



Water Blue FAKRA Plug to FAKRA Jack Right Angle Cable Using RG316-DS Coax

RF Cable Assemblies Technical Data Sheet

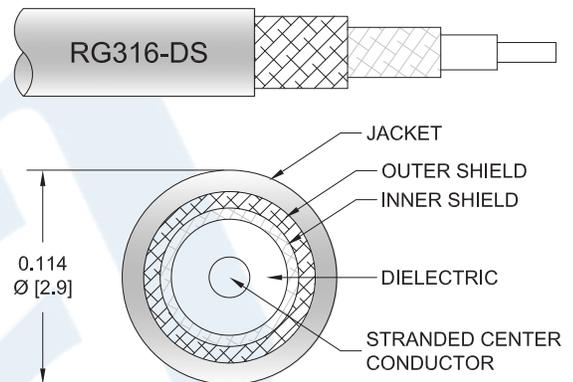
PE3C6995

Configuration

- Connector 1: FAKRA Plug
- Connector 2: FAKRA Jack Right Angle
- Cable Type: RG316-DS

Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6995 water blue FAKRA plug to FAKRA jack right angle 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 plug to jack gender configuration with 50 ohm flexible RG316-DS coax. The PE3C6995 FAKRA plug to FAKRA jack cable assembly operates to 3 GHz. The right angle FAKRA interface on the RG316-DS cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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: [Water Blue FAKRA Plug to FAKRA Jack Right Angle Cable Using RG316-DS Coax PE3C6995](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms

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 for the plug connector and 0.2 dB for the Jack connector.

Mechanical Specifications

Cable Assembly

Weight 0.015 lbs [6.8 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]
 Repeated Minimum Bend Radius 0.591 in [15.01 mm]

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Connectors

Description	Connector 1	Connector 2
Type	FAKRA Plug	FAKRA Jack Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel
Body Material and Plating	Plastic	Plastic

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

Plotted and Other Data

Notes:

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PE3C6995

How to Order

Part Number Configuration:

PE3C6995

- **xx**

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

Example: PE3C6995-12 = 12 inches long cable
PE3C6995-100cm = 100 cm long cable

Water Blue FAKRA Plug to FAKRA Jack Right Angle Cable Using RG316-DS Coax 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.

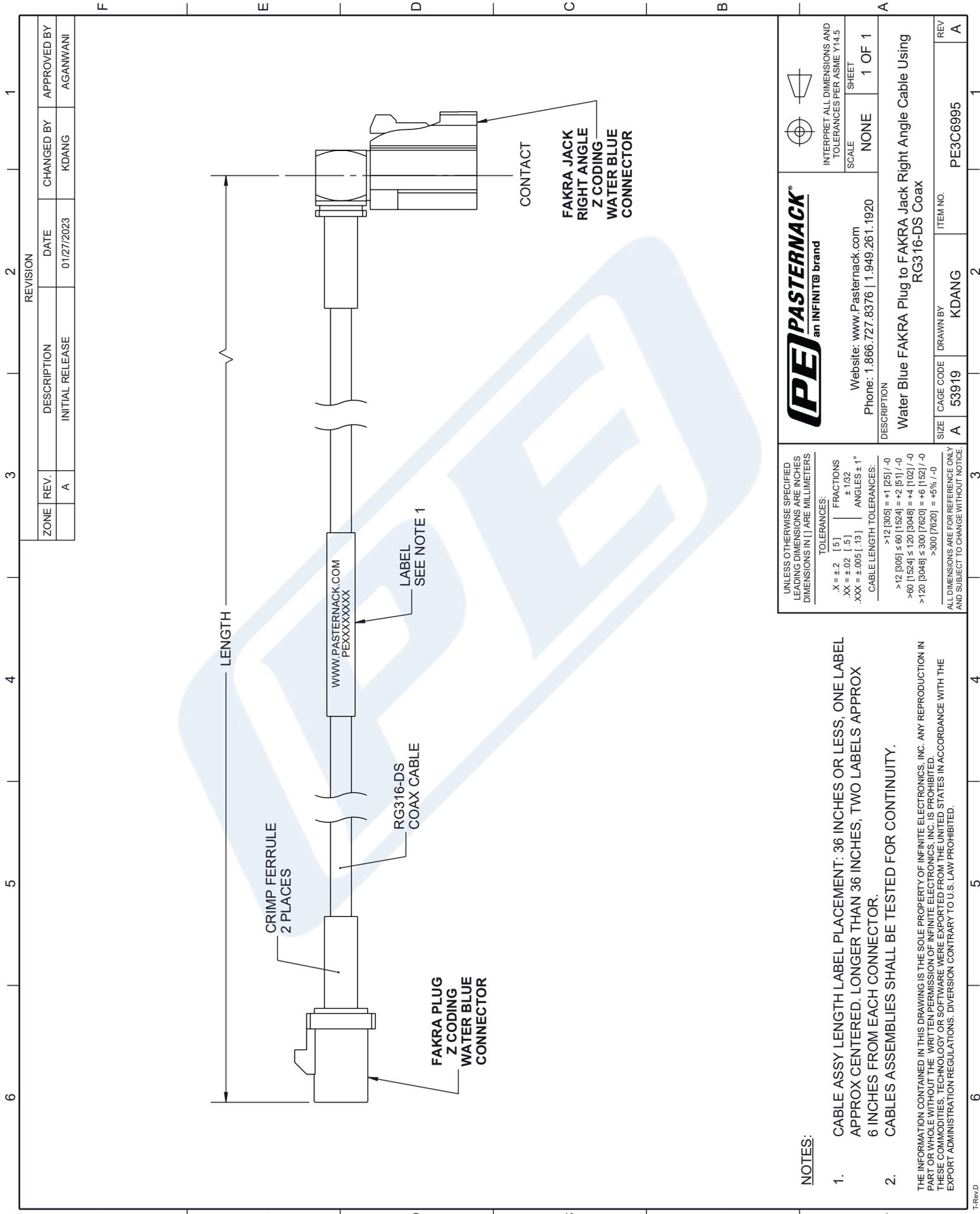
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Water Blue FAKRA Plug to FAKRA Jack Right Angle Cable Using RG316-DS Coax PE3C6995](https://www.pasternack.com/fakra-plug-to-fakra-jack-cable-using-rg316-ds-pe3c6995-p.aspx)

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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.

PE3C6995 CAD Drawing

Water Blue FAKRA Plug to FAKRA Jack Right Angle Cable Using RG316-DS Coax



ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	01/27/2023	KDANG	AGANWANI

PE PASTERNAK
an INFINIT® brand

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

DESCRIPTION
Water Blue FAKRA Plug to FAKRA Jack Right Angle Cable Using RG316-DS Coax

SIZE: A CAGE CODE: 53919 DRAWN BY: KDANG ITEM NO.: PE3C6995

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE SHEET: 1 OF 1

NOTES:

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

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.X = ±.2 [.5]	FRACTIONS ±.1/32	
.XX = ±.02 [.5]	ANGLES ± 1°	
.XXX = ±.005 [.13]		
CABLE LENGTH TOLERANCES:		
>12 [305] = +1 [25] / -0		
>12 [305] ≤ 60 [1524] = +2 [51] / -0		
>60 [1524] ≤ 120 [3048] = +4 [102] / -0		
>120 [3048] ≤ 300 [7620] = +6 [152] / -0		
>300 [7620] = +5% / -0		