SMA Male to SMA Male Non-Magnetic Cable Using PE-SR141-NM Coax



PE3C10856

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: PE-SR141-NM
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 165 dB
- 69.5% Phase Velocity
- Copper Jacket
- 500 Mating Cycles

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10856 SMA male to SMA male cable using PE-SR141-NM coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack SMA to SMA cable assembly has a male to male gender configuration with 50 ohm semi-rigid PE-SR141-NM coax. The PE3C10856 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		69.5		%
RF Shielding	165			dB

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	
PE3C10856	Custom Lengths Available	Insertion Loss (Typ.)	0.11	0.152	0.259	0.403	0.636	dB/ft	
			0.37	0.5	0.85	1.33	2.09	dB/m	
PE3C10856-6	6 inch	Insertion Loss (Typ.)	0.4	0.42	0.47	0.55	0.66	dB	0.014
PE3C10856-12	12 inch	Insertion Loss (Typ.)	0.45	0.5	0.6	0.75	0.98	dB	0.023
PE3C10856-24	24 inch	Insertion Loss (Typ.)	0.56	0.65	0.86	1.15	1.62	dB	0.042
PE3C10856-36	36 inch	Insertion Loss (Typ.)	0.67	0.8	1.12	1.55	2.25	dB	0.06
PE3C10856-60	60 inch	Insertion Loss (Typ.)	0.89	1.1	1.64	2.36	3.52	dB	0.097

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:	0.17	dB
Loss due to Connector 2:	0.17	dB
Base Weight:	0.023	pounds
Additional Weight per Inch:	0.00153	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.023 lbs [10.43 g]

Cable

Cable Type	PE-SR141-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
Jacket Material	Copper
Repeated Minimum Bend Radius	0.25 in [6.35 mm]

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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 +125 deg C

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: **PE3C10856 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C10856 — Base Number

Example: PE3C10856-12 = 12 inches long cable
PE3C10856-100cm = 100 cm long cable

SMA Male to SMA Male Non-Magnetic Cable Using PE-SR141-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-SR141-NM Coax PE3C10856

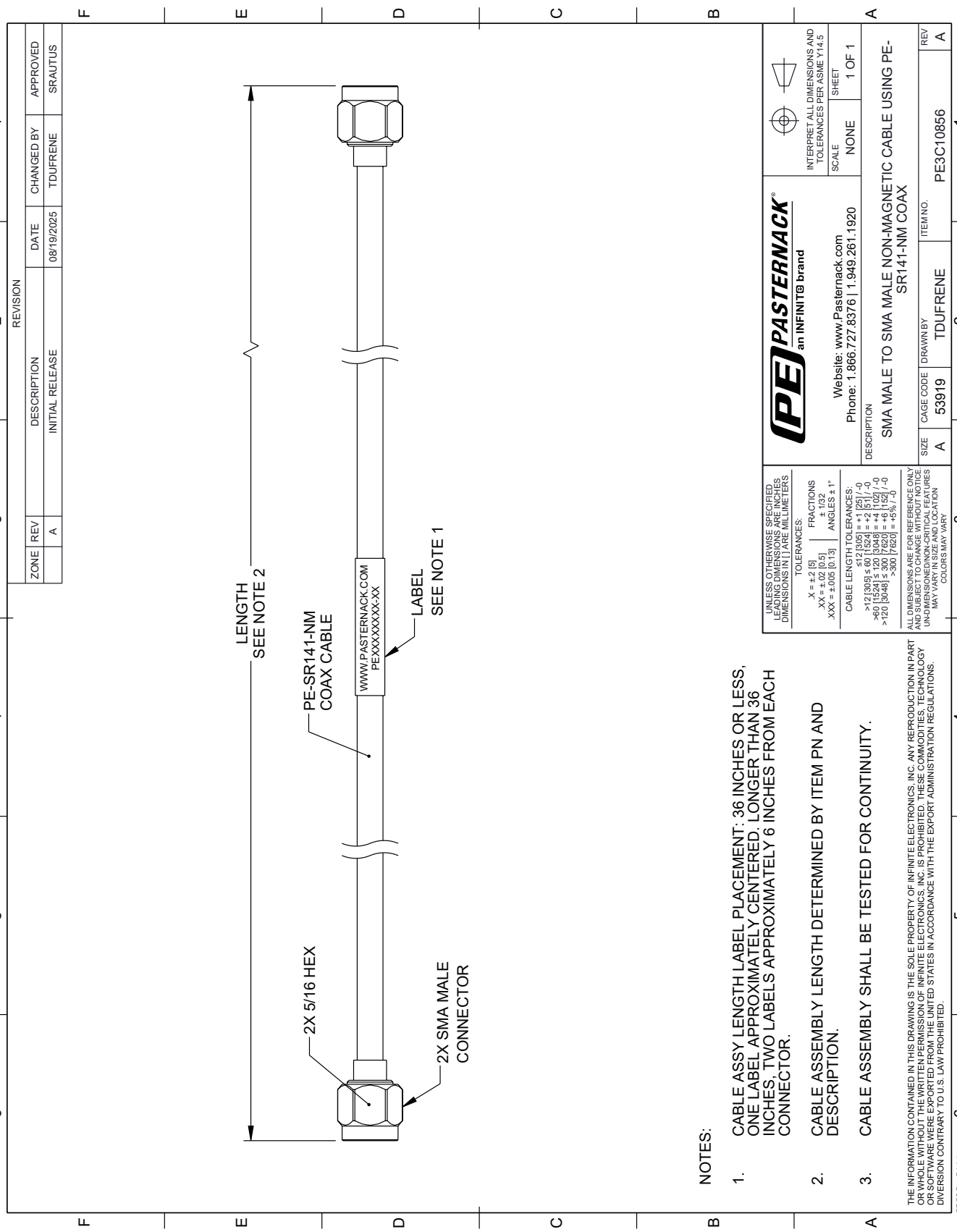
URL: https://www.pasternack.com/sma-male-to-sma-male-non-magnetic-cable-using-pe-sr141-nm-pe3c10856-p.aspx

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PE3C10856 CAD Drawing

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