



Water Blue FAKRA Jack to FAKRA Jack Cable 50 cm  
Length Using RG188 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W02211/HS-50CM

### Configuration

- Connector 1: FAKRA Jack
- Connector 2: FAKRA Jack
- Cable Type: RG188

### Features

- Max Frequency 3 GHz
- PTFE Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W02211/HS-50CM water blue FAKRA jack to FAKRA jack 50 cm cable using RG188 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 RG188 coax. The PE3W02211/HS-50CM FAKRA jack 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                                 |         |         | 1.4:1   |       |
| Dielectric Withstanding Voltage (AC) |         |         | 1,000   | Vrms  |

### Specifications by Frequency

| Description           | F1   | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|----|----|----|----|-------|
| Frequency             | 400  |    |    |    |    | MHz   |
| Insertion Loss (Max.) | 0.52 |    |    |    |    | dB    |

Electrical Specification Notes:

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 50 cm Length Using RG188 Coax with Heat-Shrink PE3W02211/HS-50CM](#)



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

**Mechanical Specifications**

**Cable Assembly**

Length\* 19.68 in [499.87 mm]  
Diameter 0.37 in [9.4 mm]

**Cable**

Cable Type RG188  
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 PTFE, White  
Jacket Diameter 0.11 in [2.79 mm]

**Connectors**

| Description                          | Connector 1           | Connector 2           |
|--------------------------------------|-----------------------|-----------------------|
| Type                                 | FAKRA Jack            | FAKRA Jack            |
| Impedance                            | 50 Ohms               | 50 Ohms               |
| Configuration                        | Straight              | Straight              |
| 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               |

**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:

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 50 cm Length Using RG188 Coax with Heat-Shrink PE3W02211/HS-50CM](#)



## Water Blue FAKRA Jack to FAKRA Jack Cable 50 cm Length Using RG188 Coax with HeatShrink

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PE3W02211/HS-50CM

#### How to Order

Part Number Configuration:

**PE3W02211/HS - xx**

**uu**

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

Example: PE3W02211/HS-12 = 12 inches long cable  
PE3W02211/HS-100cm = 100 cm long cable

Water Blue FAKRA Jack to FAKRA Jack Cable 50 cm Length Using RG188 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 50 cm Length Using RG188 Coax with HeatShrink PE3W02211/HS-50CM](https://www.pasternack.com/fakra-jack-fakra-jack-rg188au-cable-assembly-pe3w02211-hs-50cm-p.aspx)

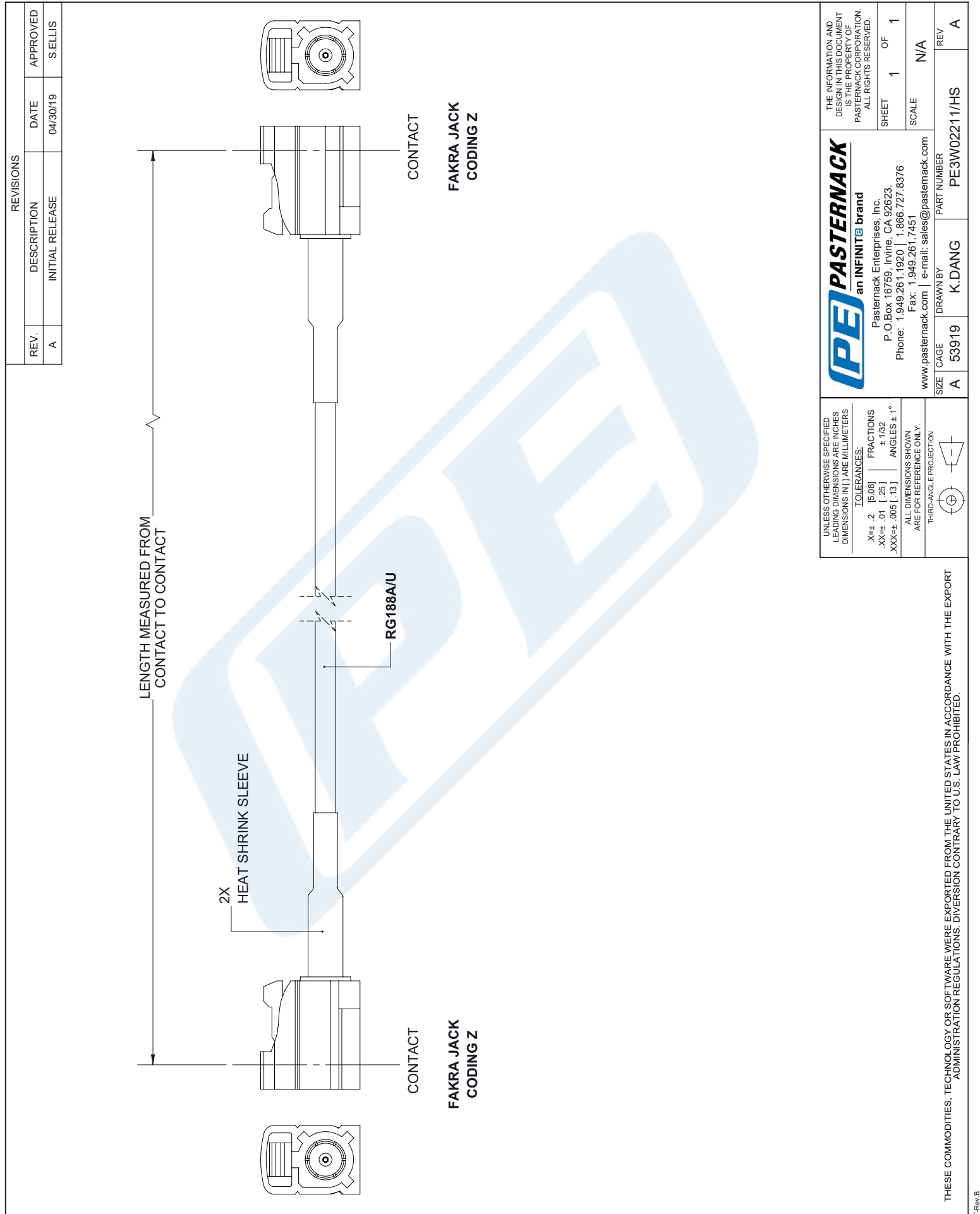
URL: <https://www.pasternack.com/fakra-jack-fakra-jack-rg188au-cable-assembly-pe3w02211-hs-50cm-p.aspx>

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.

# PE3W02211/HS-50CM CAD Drawing

## Water Blue FAKRA Jack to FAKRA Jack Cable 50 cm

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#### REVISIONS

| REV. | DESCRIPTION     | DATE     | APPROVED |
|------|-----------------|----------|----------|
| A    | INITIAL RELEASE | 04/30/19 | SELLIS   |

|  |             |
|--|-------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |             |
| TOLERANCES:  | FRACTIONS   |
| X±.2 [5.08]  | ±.132       |
| .XX±.01 [.25]  | ±.13        |
| .XXX±.005 [.13]  | ANGLES ± 1° |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.  |             |
| THIRD-ANGLE PROJECTION   |             |

|   |              |
|---|--------------|
| <b>PE PASTERNAK</b><br>an INFINITO brand  |              |
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| SIZE  | CAGE         |
| A   | 53919        |
| DRAWN BY  | K.DANG       |
| PART NUMBER   | PE3W02211/HS |
| REV   | A            |

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

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