



Water Blue FAKRA Jack to FAKRA Jack Right Angle Low Loss Cable Using PE-C100-LSZH Coax

TECHNICAL DATA SHEET

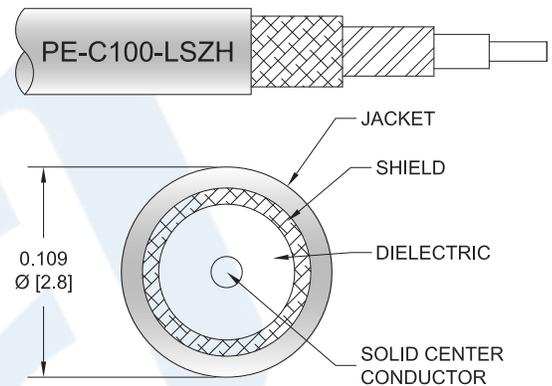
PE3C2391

Configuration

- Connector 1: FAKRA Jack
- Connector 2: FAKRA Jack Right Angle
- Cable Type: PE-C100-LSZH
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C2391 water blue FAKRA jack to FAKRA jack right angle 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 FAKRA to FAKRA cable assembly has a jack to jack gender configuration with 50 ohm flexible PE-C100-LSZH coax. The PE3C2391 FAKRA jack to FAKRA jack cable assembly operates to 4 GHz. The right angle FAKRA interface on the PE-C100-LSZH cable allows for easier connections in tight spaces. 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: [Water Blue FAKRA Jack to FAKRA Jack Right Angle Low Loss Cable Using PE-C100-LSZH Coax PE3C2391](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
Velocity of Propagation		66		%
RF Shielding	90			dB
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
Jacket Spark			2,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			100	250	500	1000	4000	MHz	
PE3C2391	Custom Lengths Available	Insertion Loss (Typ.)	0.07	0.12	0.17	0.24	0.52	dB/ft	
			0.23	0.38	0.55	0.79	1.72	dB/m	
PE3C2391-12	12 inch	Insertion Loss (Typ.)	0.37	0.42	0.47	0.54	0.83	dB	0.031
PE3C2391-24	24 inch	Insertion Loss (Typ.)	0.44	0.53	0.64	0.78	1.35	dB	0.042
PE3C2391-36	36 inch	Insertion Loss (Typ.)	0.51	0.65	0.8	1.02	1.87	dB	0.052
PE3C2391-48	48 inch	Insertion Loss (Typ.)	0.58	0.76	0.97	1.26	2.39	dB	0.062
PE3C2391-60	60 inch	Insertion Loss (Typ.)	0.65	0.88	1.13	1.5	2.91	dB	0.072

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.031 pounds
Additional Weight per Inch:	0.00084 pounds

Mechanical Specifications

Cable Assembly

Weight 0.031 lbs [14.06 g]

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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	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

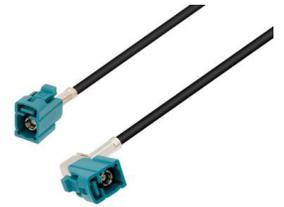
Description	Connector 1	Connector 2
Type	FAKRA Jack Push-On	FAKRA Jack Right Angle Push-On
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel
Body Material and Plating	Plastic	Plastic

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: [Water Blue FAKRA Jack to FAKRA Jack Right Angle Low Loss Cable Using PE-C100-LSZH Coax PE3C2391](#)



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PE3C2391

How to Order

Part Number Configuration:

PE3C2391

- **xx**

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C2391-12 = 12 inches long cable
PE3C2391-100cm = 100 cm long cable

Water Blue FAKRA Jack to FAKRA Jack Right Angle Low Loss Cable Using PE-C100-LSZH 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: [Water Blue FAKRA Jack to FAKRA Jack Right Angle Low Loss Cable Using PE-C100-LSZH Coax PE3C2391](https://www.pasternack.com/fakra-jack-to-fakra-jack-low-loss-cable-using-pe-c100-lszh-pe3c2391-p.aspx)

URL: <https://www.pasternack.com/fakra-jack-to-fakra-jack-low-loss-cable-using-pe-c100-lszh-pe3c2391-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.

PE3C2391 CAD Drawing

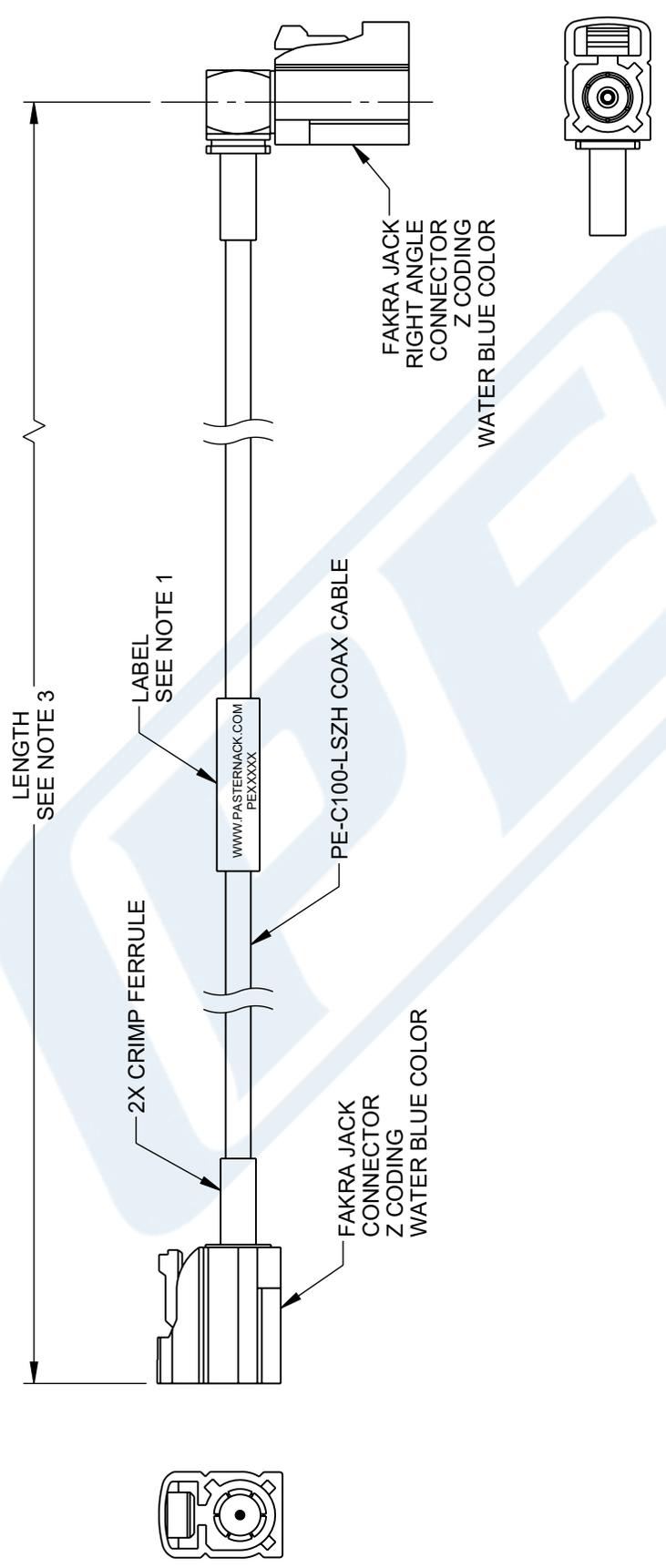
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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	10/10/2023	DMAY	AGANWANI



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.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.	
TOLERANCES:	FRACTIONS
.X = ±.2 [5]	±.732
.XX = ±.02 [0.5]	ANGLES ± 1°
.XXX = ±.005 [0.13]	CABLE LENGTH TOLERANCES:
	<12 [305] = ±.1 [25] / -0
	>12 [305] ≤ 60 [1524] = ±.2 [5] / -0
	>60 [1524] ≤ 120 [3048] = ±.4 [10.2] / -0
	>120 [3048] ≤ 300 [7620] = ±.6 [15.2] / -0
	>300 [7620] = ±.5% / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE NON-CRITICAL FEATURES. DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.	

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Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION:
WATER BLUE FAKRA JACK TO FAKRA JACK RIGHT ANGLE LOW LOSS CABLE USING PE-C100-LSZH COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	DMAY	PE3C2391

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	SCALE	NONE	SHEET	1 OF 1
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