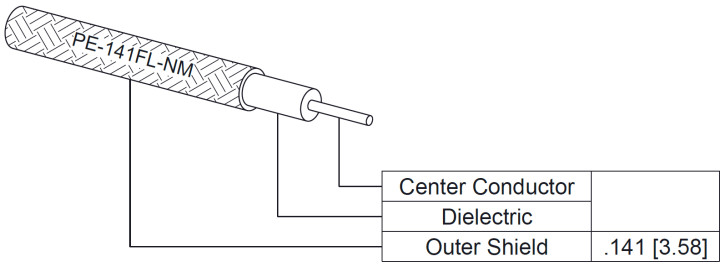
SMA Male to SMA Male Non-Magnetic Cable Using PE-141FL-NM Coax



PE3C10833

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: PE-141FL-NM
- Coax Flex Type: Formable



Features

- Max Frequency 18 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Copper Jacket
- 500 Mating Cycles

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10833 SMA male to SMA male cable using PE-141FL-NM 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 SMA to SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-141FL-NM coax. The PE3C10833 SMA 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		70		%
RF Shielding	90			dB

Specifications by Frequency

© 2025 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.

SMA Male to SMA Male Non-Magnetic Cable Using PE-141FL-NM Coax



PE3C10833

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	
PE3C10833	Custom Lengths Available	Insertion Loss (Typ.)	0.162	0.219	0.363	0.553	0.852	dB/ft	
			0.54	0.72	1.2	1.82	2.8	dB/m	
PE3C10833-6	6 inch	Insertion Loss (Typ.)	0.42	0.45	0.52	0.62	0.77	dB	0.664
PE3C10833-12	12 inch	Insertion Loss (Typ.)	0.5	0.56	0.71	0.9	1.19	dB	1.324
PE3C10833-24	24 inch	Insertion Loss (Typ.)	0.67	0.78	1.07	1.45	2.05	dB	2.644
PE3C10833-36	36 inch	Insertion Loss (Typ.)	0.83	1	1.43	2	2.9	dB	3.964
PE3C10833-60	60 inch	Insertion Loss (Typ.)	1.15	1.44	2.16	3.11	4.6	dB	6.604

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:	0.169	dB
Loss due to Connector 2:	0.169	dB
Base Weight:	1.324	pounds
Additional Weight per Inch:	0.11	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	1.324 lbs [600.56 g]

Cable

Cable Type	PE-141FL-NM
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Silver Plated Copper
Dielectric Type	PTFE
Number of Shields	1
Outer Conductor 1 Material and Plating	Copper-Tin Composite
Jacket Material	Copper
Repeated Minimum Bend Radius	0.375 in [9.53 mm]

© 2025 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.

SMA Male to SMA Male Non-Magnetic Cable Using PE-141FL-NM Coax



PE3C10833

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Gold	Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification	ASTM-B-16	ASTM-B-16
Coupling Nut Material and Plating	Brass, Gold	Brass, Gold
Coupling Nut Plating Specification	ASTM-B-16	ASTM-B-16

Environmental Specifications

Operating Range Temperature	-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

© 2025 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.

SMA Male to SMA Male Non-Magnetic Cable Using PE-141FL-NM Coax



PE3C10833

Typical Performance Data

How to Order

Part Number Configuration: **PE3C10833 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C10833 — Base Number

Example: PE3C10833-12 = 12 inches long cable
PE3C10833-100cm = 100 cm long cable

SMA Male to SMA Male Non-Magnetic Cable Using PE-141FL-NM 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: SMA Male to SMA Male Non-Magnetic Cable Using PE-141FL-NM Coax PE3C10833

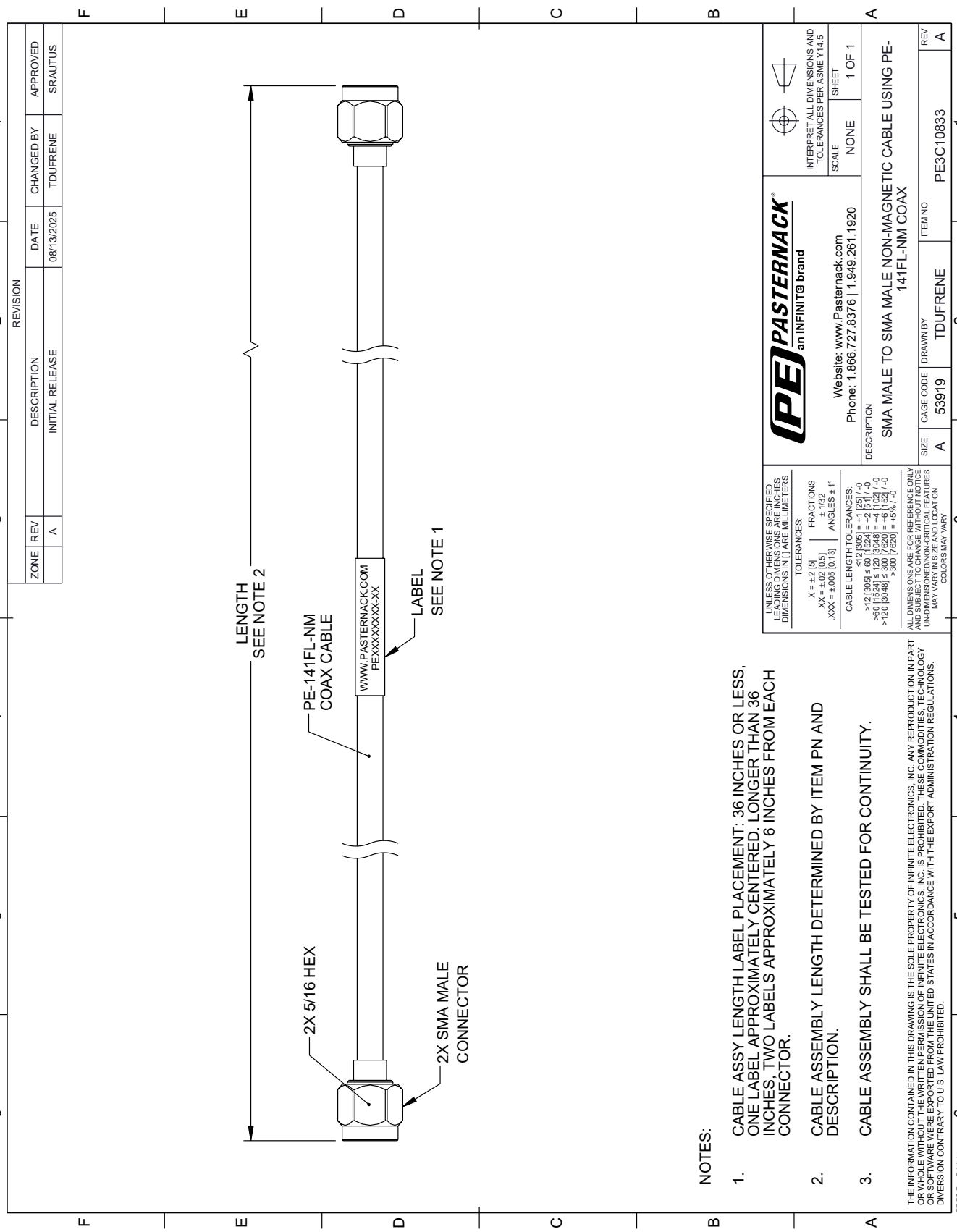
URL: https://www.pasternack.com/sma-male-to-sma-male-non-magnetic-cable-using-pe-141fl-nm-pe3c10833-p.aspx

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 impliment 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.

© 2025 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.

PE3C10833 CAD Drawing

SMA Male to SMA Male Non-Magnetic Cable Using PE-141FL-NM Coax



© 2025 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.