNC Female Bulkhead  
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| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 3/10/2020 | S ELLIS  |



UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

| TOLERANCES:                                                                                                                                                                                                                                            |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| $X = \pm 2$                                                                                                                                                                                                                                            | FRACTIONS      |
| $XX = \pm 02$                                                                                                                                                                                                                                          | $\pm 1/32$     |
| $XXX = \pm .005$                                                                                                                                                                                                                                       | ANGLES $\pm 1$ |
| CABLE LENGTH (L) TOLERANCES:                                                                                                                                                                                                                           |                |
| $L \leq 12$ [305] = $\pm 1$ [25] / -0<br>$12$ [305] < $L \leq 60$ [1524] = $\pm 2$ [51] / -0<br>$60$ [1524] < $L \leq 120$ [3048] = $\pm 4$ [102] / -0<br>$120$ [3048] < $L \leq 300$ [7620] = $\pm 8$ [152] / -0<br>$300$ [7620] < $L = \pm 5\%$ / -0 |                |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.                                                                                                                                                                                                           |                |

THIRD-ANGLE PROJECTION



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|--------|-----|----|---|
| SHEET  | 1   | OF | 1 |
| SCALE  | N/A |    |   |
| 711/HS | REV |    | A |

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