

Water Blue FAKRA Jack Right Angle to MCX Plug Right Angle Low Loss Cable Using LMR-100A-UF Coax



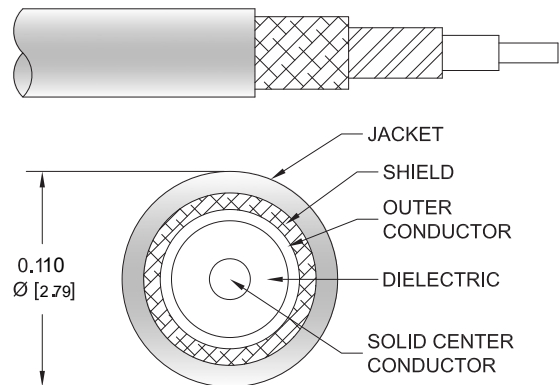
PE3W13801

Configuration

- Connector 1: FAKRA Jack Right Angle
- Connector 2: MCX Plug Right Angle
- Cable Type: LMR-100A-UF
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W13801 water blue FAKRA jack right angle to MCX plug right angle cable using LMR-100A-UF 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 jack to plug gender configuration with 50 ohm flexible LMR-100A-UF coax. The PE3W13801 FAKRA jack to MCX plug cable assembly operates to 3 GHz. The right angle FAKRA and right angle MCX interfaces on the LMR-100A-UF cable allow 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.

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		1.54 [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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ohms/1000ft [Ohms/Km]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
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	3000	MHz	
PE3W13801	Custom Lengths Available	Insertion Loss (Typ.)	0.07	0.158	0.165	0.24	0.432	dB/ft	
			0.23	0.52	0.55	0.79	1.42	dB/m	
PE3W13801-24	24 In	Insertion Loss (Typ.)	0.54	0.72	0.73	0.88	1.27	dB	0.04
PE3W13801-36	36 In	Insertion Loss (Typ.)	0.61	0.88	0.9	1.12	1.7	dB	0.048
PE3W13801-48	48 In	Insertion Loss (Typ.)	0.68	1.04	1.06	1.36	2.13	dB	0.056
PE3W13801-100CM	100 CM	Insertion Loss (Typ.)	0.63	0.92	0.95	1.19	1.82	dB	0.05
PE3W13801-200CM	200 CM	Insertion Loss (Typ.)	0.86	1.44	1.49	1.98	3.24	dB	0.076

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:	0.2 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.031 pounds
Additional Weight per Inch:	0.00067 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.031 lbs [14.06 g]

Cable

Cable Type	LMR-100A-UF
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper
Jacket Material	TPE, Black
Jacket Diameter	0.11 in [2.79 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 Right Angle to MCX Plug
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Connectors

Description	Connector 1	Connector 2
Type	FAKRA Jack Right Angle	MCX Plug Right Angle
Specification		CECC 22220
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
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

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

Plotted and Other Data

Notes:

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PE3W13801

Typical Performance Data

How to Order

Part Number Configuration:

PE3W13801

- xx

uu

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

Length

Base Number

Example: PE3W13801-12 = 12 inches long cable
PE3W13801-100cm = 100 cm long cable

Water Blue FAKRA Jack Right Angle to MCX Plug Right Angle Low Loss Cable Using LMR-100A-UF 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 MCX Plug Right Angle Low Loss Cable Using LMR-100A-UF Coax PE3W13801](https://www.pasternack.com/fakra-jack-right-angle-to-mcx-plug-right-angle-low-loss-cable-using-lmr-100a-uf-pe3w13801-p.aspx)

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PE3W13801 CAD Drawing

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