



SMP Female Right Angle to MCX Plug Right Angle Cable  
Using PE-SR405FLJ Coax , LF Solder in 48 Inch

**RF Cable Assemblies Technical Data Sheet**

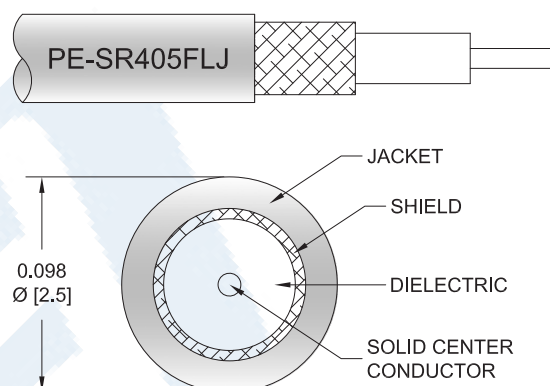
**PE3C0645LF-48**

**Configuration**

- Connector 1: SMP Female Right Angle
- Connector 2: MCX Plug Right Angle
- Cable Type: PE-SR405FLJ

**Features**

- Max Frequency 6 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3C0645LF-48 SMP female right angle to MCX plug right angle 48 inch cable using PE-SR405FLJ coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack SMP to MCX cable assembly has a female to plug gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C0645LF-48 SMP female to MCX plug cable assembly operates to 6 GHz. The right angle SMP and right angle MCX interfaces on the PE-SR405FLJ cable allow for easier connections in tight spaces.

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: [SMP Female Right Angle to MCX Plug Right Angle Cable Using PE-SR405FLJ Coax , LF Solder in 48 Inch PE3C0645LF-48](#)



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### Electrical Specifications

| Description                   | Minimum | Typical       | Maximum | Units           |
|-------------------------------|---------|---------------|---------|-----------------|
| Frequency Range               | DC      |               | 6       | GHz             |
| Velocity of Propagation       |         | 69.5          |         | %               |
| RF Shielding                  | 100     |               |         | dB              |
| Group Delay                   |         | 1.43 [4.69]   |         | ns/ft [ns/m]    |
| Capacitance                   |         | 29 [95.14]    |         | pF/ft [pF/m]    |
| DC Resistance Inner Conductor |         | 65.7 [215.55] |         | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor |         | 10.2 [33.46]  |         | Ω/1000ft [Ω/Km] |

### Specifications by Frequency

| Description           | F1   | F2   | F3  | F4   | F5   | Units |
|-----------------------|------|------|-----|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1   | 2.5  | 6    | GHz   |
| Insertion Loss (Typ.) | 0.29 | 0.34 | 1.2 | 1.75 | 3.66 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 x SQRT(FGHz)dB for the female connector and 0.2 dB for the male connector.

### Mechanical Specifications

#### Cable Assembly

|         |                     |
|---------|---------------------|
| Length* | 48 in [121.92 cm]   |
| Weight  | 0.051 lbs [23.13 g] |

#### Cable

|                                      |                               |
|--------------------------------------|-------------------------------|
| Cable Type                           | PE-SR405FLJ                   |
| Impedance                            | 50 Ohms                       |
| Inner Conductor Type                 | Solid                         |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver     |
| Dielectric Type                      | PTFE                          |
| Number of Shields                    | 1                             |
| Outer Conductor Material and Plating | Tinned Copper Composite Braid |
| Jacket Material                      | FEP, Black                    |
| Jacket Diameter                      | 0.105 in [2.67 mm]            |
| One Time Minimum Bend Radius         | 0.5 in [12.7 mm]              |
| Repeated Minimum Bend Radius         | 0.787 in [19.99 mm]           |

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### Connectors

| Description                  | Connector 1            | Connector 2             |
|------------------------------|------------------------|-------------------------|
| Type                         | SMP Female Right Angle | MCX Plug Right Angle    |
| Specification                | MIL-STD-348A           |                         |
| Impedance                    | 50 Ohms                | 50 Ohms                 |
| Contact Material and Plating | Beryllium Copper, Gold | Brass, Gold over Nickel |
| Dielectric Type              | PTFE                   | PTFE                    |
| Body Material and Plating    | Beryllium Copper, Gold | Brass, Gold over Nickel |

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

### Plotted and Other Data

Notes:

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## RF Cable Assemblies Technical Data Sheet

**PE3C0645LF-48**

### How to Order

Part Number Configuration:

**PE3C0645LF**

- **xx**

**uu**

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

Example: PE3C0645LF-12 = 12 inches long cable  
PE3C0645LF-100cm = 100 cm long cable

SMP Female Right Angle to MCX Plug Right Angle Cable Using PE-SR405FLJ Coax , LF Solder in 48 Inch 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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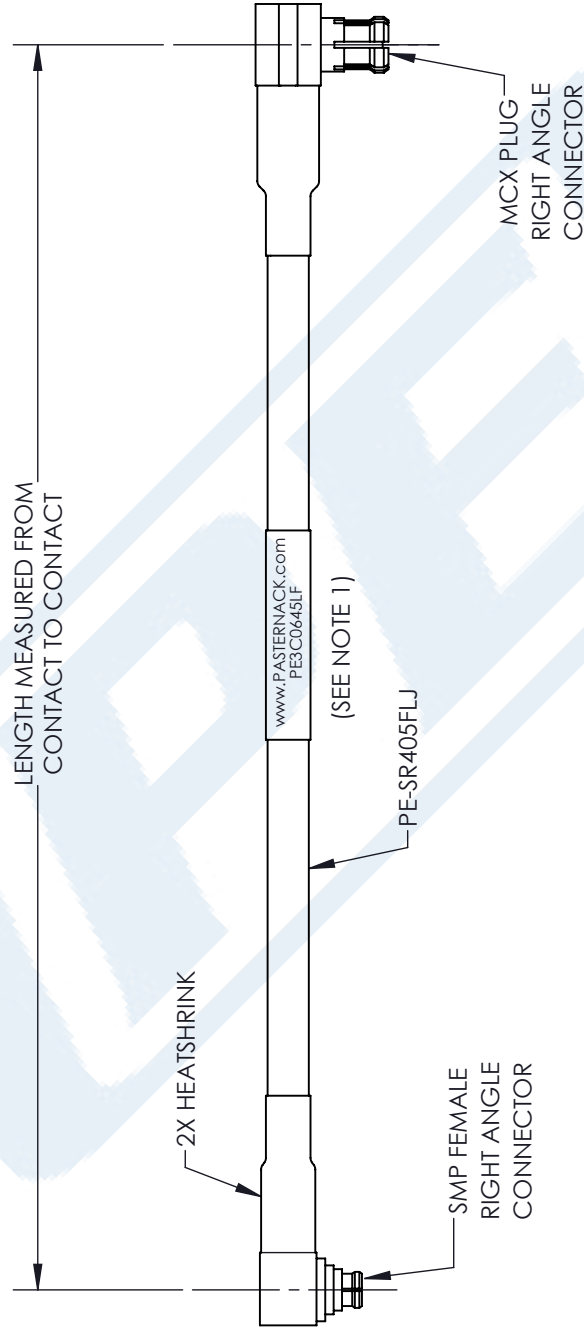
URL: <https://www.pasternack.com/smp-female-right-angle-to-mcx-plug-cable-using-pe-sr405flj-lf-solder-pe3c0645lf-48-p.aspx>

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.

# PE3C0645LF-48 CAD Drawing

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| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 08/10/2022 | AGANWANI |



## NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM END OF CONNECTOR

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|--|---------------------|--|-------|--|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS                                                                                                                                                                                                                                                                          |  | <div> <b>PASTERNAK</b><br/>an INFINITE® brand</div> <div>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/>Website: <a href="http://www.pasternack.com">www.pasternack.com</a><br/>E-mail: <a href="mailto:sales@pasternack.com">sales@pasternack.com</a></div> |  | THIRD-ANGLE PROJECTION <div><div></div><div>THE INFORMATION AND<br/>DESIGN IN THIS DOCUMENT<br/>IS THE PROPERTY OF<br/>PASTERNAK CORPORATION<br/>ALL RIGHTS RESERVED.</div></div> <div>SHEET 1 OF 1</div> <div>SCALE N/A</div> |  |                    |  |                     |  |       |  |
| TOLERANCES:<br><br>X = ± .2    [.008]    FRACTIONS<br>.XX = ± .02    [.51]    ± 1/32<br>.XXX = ± .005    [.13]    ANGLES ± 1°<br><br>CABLE LENGTH (L) TOLERANCES:<br><br>L ≤ 12 [305] = +1 [25] / -0<br>12 [305] < L ≤ 60 [1524] = +2 [51] / -0<br>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0<br>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0<br>300 [7620] < L = +5% / -0 |  | SIZE A                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | CAGE CODE 53919                                                                                                                                                                                                                                                                                                   |  | DRAWN BY BPUCHASKI |  | ITEM NO. PE3C0645LF |  | REV A |  |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                                                                                                                                                   |  |                    |  |                     |  |       |  |