

SMA Male Right Angle to SMP Female Right Angle Cable 12 Inch Length Using RG178 Coax

PE3C1306-12

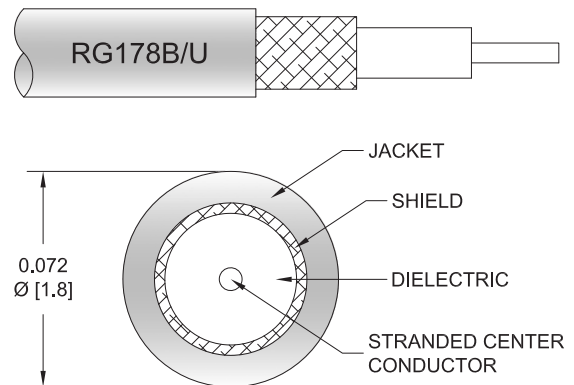


Configuration

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

Features

- Max Frequency 3 GHz
- 69.5% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C1306-12 SMA male right angle to SMP female right angle 12 inch 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 SMP cable assembly has a male to female gender configuration with 50 ohm flexible RG178 coax. The PE3C1306-12 SMA male to SMP female cable assembly operates to 3 GHz. The right angle SMA and right angle SMP interfaces on the RG178 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		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	3000	MHz	
PE3C1306	Custom Lengths Available	Insertion Loss (Typ.)	0.14	0.21	0.305	0.444	0.784	dB/ft	
			0.46	0.69	1.01	1.46	2.58	dB/m	
PE3C1306-6	6 inch	Insertion Loss (Typ.)	0.47	0.51	0.56	0.63	0.8	dB	0.025
PE3C1306-9	9 inch	Insertion Loss (Typ.)	0.51	0.56	0.63	0.74	0.99	dB	0.026
PE3C1306-12	12 inch	Insertion Loss (Typ.)	0.54	0.61	0.71	0.85	1.19	dB	0.027
PE3C1306-24	24 inch	Insertion Loss (Typ.)	0.68	0.82	1.01	1.29	1.97	dB	0.033
PE3C1306-36	36 inch	Insertion Loss (Typ.)	0.82	1.03	1.32	1.74	2.76	dB	0.038

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: 0.027 pounds
 Additional Weight per Inch: 0.00042 pounds

Mechanical Specifications

Cable Assembly

Length 12 in [304.8 mm]
 Width/Diameter 0.5 in [12.7 mm]
 Weight 0.027 lbs [12.25 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 0.393 in [9.98 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	SMP Female Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	MIL-DTL-45204
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Gold
Outer Conductor Plating Specification		MIL-DTL-45204
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	100 µin minimum	MIL-DTL-45204
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 in	
Torque	5 in-lbs 0.57 Nm	

Environmental Specifications

Operating Range Temperature -55 to +155 deg C

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.

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PE3C1306-12

Typical Performance Data

How to Order

Part Number Configuration:

PE3C1306

- xx

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C1306-12 = 12 inches long cable
PE3C1306-100cm = 100 cm long cable

SMA Male Right Angle to SMP Female Right Angle Cable 12 Inch Length 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.

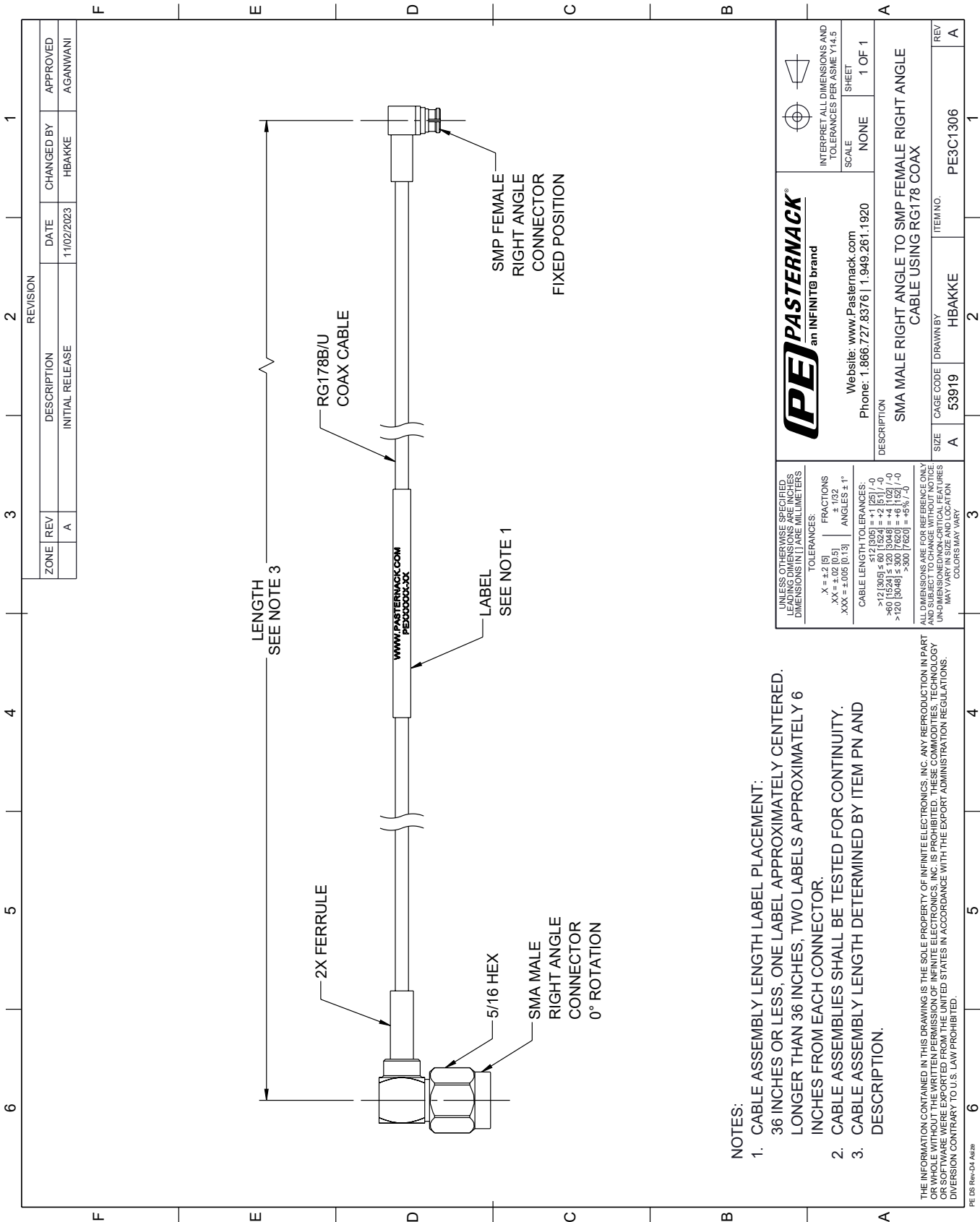
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to SMP Female Right Angle Cable 12 Inch Length Using RG178 Coax PE3C1306-12](https://www.pasternack.com/sma-male-right-angle-to-smp-female-right-angle-cable-12-inch-length-using-rg178-pe3c1306-12-p.aspx)

URL: <https://www.pasternack.com/sma-male-right-angle-to-smp-female-cable-12-inch-length-using-rg178-pe3c1306-12-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C1306-12 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 ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.		PE PASTERNAK an INFINITE® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: www.Pasternack.com		SCALE	
.X = ±.2 [5]		Phone: 1.866.727.8376 1.949.261.1920		NONE	
.XX = ±.02 [0.5]				SHEET	
.XXX = ±.005 [0.13]				1 OF 1	
ANGLES ± 1°					
CABLE LENGTH TOLERANCES:		DESCRIPTION			
>12 [305] ≤ 60 [1524] = ±.125 [-0]		SMA MALE RIGHT ANGLE TO SMP FEMALE RIGHT ANGLE			
>60 [1524] ≤ 120 [3048] = ±.102 [-0]		CABLE USING RG178 COAX			
>120 [3048] ≤ 300 [7620] = ±.063 [-0]					
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE NON-CRITICAL FEATURES. MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		SIZE		REV	
		A		A	
		CAGE CODE		ITEM NO.	
		53919		PE3C1306	
		DRAWN BY			
		HBAKKE			