



Water Blue FAKRA Jack to FAKRA Jack  
Cable Using PE-C100-LSZH Coax

TECHNICAL DATA SHEET

PE38746Z

**Configuration**

|             |              |
|-------------|--------------|
| Connector 1 | FAKRA Jack   |
| Connector 2 | FAKRA Jack   |
| Cable Type  | PE-C100-LSZH |

**Electrical Specifications**

|                         |             |
|-------------------------|-------------|
| Frequency Range         | DC to 4 GHz |
| Impedance               | 50 Ohms     |
| Max VSWR                | 1.4:1       |
| Velocity of Propagation | 66 %        |
| RF Shielding            | 90 dB       |

**Performance by Frequency**

**Frequency 1**

|                |                        |
|----------------|------------------------|
| Frequency      | 100 MHz                |
| VSWR           | 1.4:1                  |
| Return Loss    | 15.56 dB               |
| Insertion Loss | 0.27 dB/ft [0.89 dB/m] |

**Frequency 2**

|                |                         |
|----------------|-------------------------|
| Frequency      | 250 MHz                 |
| VSWR           | 1.4:1                   |
| Return Loss    | 15.563 dB               |
| Insertion Loss | 0.315 dB/ft [1.03 dB/m] |

**Frequency 3**

|                |                        |
|----------------|------------------------|
| Frequency      | 500 MHz                |
| VSWR           | 1.4:1                  |
| Return Loss    | 15.563 dB              |
| Insertion Loss | 0.366 dB/ft [1.2 dB/m] |

**Frequency 4**

|                |                         |
|----------------|-------------------------|
| Frequency      | 1000 MHz                |
| VSWR           | 1.4:1                   |
| Return Loss    | 15.563 dB               |
| Insertion Loss | 0.436 dB/ft [1.43 dB/m] |

**Frequency 5**

|                |                         |
|----------------|-------------------------|
| Frequency      | 4 GHz                   |
| VSWR           | 1.4:1                   |
| Return Loss    | 15.563 dB               |
| Insertion Loss | 0.689 dB/ft [2.26 dB/m] |

**Mechanical Specifications**

**Size**

|          |                  |
|----------|------------------|
| Diameter | 0.37 in [9.4 mm] |
|----------|------------------|

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 PE-C100-LSZH Coax PE38746Z](#)



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|                              |                    |
|------------------------------|--------------------|
| Weight                       | 0.03 lbs [13.61 g] |
| Cable Color                  | Black              |
| One Time Minimum Bend Radius | 0.25 in [6.35 mm]  |
| Repeated Minimum Bend Radius | 1 in [25.4 mm]     |

**Cable**

|                       |                    |
|-----------------------|--------------------|
| Cable Type            | PE-C100-LSZH       |
| Inner Conductor Type  | Solid              |
| Cable Inner Conductor | Copper Clad Steel  |
| No of Shields         | 2                  |
| Dielectric Type       | PE                 |
| Jacket Material       | LSZH               |
| Jacket Diameter       | 0.109 in [2.77 mm] |

**Connector 1**

|                                      |                       |
|--------------------------------------|-----------------------|
| Type                                 | FAKRA Jack            |
| Configuration                        | Straight              |
| Inner Conductor Material and Plating | Phosphor Bronze, Gold |
| Outer Conductor Material and Plating | Brass, Nickel         |
| Body Material and Plating            | Plastic, Paint        |
| Dielectric Type                      | Teflon                |

**Connector 2**

|                                      |                       |
|--------------------------------------|-----------------------|
| Type                                 | FAKRA Jack            |
| Configuration                        | Straight              |
| Inner Conductor Material and Plating | Phosphor Bronze, Gold |
| Outer Conductor Material and Plating | Brass, Nickel         |
| Body Material and Plating            | Plastic, Paint        |
| Dielectric Type                      | Teflon                |

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

For RoHS Compliant version, use PE38746zLF. Contact Pasternack if product cannot be found.

**Plotted and Other Data**

Notes:

- Values at +25 °C, sea level

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 PE-C100-LSZH Coax PE38746Z](#)



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**How to Order**

Part Number Configuration:

**PE38746Z**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE38746Z-12 = 12 inches long cable  
PE38746Z-100cm = 100 cm long cable

Water Blue FAKRA Jack to FAKRA Jack Cable Using PE-C100-LSZH Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

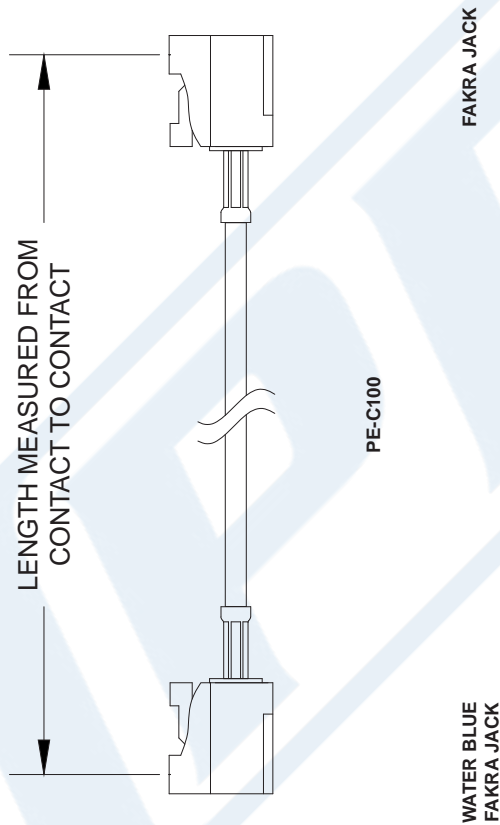
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Water Blue FAKRA Jack to FAKRA Jack Cable Using PE-C100-LSZH Coax PE38746Z](http://www.pasternack.com/fakra-jack-fakra-jack-pe-c100-cable-assembly-pe38746z-p.aspx)

URL: <http://www.pasternack.com/fakra-jack-fakra-jack-pe-c100-cable-assembly-pe38746z-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.

# PE38746Z CAD Drawing

Water Blue FAKRA Jack to FAKRA Jack Cable Using PE-C100 Coax



| How To Order   |  | Part # Ext. | Length In Inches | Part # Ext. | Length In Centimeters |
|--|--|-------------|------------------|-------------|-----------------------|
| Part Number Configuration<br>PE3 [zzz] [yy] - [xx] [uu]<br>00 - 99999<br>LF = RoHS Compliant<br>< Blank > = Standard<br>Note: LF applies only to RF cables |  | -12         | 12"              | -25CM       | 25Cm                  |
| Examples<br>PE3000LF-100<br>PE3000-100<br>PE3000LF-100CM<br>PE3000-100CM   |  | -24         | 24"              | -50CM       | 50Cm                  |
|  |  | -36         | 36"              | -75CM       | 75Cm                  |
|  |  | -48         | 48"              | -100CM      | 100Cm                 |
|  |  | -60         | 60"              | -125CM      | 125Cm                 |
|  |  | -xx         | Custom Length    | -xxCM       | Custom Length         |

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
 3. DIMENSIONS ARE IN INCHES [mm].  
 4. LENGTH TOLERANCE IS ± 1.5% OR 3/8", WHICHEVER IS GREATER.

DWG TITLE  
**PE38746Z**

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CAD FILE 41613 SCALE N/A SIZE A

FSCM NO. 53919