

Water Blue FAKRA Plug to MCX Plug Low Loss Cable 12 Inch Length Using PE-C100-LSZH Coax

PE3W08741-12

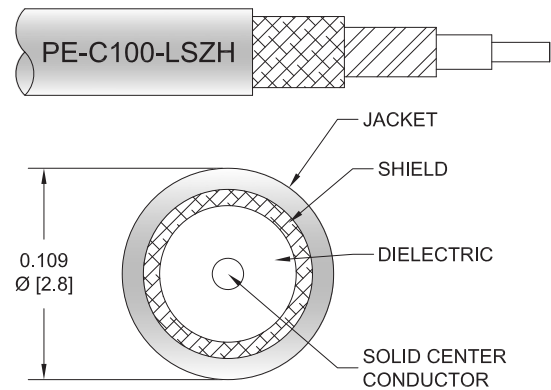


Configuration

- Connector 1: FAKRA Plug
- Connector 2: MCX Plug
- Cable Type: PE-C100-LSZH
- Coax Flex Type: Flexible

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- LSZH Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W08741-12 water blue FAKRA plug to MCX plug 12 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 FAKRA to MCX cable assembly has a plug to plug gender configuration with 50 ohm flexible PE-C100-LSZH coax. The PE3W08741-12 FAKRA plug to MCX plug cable assembly operates to 3 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		3	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]

Water Blue FAKRA Plug to MCX Plug Low Loss Cable 12 Inch Length Using PE-C100-LSZH Coax



PE3W08741-12

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.27	0.32	0.37	0.44	0.65	dB

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Length	12 in [304.8 mm]
Width/Diameter	0.5 in [12.7 mm]
Weight	0.024 lbs [10.89 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 Plug to MCX Plug Low Loss Cable
12 Inch Length Using PE-C100-LSZH Coax



PE3W08741-12

Connectors

Description	Connector 1	Connector 2
Type	FAKRA Plug	MCX Plug
Specification		CECC 22220
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Color	WB	
Contact Material and Plating	Phosphor Bronze, Gold	Brass, Gold
Contact Plating Specification		30 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Nickel	
Body Material and Plating	Plastic	Brass, Nickel
Body Plating Specification		100 µin minimum

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 Plug to MCX Plug Low Loss Cable 12 Inch Length Using PE-C100-LSZH Coax



PE3W08741-12

Typical Performance Data

How to Order

Part Number Configuration:

PE3W08741

- XX

uu

- Unit of Measure:

cm = Centimeters

<blank> = Inches

- Length

- Base Number

Example: PE3W08741-12 = 12 inches long cable
PE3W08741-100cm = 100 cm long cable

Water Blue FAKRA Plug to MCX Plug Low Loss Cable 12 Inch Length 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.

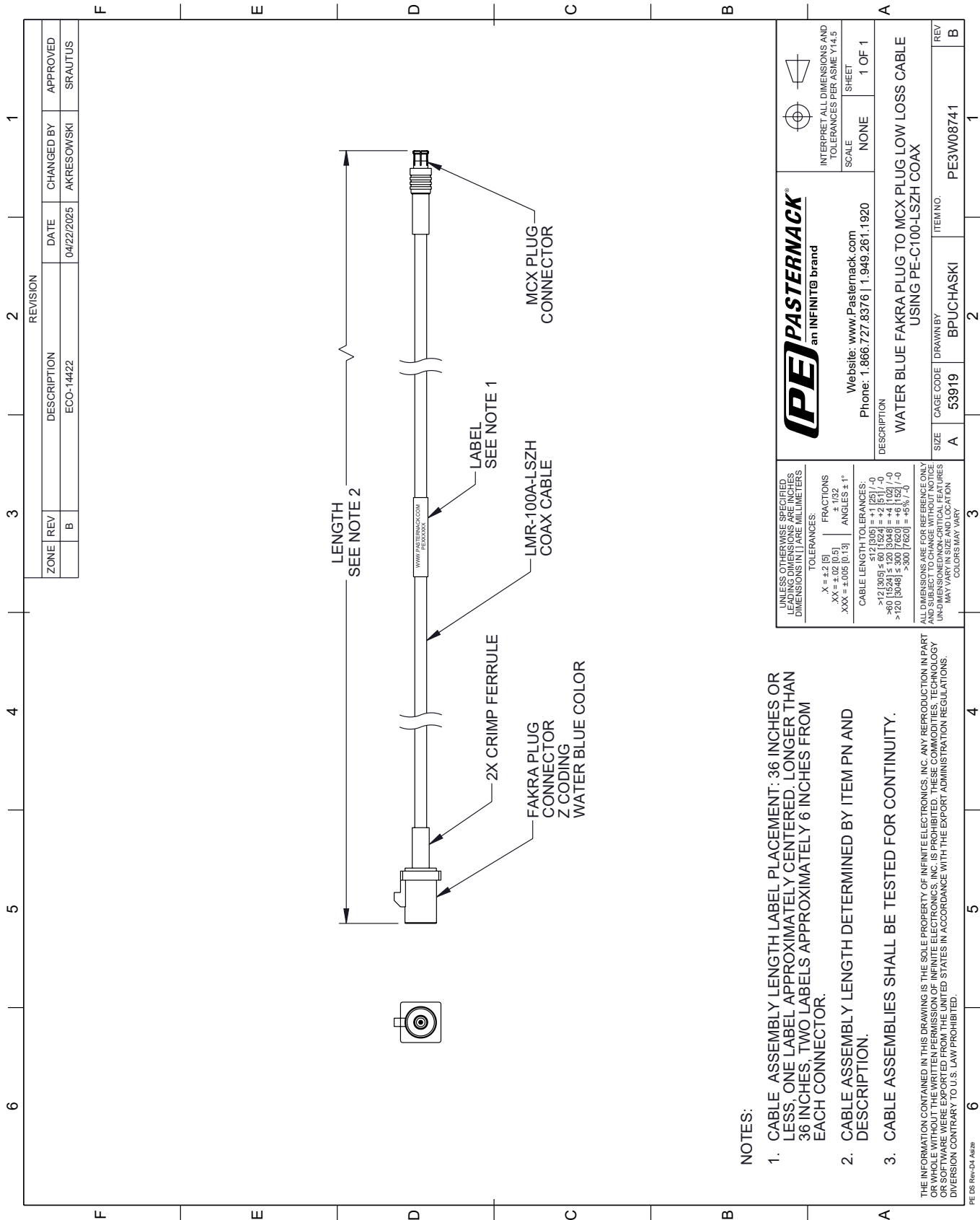
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Water Blue FAKRA Plug to MCX Plug Low Loss Cable 12 Inch Length Using PE-C100-LSZH Coax PE3W08741-12](#)

URL: <https://www.pasternack.com/fakra-plug-to-mcx-plug-low-loss-cable-12-inch-length-using-pe-c100-lszh-pe3w08741-12-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.

PE3W08741-12 CAD Drawing

Water Blue FAKRA Plug to MCX Plug Low Loss Cable 12 Inch Length Using PE-C100-LSZH Coax



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	B	ECO-14422	04/22/2025	AKRESOWSKI	SRAUTUS

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES. DIMENSIONS IN [] ARE MILLIMETERS. TOLERANCES: X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13] FRACTIONS: ± 1/32 ANGLES ± 1° CABLE LENGTH TOLERANCES: ≤ 12 [305] = ±.125 [-0] >12 [305] ≤ 60 [1524] = ±.125 [-0] >60 [1524] ≤ 120 [3048] = ±.125 [-0] >120 [3048] ≤ 300 [7620] = ±.125 [-0] ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS SHALL BE TO THE CENTER OF THE CABLE UNLESS OTHERWISE SPECIFIED. DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		PE PASTERNAK® an INFINITE® brand Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
DESCRIPTION WATER BLUE FAKRA PLUG TO MCX PLUG LOW LOSS CABLE USING PE-C100-LSZH COAX					
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV	
A	53919	BPUCHASKI	PE3W08741	B	