



## BNC Male to Water Blue FAKRA Jack Cable 150 cm Length Using RG316 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

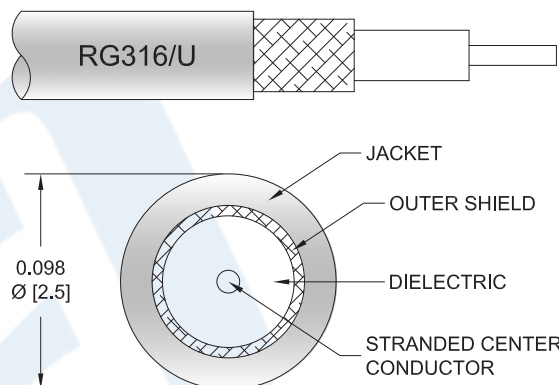
**PE3W07080/HS-150CM**

#### Configuration

- Connector 1: BNC Male
- Connector 2: FAKRA Jack
- Cable Type: RG316

#### Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W07080/HS-150CM BNC male to water blue FAKRA jack 150 cm cable using RG316 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 coax. The PE3W07080/HS-150CM BNC male to FAKRA jack cable assembly operates to 3 GHz.

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                                 |         |              | 1.5:1   |              |
| Velocity of Propagation              |         | 69           |         | %            |
| Capacitance                          |         | 29.4 [96.46] |         | pF/ft [pF/m] |
| Operating Voltage (AC)               |         |              | 335     | Vrms         |
| Dielectric Withstanding Voltage (AC) |         |              | 1,000   | Vrms         |
| 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: [BNC Male to Water Blue FAKRA Jack Cable 150 cm Length Using RG316 Coax with Heat-Shrink PE3W07080/HS-150CM](#)



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### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 3    | GHz   |
| Insertion Loss (Max.) | 0.86 | 1.06 | 2.07 | 2.66 | 3.06 | dB    |

### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector Loss

### Mechanical Specifications

#### Cable Assembly

Length\* 59.05 in [149.99 cm]  
Diameter 0.57 in [14.48 mm]

#### Cable

Cable Type RG316  
Impedance 50 Ohms  
Inner Conductor Type Stranded  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 1  
Shield Layer 1 Silver Plated Copper Braid  
Jacket Material FEP, Tan  
Jacket Diameter 0.102 in [2.59 mm]

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### Connectors

| Description                          | Connector 1     | Connector 2           |
|--------------------------------------|-----------------|-----------------------|
| Type                                 | BNC Male        | FAKRA Jack            |
| Specification                        | MIL-STD-348A    |                       |
| Impedance                            | 50 Ohms         | 50 Ohms               |
| Configuration                        | Straight        | Straight              |
| Mating Cycles                        | 500             |                       |
| Contact Material and Plating         | Brass, Gold     | Phosphor Bronze, Gold |
| Contact Plating Specification        | 30 µin minimum  |                       |
| Dielectric Type                      | PTFE            | PTFE                  |
| Outer Conductor Material and Plating |                 | Brass, Nickel         |
| Body Material and Plating            | Brass, Nickel   | Plastic               |
| Body Plating Specification           | 100 µin minimum |                       |
| Coupling Nut Material and Plating    | Brass, Nickel   |                       |

Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

### 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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## BNC Male to Water Blue FAKRA Jack Cable 150 cm Length Using RG316 Coax with HeatShrink

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**PE3W07080/HS-150CM**

#### How to Order

Part Number Configuration:

**PE3W07080/HS**

- **xx**

**uu**

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

Example: PE3W07080/HS-12 = 12 inches long cable  
PE3W07080/HS-100cm = 100 cm long cable

BNC Male to Water Blue FAKRA Jack Cable 150 cm Length Using RG316 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 150 cm Length Using RG316 Coax with HeatShrink PE3W07080/HS-150CM](https://www.pasternack.com/bnc-male-fakra-jack-rg316u-cable-assembly-pe3w07080-hs-150cm-p.aspx)

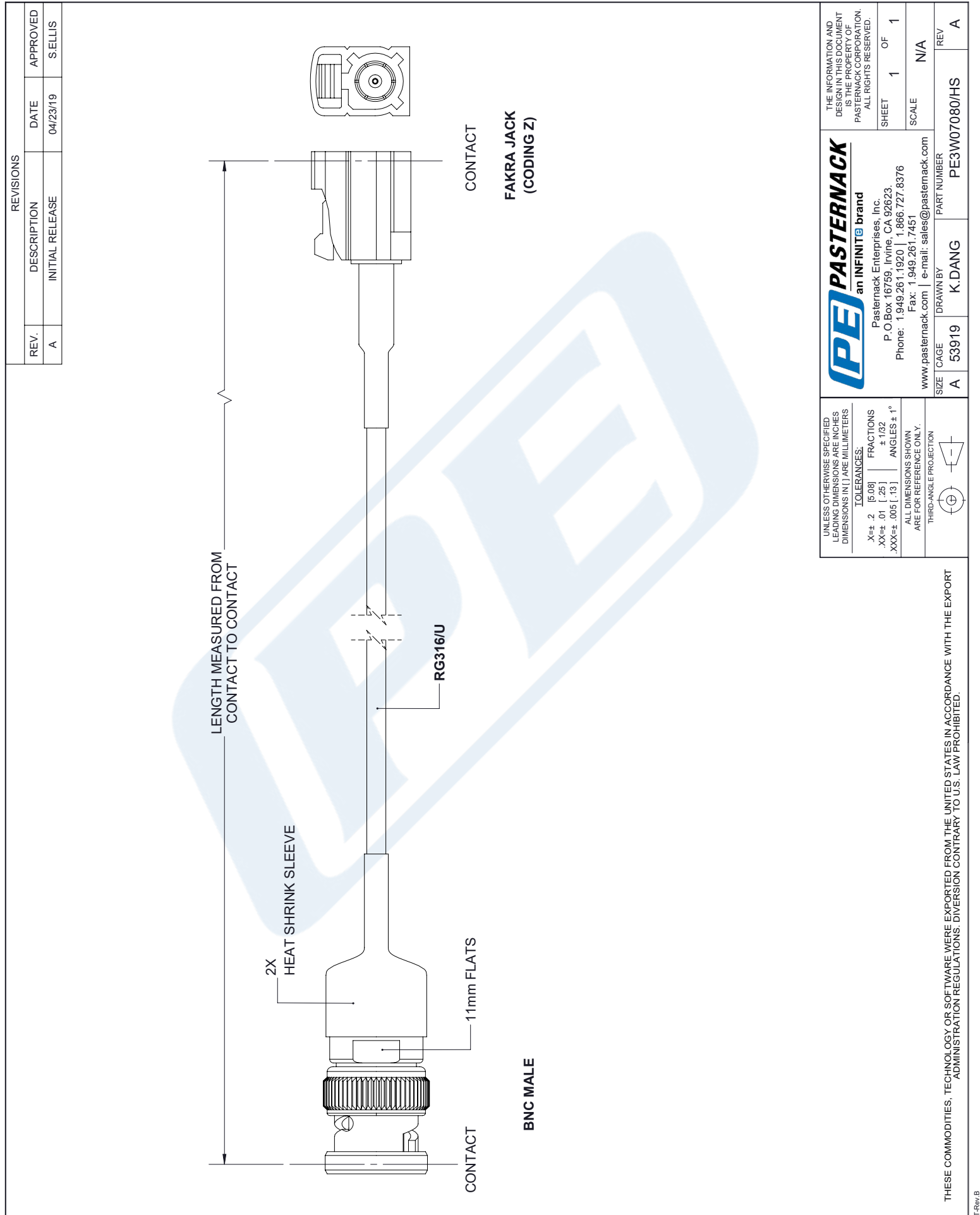
URL: <https://www.pasternack.com/bnc-male-fakra-jack-rg316u-cable-assembly-pe3w07080-hs-150cm-p.aspx>

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# PE3W07080/HS-150CM CAD Drawing

## BNC Male to Water Blue FAKRA Jack Cable 150 cm

### Length Using RG316 Coax with HeatShrink



| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 04/23/19 | SELLIS   |

|                                                                                                  |           |
|--------------------------------------------------------------------------------------------------|-----------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |           |
| TOLERANCES:                                                                                      | FRACTIONS |
| X±.2 [5.08]                                                                                      | ±.132     |
| .XX±.01 [.25]                                                                                    | ±.132     |
| .XXX±.005 [.13]                                                                                  | ±.132     |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |           |
| THIRD-ANGLE PROJECTION                                                                           |           |

|                                                                                                                                                                                                                                     |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>PE PASTERNAK</b><br>an INFINITO brand<br>Pasternack Enterprises, Inc.<br>P.O. Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Fax: 1.949.261.7451<br>www.pasternack.com   e-mail: sales@pasternack.com |              |
| SIZE                                                                                                                                                                                                                                | A            |
| CAGE                                                                                                                                                                                                                                | 53919        |
| DRAWN BY                                                                                                                                                                                                                            | K.DANG       |
| PART NUMBER                                                                                                                                                                                                                         | PE3W07080/HS |
| REV                                                                                                                                                                                                                                 | A            |

|                                                                                                            |        |
|------------------------------------------------------------------------------------------------------------|--------|
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| SHEET                                                                                                      | 1 OF 1 |
| SCALE                                                                                                      | N/A    |

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