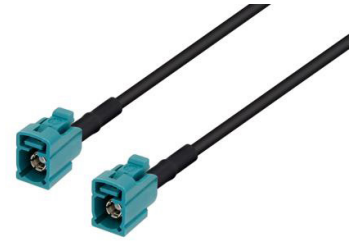


Water Blue FAKRA Jack to FAKRA Jack Low Loss Cable Using PE-C100-LSZH Coax with HeatShrink



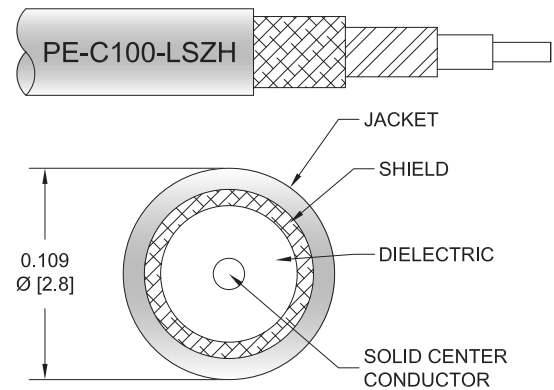
PE38746Z/HS

Configuration

- Connector 1: FAKRA Jack
- Connector 2: FAKRA Jack
- 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
- 300 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

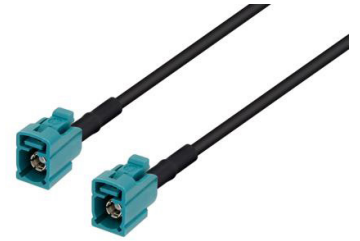
Pasternack's PE38746Z/HS water blue FAKRA jack to FAKRA jack cable using PE-C100-LSZH coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack FAKRA to FAKRA cable assembly has a jack to jack gender configuration with 50 ohm flexible PE-C100-LSZH coax. The PE38746Z/HS FAKRA jack to FAKRA jack cable assembly operates to 4 GHz. 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.4:1	
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		81 [265.75]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			335	Vrms

Water Blue FAKRA Jack to FAKRA Jack Low Loss Cable Using PE-C100-LSZH Coax with HeatShrink



PE38746Z/HS

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Jacket Spark			2,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	4000	MHz	
PE38746Z/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.07	0.115	0.167	0.24	0.522	dB/ft	
			0.23	0.38	0.55	0.79	1.72	dB/m	
PE38746Z/HS-12	12 In	Insertion Loss (Typ.)	0.27	0.32	0.37	0.44	0.73	dB	0.024
PE38746Z/HS-24	24 In	Insertion Loss (Typ.)	0.34	0.43	0.54	0.68	1.25	dB	0.035
PE38746Z/HS-36	36 In	Insertion Loss (Typ.)	0.41	0.55	0.71	0.92	1.77	dB	0.045
PE38746Z/HS-48	48 In	Insertion Loss (Typ.)	0.48	0.66	0.87	1.16	2.29	dB	0.055
PE38746Z/HS-60	60 In	Insertion Loss (Typ.)	0.55	0.78	1.04	1.4	2.81	dB	0.065

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:	0.1 dB
Base Weight:	0.024 pounds
Additional Weight per Inch:	0.00084 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.014 lbs [6.35 g]

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]

Water Blue FAKRA Jack to FAKRA Jack Low Loss
Cable Using PE-C100-LSZH Coax with HeatShrink



PE38746Z/HS

Connectors

Description	Connector 1	Connector 2
Type	FAKRA Jack	FAKRA Jack
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Color	WB	WB
Mating Cycles	300	300
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

Environmental Specifications

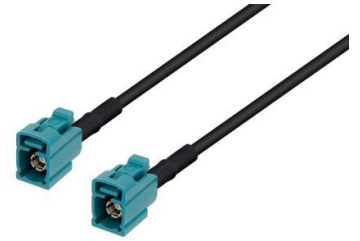
Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

Water Blue FAKRA Jack to FAKRA Jack Low Loss Cable Using PE-C100-LSZH Coax with HeatShrink



PE38746Z/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE38746Z/HS - xx

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length
Base Number

Example: PE38746Z/HS-12 = 12 inches long cable
PE38746Z/HS-100cm = 100 cm long cable

Water Blue FAKRA Jack to FAKRA Jack Low Loss Cable 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: [Water Blue FAKRA Jack to FAKRA Jack Low Loss Cable Using PE-C100-LSZH Coax with HeatShrink PE38746Z/HS](#)

URL: <https://www.pasternack.com/fakra-jack-to-fakra-jack-low-loss-cable-using-pe-c100-lszh-with-heatshrink-pe38746z-hs-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE38746Z/HS CAD Drawing

Water Blue FAKRA Jack to FAKRA Jack Low Loss Cable Using PE-C100-LSZH Coax with HeatShrink

