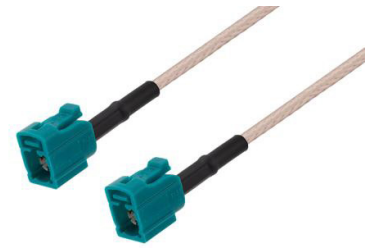


## Water Blue FAKRA Jack to FAKRA Jack Cable Using RG316-DS Coax with HeatShrink



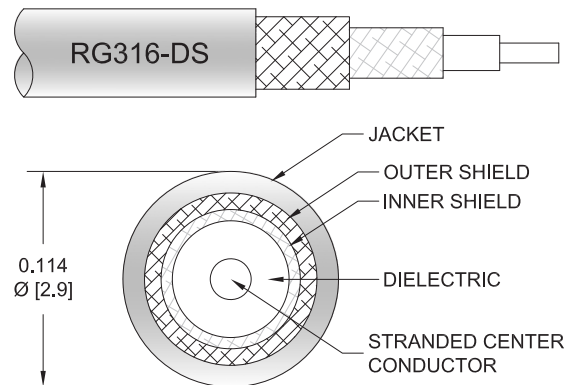
### PE3C4157/HS

#### Configuration

- Connector 1: FAKRA Jack
- 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 PE3C4157/HS water blue FAKRA jack to 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 FAKRA to FAKRA cable assembly has a jack to jack gender configuration with 50 ohm flexible RG316-DS coax. The PE3C4157/HS FAKRA jack 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.

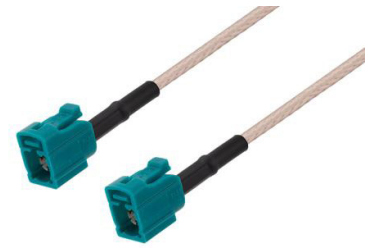
Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

#### 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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		5.33 [17.49]		Ohms/1000ft [Ohms/Km]

#### Specifications by Frequency

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



**PE3C4157/HS**

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency						
PE3C4157/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.13	0.19	0.29	0.536	dB/ft	
			0.28	0.43	0.64	0.96	1.76	dB/m	
PE3C4157/HS-6	6 inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.35	0.47	dB	0.023
PE3C4157/HS-12	12 inch	Insertion Loss (Typ.)	0.29	0.33	0.4	0.49	0.74	dB	0.03
PE3C4157/HS-24	24 inch	Insertion Loss (Typ.)	0.37	0.46	0.59	0.78	1.28	dB	0.045
PE3C4157/HS-36	36 inch	Insertion Loss (Typ.)	0.45	0.59	0.79	1.07	1.81	dB	0.059
PE3C4157/HS-48	48 inch	Insertion Loss (Typ.)	0.54	0.72	0.98	1.36	2.35	dB	0.073

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: 0.03 pounds  
 Additional Weight per Inch: 0.00117 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter: 0.5 in [12.7 mm]  
 Weight: 0.016 lbs [7.26 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]

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



**PE3C4157/HS**

**Connectors**

Description	Connector 1	Connector 2
Type	FAKRA Jack	FAKRA Jack
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Color	WB	WB
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Dielectric Type	Teflon	Teflon
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel
Body Material and Plating	Plastic, Paint	Plastic, Paint

**Environmental Specifications**

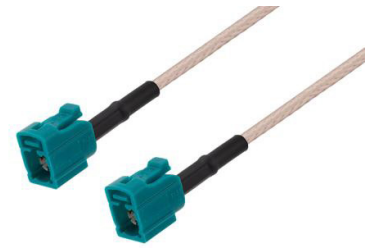
Operating Range Temperature -40 to +85 deg C

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

**Plotted and Other Data**

Notes:

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

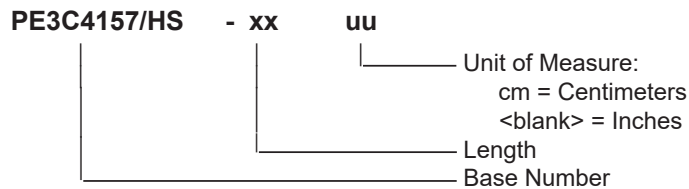


### PE3C4157/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE3C4157/HS-12 = 12 inches long cable  
PE3C4157/HS-100cm = 100 cm long cable

Water Blue FAKRA Jack to 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: [Water Blue FAKRA Jack to FAKRA Jack Cable Using RG316-DS Coax with HeatShrink PE3C4157/HS](https://www.pasternack.com/fakra-jack-to-fakra-jack-cable-using-rg316-ds-with-heatshrink-pe3c4157-hs)

URL: <https://www.pasternack.com/fakra-jack-to-fakra-jack-cable-using-rg316-ds-with-heatshrink-pe3c4157-hs-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE3C4157/HS CAD Drawing

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

