SMP Female Right Angle to SMP Female Right Angle Non-Magnetic Cable Using PE-SR047-NM Coax



PE3C10851

Configuration

- Connector 1: SMP Female Right Angle
- Connector 2: SMP Female Right Angle
- Cable Type: PE-SR047-NM
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 8 GHz
- Shielding Effectivity > 165 dB
- 69.5% Phase Velocity
- 500 Mating Cycles

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10851 SMP female right angle to SMP female right angle cable using PE-SR047-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 SMP to SMP cable assembly has a female to female gender configuration with 50 ohm semi-rigid PE-SR047-NM coax. The PE3C10851 SMP female to SMP female cable assembly operates to 8 GHz. The right angle SMP interfaces on the PE-SR047-NM cable allow for easier connections in tight spaces.

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		8	GHz
VSWR			1.7:1	
Velocity of Propagation		69.5		%
RF Shielding	165			dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2000	4000	8000	MHz	
PE3C10851	Custom Lengths Available	Insertion Loss (Typ.)	0.24	0.34	0.45	0.67	1	dB/ft	
			0.79	1.12	1.48	2.2	3.29	dB/m	
PE3C10851-6	6 in	Insertion Loss (Typ.)	0.52	0.57	0.63	0.74	0.9	dB	0.005
PE3C10851-9	9 in	Insertion Loss (Typ.)	0.58	0.66	0.74	0.91	1.15	dB	0.006
PE3C10851-12	12 in	Insertion Loss (Typ.)	0.64	0.74	0.85	1.07	1.4	dB	0.007
PE3C10851-18	18 in	Insertion Loss (Typ.)	0.76	0.91	1.08	1.41	1.9	dB	0.01
PE3C10851-24	24 in	Insertion Loss (Typ.)	0.88	1.08	1.3	1.74	2.4	dB	0.012

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:	0.2	dB
Loss due to Connector 2:	0.2	dB
Base Weight:	0.007	pounds
Additional Weight per Inch:	0.00034	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.007 lbs [3.18 g]

Cable

Cable Type	PE-SR047-NM
Impedance	50 Ohms
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Outer Conductor 1 Material and Plating	Copper
One Time Minimum Bend Radius	0.05 in [1.27 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMP Female Right Angle	SMP Female Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold over Copper	Beryllium Copper, Gold over Copper
Body Material and Plating	Bronze, Copper-Tin-Zinc Alloy over Silver	Bronze, Copper-Tin-Zinc Alloy over Silver

Environmental Specifications

Operating Range Temperature	-55 to +100 deg C

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PE3C10851

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration: **PE3C10851 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C10851 — Base Number

Example: PE3C10851-12 = 12 inches long cable
PE3C10851-100cm = 100 cm long cable

SMP Female Right Angle to SMP Female Right Angle Non-Magnetic Cable Using PE-SR047-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: SMP Female Right Angle to SMP Female Right Angle Non-Magnetic Cable Using PE-SR047-NM Coax PE3C10851

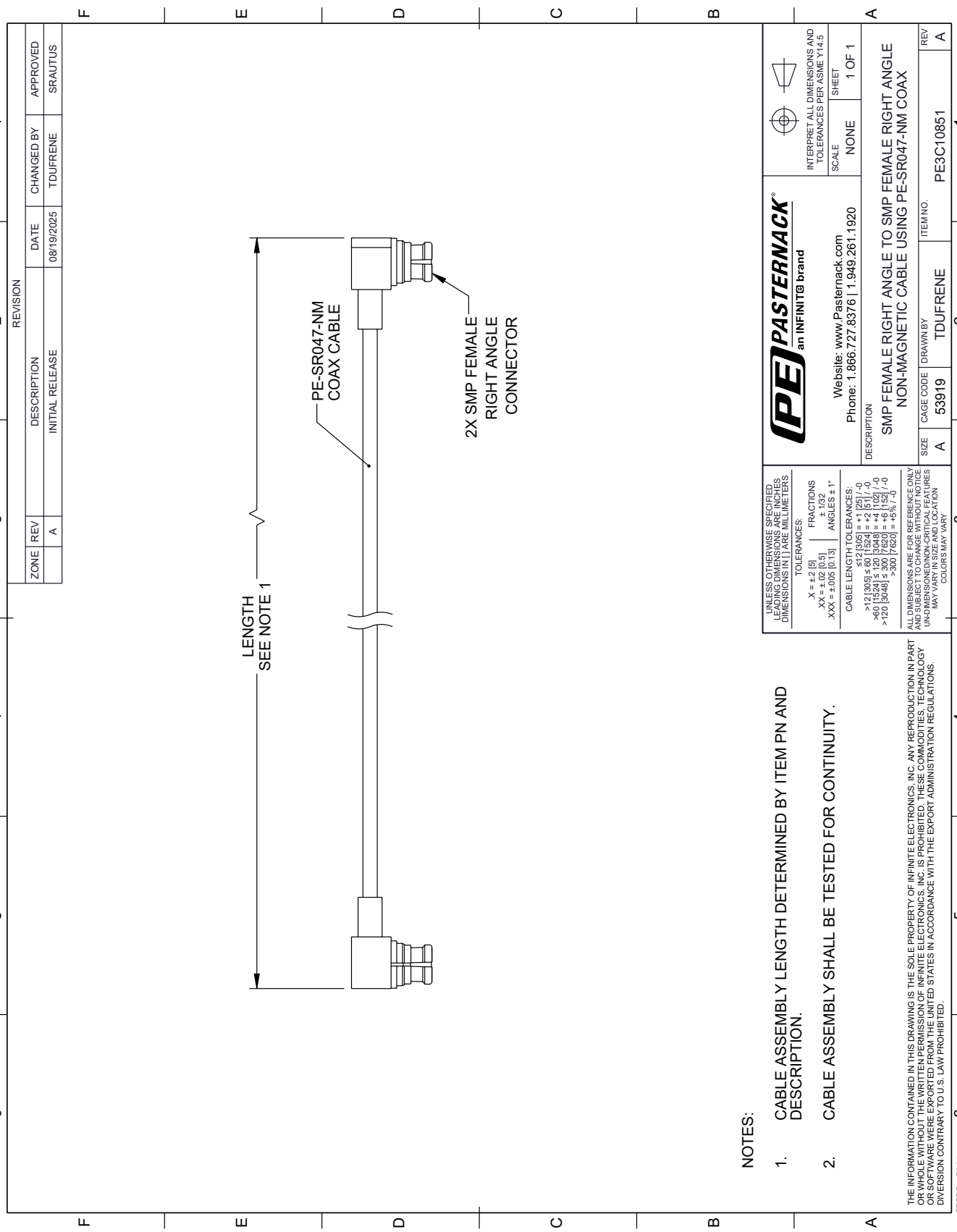
URL: https://www.pasternack.com/smp-female-right-angle-to-smp-female-non-magnetic-cable-using-pe-sr047-nm-pe3c10851-p.aspx

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PE3C10851 CAD Drawing

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