

1.85mm Male to Mini SMP Female Cable Using PE-SR405FLJ Coax



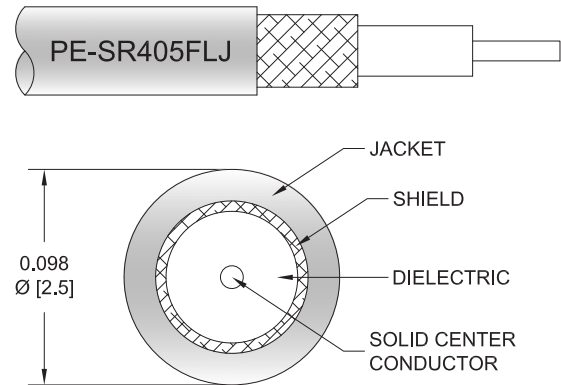
PE3C10786

Configuration

- Connector 1: 1.85mm Male
- Connector 2: Mini SMP Female
- Cable Type: PE-SR405FLJ
- Coax Flex Type: Formable

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10786 1.85mm male to Mini SMP female 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 Mini SMP cable assembly has a male to female gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C10786 1.85mm male to Mini SMP female 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]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	20000	MHz	
PE3C10786	Custom Lengths Available	Insertion Loss (Typ.)	0.225	0.306	0.508	0.759	1.2	dB/ft	
			0.74	1.01	1.67	2.5	3.94	dB/m	
PE3C10786-6	6 In	Insertion Loss (Typ.)	0.26	0.31	0.44	0.6	0.88	dB	0.03
PE3C10786-9	9 In	Insertion Loss (Typ.)	0.31	0.39	0.57	0.79	1.18	dB	0.035
PE3C10786-12	12 In	Insertion Loss (Typ.)	0.37	0.47	0.7	0.98	1.48	dB	0.04
PE3C10786-18	18 In	Insertion Loss (Typ.)	0.48	0.62	0.95	1.36	2.08	dB	0.051
PE3C10786-24	24 In	Insertion Loss (Typ.)	0.59	0.77	1.21	1.74	2.68	dB	0.061

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: 0.04*SQRT(FGHz) dB

Loss due to Connector 2: 0.1 dB

Base Weight: 0.04 pounds

Additional Weight per Inch: 0.00167 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter

0.5 in [12.7 mm]

Weight

0.04 lbs [18.14 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	Mini SMP Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	MIL-G-45204
Dielectric Type	PEI	PTFE
Body Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Body Plating Specification	50 µin minimum	MIL-G-45204
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	ASTM-A582	
Hex Size	5/16 inch	
Torque	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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PE3C10786

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10786

- xx

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C10786-12 = 12 inches long cable
PE3C10786-100cm = 100 cm long cable

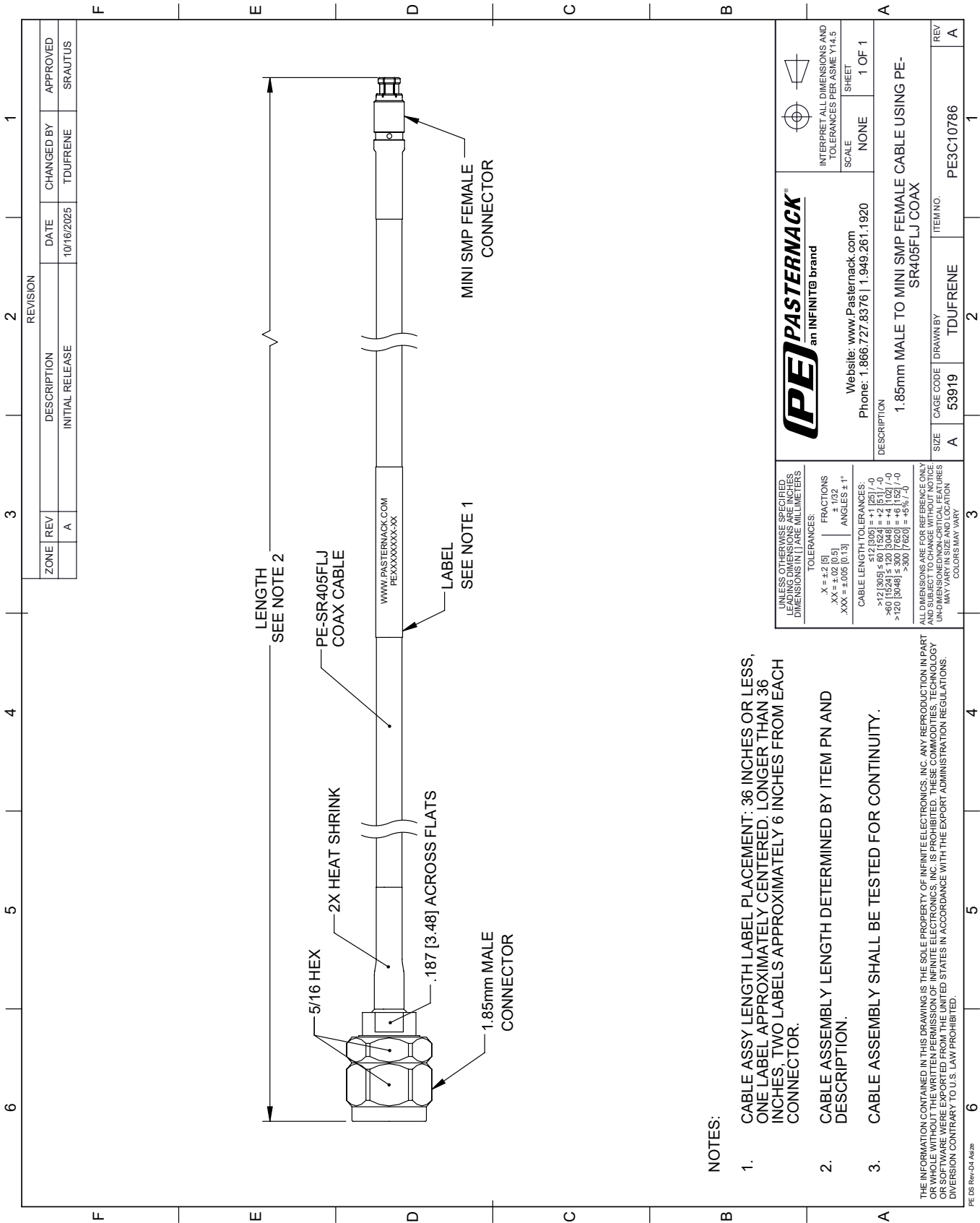
1.85mm Male to Mini SMP Female Cable Using PE-SR405FLJ Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 Mini SMP Female Cable Using PE-SR405FLJ Coax PE3C10786](https://www.pasternack.com/1.85mm-male-to-mini-smp-female-cable-using-pe-sr405flj-pe3c10786-p.aspx)

URL: <https://www.pasternack.com/1.85mm-male-to-mini-smp-female-cable-using-pe-sr405flj-pe3c10786-p.aspx>

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PE3C10786 CAD Drawing
1.85mm Male to Mini SMP Female Cable Using PE-SR405FLJ Coax



NOTES:

- 1. CABLE ASSY 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 ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
- 3. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.

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