



Water Blue FAKRA Jack Right Angle to SMA Male Cable  
50 cm Length Using LMR-100 Coax , LF Solder

RF Cable Assemblies Technical Data Sheet

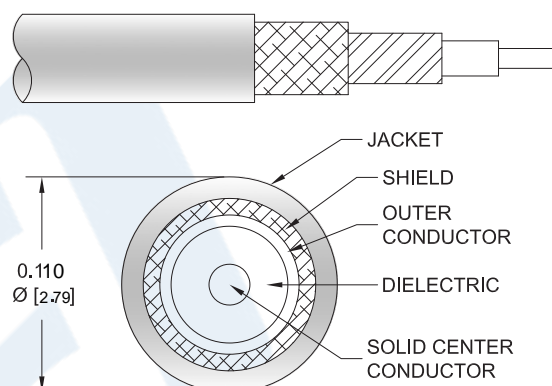
PE3W08152LF-50CM

### Configuration

- Connector 1: FAKRA Jack Right Angle
- Connector 2: SMA Male
- 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 PE3W08152LF-50CM water blue FAKRA jack right angle to SMA male 50 cm 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 male gender configuration with 50 ohm flexible LMR-100A coax. The PE3W08152LF-50CM FAKRA jack to SMA male 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 Male Cable 50 cm Length Using LMR-100 Coax , LF Solder PE3W08152LF-50CM](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.45:1	
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 (Max.)	0.4	0.41	0.46	0.55	1.1	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.2 dB for the FAKRA connector and 0.1 dB for the SMA connector.

#### Mechanical Specifications

##### Cable Assembly

Length\* 19.68 in [499.87 mm]

##### 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]

One Time Minimum Bend Radius 0.25 in [6.35 mm]

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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 Male
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Phosphor Bronze, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Nickel	
Body Material and Plating	Plastic	Brass, Gold
Coupling Nut Material and Plating		Brass, Gold
Hex Size		5/16 in
Torque		5 in-lbs [0.57 Nm]

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

**Plotted and Other Data**

Notes:

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## Water Blue FAKRA Jack Right Angle to SMA Male Cable 50 cm Length Using LMR-100 Coax , LF Solder

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PE3W08152LF-50CM

#### How to Order

Part Number Configuration:

**PE3W08152LF**

- **xx**

**uu**

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

Example: PE3W08152LF-12 = 12 inches long cable  
PE3W08152LF-100cm = 100 cm long cable

Water Blue FAKRA Jack Right Angle to SMA Male Cable 50 cm Length Using LMR-100 Coax , LF Solder 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.

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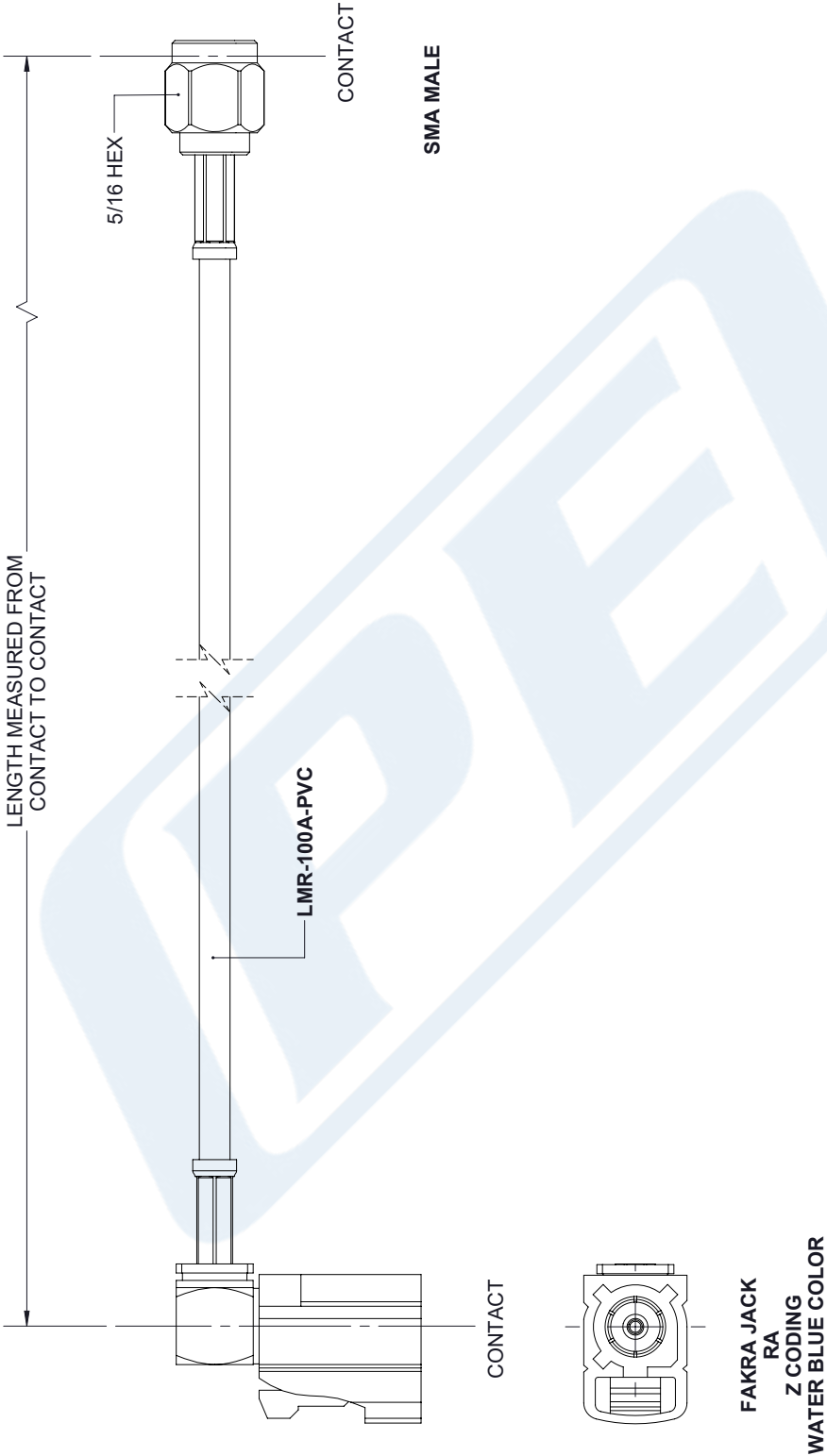
URL:

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.

PE3W08152LF-50CM CAD Drawing

Water Blue FAKRA Jack Right Angle to SMA Male Cable  
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	8/20/2020	S.ELLIS



UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ± .2	[.08]	FRACTIONS
.XX = ± .02	[.51]	± 1/32
.XXX = ± .005	[.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305]	= +1 [25] / -0
12 [305] < L ≤ 60 [1524]	= +2 [51] / -0
60 [1524] < L ≤ 120 [3048]	= +4 [102] / -0
120 [3048] < L ≤ 300 [7620]	= +6 [152] / -0
300 [7620] < L =	+5% / -0


ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

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an INFINITI® brand

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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	K.DANG	PE3W08152LF

THIRD-ANGLE PROJECTION



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SCALE	N/A		
REV	A		