



SMA Male to 2.92mm Male Cable Using PE-SR402FLJ Coax, LF Solder, RoHS

TECHNICAL DATA SHEET

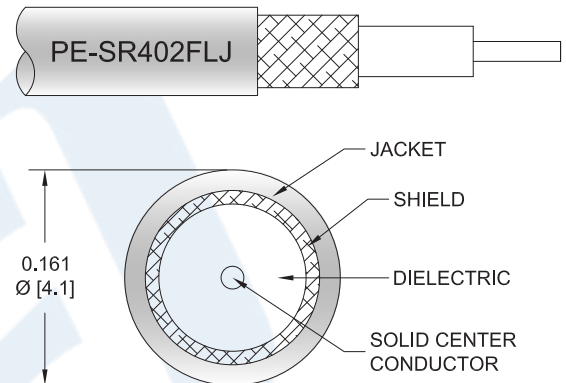
PE3C1509LF/HS

Configuration

- Connector 1: SMA Male
- Connector 2: 2.92mm Male
- Cable Type: PE-SR402FLJ
- Coax Flex Type: Formable

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 100 dB
- 70% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C1509LF/HS SMA male to 2.92mm male cable using PE-SR402FLJ 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 2.92mm cable assembly has a male to male gender configuration with 50 ohm formable PE-SR402FLJ coax. The PE3C1509LF/HS SMA male to 2.92mm male cable assembly operates to 18 GHz.

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: [SMA Male to 2.92mm Male Cable Using PE-SR402FLJ Coax, LF Solder, RoHS PE3C1509LF/HS](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|-------------|---------|--------------|
| Frequency Range | DC | | 18 | GHz |
| Velocity of Propagation | | 70 | | % |
| RF Shielding | 100 | | | dB |
| Group Delay | | 1.43 [4.69] | | ns/ft [ns/m] |
| Capacitance | | 29 [95.14] | | pF/ft [pF/m] |

Specifications by Frequency

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|------------------|--------------------------|-----------------------|------|------|------|------|-------|-------|--------------|
| | | Frequency | 1000 | 2000 | 4500 | 9000 | ##### | MHz | |
| PE3C1509LF/HS | Custom Lengths Available | Insertion Loss (Typ.) | 0.12 | 0.17 | 0.29 | 0.44 | 0.68 | dB/ft | |
| | | | 0.4 | 0.56 | 0.96 | 1.45 | 2.24 | dB/m | |
| PE3C1509LF/HS-6 | 6 inch | Insertion Loss (Typ.) | 0.26 | 0.29 | 0.35 | 0.42 | 0.54 | dB | 0.026 |
| PE3C1509LF/HS-9 | 9 inch | Insertion Loss (Typ.) | 0.29 | 0.33 | 0.42 | 0.53 | 0.71 | dB | 0.033 |
| PE3C1509LF/HS-12 | 12 inch | Insertion Loss (Typ.) | 0.32 | 0.37 | 0.49 | 0.64 | 0.88 | dB | 0.04 |
| PE3C1509LF/HS-18 | 18 inch | Insertion Loss (Typ.) | 0.38 | 0.46 | 0.64 | 0.86 | 1.22 | dB | 0.055 |
| PE3C1509LF/HS-24 | 24 inch | Insertion Loss (Typ.) | 0.44 | 0.54 | 0.78 | 1.08 | 1.56 | dB | 0.07 |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

| | |
|-----------------------------|----------------|
| Loss due to Connector 1: | 0.1 dB |
| Loss due to Connector 2: | 0.1 dB |
| Base Weight: | 0.04 pounds |
| Additional Weight per Inch: | 0.00242 pounds |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.04 lbs [18.14 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to 2.92mm Male Cable Using PE-SR402FLJ Coax, LF Solder, RoHS PE3C1509LF/HS](#)



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Cable

| | |
|--------------------------------------|---------------------------|
| Cable Type | PE-SR402FLJ |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Shield Layer 1 | Tinned Copper Braid |
| Jacket Material | FEP, Black |
| Jacket Diameter | 0.161 in [4.09 mm] |
| One Time Minimum Bend Radius | 0.315 in [8 mm] |
| Repeated Minimum Bend Radius | 1.575 in [40.01 mm] |

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|----------------------------|------------------------|
| Type | SMA Male Threaded | 2.92mm Male Threaded |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | | Beryllium Copper, Gold |
| Contact Plating Specification | | 50µ in. minimum |
| Dielectric Type | | PTFE |
| Body Material and Plating | Brass, Gold over Nickel | Stainless Steel, Gold |
| Body Plating Specification | | 50µ in. minimum |
| Coupling Nut Material and Plating | Passivated Stainless Steel | Stainless Steel, Gold |
| Coupling Nut Plating Specification | | 50µ in. minimum |
| Hex Size | 5/16 inch | 5/16 in. |
| Torque | 8 in-lbs [0.9 Nm] | 8 in-lbs [0.9 Nm] |

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

Plotted and Other Data

Notes:

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TECHNICAL DATA SHEET

PE3C1509LF/HS

How to Order

Part Number Configuration:

PE3C1509LF/HS - xx

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

Example: PE3C1509LF/HS-12 = 12 inches long cable
PE3C1509LF/HS-100cm = 100 cm long cable

SMA Male to 2.92mm Male Cable Using PE-SR402FLJ Coax, LF Solder, RoHS 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 to 2.92mm Male Cable Using PE-SR402FLJ Coax, LF Solder, RoHS PE3C1509LF/HS](#)

URL: <https://www.pasternack.com/sma-male-2.92mm-male-pe-sr402flj-cable-assembly-pe3c1509lf-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.

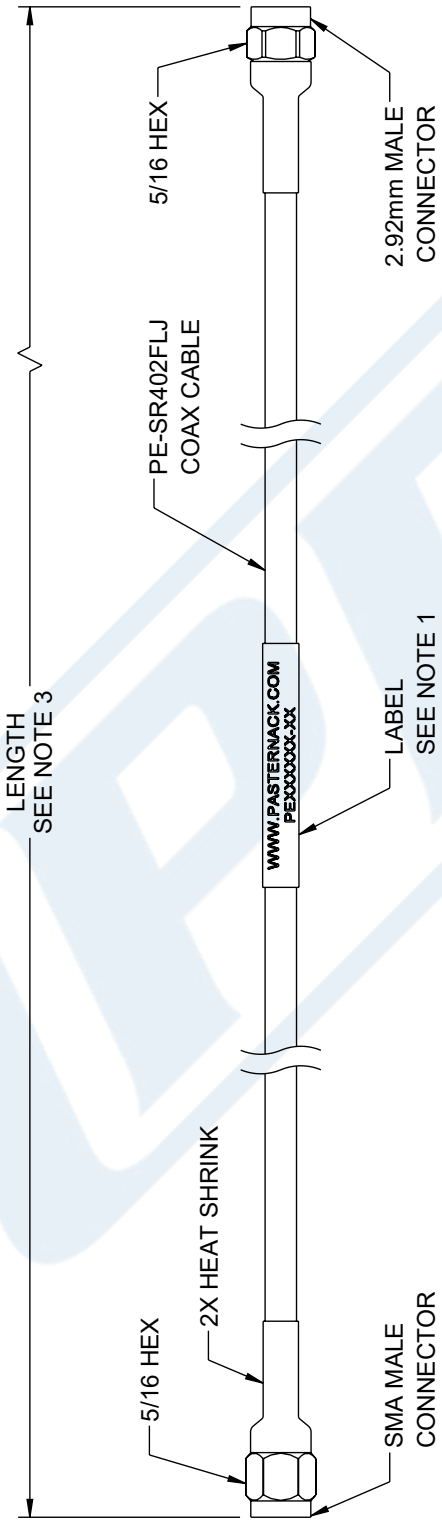
PE3C1509LF/HS CAD Drawing

SMA Male to 2.92mm Male Cable Using PE-SR402FLJ Coax, LF Solder, RoHS

F E D C B A

1 2 3 4 5 6

| ZONE | | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|--|-----|-----------------|------------|------------|----------|
| | | A | INITIAL RELEASE | 10/18/2023 | HBAKKE | AGANWANI |



LENGTH
SEE NOTE 3

LABEL
SEE NOTE 1

NOTES:

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT:
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED,
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6
INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND
DESCRIPTION.

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| | | |
|--|--|------------------------------------|
| UNLESS OTHERWISE SPECIFIED LENGTHS DIMENSIONS ARE IN INCHES DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS | TOLERANCES: X = ±.2 [5] XX = ±.02 [0.5] XXX = ±.005 [0.13] | FRACTIONS ± 1/32 ANGLES ± 1° |
| CABLE LENGTH TOLERANCES: ≤ 120 [3048] = ±.125 [-0] >120 [3048] ≤ 300 [7620] = ±.100 [-0] >300 [7620] = ±.150 [-0] | ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED DIMENSIONS MAY VARY | |

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Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

| | |
|-------------|---|
| DESCRIPTION | SMA MALE TO 2.92MM MALE CABLE USING PE-SR402FLJ COAX WITH HEATSHRINK, LF SOLDER |
| SIZE | A |
| CAGE CODE | 53919 |
| DRAWN BY | HBAKKE |
| ITEM NO. | PE3C1509LF/HS |
| REV | A |

F E D C B A

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