



Water Blue FAKRA Jack Right Angle to SMA Female
Low Loss Cable Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet

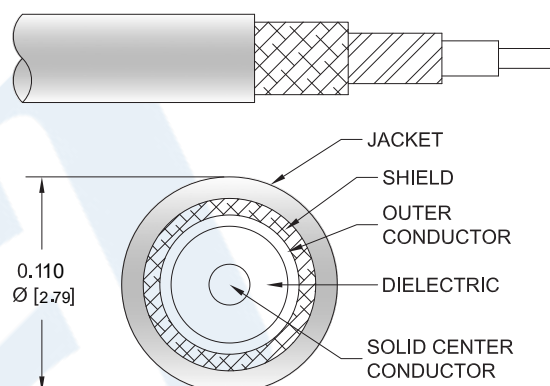
PE3C8110

Configuration

- Connector 1: FAKRA Jack Right Angle
- Connector 2: SMA Female
- Cable Type: LMR-100A

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C8110 water blue FAKRA jack right angle to SMA female cable using LMR-100 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 SMA cable assembly has a jack to female gender configuration with 50 ohm flexible LMR-100A coax. The PE3C8110 FAKRA jack to SMA female cable assembly operates to 4 GHz. The right angle FAKRA interface on the LMR-100A 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 Right Angle to SMA Female Low Loss Cable Using LMR-100 Coax PE3C8110](#)



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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		1.54 [5.05]		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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ω/1000ft [Ω/Km]
Jacket Spark			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.07	0.115	0.165	0.24	0.508	dB/ft
	0.23	0.38	0.54	0.79	1.67	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB for the FAKRA Jack right angle connector and 0.1 dB for the SMA Female straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.034 lbs [15.42 g]

Cable

Cable Type LMR-100A
 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 PVC, Black
 Jacket Diameter 0.11 in [2.79 mm]

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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 Right Angle	SMA Female
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Phosphor Bronze, Gold	Beryllium Copper, Gold
Contact Plating Specification		50µ in. minimum
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating	Brass, Nickel	Brass, Gold
Outer Conductor Plating Specification		3µ in. minimum
Body Material and Plating	Plastic	Brass, Gold
Body Plating Specification		3µ in. minimum

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3C8110

- **xx**

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

Example: PE3C8110-12 = 12 inches long cable
PE3C8110-100cm = 100 cm long cable

Water Blue FAKRA Jack Right Angle to SMA Female Low Loss Cable Using LMR-100 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.

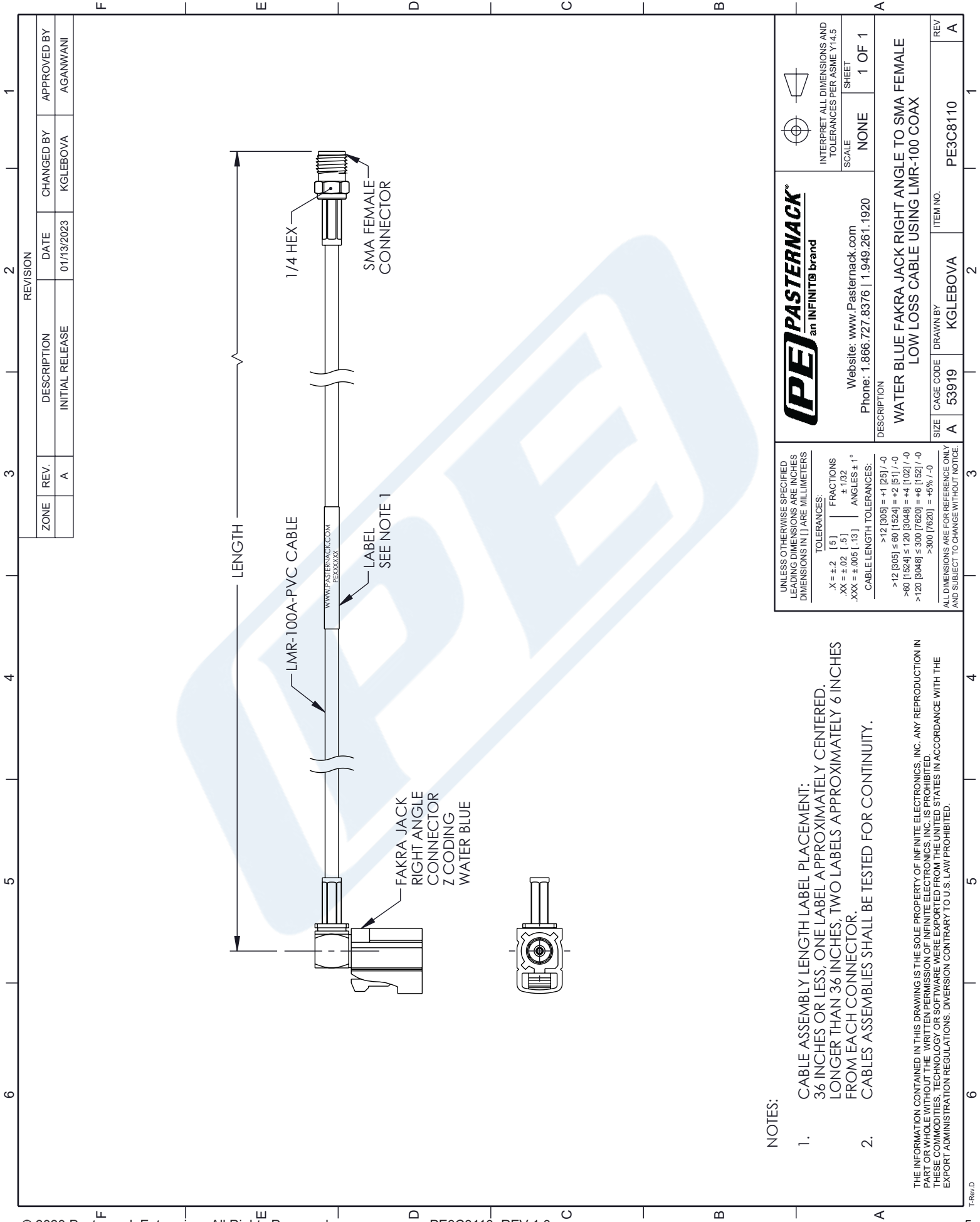
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Water Blue FAKRA Jack Right Angle to SMA Female Low Loss Cable Using LMR-100 Coax PE3C8110](https://www.pasternack.com/fakra-jack-right-angle-to-sma-female-low-loss-cable-using-lmr-100-pe3c8110-p.aspx)

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PE3C8110 CAD Drawing

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NOTES:

- 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.
- CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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	SCALE	SHEET
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	NONE	1 OF 1
DESCRIPTION		
WATER BLUE FAKRA JACK RIGHT ANGLE TO SMA FEMALE LOW LOSS CABLE USING LMR-100 COAX		
SIZE	CAGE CODE	ITEM NO.
A	53919	PE3C8110
DRAWN BY		REV
KGLEBOVA		A