

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



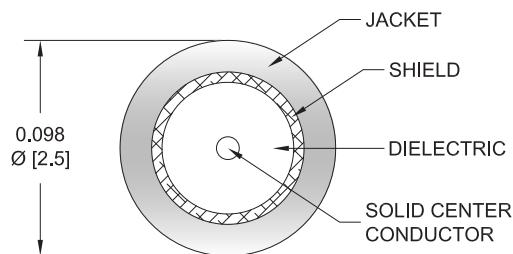
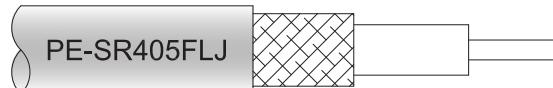
## PE3W07895-50CM

### 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 PE3W07895-50CM 1.85mm male to 2.92mm male 50 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 PE3W07895-50CM 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.)	0.45	0.62	1.01	1.49	2.33	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  $0.05 * \text{SQRT}(F\text{GHz})$  dB per 1.85mm connector and  $0.04 * \text{SQRT}(F\text{GHz})$  dB per 2.92mm connector.

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.312 in [7.92 mm]
Weight	0.039 lbs [17.69 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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## PE3W07895-50CM

### 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 $\mu$ in 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 $\mu$ in 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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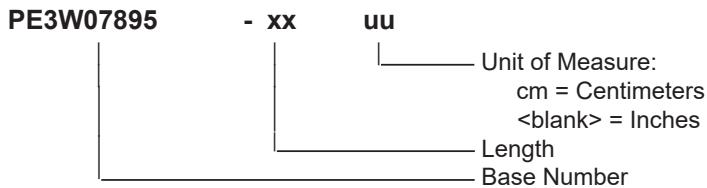


## PE3W07895-50CM

### Typical Performance Data

### How to Order

Part Number Configuration:



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

1.85mm Male to 2.92mm Male Cable 50 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.

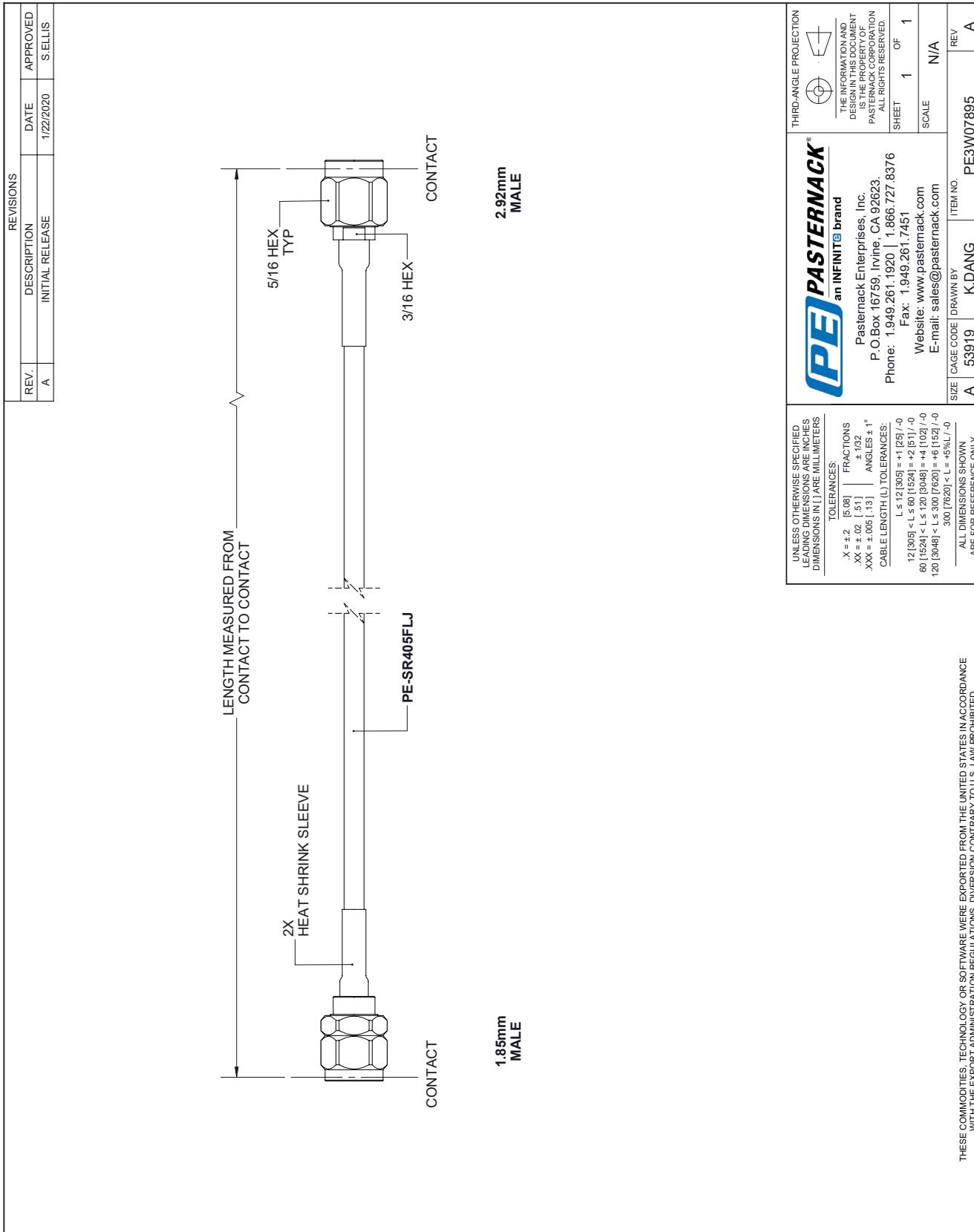
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.85mm Male to 2.92mm Male Cable 50 cm Using PE-SR405FLJ Coax PE3W07895-50CM](#)

URL: <https://www.pasternack.com/1.85mm-male-2.92mm-male-pe-sr405flj-cable-assembly-pe3w07895-50cm-p.aspx>

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# PE3W07895-50CM CAD Drawing

1.85mm Male to 2.92mm Male Cable 50 cm Using PE-SR405FLJ Coax



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