

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



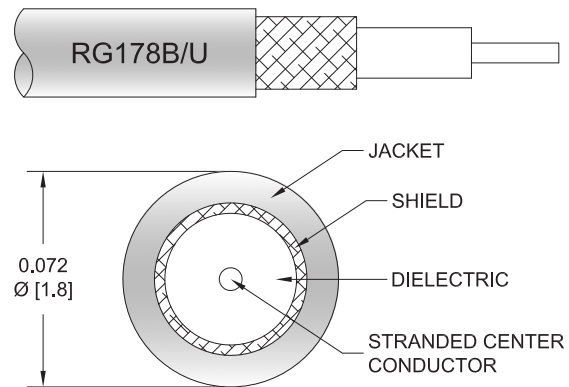
### PE3W18179

#### 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	
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:

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



### 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.

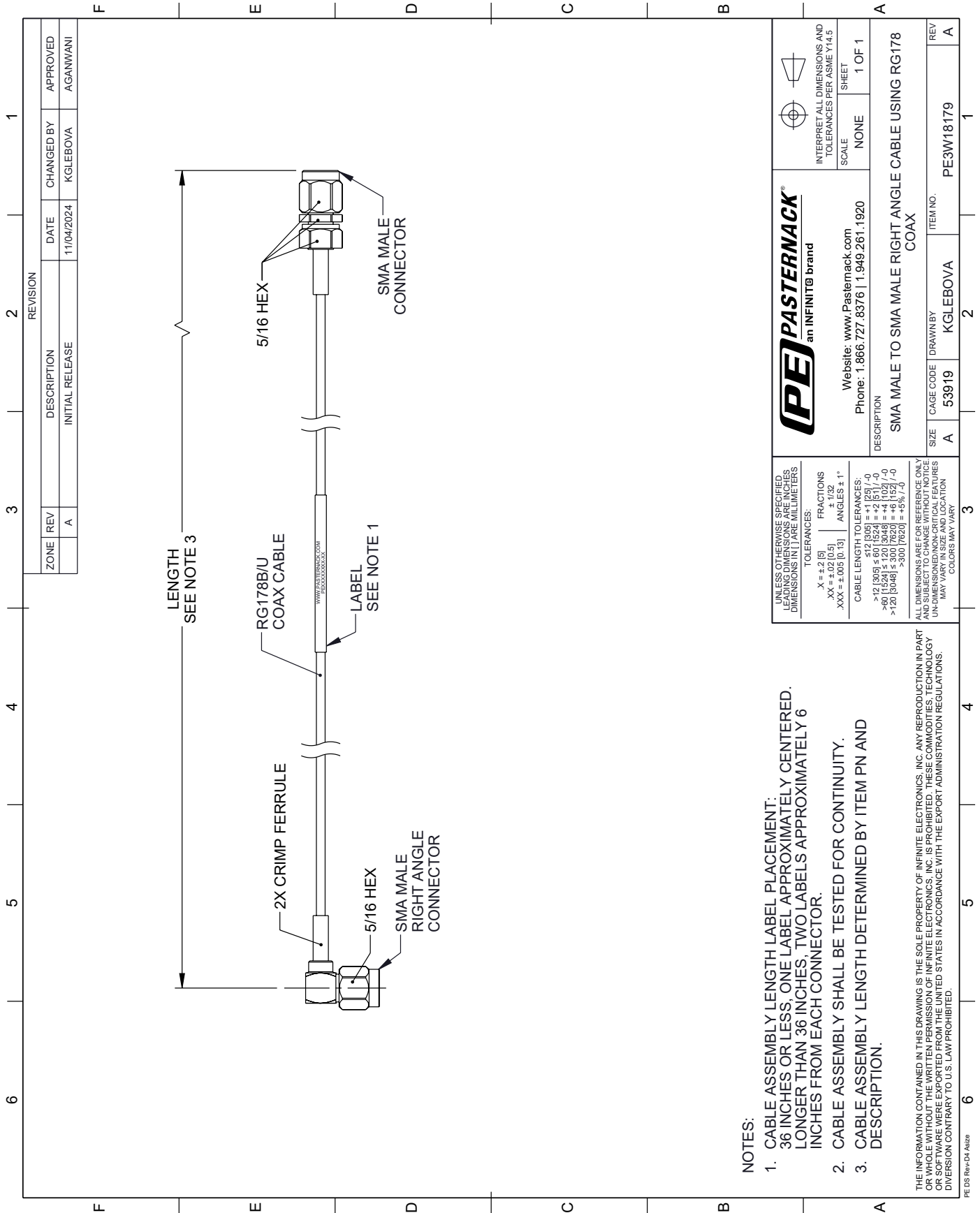
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Male Right Angle Cable Using RG178 Coax PE3W18179](#)

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

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# PE3W18179 CAD Drawing

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**NOTES:**

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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<p>DESCRIPTION: SMA MALE TO SMA MALE RIGHT ANGLE CABLE USING RG178 COAX</p>				
<p>REV: A</p>	<p>DATE: 11/04/2024</p>	<p>CHANGED BY: KGLEBOVA</p>	<p>APPROVED: AGANWANI</p>	
<p>ZONE: A</p>	<p>DESCRIPTION: INITIAL RELEASE</p>	<p>REVISION: 1</p>	<p>ITEM NO.: PE3W18179</p>	
<p>SIZE: A</p>	<p>CAGE CODE: 53919</p>	<p>DRAWN BY: KGLEBOVA</p>	<p>REV: A</p>	