

MCX Plug Right Angle to SMA Male Cable  
48 Inch Length Using PE-SR405FLJ Coax



RF Cable Assemblies Technical Data Sheet

PE3W07964-48

**Configuration**

- Connector 1: MCX Plug Right Angle
- Connector 2: SMA Male
- Cable Type: PE-SR405FLJ

**Features**

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

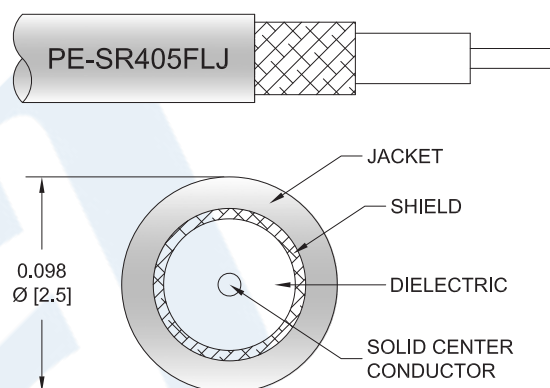
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W07964-48 MCX plug right angle to SMA male 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 MCX to SMA cable assembly has a plug to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W07964-48 MCX plug to SMA male cable assembly operates to 6 GHz. The right angle MCX interface on the PE-SR405FLJ cable allows 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: [MCX Plug Right Angle to SMA Male Cable 48 Inch Length Using PE-SR405FLJ Coax PE3W07964-48](#)



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#### Electrical Specifications

| Description                   | Minimum | Typical       | Maximum | Units           |
|-------------------------------|---------|---------------|---------|-----------------|
| Frequency Range               | DC      |               | 6       | GHz             |
| VSWR                          |         |               | 1.45:1  |                 |
| 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             | 0.5 | 1    | 2.5  | 6    |    | GHz   |
| Insertion Loss (Max.) | 0.9 | 1.22 | 1.46 | 2.42 |    | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.2 dB for the MMCX connector and 0.1 dB for the SMA connector.

#### Mechanical Specifications

##### Cable Assembly

Length\* 48 in [121.92 cm]

##### 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                              | MCX Plug Right Angle    | SMA Male                   |
| Impedance                         | 50 Ohms                 | 50 Ohms                    |
| Contact Material and Plating      | Brass, Gold over Nickel | Brass, Gold over Nickel    |
| Dielectric Type                   | PTFE                    | PTFE                       |
| Body Material and Plating         | Brass, Gold over Nickel | Brass, Gold over Nickel    |
| Coupling Nut Material and Plating |                         | Passivated Stainless Steel |
| Hex Size                          |                         | 5/16 inch                  |
| Torque                            |                         | 8 in-lbs [0.9 Nm]          |

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

**Plotted and Other Data**

Notes:

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**How to Order**

Part Number Configuration:

**PE3W07964**

- **xx**

**uu**

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

Example: PE3W07964-12 = 12 inches long cable  
PE3W07964-100cm = 100 cm long cable

MCX Plug Right Angle to SMA Male Cable 48 Inch Length Using PE-SR405FLJ 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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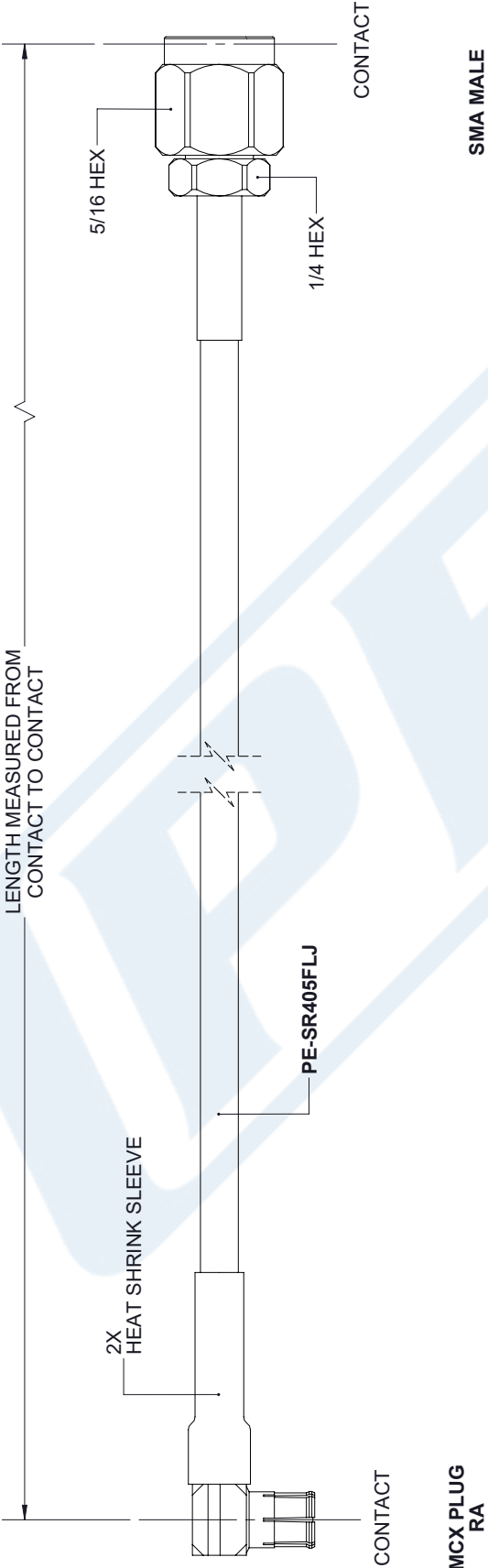
URL:

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.

PE3W07964-48 CAD Drawing

MCX Plug Right Angle to SMA Male Cable 48 Inch Length Using PE-SR405FLJ Coax

| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 8/24/2020 | SELLIS   |



|                                                                                                  |                |
|--------------------------------------------------------------------------------------------------|----------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |                |
| TOLERANCES:                                                                                      | FRACTIONS      |
| .X = ± .2                                                                                        | [.08]          |
| .XX = ± .02                                                                                      | [.51]          |
| .XXX = ± .005                                                                                    | [.13]          |
| CABLE LENGTH (L) TOLERANCES:                                                                     | ANGLES ± 1°    |
| 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<br>ARE FOR REFERENCE ONLY.                                                  |                |

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SHEET 1 OF 1  
SCALE N/A

SIZE A CAGE CODE A 53919 DRAWN BY K.DANG ITEM NO. PE3W07964 REV A

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