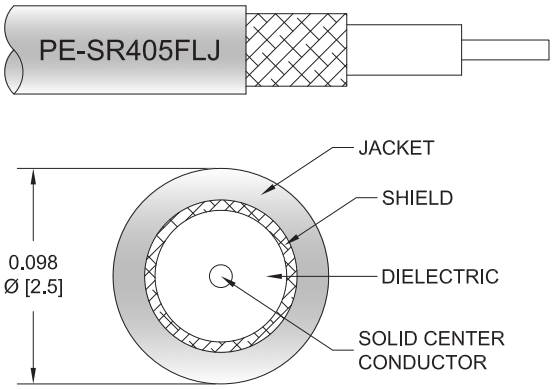
1.85mm Male to SMA Male Cable Using PE-SR405FLJ Coax



PE3C10774

Configuration

- Connector 1: 1.85mm Male
- Connector 2: SMA Male
- Cable Type: PE-SR405FLJ
- Coax Flex Type: Formable



Features

- Max Frequency 18 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10774 1.85mm male to SMA male 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 SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C10774 1.85mm male to SMA male cable assembly operates to 18 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		18	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	18000	MHz	
PE3C10774	Custom Lengths Available	Insertion Loss (Typ.)	0.225	0.306	0.508	0.759	1.122	dB/ft	
			0.74	1.01	1.67	2.5	3.69	dB/m	
PE3C10774-6	6 In	Insertion Loss (Typ.)	0.26	0.31	0.44	0.6	0.84	dB	0.03
PE3C10774-9	9 In	Insertion Loss (Typ.)	0.31	0.39	0.57	0.79	1.12	dB	0.035
PE3C10774-12	12 In	Insertion Loss (Typ.)	0.37	0.47	0.7	0.98	1.4	dB	0.04
PE3C10774-18	18 In	Insertion Loss (Typ.)	0.48	0.62	0.95	1.36	1.96	dB	0.051
PE3C10774-24	24 In	Insertion Loss (Typ.)	0.59	0.77	1.21	1.74	2.52	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	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Brass, Gold over Nickel
Contact Plating Specification	50 µin minimum	
Dielectric Type	PEI	PTFE
Body Material and Plating	Beryllium Copper, Gold over Nickel	Brass, Gold over Nickel
Body Plating Specification	50 µin minimum	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	ASTM-A582	
Hex Size	5/16 inch	5/16 inch
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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Typical Performance Data

How to Order

Part Number Configuration: **PE3C10774 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C10774 — Base Number

Example: PE3C10774-12 = 12 inches long cable
PE3C10774-100cm = 100 cm long cable

1.85mm Male to SMA Male 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 SMA Male Cable Using PE-SR405FLJ Coax PE3C10774

URL: https://www.pasternack.com/1.85mm-male-to-sma-male-cable-using-pe-sr405flj-pe3c10774-p.aspx

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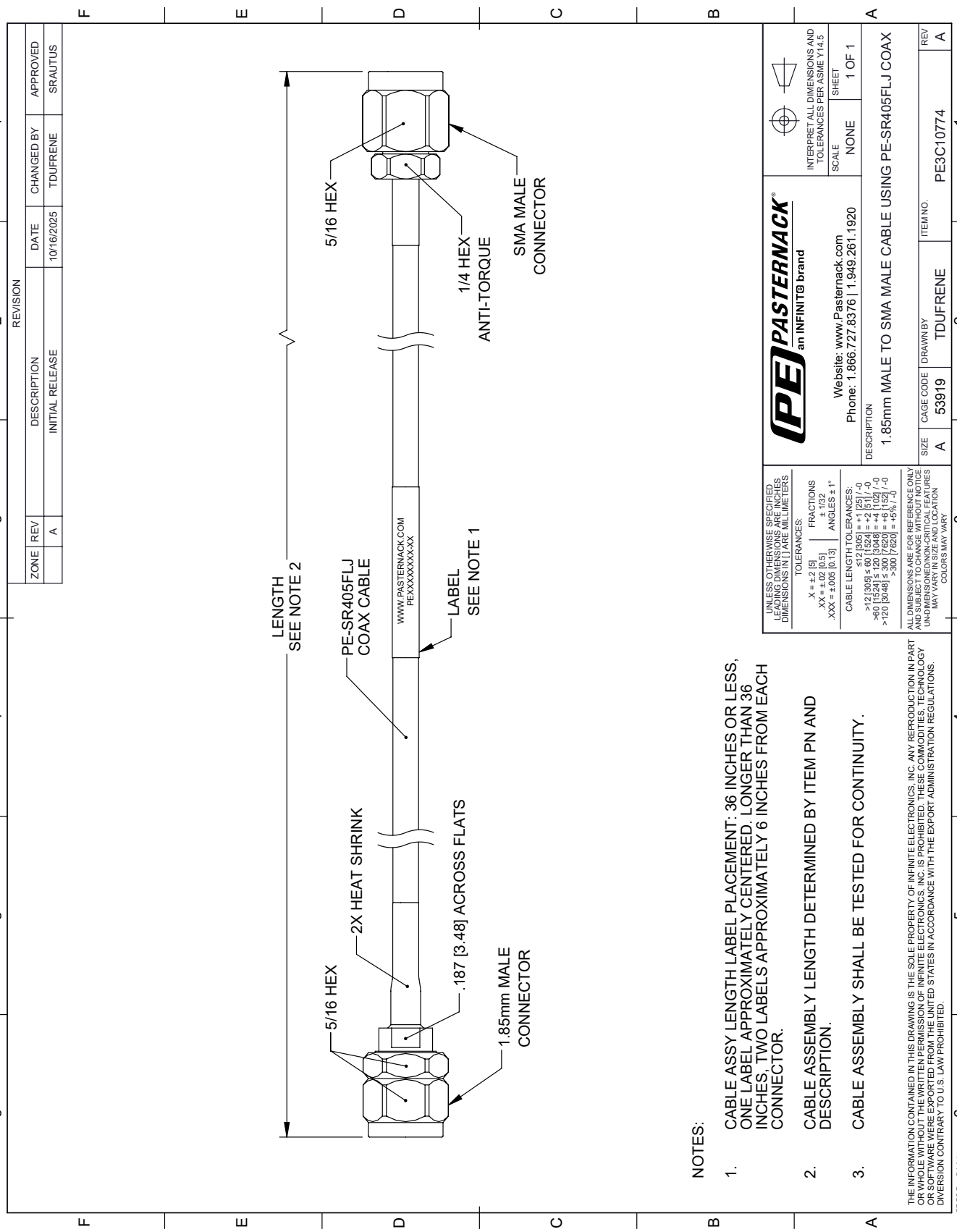
PE3C10774 CAD Drawing

1.85mm Male to SMA Male Cable Using PE-SR405FLJ Coax



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