



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

RF Cable Assemblies Technical Data Sheet

PE3W04917/HS-48

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

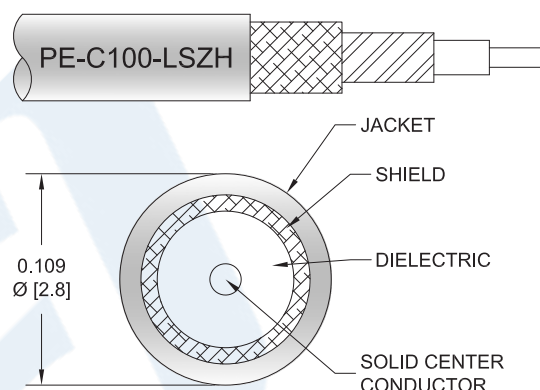
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W04917/HS-48 SMA female bulkhead to water blue FAKRA jack 48 inch 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-48 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 48 Inch Length Using PE-C100-LSZH Coax with HeatShrink PE3W04917/HS-48](#)



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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 Km]		81 [265.75]		Ohms/1000ft [Ohms/
DC Resistance Outer Conductor 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.)	0.66	0.87	1.16	1.82	2.29	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*	48 in [121.92 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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PE3W04917/HS-48

How to Order

Part Number Configuration:

PE3W04917/HS

- xx

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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 48 Inch 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.

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 48 Inch Length Using PE-C100-LSZH Coax with HeatShrink PE3W04917/HS-48](https://www.pasternack.com/sma-female-fakra-jack-pe-c100-lszh-cable-assembly-pe3w04917-hs-48-p.aspx)

URL: <https://www.pasternack.com/sma-female-fakra-jack-pe-c100-lszh-cable-assembly-pe3w04917-hs-48-p.aspx>

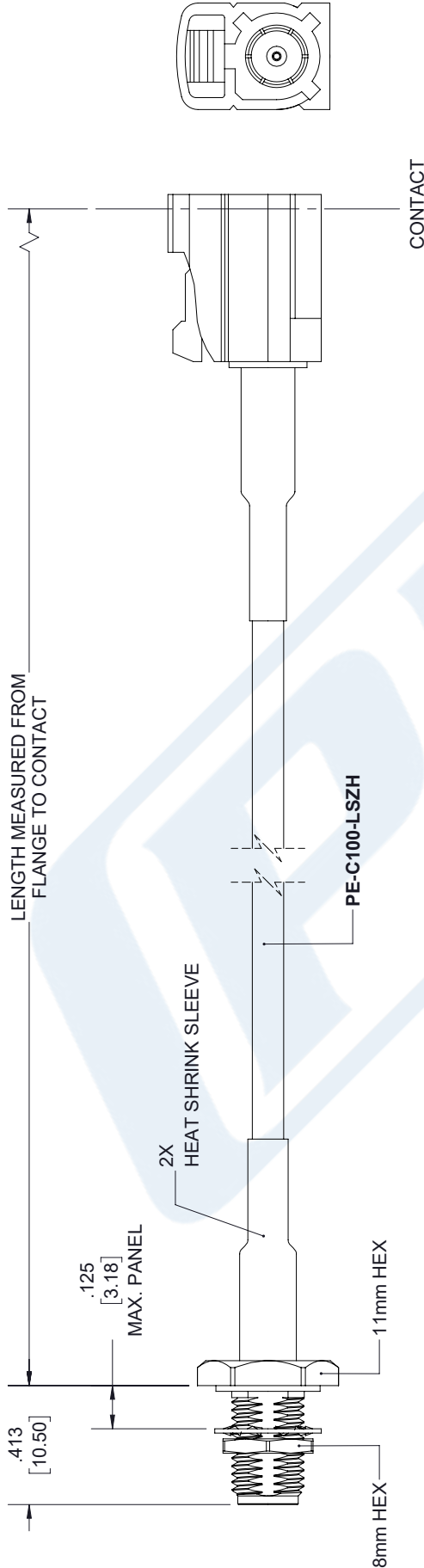
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such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

PE3W04917/HS-48 CAD Drawing

SMA Female Bulkhead to Water Blue FAKRA Jack Cable 48 Inch

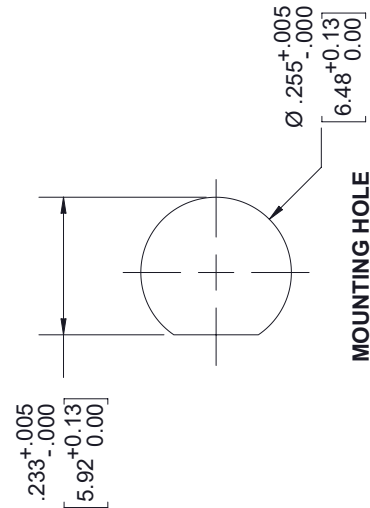
Length Using PE-C100-LSZH Coax with HeatShrink

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



SMA FEMALE
BULKHEAD

FAKRA JACK
CODING - Z



PE PASTERNAK an INFINITO brand Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com e-mail: sales@pasternack.com		THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.
SHEET 1 OF 1		SCALE N/A
SIZE A		DRAWN BY K.DANG
CAGE 53919		PART NUMBER PE3W04917/HS
THIRD-ANGLE PROJECTION		REV A

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