

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



PE3W15327/HS

Configuration

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

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W15327/HS SMA male right angle to water blue FAKRA jack 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 SMA to FAKRA cable assembly has a male to jack gender configuration with 50 ohm flexible LMR-100A coax. The PE3W15327/HS SMA male to FAKRA jack cable assembly operates to 4 GHz. The right angle SMA 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.

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]

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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	
PE3W15327/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.064	0.115	0.165	0.24	0.502	dB/ft	
			0.21	0.38	0.55	0.79	1.65	dB/m	
PE3W15327/HS-24	24 In	Insertion Loss (Typ.)	0.43	0.53	0.63	0.78	1.31	dB	0.04
PE3W15327/HS-36	36 In	Insertion Loss (Typ.)	0.5	0.65	0.8	1.02	1.81	dB	0.049
PE3W15327/HS-48	48 In	Insertion Loss (Typ.)	0.56	0.76	0.96	1.26	2.31	dB	0.058
PE3W15327/HS-100CM	100 CM	Insertion Loss (Typ.)	0.51	0.68	0.85	1.09	1.95	dB	0.052
PE3W15327/HS-200CM	200 CM	Insertion Loss (Typ.)	0.72	1.06	1.39	1.88	3.6	dB	0.082

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: 0.1 dB
- Base Weight: 0.031 pounds
- Additional Weight per Inch: 0.00075 pounds

Mechanical Specifications

Cable Assembly

- Width/Diameter 0.5 in [12.7 mm]
- Weight 0.022 lbs [9.98 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]
- 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	SMA Male Right Angle	FAKRA Jack
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Color		WB
Mating Cycles		300
Contact Material and Plating	Brass, Gold	Phosphor Bronze, Gold
Dielectric Type	Teflon	PTFE
Outer Conductor Material and Plating		Brass, Nickel
Body Material and Plating	Brass, Gold	Plastic
Coupling Nut Material and Plating	Brass, Gold	
Hex Size	5/16 in	
Torque	5 in-lbs 0.57 Nm	

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3W15327/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3W15327/HS - xx uu



Example: PE3W15327/HS-12 = 12 inches long cable
PE3W15327/HS-100cm = 100 cm long cable

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

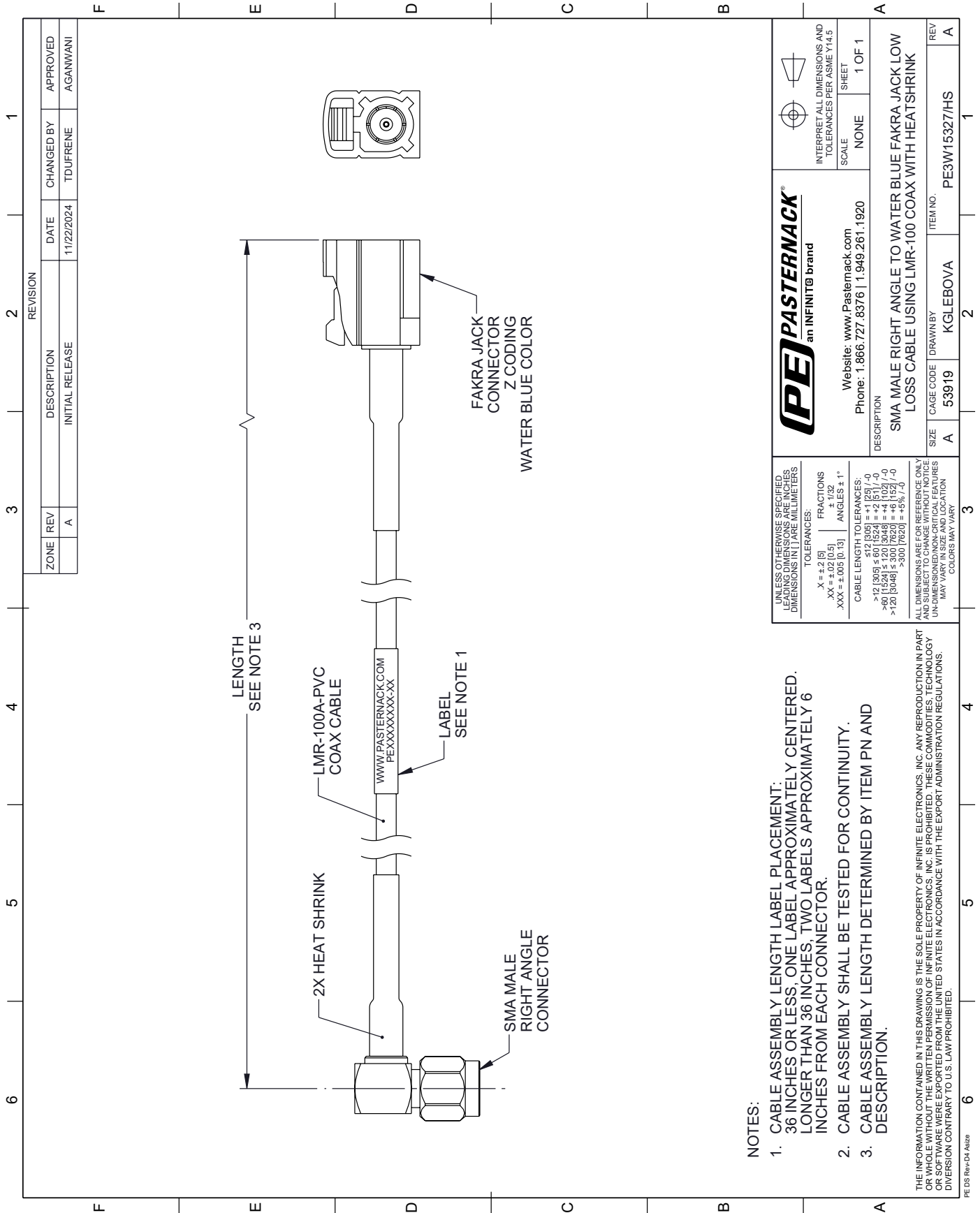
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to Water Blue FAKRA Jack Low Loss Cable Using LMR-100 Coax with HeatShrink PE3W15327/HS](https://www.pasternack.com/sma-male-right-angle-to-fakra-jack-low-loss-cable-using-lmr-100-with-heatshrink-pe3w15327-hs-p.aspx)

URL: <https://www.pasternack.com/sma-male-right-angle-to-fakra-jack-low-loss-cable-using-lmr-100-with-heatshrink-pe3w15327-hs-p.aspx>

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PE3W15327/HS CAD Drawing

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



REVISION			
ZONE	REV	DESCRIPTION	DATE
	A	INITIAL RELEASE	11/22/2024
		CHANGED BY	TDUFRENE
		APPROVED	AGANWANI

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN PAREMILLIMETERS
TOLERANCES:
X = ± 0.05
.XX = ± 0.02 (0.5)
.XXX = ± 0.01 (0.1)
FRACTIONS ± 1/32
ANGLES ± 1°
CABLE LENGTH TOLERANCES:
>12 (305) ≤ 60 (1524) = ± 0.01 (0.25) / -0
>60 (1524) ≤ 120 (3048) = ± 0.02 (0.5) / -0
>120 (3048) ≤ 300 (7620) = ± 0.03 (0.75) / -0
>300 (7620) = ± 0.04 (1.0)
ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE SPECIFIED. DIMENSIONS ON CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN PAREMILLIMETERS

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE

SHEET 1 OF 1

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION
SMA MALE RIGHT ANGLE TO WATER BLUE FAKRA JACK LOW LOSS CABLE USING LMR-100 COAX WITH HEATSHRINK

REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/22/2024	AGANWANI

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KGLEBOVA	PE3W15327/HS

PE DS Rev-04 A1822

- 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.
 - CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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