

BNC Male to Water Blue FAKRA Jack Cable  
Using RG316-DS Coax with HeatShrink



**RF Cable Assemblies Technical Data Sheet**

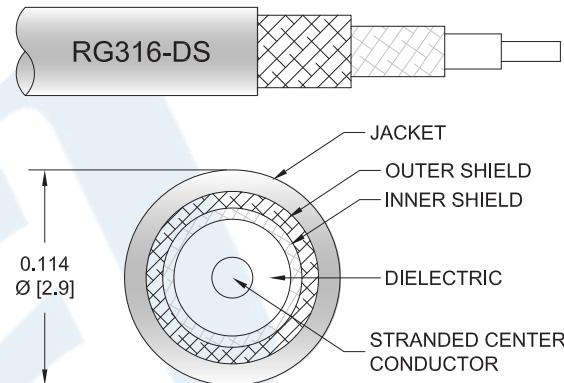
**PE3C9173/HS**

**Configuration**

- Connector 1: BNC Male
- Connector 2: FAKRA Jack
- Cable Type: RG316-DS
- Coax Flex Type: Flexible

**Features**

- Max Frequency 3 GHz
- Shielding Effectivity > 85 dB
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3C9173/HS BNC male to water blue FAKRA jack cable using RG316-DS 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 BNC to FAKRA cable assembly has a male to jack gender configuration with 50 ohm flexible RG316-DS coax. The PE3C9173/HS BNC male to FAKRA jack cable assembly operates to 3 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 85 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: [BNC Male to Water Blue FAKRA Jack Cable Using RG316-DS Coax with HeatShrink PE3C9173/HS](#)

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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	85			dB
Capacitance		28.96 [95.01]		pF/ft [pF/m]
DC Resistance Inner Conductor		83.82 [275]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		5.33 [17.49]		Ω/1000ft [Ω/Km]

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.082	0.128	0.194	0.29	0.535	dB/ft
	0.27	0.42	0.64	0.95	1.76	dB/m

**Electrical Specification Notes:**

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

**Mechanical Specifications**
**Cable Assembly**

Weight 0.049 lbs [22.23 g]

**Cable**

Cable Type	RG316-DS
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.114 in [2.9 mm]

One Time Minimum Bend Radius 0.59 in [14.99 mm]  
Repeated Minimum Bend Radius 1.57 in [39.88 mm]

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**PE3C9173/HS**

### Connectors

Description	Connector 1	Connector 2
Type	BNC Male	FAKRA Jack
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Phosphor Bronze, Gold
Contact Plating Specification	50µ in. minimum	
Dielectric Type	Teflon	Teflon
Outer Conductor Material and Plating		Brass, Nickel
Body Material and Plating	Brass, Nickel	Plastic, Paint
Body Plating Specification	100µ in. minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100µ in. minimum	

### Environmental Specifications

#### Temperature

Operating Range

-40 to +85 deg C

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

### Plotted and Other Data

Notes:

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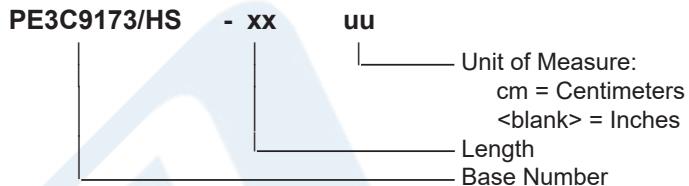


**RF Cable Assemblies Technical Data Sheet**

**PE3C9173/HS**

**How to Order**

Part Number Configuration:



Example: PE3C9173/HS-12 = 12 inches long cable  
PE3C9173/HS-100cm = 100 cm long cable

BNC Male to Water Blue FAKRA Jack Cable Using RG316-DS 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: [BNC Male to Water Blue FAKRA Jack Cable Using RG316-DS Coax with HeatShrink PE3C9173/HS](#)

URL: <https://www.pasternack.com/bnc-male-to-fakra-jack-cable-using-rg316-ds-with-heatshrink-pe3c9173-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.

# PE3C9173/HS CAD Drawing

BNC Male to Water Blue FAKRA Jack Cable Using RG316-DS Coax with HeatShrink

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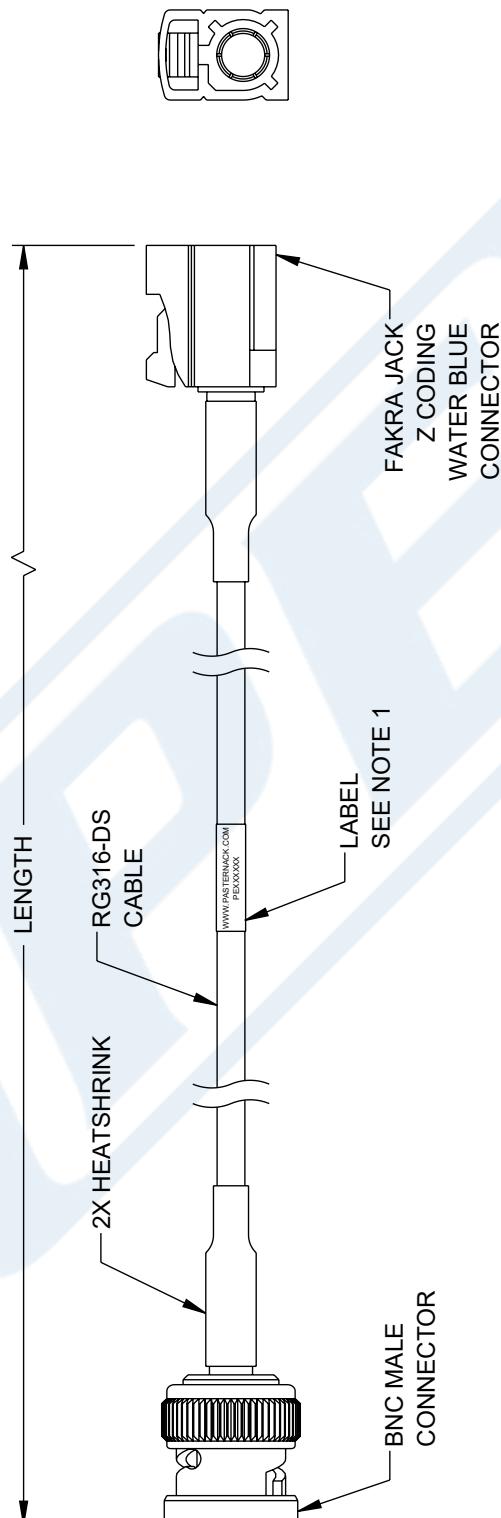
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C

B

A

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A	A	INITIAL RELEASE	05/30/2023	SREITER	AGANWAN



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCH, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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Website: www.Pasternack.com Phone: 1.866.727.8376   1.949.261.1920	DESCRIPTION		
<b>BNC MALE TO WATER BLUE FAKRA JACK CABLE USING RG316-DS COAX WITH HEATSHRINK</b>	SIZE	CAGE CODE	DRAWN BY
A	53919	SREITER	ITEM NO. PE3C9173/HS