

## SMA Male to SMA Male Right Angle Cable Using RG178 Coax

### PE3W18179

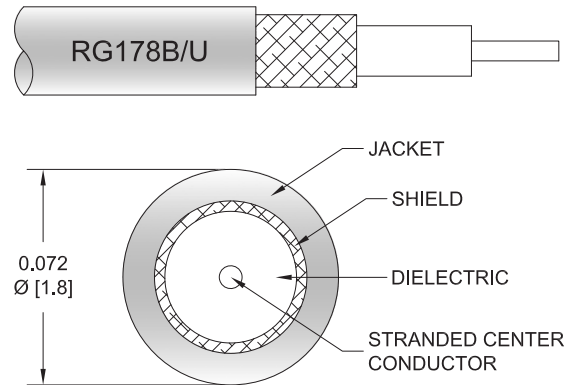


#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male Right Angle
- Cable Type: RG178
- Coax Flex Type: Flexible

#### Features

- Max Frequency 1 GHz
- 70% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W18179 SMA male to SMA male right angle cable using RG178 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG178 coax. The PE3W18179 SMA male to SMA male cable assembly operates to 1 GHz. The right angle SMA interface on the RG178 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      |              | 1       | GHz          |
| VSWR                    |         |              | 1.5:1   |              |
| Velocity of Propagation |         | 70           |         | %            |
| Capacitance             |         | 29.4 [96.46] |         | pF/ft [pF/m] |

#### Specifications by Frequency

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| Part Number  | Length                   | Description           | F1   | F2   | F3    | F4    | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|------|------|-------|-------|-------|--------------|
|              |                          | Frequency             | 100  | 250  | 500   | 1000  | MHz   |              |
| PE3W18179    | Custom Lengths Available | Insertion Loss (Typ.) | 0.14 | 0.21 | 0.306 | 0.447 | dB/ft |              |
|              |                          |                       | 0.46 | 0.69 | 1.01  | 1.47  | dB/m  |              |
| PE3W18179-6  | 6 inch                   | Insertion Loss (Typ.) | 0.37 | 0.41 | 0.46  | 0.53  | dB    | 0.033        |
| PE3W18179-9  | 9 inch                   | Insertion Loss (Typ.) | 0.41 | 0.46 | 0.53  | 0.64  | dB    | 0.034        |
| PE3W18179-12 | 12 inch                  | Insertion Loss (Typ.) | 0.44 | 0.51 | 0.61  | 0.75  | dB    | 0.035        |
| PE3W18179-24 | 24 inch                  | Insertion Loss (Typ.) | 0.58 | 0.72 | 0.92  | 1.2   | dB    | 0.041        |
| PE3W18179-36 | 36 inch                  | Insertion Loss (Typ.) | 0.72 | 0.93 | 1.22  | 1.65  | dB    | 0.046        |

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:    | 0.1 dB         |
| Loss due to Connector 2:    | 0.2 dB         |
| Base Weight:                | 0.035 pounds   |
| Additional Weight per Inch: | 0.00042 pounds |

### Mechanical Specifications

#### Cable Assembly

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.035 lbs [15.88 g] |

#### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG178                      |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver  |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 1                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP, Tan                   |
| Jacket Diameter                      | 0.072 in [1.83 mm]         |
| Repeated Minimum Bend Radius         | 0.4 in [10.16 mm]          |

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### Connectors

| Description                        | Connector 1      | Connector 2                |
|------------------------------------|------------------|----------------------------|
| Type                               | SMA Male         | SMA Male Right Angle       |
| Impedance                          | 50 Ohms          | 50 Ohms                    |
| Configuration                      | Straight         | Right Angle                |
| Contact Material and Plating       | Brass, Gold      | Gold                       |
| Contact Plating Specification      | 50 µin minimum   |                            |
| Dielectric Type                    | PTFE             | PTFE                       |
| Body Material and Plating          | Brass, Nickel    | Passivated Stainless Steel |
| Body Plating Specification         | 100 µin minimum  |                            |
| Coupling Nut Material and Plating  | Brass, Nickel    | Passivated Stainless Steel |
| Coupling Nut Plating Specification | 100 µin minimum  |                            |
| Hex Size                           | 5/16 inch        | 5/16 in.                   |
| Torque                             | 3 in-lbs 0.34 Nm | 8 in-lbs 0.9 Nm            |

### Environmental Specifications

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

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### PE3W18179

#### Typical Performance Data

#### How to Order

Part Number Configuration: **PE3W18179**    **- xx**    **uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example:    PE3W18179-12 = 12 inches long cable  
              PE3W18179-100cm = 100 cm long cable

SMA Male to SMA Male Right Angle Cable Using RG178 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 Right Angle Cable Using RG178 Coax PE3W18179](#)

URL: <https://www.pasternack.com/sma-male-to-sma-male-cable-using-rg178-pe3w18179-p.aspx>

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