

2.4mm Male to 2.4mm Male Cable Using PE-SR405FLJ Coax with HeatShrink, LF Solder



PE3C5770LF/HS

Configuration

- Connector 1: 2.4mm Male
- Connector 2: 2.4mm Male
- Cable Type: PE-SR405FLJ
- Coax Flex Type: Formable

Features

- Max Frequency 20 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C5770LF/HS 2.4mm male to 2.4mm male 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 2.4mm to 2.4mm cable assembly has a male to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C5770LF/HS 2.4mm male to 2.4mm male cable assembly operates to 20 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.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|---------------|---------|-----------------------|
| Frequency Range | DC | | 20 | GHz |
| VSWR | | | 1.4:1 | |
| 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] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor | | 10.2 [33.46] | | Ohms/1000ft [Ohms/Km] |

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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|------------------------|---------|---------|---------|-------|
| Operating Voltage (AC) | | | 335 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 1 | 2 | 4.5 | 9 | 20 | GHz |
| Insertion Loss (Typ.) | 0.23 | 0.31 | 0.51 | 0.76 | 1.2 | dB/ft |
| | 0.75 | 1.02 | 1.67 | 2.49 | 3.94 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.04 \times \sqrt{\text{fGHz}}$ dB per connector.

Mechanical Specifications

Cable Assembly

| | |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.031 lbs [14.06 g] |

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 1 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 | 2.4mm Male | 2.4mm Male |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Mating Cycles | 500 | 500 |
| Contact Material and Plating | Beryllium Copper, Gold over Nickel | Beryllium Copper, Gold over Nickel |
| Contact Plating Specification | 50 µin minimum | 50 µin minimum |
| Dielectric Type | PEI | PEI |
| Body Material and Plating | Beryllium Copper, Gold over Nickel | Beryllium Copper, Gold over Nickel |
| Body Plating Specification | 50 µin minimum | 50 µin minimum |
| Coupling Nut Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Coupling Nut Plating Specification | ASTM-A582 | ASTM-A582 |
| Hex Size | 5/16 inch | 5/16 inch |
| Torque | 8 in-lbs 0.9 Nm | 8 in-lbs 0.9 Nm |

Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

Plotted and Other Data

Notes:

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PE3C5770LF/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3C5770LF/HS - xx uu

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

Example: PE3C5770LF/HS-12 = 12 inches long cable
PE3C5770LF/HS-100cm = 100 cm long cable

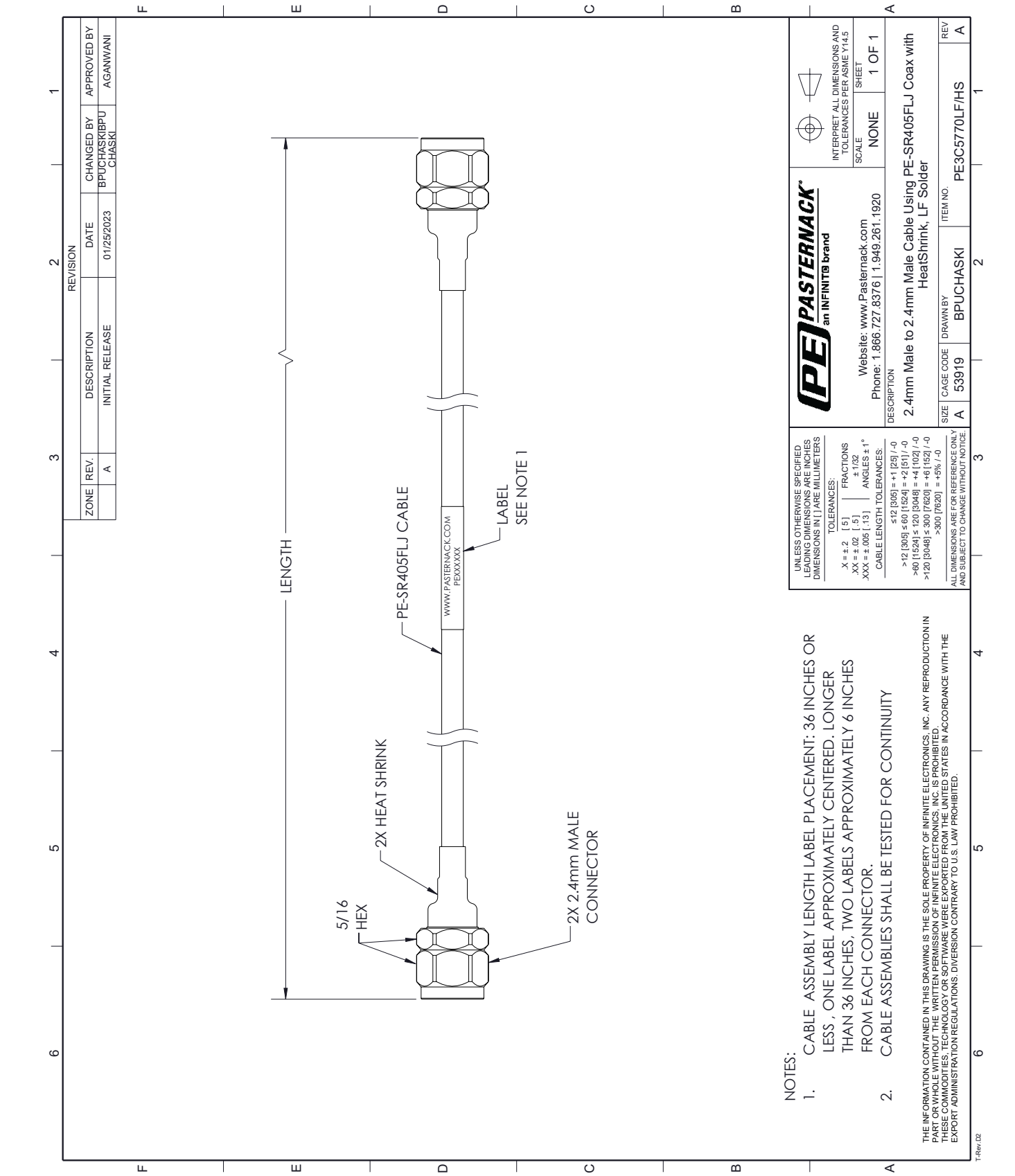
2.4mm Male to 2.4mm Male Cable Using PE-SR405FLJ Coax with HeatShrink, LF Solder from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male to 2.4mm Male Cable Using PE-SR405FLJ Coax with HeatShrink, LF Solder PE3C5770LF/HS](https://www.pasternack.com/2.4mm-male-to-2.4mm-male-cable-using-pe-sr405flj-coax-with-heatshrink-lf-solder-pe3c5770lf-hs-p.aspx)

URL: <https://www.pasternack.com/2.4mm-male-to-2.4mm-male-cable-using-pe-sr405flj-coax-with-heatshrink-lf-solder-pe3c5770lf-hs-p.aspx>

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PE3C5770LF/HS CAD Drawing
2.4mm Male to 2.4mm Male Cable Using PE-SR405FLJ Coax with HeatShrink, LF Solder



NOTES:

1. 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.

2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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| <div>CABLE LENGTH TOLERANCES:</div> <div><div><div>≤ 12 [305] = ± .1 [25] / -0</div><div>>12 [305] ≤ 60 [1524] = ± .2 [51] / -0</div><div>>60 [1524] ≤ 120 [3048] = ± .4 [102] / -0</div><div>>120 [3048] ≤ 300 [7620] = ± .6 [152] / -0</div><div>>300 [7620] = ± .95 [24] / -0</div></div></div> | | <div>DESCRIPTION</div> <div>2.4mm Male to 2.4mm Male Cable Using PE-SR405FLJ Coax with HeatShrink, LF Solder</div> | | | |
| SIZE | A | CAGE CODE | 53919 | DRAWN BY | BPUCHASKI |
| ITEM NO | | | | PE3C5770LF/HS | |
| REV | | | | A | |