# 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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## PE3C10854

### 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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