

## Water Blue FAKRA Jack to Reverse Polarity SMA Jack Low Loss Cable Using LMR-100 Coax with HeatShrink



### RF Cable Assemblies Technical Data Sheet

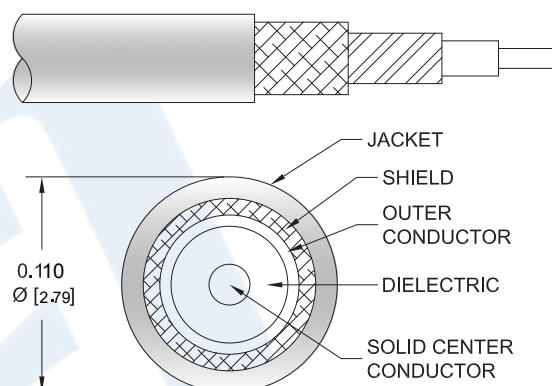
**PE3C8150/HS**

#### Configuration

- Connector 1: FAKRA Jack
- Connector 2: SMA Jack Reverse Polarity
- Cable Type: LMR-100A

#### Features

- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C8150/HS water blue FAKRA jack to reverse polarity SMA 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 FAKRA to reverse polarity SMA cable assembly has a jack to jack gender configuration with 50 ohm flexible LMR-100A coax. 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
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

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 Reverse Polarity SMA Jack Low Loss Cable Using LMR-100 Coax with HeatShrink PE3C8150/HS](#)



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**PE3C8150/HS**

### Mechanical Specifications

#### Cable Assembly

Weight 0.025 lbs [11.34 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]

#### Connectors

Description	Connector 1	Connector 2
Type	FAKRA Jack	SMA Jack Reverse Polarity
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Phosphor Bronze, Gold	Gold
Contact Plating Specification		MIL-G-45204
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Nickel	
Body Material and Plating	Plastic	Brass, Nickel
Body Plating Specification		QQ-N-290

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

### Plotted and Other Data

Notes:

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**RF Cable Assemblies Technical Data Sheet**

**PE3C8150/HS**

**How to Order**

Part Number Configuration:

**PE3C8150/HS**

**- xx**

**uu**

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

Example: PE3C8150/HS-12 = 12 inches long cable  
PE3C8150/HS-100cm = 100 cm long cable

Water Blue FAKRA Jack to Reverse Polarity SMA 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.

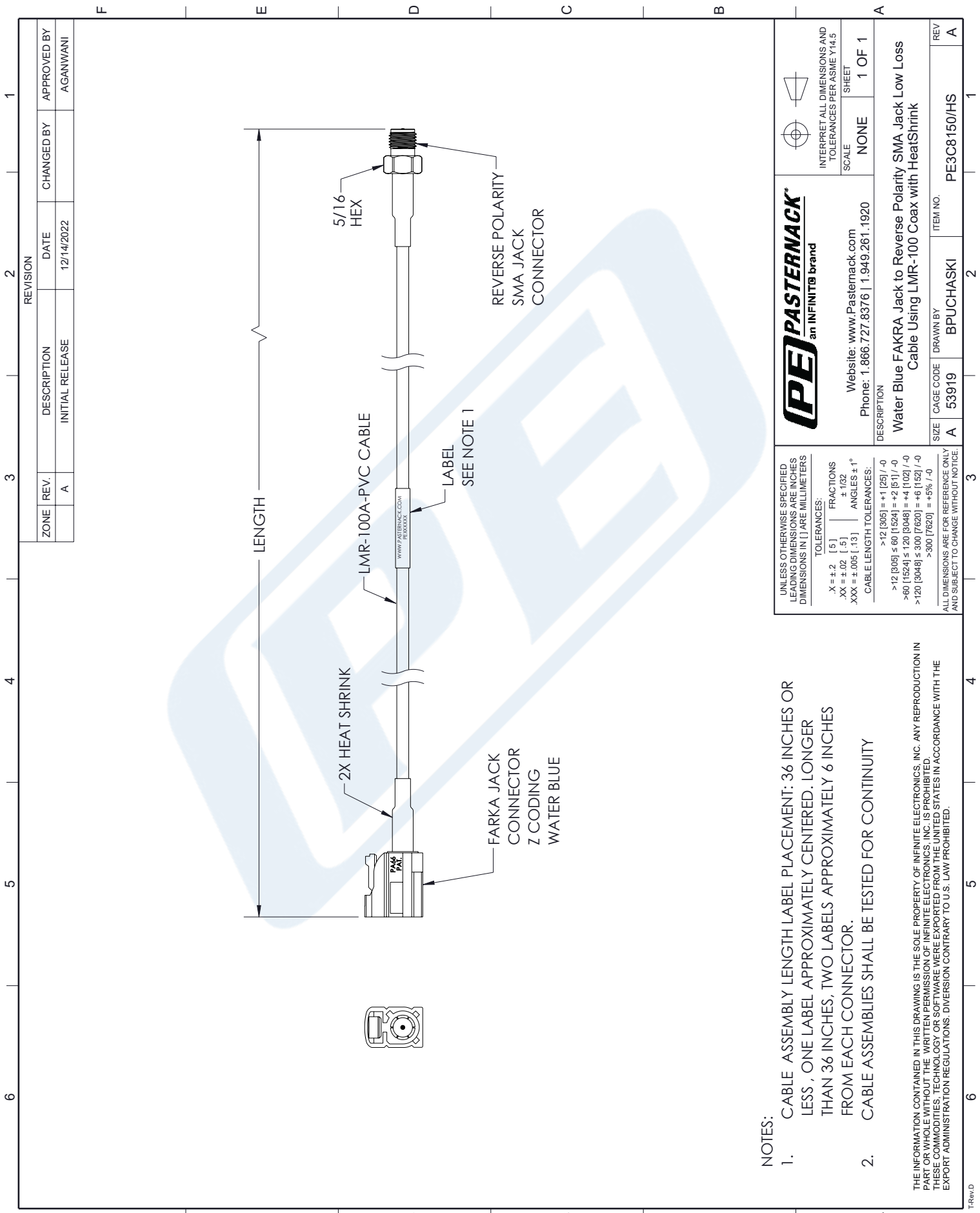
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URL: <https://www.pasternack.com/jack-to-reverse-polarity-sma-female-low-loss-cable-using-lmr-100-with-heatshrink-pe3c8150-hs-p.aspx>

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.

# PE3C8150/HS CAD Drawing



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Loss Cable Using LMR-100 Coax with HeatShrink



## NOTES:

1. 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.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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 <b>PASTERNAK</b> an INFINITO brand		 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920		DESCRIPTION Water Blue FAKRA Jack to Reverse Polarity SMA Jack Low Loss Cable Using LMR-100 Coax with HeatShrink	
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	BPUCHASKI	PE3C8150/HS

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

TOLERANCES:

X = ±.2	[.5]	FRACTIONS
.XX = ±.02	[.13]	± 1/32
XXX = ±.005	[.13]	ANGLES ± 1°

CABLE LENGTH TOLERANCES:

>12 [305]	±.1 [25]	/ -0
>12 [305]	±.06 [1.524]	±.02 [0.51] / -0
>60 [1524]	±.12 [3.048]	±.04 [1.02] / -0
>120 [3048]	±.300 [7.620]	±.06 [1.52] / -0
>300 [7620]	±.5% / -0	

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.