



MCX Plug Right Angle to SMA Female Bulkhead Cable Using PE-SR405FLJ Coax , LF Solder

RF Cable Assemblies Technical Data Sheet

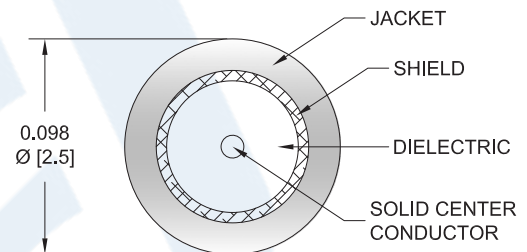
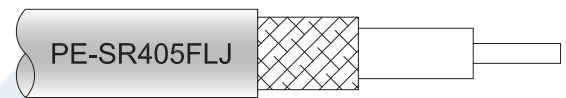
PE3W09085LF/HS

Configuration

- Connector 1: MCX Plug Right Angle
- Connector 2: SMA Female Bulkhead
- 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 PE3W09085LF/HS MCX plug right angle to SMA female bulkhead 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 female gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W09085LF/HS MCX plug to SMA female cable assembly operates to 6 GHz. The right angle MCX interface on the PE-SR405FLJ cable allows for easier connections in tight spaces. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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 Female Bulkhead Cable Using PE-SR405FLJ Coax , LF Solder PE3W09085LF/HS](#)



MCX Plug Right Angle to SMA Female Bulkhead Cable Using PE-SR405FLJ Coax , LF Solder

RF Cable Assemblies Technical Data Sheet

PE3W09085LF/HS

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.) | 0.07 | 0.15 | 0.22 | 0.34 | 0.6 | dB/ft |
| | 0.23 | 0.49 | 0.72 | 1.12 | 1.97 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

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] |

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 Female Bulkhead Cable Using PE-SR405FLJ Coax , LF Solder PE3W09085LF/HS](#)



MCX Plug Right Angle to SMA Female Bulkhead
Cable Using PE-SR405FLJ Coax , LF Solder

RF Cable Assemblies Technical Data Sheet

PE3W09085LF/HS

Connectors

| Description | Connector 1 | Connector 2 |
|-------------------------------|-------------------------|------------------------|
| Type | MCX Plug Right Angle | SMA Female Bulkhead |
| Specification | | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold over Nickel | Beryllium Copper, Gold |
| Contact Plating Specification | | 50 µin minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Gold over Nickel | Stainless Steel, Gold |
| Body Plating Specification | | 30 µin minimum |

Environmental Specifications

Temperature

Operating Range

-55 to +125 deg C

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 SMA Female Bulkhead Cable Using PE-SR405FLJ Coax , LF Solder PE3W09085LF/HS](#)



MCX Plug Right Angle to SMA Female Bulkhead
Cable Using PE-SR405FLJ Coax , LF Solder

RF Cable Assemblies Technical Data Sheet

PE3W09085LF/HS

How to Order

Part Number Configuration:

PE3W09085LF/HS - xx

uu

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

Example: PE3W09085LF/HS-12 = 12 inches long cable
PE3W09085LF/HS-100cm = 100 cm long cable

MCX Plug Right Angle to SMA Female Bulkhead Cable Using PE-SR405FLJ Coax , LF Solder 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 SMA Female Bulkhead Cable Using PE-SR405FLJ Coax , LF Solder PE3W09085LF/HS](https://www.pasternack.com/mcx-plug-right-angle-to-sma-female-pe-sr405flj-cable-assembly-pe3w09085lf-hs)

URL: <https://www.pasternack.com/mcx-plug-right-angle-to-sma-female-pe-sr405flj-cable-assembly-pe3w09085lf-hs-p.aspx>

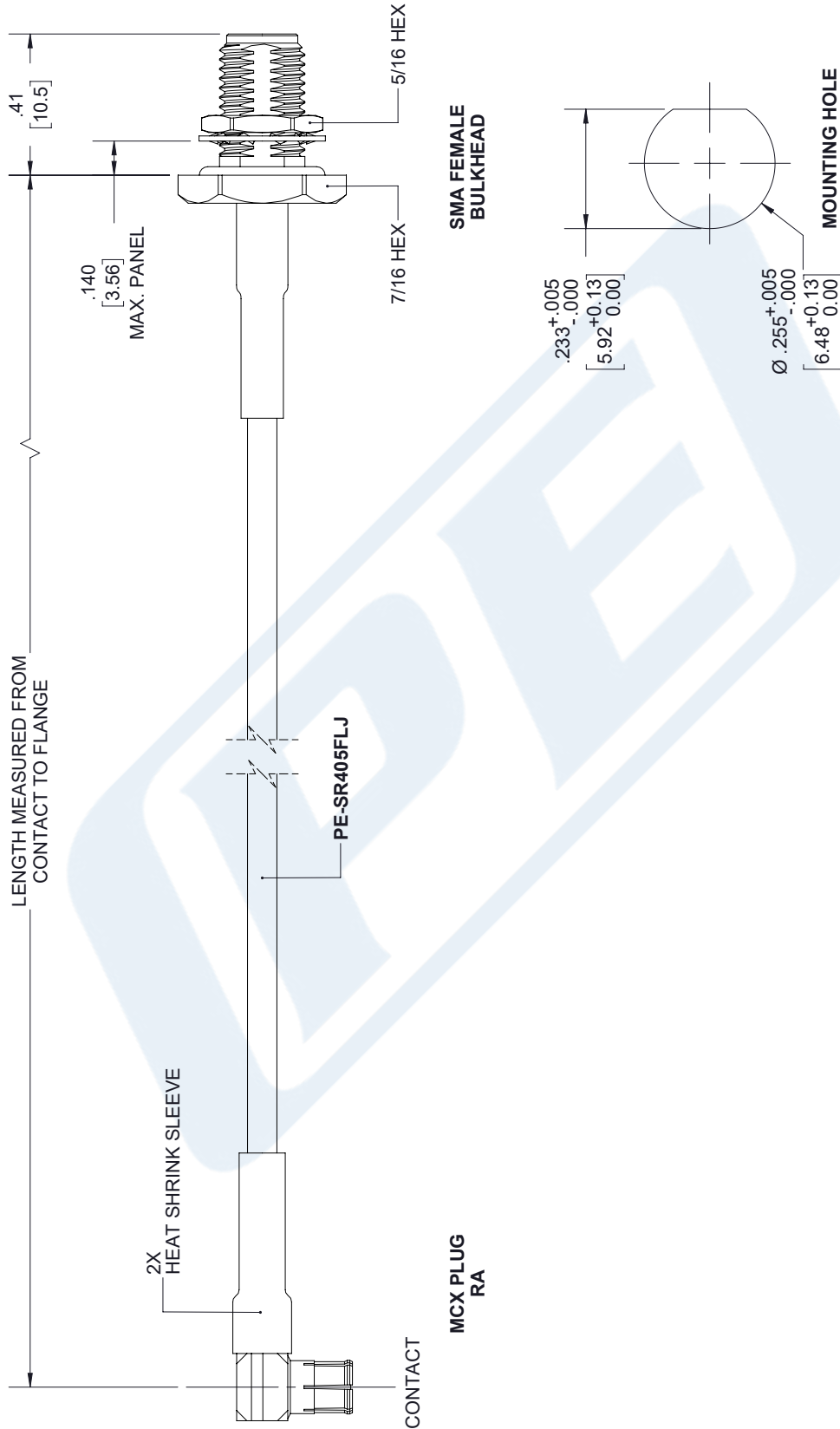
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

PE3W09085LF/HS CAD Drawing

MCX Plug Right Angle to SMA Female Bulkhead Cable

Using PE-SR405FLJ Coax , LF Solder

| REVISIONS | | | |
|-----------|-----------------|-----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 3/13/2020 | S.ELLIS |



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

TOLERANCES:

| | | | |
|---|--------|------------------------------|--------|
| .X = ±.2 | [5.08] | 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% L / -0 | | | |

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

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

| | | | |
|------|-----------|----------|----------------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A | 53919 | K.DANG | PE3W09085LF/HS |
| REV | | | A |