

1.85mm Male to SSMC Plug Cable Using PE-SR405FL Coax



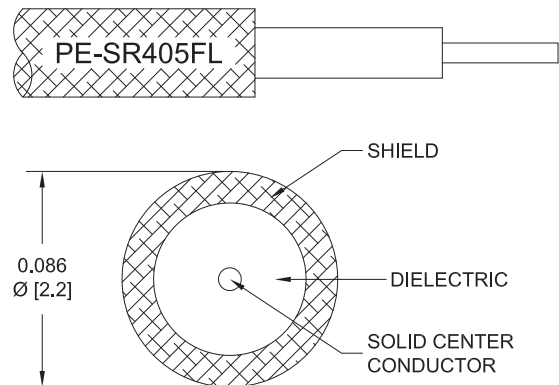
PE3C10757

Configuration

- Connector 1: 1.85mm Male
- Connector 2: SSMC Plug
- Cable Type: PE-SR405FL
- Coax Flex Type: Formable

Features

- Max Frequency 12.4 GHz
- 69.5% Phase Velocity
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10757 1.85mm male to SSMC plug cable using PE-SR405FL 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 SSMC cable assembly has a male to plug gender configuration with 50 ohm formable PE-SR405FL coax. The PE3C10757 1.85mm male to SSMC plug cable assembly operates to 12.4 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		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
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

1.85mm Male to SSMC Plug Cable Using PE-SR405FL Coax



PE3C10757

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	12400	MHz	
PE3C10757	Custom Lengths Available	Insertion Loss (Typ.)	0.15	0.225	0.346	0.549	0.905	dB/ft	
			0.5	0.74	1.14	1.81	2.97	dB/m	
PE3C10757-6	6 In	Insertion Loss (Typ.)	0.21	0.26	0.34	0.47	0.7	dB	0.025
PE3C10757-9	9 In	Insertion Loss (Typ.)	0.25	0.31	0.43	0.61	0.92	dB	0.028
PE3C10757-12	12 In	Insertion Loss (Typ.)	0.28	0.37	0.51	0.74	1.15	dB	0.03
PE3C10757-18	18 In	Insertion Loss (Typ.)	0.36	0.48	0.69	1.02	1.6	dB	0.036
PE3C10757-24	24 In	Insertion Loss (Typ.)	0.43	0.59	0.86	1.29	2.06	dB	0.041

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: 0.03 pounds

Additional Weight per Inch: 0.00084 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter

0.5 in [12.7 mm]

Weight

0.03 lbs [13.61 g]

Cable

Cable Type

PE-SR405FL

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

Copper, Tin

Repeated Minimum Bend Radius

0.78 in [19.81 mm]

1.85mm Male to SSMC Plug Cable Using PE-SR405FL Coax



PE3C10757

Connectors

Description	Connector 1	Connector 2
Type	1.85mm Male	SSMC Plug
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	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	Teflon
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	Beryllium Copper, Gold
Coupling Nut Plating Specification	ASTM-A582	MIL-G-45204
Hex Size	5/16 inch	
Torque	8 in-lbs 0.9 Nm	1.75 in-lbs 0.2 Nm

Environmental Specifications

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

Plotted and Other Data

Notes:

1.85mm Male to SSMC Plug Cable Using PE-SR405FL Coax



PE3C10757

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10757

- xx

uu

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

Length
Base Number

Example: PE3C10757-12 = 12 inches long cable
PE3C10757-100cm = 100 cm long cable

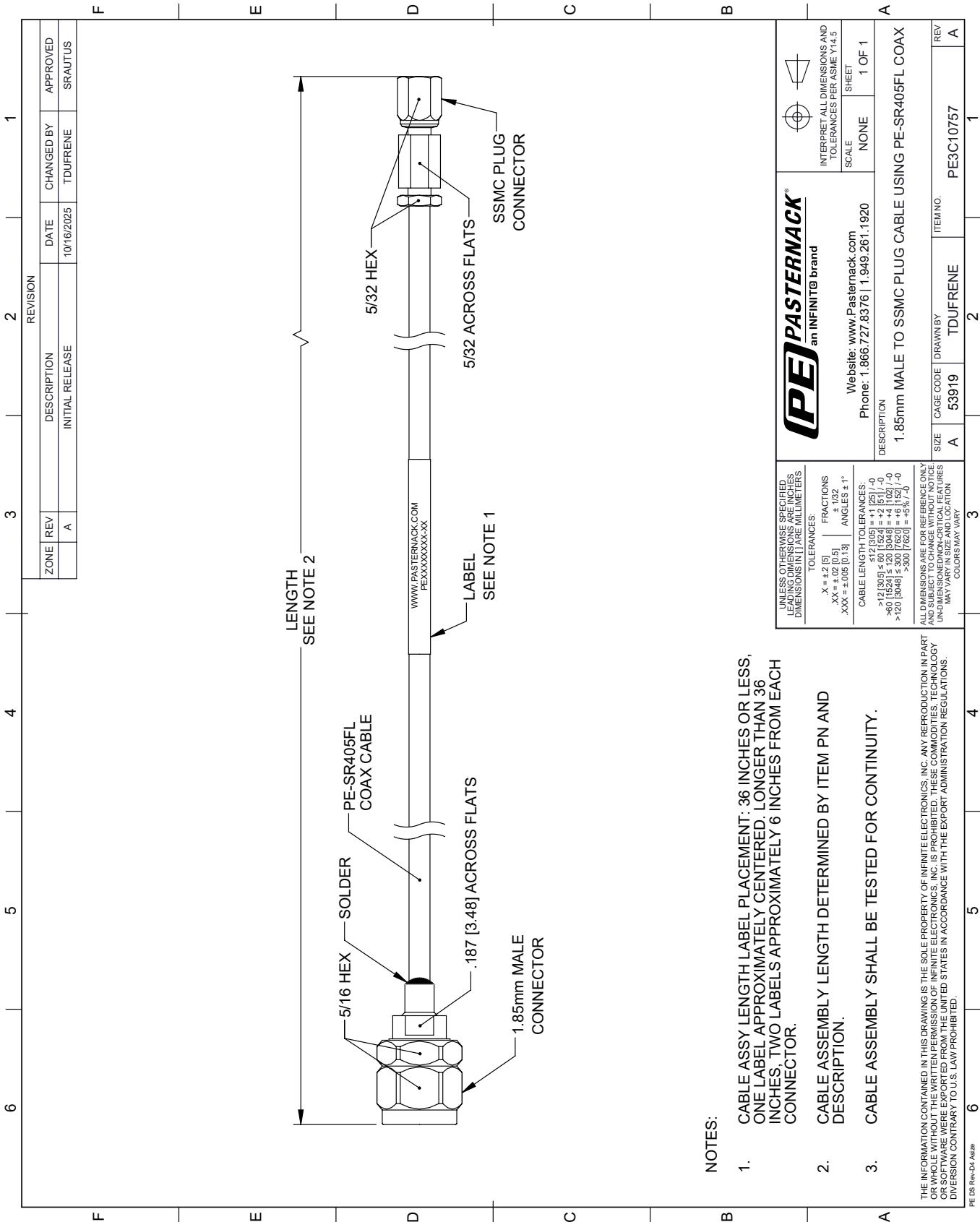
1.85mm Male to SSMC Plug Cable Using PE-SR405FL Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 SSMC Plug Cable Using PE-SR405FL Coax PE3C10757](https://www.pasternack.com/1.85mm-male-to-ssmc-plug-cable-using-pe-sr405fl-pe3c10757-p.aspx)

URL: <https://www.pasternack.com/1.85mm-male-to-ssmc-plug-cable-using-pe-sr405fl-pe3c10757-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C10757 CAD Drawing
1.85mm Male to SSMC Plug Cable Using PE-SR405FL 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.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVISION CONTRARY TO U.S. LAW PROHIBITED.

PE DS Rev-D4 Addn

			
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5			
SCALE		SHEET	
NONE		1 OF 1	

(PE) PASTERNAK® an INFINITE® brand		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	
DESCRIPTION			
1.85mm MALE TO SSMC PLUG CABLE USING PE-SR405FL COAX			

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	TDUFRENE	PE3C10757	A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.		TOLERANCES:	
X = ±.2 [5]	FRACTIONS	XX = ±.02 [0.5]	ANGLES ± 1°
XXX = ±.005 [0.13]			
CABLE LENGTH TOLERANCES:			
>12 [305] ≤ 60 [1524] = +.1 [25] / -0			
>60 [1524] ≤ 120 [3048] = +.1 [25] / -0			
>120 [3048] ≤ 300 [7620] = +.1 [25] / -0			
>300 [7620] = +.5% / -0			
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.			