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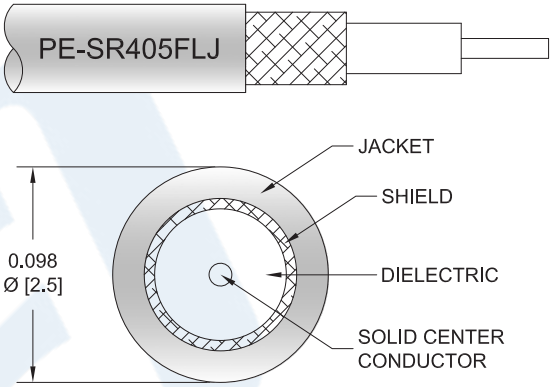


# SMA Male Right Angle to SMA Female Cable 48 Inch Length Using PE-SR405FLJ Coax

## RF Cable Assemblies Technical Data Sheet PE3W02994-48

### Configuration

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




### Features

- Max Frequency 10 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W02994-48 SMA male right angle to SMA female 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 SMA to SMA cable assembly has a male to female gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W02994-48 SMA male to SMA female cable assembly operates to 10 GHz. The right angle SMA 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.

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 10 | GHz |
| VSWR | | | 1.5:1 | |
| 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] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male Right Angle to SMA Female Cable 48 Inch Length Using PE-SR405FLJ Coax PE3W02994-48

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
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### Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 0.5 | 1 | 2.5 | 5 | 10 | GHz |
| Insertion Loss (Max.) | 0.9 | 1.2 | 1.69 | 2.5 | 3.55 | dB |

Electrical Specification Notes:
The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector loss.

### Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Length* | 48 in [121.92 cm] |
| Diameter | 0.315 in [8 mm] |

**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 Braid |
| Jacket Material | FEP, Black |
| Jacket Diameter | 0.098 in [2.49 mm] |
| One Time Minimum Bend Radius | 0.236 in [5.99 mm] |
| Repeated Minimum Bend Radius | 0.787 in [19.99 mm] |

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### Connectors

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | SMA Male Right Angle | SMA Female |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold over Nickel | Beryllium Copper, Gold over Nickel |
| Contact Plating Specification | 0.2 µin minimum | |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Gold over Nickel | Brass, Gold over Nickel |
| Body Plating Specification | 0.1 µin minimum | |
| Coupling Nut Material and Plating | Passivated Stainless Steel | |
| Hex Size | 5/16 inch | |
| Torque | 8 in-lbs [0.9 Nm] | |

Mechanical Specification Notes:
*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

**Compliance Certifications** (see product page for current document)

**Plotted and Other Data**

Notes:

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# SMA Male Right Angle to SMA Female Cable 48 Inch Length Using PE-SR405FLJ Coax

## RF Cable Assemblies Technical Data Sheet PE3W02994-48

### How to Order

Part Number Configuration: **PE3W02994 - xx uu**

- uu — Unit of Measure: cm = Centimeters, <blank> = Inches
- xx — Length
- PE3W02994 — Base Number

Example: PE3W02994-12 = 12 inches long cable
PE3W02994-100cm = 100 cm long cable

SMA Male Right Angle to SMA Female 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.

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: SMA Male Right Angle to SMA Female Cable 48 Inch Length Using PE-SR405FLJ Coax PE3W02994-48

URL: https://www.pasternack.com/sma-male-sma-female-pe-sr405flj-cable-assembly-pe3w02994-48-p.aspx

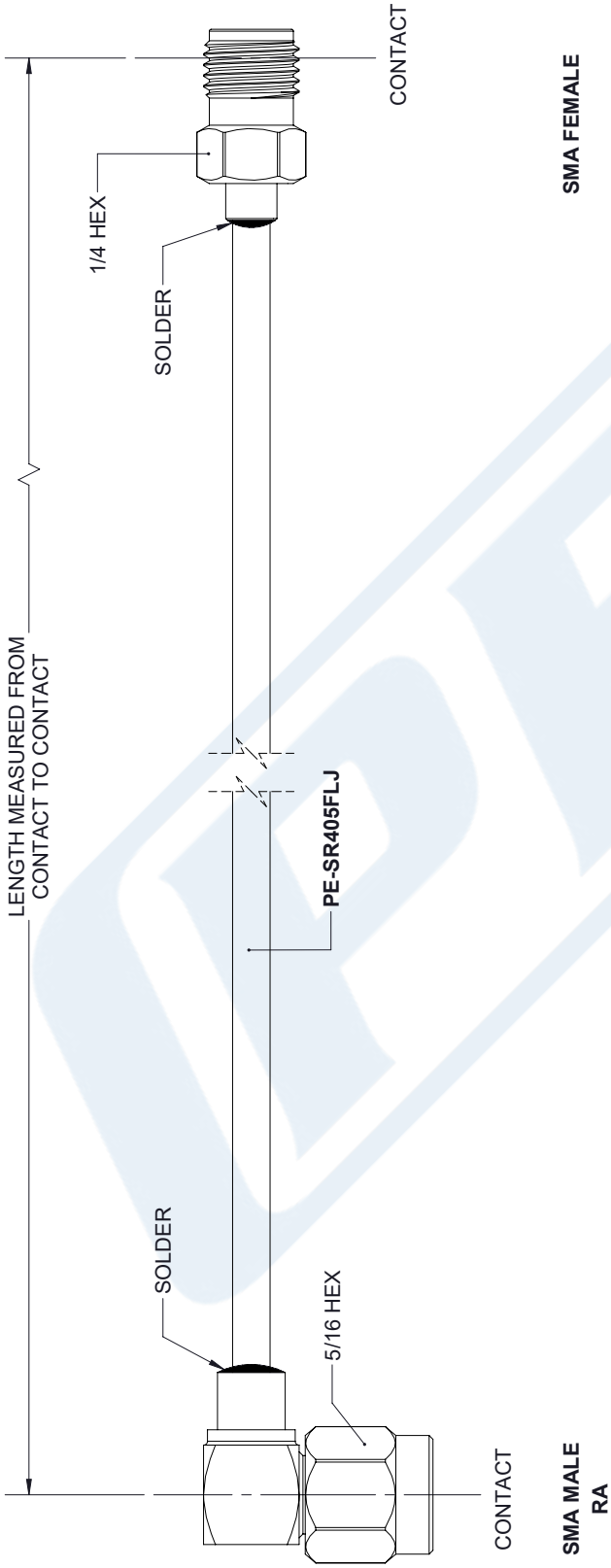
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# PE3W02994-48 CAD Drawing

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




REVISIONS

| REV. | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|
| A | INITIAL RELEASE | 05/02/19 | S.ELLIS |

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

TOLERANCES:

X=± .2 [5.08] | FRACTIONS ± 1/32
.XX=± .01 [.25] | ANGLES ± 1°
.XXX=± .005 [.13]

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION


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| SIZE | CAGE | DRAWN BY | PART NUMBER | REV |
|---|---|---|---|---|
| A | 53919 | K.DANG | PE3W02994 | A |

SHEET 1 OF 1

SCALE N/A


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