

## Water Blue FAKRA Jack to SMA Male Low Loss Cable Using LMR-100A-UF Coax with HeatShrink



### PE3W18617/HS

#### Configuration

- Connector 1: FAKRA Jack
- Connector 2: SMA Male
- Cable Type: LMR-100A-UF
- Coax Flex Type: Flexible

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W18617/HS water blue FAKRA jack to SMA male 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 SMA cable assembly has a jack to male gender configuration with 50 ohm flexible LMR-100A-UF coax. The PE3W18617/HS FAKRA jack to SMA male 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		1.54 [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]
Operating Voltage (AC)			335	Vrms

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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					MHz	
PE3W18617/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.07	0.115	0.166	0.24	0.511	dB/ft	
			0.23	0.38	0.55	0.79	1.68	dB/m	
PE3W18617/HS-24	24 In	Insertion Loss (Typ.)	0.34	0.43	0.54	0.68	1.23	dB	0.036
PE3W18617/HS-36	36 In	Insertion Loss (Typ.)	0.41	0.55	0.7	0.92	1.74	dB	0.044
PE3W18617/HS-48	48 In	Insertion Loss (Typ.)	0.48	0.66	0.87	1.16	2.25	dB	0.052
PE3W18617/HS-100CM	100 CM	Insertion Loss (Typ.)	0.43	0.58	0.75	0.99	1.88	dB	0.046
PE3W18617/HS-200CM	200 CM	Insertion Loss (Typ.)	0.66	0.96	1.29	1.78	3.56	dB	0.072

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:	0.027 pounds
Additional Weight per Inch:	0.00067 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter	0.5 in [12.7 mm]
Weight	0.019 lbs [8.62 g]

**Cable**

Cable Type	LMR-100A-UF
Impedance	50 Ohms
Inner Conductor Type	Stranded
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]

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**Connectors**

Description	Connector 1	Connector 2
Type	FAKRA Jack	SMA Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Color	WB	
Mating Cycles	300	500
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
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum
Hex Size		5/16 inch
Torque		3 in-lbs 0.34 Nm

**Environmental Specifications**

Operating Range Temperature -40 to +85 deg C

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

**Plotted and Other Data**

Notes:

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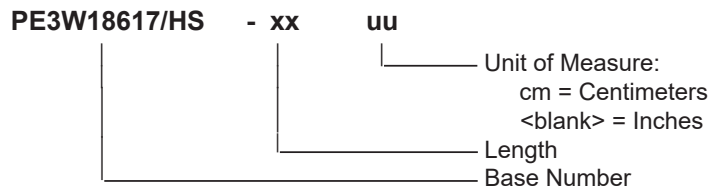


### PE3W18617/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE3W18617/HS-12 = 12 inches long cable  
PE3W18617/HS-100cm = 100 cm long cable

Water Blue FAKRA Jack to SMA Male Low Loss Cable Using LMR-100A-UF 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 SMA Male Low Loss Cable Using LMR-100A-UF Coax with HeatShrink PE3W18617/HS](#)

URL: <https://www.pasternack.com/fakra-jack-to-sma-male-low-loss-cable-using-lmr-100a-uf-with-heatshrink-pe3w18617-hs-p.aspx>

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# PE3W18617/HS CAD Drawing

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