

2.4mm Male to SMPS Female VITA 67.3 Cable Using PE-P047HF Coax



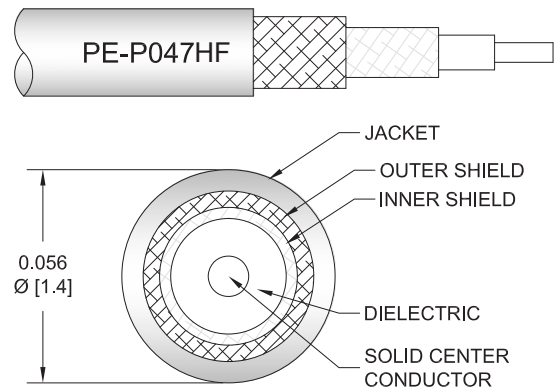
PE3C10825

Configuration

- Connector 1: 2.4mm Male
- Connector 2: SMPS Female
- Cable Type: PE-P047HF
- Coax Flex Type: High Flex

Features

- Max Frequency 40 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10825 2.4mm male to SMPS female cable using PE-P047HF coax is part of our full line of RF components available for same-day shipping. This Pasternack 2.4mm to SMPS cable assembly has a male to female gender configuration with 50 ohm high flex PE-P047HF coax. The PE3C10825 2.4mm male to SMPS female cable assembly operates to 40 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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		40	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		29 [95.14]		pF/ft [pF/m]

Specifications by Frequency

2.4mm Male to SMPS Female VITA 67.3 Cable Using PE-P047HF Coax



PE3C10825

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	2500	5000	10000	20000	40000	MHz	
PE3C10825	Custom Lengths Available	Insertion Loss (Typ.)	0.557	0.808	1.177	1.784	2.774	dB/ft	
			1.83	2.66	3.87	5.86	9.11	dB/m	
PE3C10825-6	6 In	Insertion Loss (Typ.)	0.45	0.6	0.82	1.18	1.74	dB	0.01
PE3C10825-9	9 In	Insertion Loss (Typ.)	0.59	0.8	1.11	1.62	2.44	dB	0.011
PE3C10825-12	12 In	Insertion Loss (Typ.)	0.73	1	1.41	2.07	3.13	dB	0.012
PE3C10825-18	18 In	Insertion Loss (Typ.)	1	1.41	2	2.96	4.52	dB	0.014
PE3C10825-24	24 In	Insertion Loss (Typ.)	1.28	1.81	2.59	3.85	5.91	dB	0.016

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: 0.0119 pounds

Additional Weight per Inch: 0.00034 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.012 lbs [5.44 g]

Cable

Cable Type	PE-P047HF
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Blue
Jacket Diameter	0.06 in [1.52 mm]
Repeated Minimum Bend Radius	0.1 in [2.54 mm]

2.4mm Male to SMPS Female VITA 67.3 Cable Using PE-P047HF Coax



PE3C10825

Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male	SMPS 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	
Dielectric Type	PEI	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Gold
Body Material and Plating	Beryllium Copper, Gold over Nickel	Passivated Stainless Steel
Body Plating Specification	50 µin minimum	
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 -65 to +150 deg C

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

Plotted and Other Data

Notes:

2.4mm Male to SMPS Female VITA 67.3 Cable Using PE-P047HF Coax



PE3C10825

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10825

- xx

uu

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

Length
Base Number

Example: PE3C10825-12 = 12 inches long cable
PE3C10825-100cm = 100 cm long cable

2.4mm Male to SMPS Female VITA 67.3 Cable Using PE-P047HF 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.

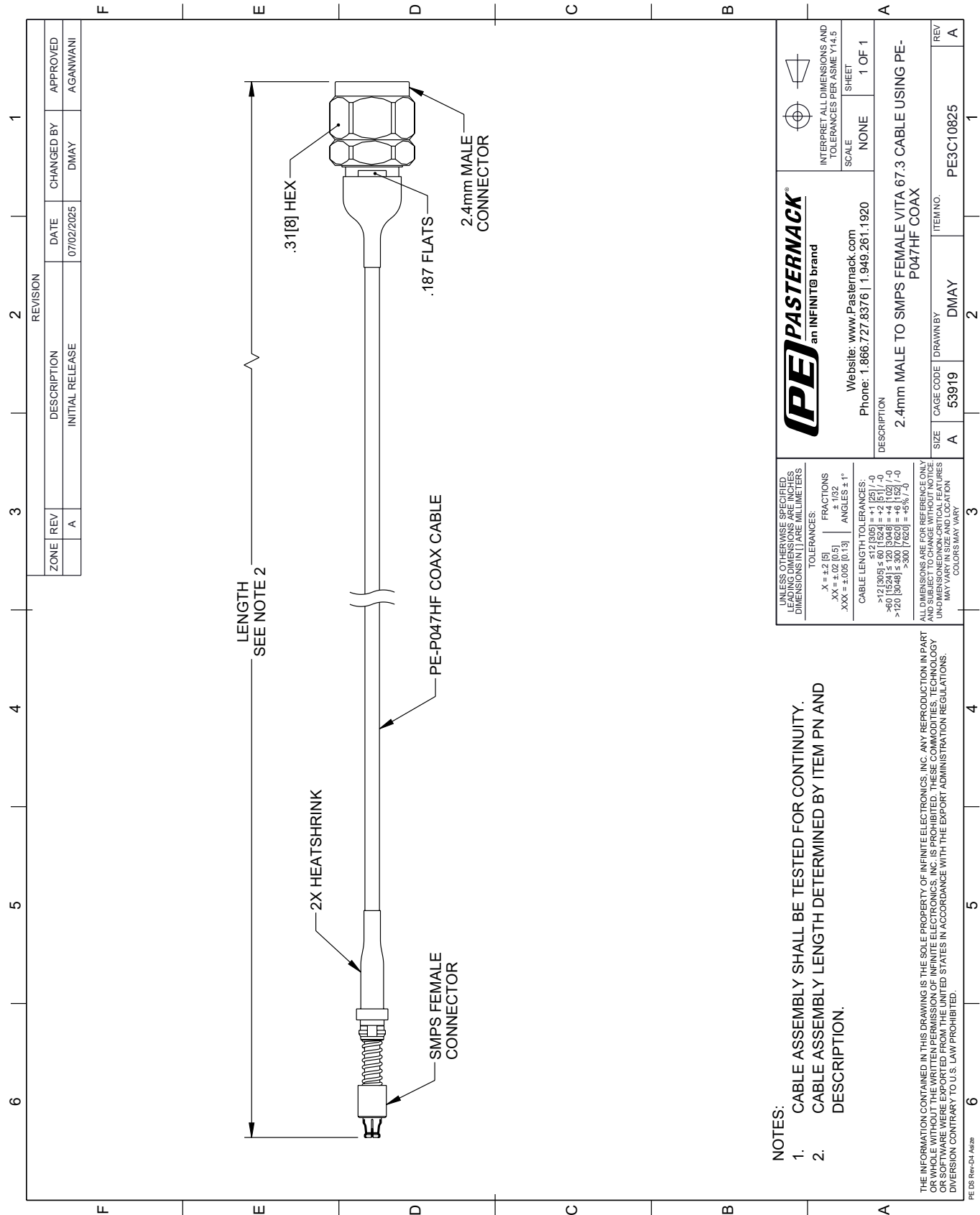
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male to SMPS Female VITA 67.3 Cable Using PE-P047HF Coax PE3C10825](https://www.pasternack.com/2.4mm-male-to-smmps-female-vita-67.3-cable-using-pe-p047hf-pe3c10825-p.aspx)

URL: <https://www.pasternack.com/2.4mm-male-to-smmps-female-vita-67.3-cable-using-pe-p047hf-pe3c10825-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.

PE3C10825 CAD Drawing

2.4mm Male to SMPS Female VITA 67.3 Cable Using PE-P047HF Coax



UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS		PE PASTERNAK® an INFINITE® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: www.Pasternack.com		SCALE	
X = ±.2 [5]		Phone: 1.866.727.8376 1.949.261.1920		NONE	
.XX = ±.02 [0.5]		CAGE CODE		SHEET	
.XXX = ±.005 [0.13]		53919		1 OF 1	
ANGLES ± 1°		DRAWN BY			
CABLE LENGTH TOLERANCES:		DMAY			
>12 [305] ≤ 60 [1524] = ±1 [25] / -0		ITEM NO.			
>60 [1524] ≤ 120 [3048] = ±4 [102] / -0		PE3C10825			
>120 [3048] ≤ 300 [7620] = ±5% / -0					
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.					
DESCRIPTION		2.4mm MALE TO SMPS FEMALE VITA 67.3 CABLE USING PE-P047HF COAX			
REV		A			

NOTES:

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

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. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.