SMA Male to SMP Female Non-Magnetic Cable Using PE-SR405-NM Coax

PE3C10858

Configuration

- Connector 1: SMA Male
- Connector 2: SMP Female
- Cable Type: PE-SR405-NM
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 165 dB
- 69.5% Phase Velocity

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10858 SMA male to SMP female cable using PE-SR405-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 SMP cable assembly has a male to female gender configuration with 50 ohm semi-rigid PE-SR405-NM coax. The PE3C10858 SMA male to SMP female 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	
PE3C10858	Custom Lengths Available	Insertion Loss (Typ.)	0.195	0.261	0.426	0.636	0.94	dB/ft	
			0.64	0.86	1.4	2.09	3.09	dB/m	
PE3C10858-6	6 inch	Insertion Loss (Typ.)	0.34	0.39	0.49	0.62	0.81	dB	0.019
PE3C10858-12	12 inch	Insertion Loss (Typ.)	0.44	0.52	0.7	0.94	1.28	dB	0.026
PE3C10858-18	18 inch	Insertion Loss (Typ.)	0.54	0.65	0.92	1.26	1.75	dB	0.034
PE3C10858-24	24 inch	Insertion Loss (Typ.)	0.63	0.78	1.13	1.58	2.22	dB	0.041
PE3C10858-36	36 inch	Insertion Loss (Typ.)	0.83	1.04	1.56	2.21	3.16	dB	0.055

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:	0.21	dB
Loss due to Connector 2:	0.03*SQRT(FGHz)	dB
Base Weight:	0.026	pounds
Additional Weight per Inch:	0.00117	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.026 lbs [11.79 g]

Cable

Cable Type	PE-SR405-NM
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Outer Conductor 1 Material and Plating	Copper
One Time Minimum Bend Radius	0.125 in [3.18 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMP Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45294	
Dielectric Type	PTFE	Gold Plated Beryllium Copper
Body Material and Plating	Brass, Gold	Beryllium Copper, Gold
Body Plating Specification	ASTM-B-16	
Coupling Nut Material and Plating	Brass, Gold	
Coupling Nut Plating Specification	ASTM-B-16	

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Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration: **PE3C10858 - xx uu**

- uu: Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx: Length
- PE3C10858: Base Number

Example: PE3C10858-12 = 12 inches long cable
PE3C10858-100cm = 100 cm long cable

SMA Male to SMP Female Non-Magnetic Cable Using PE-SR405-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 SMP Female Non-Magnetic Cable Using PE-SR405-NM Coax PE3C10858

URL: https://www.pasternack.com/sma-male-to-smp-female-non-magnetic-cable-using-pe-sr405-nm-pe3c10858-p.aspx

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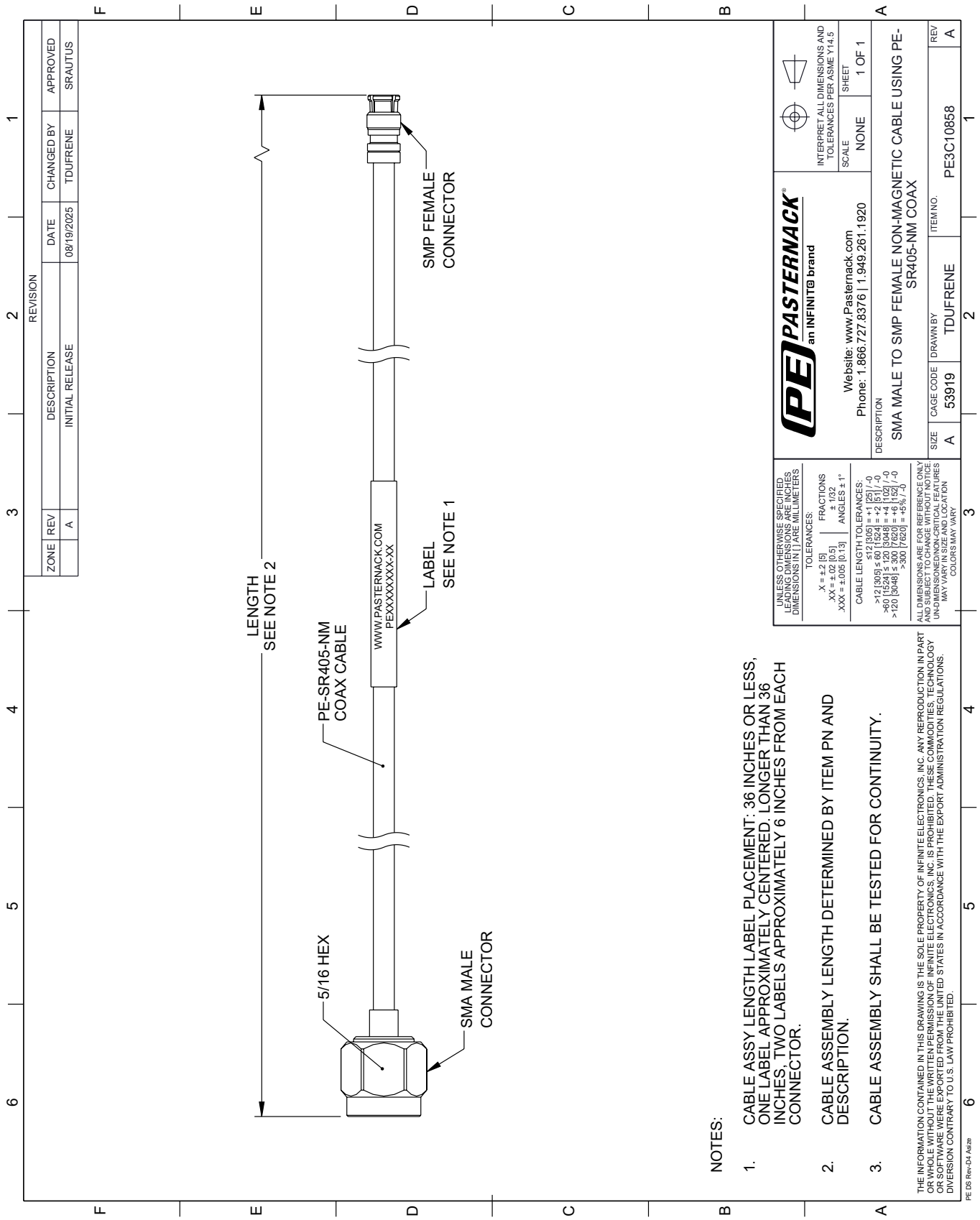
PE3C10858 CAD Drawing

SMA Male to SMP Female Non-Magnetic Cable Using PE-SR405-NM Coax



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