



Blue FAKRA Jack to MCX Plug Cable  
36 Inch Length Using RG316 Coax

**RF Cable Assemblies Technical Data Sheet**

**PE3C7585-36**

**Configuration**

- Connector 1: FAKRA Jack
- Connector 2: MCX Plug
- Cable Type: RG316

**Features**

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

**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3C7585-36 blue FAKRA jack to MCX plug 36 inch 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 FAKRA to MCX cable assembly has a jack to plug gender configuration with 50 ohm flexible RG316 coax. The PE3C7585-36 FAKRA jack to MCX plug 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.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Blue FAKRA Jack to MCX Plug Cable 36 Inch Length Using RG316 Coax PE3C7585-36](#)



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### Electrical Specifications

| Description             | Minimum | Typical | Maximum | Units |
|-------------------------|---------|---------|---------|-------|
| Frequency Range         | DC      |         | 3       | GHz   |
| VSWR                    |         |         | 1.4:1   |       |
| Velocity of Propagation |         | 69      |         | %     |
| Operating Voltage (AC)  |         |         | 250     | Vrms  |
| Jacket Spark            |         |         | 2,000   | Vrms  |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.1  | 0.25 | 0.5  | 1    | 3    | GHz   |
| Insertion Loss (Max.) | 0.53 | 0.59 | 0.71 | 1.34 | 1.94 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

|          |                  |
|----------|------------------|
| Length*  | 36 in [914.4 mm] |
| Diameter | 0.37 in [9.4 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                                 | FAKRA Jack            | MCX Plug        |
| Specification                        |                       | CECC 22220      |
| Impedance                            | 50 Ohms               | 50 Ohms         |
| Configuration                        | Straight              | Straight        |
| Contact Material and Plating         | Phosphor Bronze, Gold | Brass, Gold     |
| Contact Plating Specification        |                       | 30 µin minimum  |
| Dielectric Type                      | PTFE                  | PTFE            |
| Outer Conductor Material and Plating | Brass, Nickel         |                 |
| Body Material and Plating            | Plastic               | Brass, Nickel   |
| Body Plating Specification           |                       | 100 µin minimum |

**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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**PE3C7585-36**

**How to Order**

Part Number Configuration:

**PE3C7585**

- **xx**

**uu**

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

Example: PE3C7585-12 = 12 inches long cable  
PE3C7585-100cm = 100 cm long cable

Blue FAKRA Jack to MCX Plug Cable 36 Inch Length Using RG316 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.

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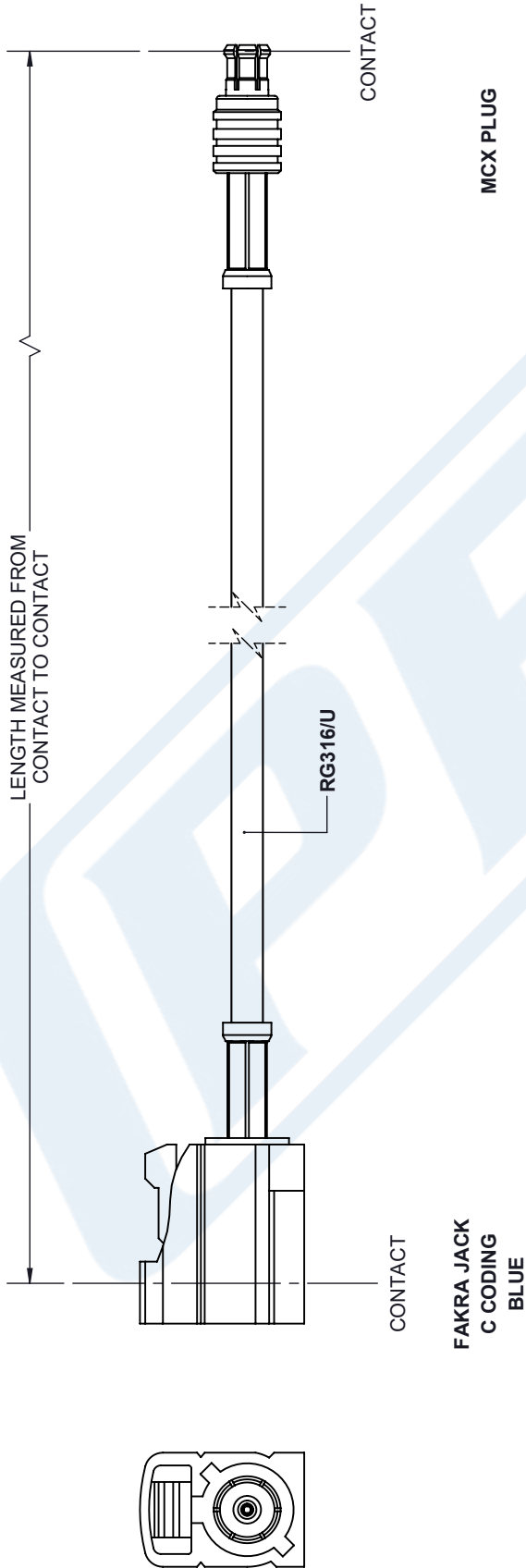
URL: <https://www.pasternack.com/fakra-jack-mcx-plug-rg316u-cable-assembly-pe3c7585-36-p.aspx>

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.

PE3C7585-36 CAD Drawing

Blue FAKRA Jack to MCX Plug Cable 36 Inch Length Using RG316 Coax

| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 10/19/2020 | S. ELLIS |



UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

|               |        |                  |             |
|---------------|--------|------------------|-------------|
| .X = ± .2     | [.008] | FRACTIONS        | ± 1/32      |
| .XX = ± .02   | [.51]  | ANGLES           | ± 1°        |
| .XXX = ± .005 | [.13]  | CABLE LENGTH (L) | TOLERANCES: |

L ≤ 12 [305] = +1 [25] / -0  
12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

**PE PASTERNAK**  
an INFINITE brand

Pasternack Enterprises, Inc.  
P.O. Box 16759, Irvine, CA 92623.  
Phone: 1.949.261.1920 | 1.866.727.8376  
Fax: 1.949.261.7451  
Website: www.pasternack.com  
E-mail: sales@pasternack.com

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SHEET 1 OF 1

SCALE N/A

|      |           |          |          |
|------|-----------|----------|----------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A    | 53919     | K.DANG   | PE3C7585 |

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