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



PE3C10854

Configuration

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

Features

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

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10854 SMP female right angle to SMP female 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 PE3C10854 SMP female to SMP female cable assembly operates to 8 GHz. The right angle SMP interface on the PE-SR047-NM cable allows 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

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	
PE3C10854	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	
PE3C10854-6	6 in	Insertion Loss (Typ.)	0.35	0.4	0.47	0.6	0.79	dB	0.104
PE3C10854-9	9 in	Insertion Loss (Typ.)	0.41	0.49	0.58	0.77	1.04	dB	0.105
PE3C10854-12	12 in	Insertion Loss (Typ.)	0.47	0.57	0.7	0.93	1.29	dB	0.106
PE3C10854-18	18 in	Insertion Loss (Typ.)	0.59	0.74	0.92	1.27	1.79	dB	0.109
PE3C10854-24	24 in	Insertion Loss (Typ.)	0.71	0.91	1.15	1.6	2.29	dB	0.111

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:	0.03*SQRT(FGHz)	dB
Base Weight:	0.106	pounds
Additional Weight per Inch:	0.00034	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.106 lbs [48.08 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
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Copper	Beryllium Copper, Gold
Dielectric Type		Gold Plated Beryllium Copper
Body Material and Plating	Bronze, Copper-Tin-Zinc Alloy over Silver	Beryllium Copper, Gold

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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:

PE3C10854 - xx uu

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C10854 — Base Number

Example: PE3C10854-12 = 12 inches long cable
PE3C10854-100cm = 100 cm long cable

SMP Female Right Angle to SMP Female 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 Non-Magnetic Cable Using PE-SR047-NM Coax PE3C10854

URL: https://www.pasternack.com/smp-female-right-angle-to-smp-female-non-magnetic-cable-using-pe-sr047-nm-pe3c10854-p.aspx

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PE3C10854 CAD Drawing

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

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