



SMA Female Bulkhead to Water Blue FAKRA Jack Cable  
100 cm Length Using PE-C100-LSZH Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W04917/HS-100CM

### Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: FAKRA Jack
- Cable Type: PE-C100-LSZH

### Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- LSZH Jacket

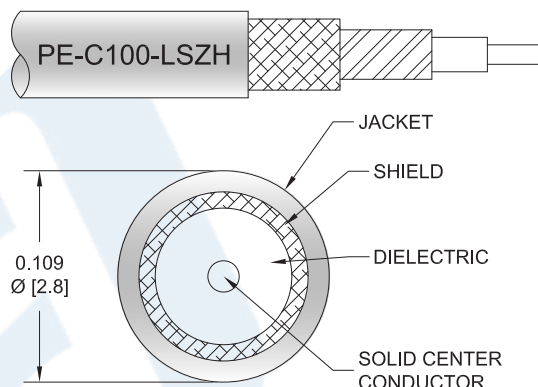
### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W04917/HS-100CM SMA female bulkhead to water blue FAKRA jack 100 cm cable using PE-C100-LSZH 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 SMA to FAKRA cable assembly has a female to jack gender configuration with 50 ohm flexible PE-C100-LSZH coax. The PE3W04917/HS-100CM SMA female to FAKRA jack cable assembly operates to 4 GHz. Our RF cable assembly with SMA 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: [SMA Female Bulkhead to Water Blue FAKRA Jack Cable 100 cm Length Using PE-C100-LSZH Coax with HeatShrink PE3W04917/HS-100CM](#)



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**Electrical Specifications**

| Description                          | Minimum | Typical       | Maximum | Units              |
|--------------------------------------|---------|---------------|---------|--------------------|
| Frequency Range                      | DC      |               | 4       | GHz                |
| VSWR                                 |         |               | 1.5:1   |                    |
| Velocity of Propagation              |         | 66            |         | %                  |
| RF Shielding                         | 90      |               |         | dB                 |
| Group Delay                          |         | 1.62 [5.31]   |         | ns/ft [ns/m]       |
| Capacitance                          |         | 30.8 [101.05] |         | pF/ft [pF/m]       |
| Inductance                           |         | 0.077 [0.25]  |         | uH/ft [uH/m]       |
| DC Resistance Inner Conductor<br>Km] |         | 81 [265.75]   |         | Ohms/1000ft [Ohms/ |
| DC Resistance Outer Conductor<br>Km] |         | 9.5 [31.17]   |         | Ohms/1000ft [Ohms/ |
| Jacket Spark                         |         |               | 2,000   | Vrms               |

**Specifications by Frequency**

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 4    | GHz   |
| Insertion Loss (Max.) | 0.58 | 0.75 | 0.99 | 1.53 | 1.92 | dB    |

**Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector loss.

**Mechanical Specifications**

**Cable Assembly**

|          |                   |
|----------|-------------------|
| Length*  | 39.37 in [100 cm] |
| Diameter | 0.433 in [11 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 |

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|                              |                        |
|------------------------------|------------------------|
| Jacket Material              | LSZH, Black            |
| Jacket Diameter              | 0.109 in [2.77 mm]     |
| One Time Minimum Bend Radius | 0.25 in [6.35 mm]      |
| Repeated Minimum Bend Radius | 1 in [25.4 mm]         |
| Bending Moment               | 0.1 lbs-ft [0.14 N-m]  |
| Flat Plate Crush             | 10 lbs/in [0.18 Kg/mm] |
| Tensile Strength             | 15 lbs [6.8 Kg]        |

**Connectors**

| Description                          | Connector 1            | Connector 2           |
|--------------------------------------|------------------------|-----------------------|
| Type                                 | SMA Female Bulkhead    | FAKRA Jack            |
| Impedance                            | 50 Ohms                | 50 Ohms               |
| Configuration                        | Straight               | Straight              |
| Contact Material and Plating         | Beryllium Copper, Gold | Phosphor Bronze, Gold |
| Dielectric Type                      | PTFE                   | PTFE                  |
| Outer Conductor Material and Plating | Brass, Gold            | Brass, Nickel         |
| Body Material and Plating            | Brass, Gold            | Plastic               |

**Mechanical Specification Notes:**

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

**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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**How to Order**

Part Number Configuration:

**PE3W04917/HS**

**- xx**

**uu**

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

Example: PE3W04917/HS-12 = 12 inches long cable  
PE3W04917/HS-100cm = 100 cm long cable

SMA Female Bulkhead to Water Blue FAKRA Jack Cable 100 cm Length Using PE-C100-LSZH Coax with HeatShrink 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/sma-female-fakra-jack-pe-c100-lszh-cable-assembly-pe3w04917-hs-100cm-p.aspx>

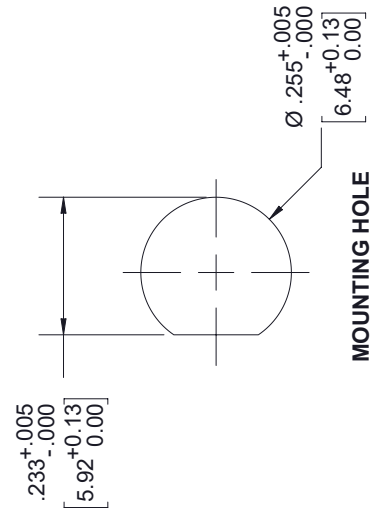
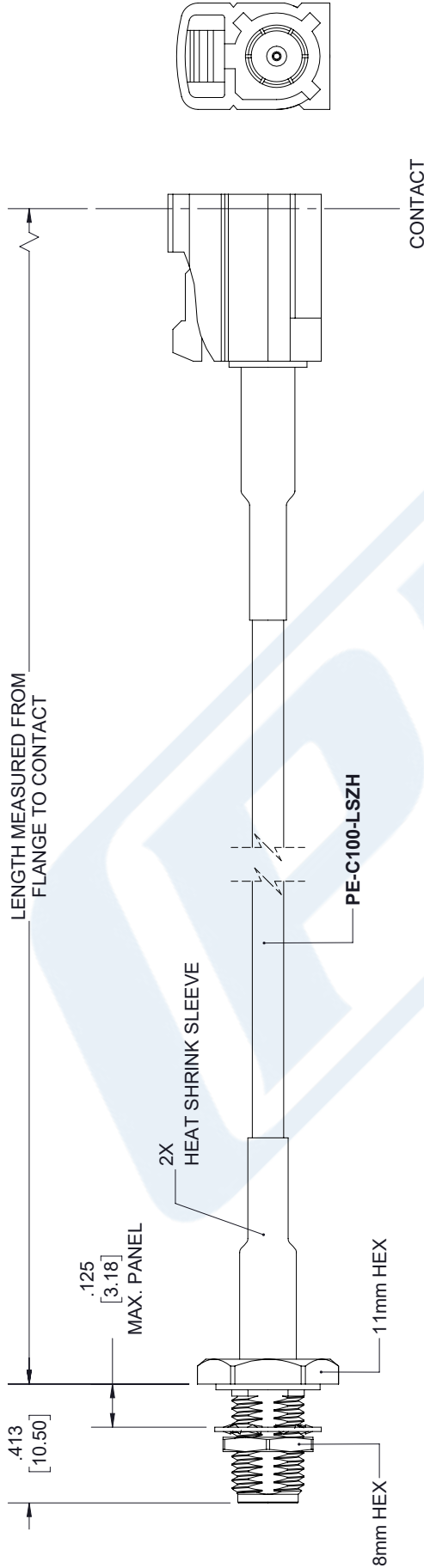
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# PE3W04917/HS-100CM CAD Drawing

## SMA Female Bulkhead to Water Blue FAKRA Jack Cable 100 cm

### Length Using PE-C100-LSZH Coax with HeatShrink

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 04/30/19 | SELLIS   |



|                                                                                                                                                                                                                                                                                       |            |                                                                                                                                         |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>PE PASTERNAK</b><br>an INFINITO brand<br>Pasternack Enterprises, Inc.<br>P.O. Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Fax: 1.949.261.7451<br>www.pasternack.com   e-mail: sales@pasternack.com                                                   |            | THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.<br>SHEET 1 OF 1<br>SCALE N/A |                          |
| SIZE A                                                                                                                                                                                                                                                                                | CAGE 53919 | DRAWN BY K.DANG                                                                                                                         | PART NUMBER PE3W04917/HS |
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE IN INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS<br>TOLERANCES:<br>X±.2 [5.08]<br>XX±.01 [.25]<br>XXX±.005 [.13]<br>FRACTIONS<br>±.132<br>ANGLES ± 1°<br>ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.<br>THIRD-ANGLE PROJECTION |            | REV A                                                                                                                                   |                          |

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