

2.92mm Male to 2.92mm Male Right Angle Cable Using PE-118SR Semi-Rigid Coax



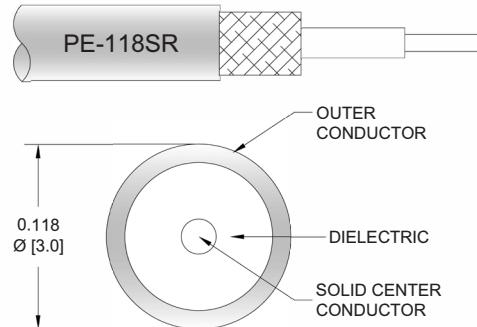
PE3C10452

Configuration

- Connector 1: 2.92mm Male
- Connector 2: 2.92mm Male Right Angle
- Cable Type: PE-118SR
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 40 GHz
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10452 2.92mm male to 2.92mm male right angle cable using PE-118SR coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack 2.92mm to 2.92mm cable assembly has a male to male gender configuration with 50 ohm semi-rigid PE-118SR coax. The PE3C10452 2.92mm male to 2.92mm male cable assembly operates to 40 GHz. The right angle 2.92mm interface on the PE-118SR 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 | | 40 | GHz |
| VSWR | | | 1.4:1 | |

Specifications by Frequency

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| Part Number | Length | Description | F1 | F2 | F3 | F4 | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|-------|-------|-------|-------|-------|--------------|
| | | Frequency | 2500 | 5000 | 10000 | 20000 | MHz | |
| PE3C10452 | Custom Lengths Available | Insertion Loss (Typ.) | 0.175 | 0.258 | 0.425 | 0.625 | dB/ft | |
| | | | 0.58 | 0.85 | 1.4 | 2.06 | dB/m | |
| PE3C10452-6 | 6 Inch | Insertion Loss (Typ.) | 0.92 | 1.23 | 1.68 | 2.31 | dB | 0.049 |
| PE3C10452-12 | 12 Inch | Insertion Loss (Typ.) | 1.01 | 1.36 | 1.89 | 2.62 | dB | 0.06 |
| PE3C10452-18 | 18 Inch | Insertion Loss (Typ.) | 1.1 | 1.49 | 2.11 | 2.93 | dB | 0.072 |
| PE3C10452-24 | 24 Inch | Insertion Loss (Typ.) | 1.19 | 1.62 | 2.32 | 3.24 | dB | 0.083 |
| PE3C10452-36 | 36 Inch | Insertion Loss (Typ.) | 1.36 | 1.87 | 2.74 | 3.87 | dB | 0.106 |

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: $0.4 * \text{SQRT}(F\text{GHz})$ dB

Loss due to Connector 2: 0.2 dB

Base Weight: 0.06 pounds

Additional Weight per Inch: 0.00188 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
Weight 0.06 lbs [27.22 g]

Cable

| | |
|--------------------------------------|-------------------|
| Cable Type | PE-118SR |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PTFE (LD) |
| Number of Shields | 1 |
| Shield Layer 1 | Copper |
| Jacket Material | Tan |
| One Time Minimum Bend Radius | 0.4 in [10.16 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|------------------------|--|
| Type | 2.92mm Male | 2.92mm Male Right Angle |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Right Angle |
| Mating Cycles | 500 | 500 |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold over Nickel over Copper |
| Contact Plating Specification | ASTM-B488 | |
| Dielectric Type | PTFE | PPO |
| Body Material and Plating | Beryllium Copper, Gold | Stainless Steel, Passivated |
| Body Plating Specification | ASTM-B488 | |
| Coupling Nut Material and Plating | Steel | |
| Torque | 8 in-lbs 0.9 Nm | |

Environmental Specifications

Operating Range Temperature -40 to +105 deg C

Compliance Certifications

(see product page for current document)

Plotted and Other Data

Notes:

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PE3C10452

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10452 - xx uu

Legend:

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

Example: PE3C10452-12 = 12 inches long cable
PE3C10452-100cm = 100 cm long cable

2.92mm Male to 2.92mm Male Right Angle Cable Using PE-118SR Semi-Rigid 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.

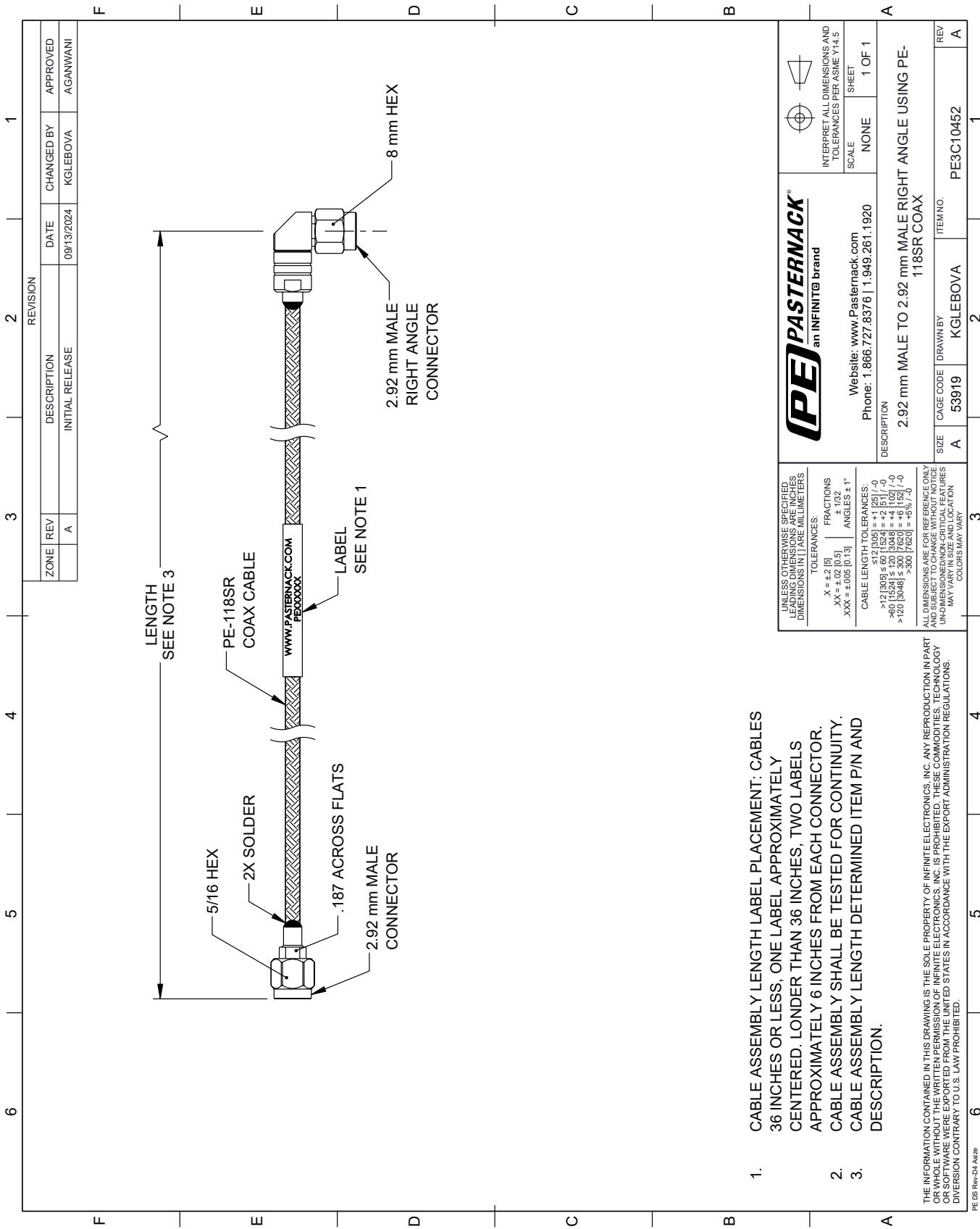
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Male to 2.92mm Male Right Angle Cable Using PE-118SR Semi-Rigid Coax PE3C10452](#)

URL: <https://www.pasternack.com/2.92mm-male-to-2.92mm-male-cable-using-pe-118sr-pe3c10452-p.aspx>

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PE3C10452 CAD Drawing

2.92mm Male to 2.92mm Male Right Angle Cable Using PE-118SR Semi-Rigid Coax



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