

## 1.85mm Male to 2.92mm Male Cable 150 cm Using PE-SR405FLJ Coax



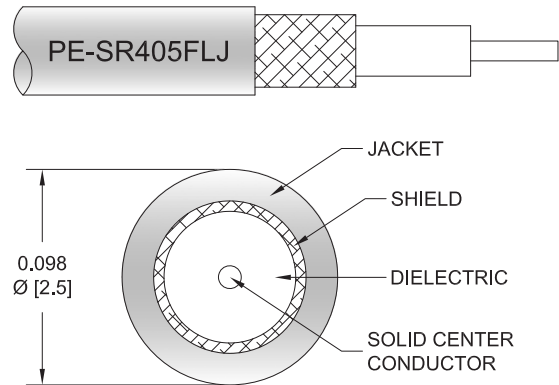
### PE3W07895-150CM

#### Configuration

- Connector 1: 1.85mm Male
- Connector 2: 2.92mm 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 PE3W07895-150CM 1.85mm male to 2.92mm male 150 cm 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 1.85mm to 2.92mm cable assembly has a male to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W07895-150CM 1.85mm male to 2.92mm 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] |

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### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units                 |
|-------------------------------|---------|--------------|---------|-----------------------|
| DC Resistance Outer Conductor |         | 10.2 [33.46] |         | Ohms/1000ft [Ohms/Km] |

### Specifications by Frequency

| Description           | F1  | F2   | F3  | F4   | F5   | Units |
|-----------------------|-----|------|-----|------|------|-------|
| Frequency             | 1   | 2    | 4.5 | 9    | 20   | GHz   |
| Insertion Loss (Max.) | 1.2 | 1.64 | 2.7 | 4.01 | 6.31 | dB    |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as 0.05\*SQRT(FGHz) dB per 1.85mm connector and 0.04\*SQRT(FGHz) dB per 2.92mm connector.

### Mechanical Specifications

#### Cable Assembly

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.312 in [7.92 mm]  |
| Weight         | 0.085 lbs [38.56 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                                 | 1.85mm Male                        | 2.92mm 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        | MIL-G-45204                        | 50 µin minimum                     |
| Dielectric Type                      |                                    | PEI                                |
| Outer Conductor Material and Plating | Stainless Steel, Gold over Nickel  | Beryllium Copper, Gold over Nickel |
| Body Material and Plating            | Stainless Steel, Gold over Nickel  | Beryllium Copper, Gold over Nickel |
| Body Plating Specification           | MIL-G-45204                        | 50 µin minimum                     |
| Coupling Nut Material and Plating    | Passivated Stainless Steel         | Passivated Stainless Steel         |
| Coupling Nut Plating Specification   | ASTM-A380                          | ASTM-A582                          |
| Hex Size                             | 1/4 inch                           | 5/16 inch                          |
| Torque                               | 8 in-lbs 0.9 Nm                    | 8 in-lbs 0.9 Nm                    |
| Seal Gasket Material                 |                                    | Silicone                           |

### Environmental Specifications

Operating Range Temperature -55 to +100 deg C

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

### Plotted and Other Data

Notes:

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## PE3W07895-150CM

### Typical Performance Data

### How to Order

Part Number Configuration:

**PE3W07895**

**- xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example: PE3W07895-12 = 12 inches long cable  
PE3W07895-100cm = 100 cm long cable

1.85mm Male to 2.92mm Male Cable 150 cm 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: [1.85mm Male to 2.92mm Male Cable 150 cm Using PE-SR405FLJ Coax PE3W07895-150CM](https://www.pasternack.com/1.85mm-male-2.92mm-male-pe-sr405flj-cable-assembly-pe3w07895-150cm-p.aspx)

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PE3W07895-150CM CAD Drawing

1.85mm Male to 2.92mm Male Cable 150 cm Using PE-SR405FLJ Coax

