



MCX Plug Right Angle to SMP Female Right Angle  
Cable 12 Inch Using PE-SR405FL Coax

**RF Cable Assemblies Technical Data Sheet**

**PE3W08556-12**

**Configuration**

- Connector 1: MCX Plug Right Angle
- Connector 2: SMP Female Right Angle
- Cable Type: PE-SR405FL

**Features**

- Max Frequency 6 GHz
- 69.5% Phase Velocity

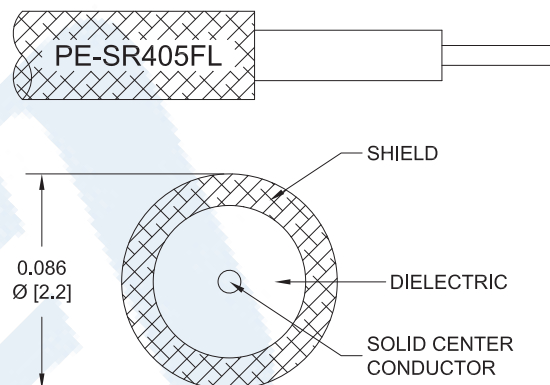
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W08556-12 MCX plug right angle to SMP female right angle 12 inch cable using PE-SR405FL 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 SMP cable assembly has a plug to female gender configuration with 50 ohm formable PE-SR405FL coax. The PE3W08556-12 MCX plug to SMP female cable assembly operates to 6 GHz. The right angle MCX and right angle SMP interfaces on the PE-SR405FL 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: [MCX Plug Right Angle to SMP Female Right Angle Cable 12 Inch Using PE-SR405FL Coax PE3W08556-12](#)



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#### Electrical Specifications

| Description                   | Minimum | Typical       | Maximum | Units           |
|-------------------------------|---------|---------------|---------|-----------------|
| Frequency Range               | DC      |               | 6       | GHz             |
| VSWR                          |         |               | 1.5:1   |                 |
| Velocity of Propagation       |         | 69.5          |         | %               |
| 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 (Max.) | 0.52 | 0.55 | 0.63 | 0.75 | 1.01 | 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 is estimated as 0.2 dB per MCX plug right angle connector and 0.2 dB per SMP female right angle connector.

#### Mechanical Specifications

##### Cable Assembly

|          |                  |
|----------|------------------|
| Length*  | 12 in [304.8 mm] |
| Diameter | 0.24 in [6.1 mm] |

##### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | PE-SR405FL                |
| 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 | Copper, Tin               |
| Repeated Minimum Bend Radius         | 0.78 in [19.81 mm]        |

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### Connectors

| Description                           | Connector 1             | Connector 2            |
|---------------------------------------|-------------------------|------------------------|
| Type                                  | MCX Plug Right Angle    | SMP Female Right Angle |
| Specification                         | MIL-C-39012             | DESC 94008             |
| Impedance                             | 50 Ohms                 | 50 Ohms                |
| Mating Cycles                         | 500                     |                        |
| Contact Material and Plating          | Brass, Gold over Nickel | Beryllium Copper, Gold |
| Contact Plating Specification         | 30 µin minimum          | MIL-G-45204            |
| Dielectric Type                       | PTFE                    | PTFE                   |
| Outer Conductor Material and Plating  | Brass, Gold over Nickel | Beryllium Copper, Gold |
| Outer Conductor Plating Specification | 10 µin minimum          | MIL-G-45204            |
| Body Material and Plating             | Brass, Gold over Nickel | Beryllium Copper, Gold |
| Body Plating Specification            | 10 µin minimum          | MIL-G-45204            |

**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: [MCX Plug Right Angle to SMP Female Right Angle Cable 12 Inch Using PE-SR405FL Coax PE3W08556-12](#)



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**RF Cable Assemblies Technical Data Sheet**

**PE3W08556-12**

**How to Order**

Part Number Configuration:

**PE3W08556**

**- xx**

**uu**

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

Example: PE3W08556-12 = 12 inches long cable  
PE3W08556-100cm = 100 cm long cable

MCX Plug Right Angle to SMP Female Right Angle Cable 12 Inch Using PE-SR405FL 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.

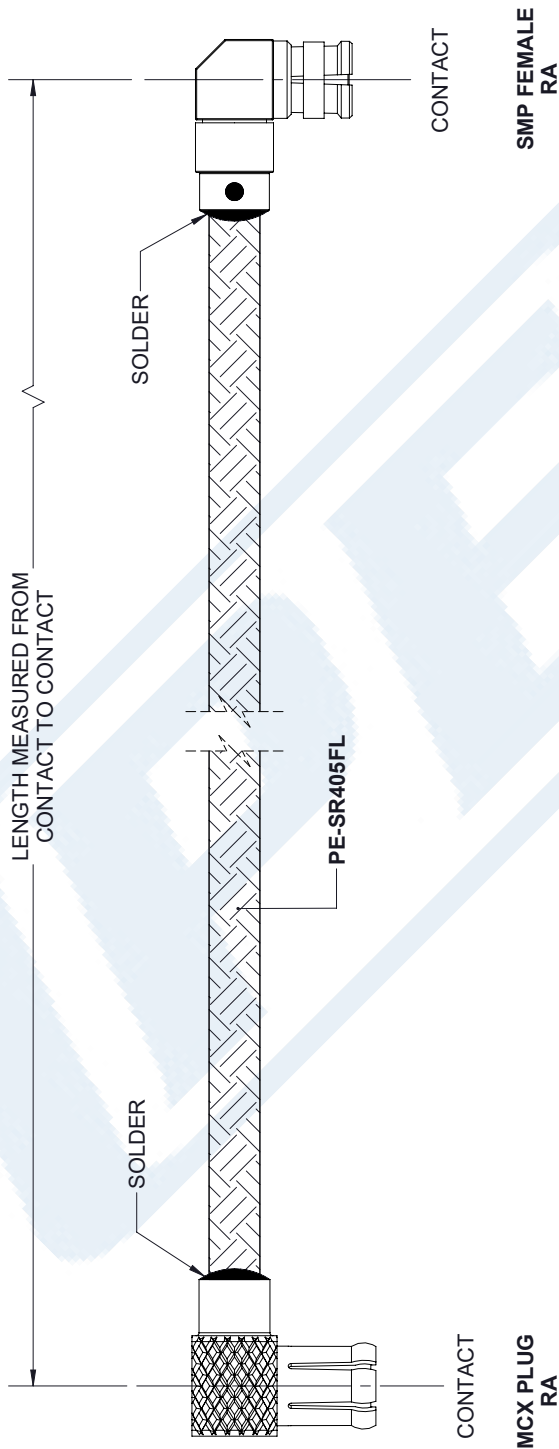
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MCX Plug Right Angle to SMP Female Right Angle Cable 12 Inch Using PE-SR405FL Coax PE3W08556-12](#)

URL: <https://www.pasternack.com/mcx-plug-smp-female-pe-sr405fl-cable-assembly-pe3w08556-12-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.

**PE3W08556-12 CAD Drawing**  
MCX Plug Right Angle to SMP Female Right Angle  
Cable 12 Inch Using PE-SR405FL Coax

| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 1/28/2020 | SELLIS   |



|                                                                                                  |                 |
|--------------------------------------------------------------------------------------------------|-----------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |                 |
| TOLERANCES:                                                                                      |                 |
| .X = ± .2                                                                                        | [.08]           |
| .XX = ± .02                                                                                      | [.51]           |
| .XXX = ± .005                                                                                    | [.13]           |
| ANGLES                                                                                           | ± 1°            |
| 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% L / -0    |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |                 |

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|      |           |          |           |
|------|-----------|----------|-----------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO.  |
| A    | 53919     | K.DANG   | PE3W08556 |

|                                                                                                                       |        |
|-----------------------------------------------------------------------------------------------------------------------|--------|
| THIRD-ANGLE PROJECTION                                                                                                |        |
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| SHEET                                                                                                                 | 1 OF 1 |
| SCALE                                                                                                                 | N/A    |
| REV                                                                                                                   | A      |

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