



SMA Male to SMP Female Right Angle Cable Using PE-P047 Coax

TECHNICAL DATA SHEET

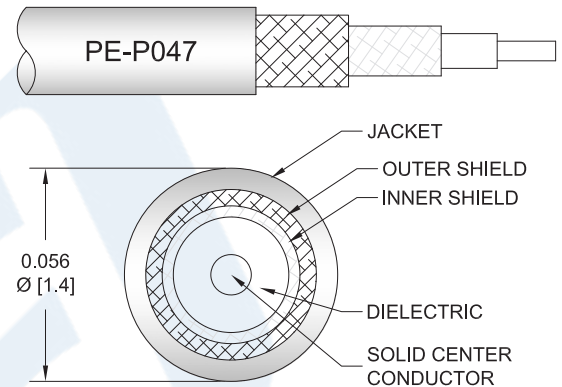
PE3C7808

Configuration

- Connector 1: SMA Male
- Connector 2: SMP Female Right Angle
- Cable Type: PE-P047
- Coax Flex Type: Flexible

Features

- Max Frequency 10 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C7808 SMA male to SMP female right angle cable using PE-P047 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 PE-P047 coax. The PE3C7808 SMA male to SMP female cable assembly operates to 10 GHz. The right angle SMP interface on the PE-P047 cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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.

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 SMP Female Right Angle Cable Using PE-P047 Coax PE3C7808](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		29 [95.14]		pF/ft [pF/m]

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	500	1000	2500	5000	10000	
PE3C7808	Custom Lengths Available	Insertion Loss (Typ.)	0.17	0.34	0.539	0.787	1.17	dB/ft	
			0.56	1.12	1.77	2.59	3.84	dB/m	
PE3C7808-6	6 inch	Insertion Loss (Typ.)	0.32	0.41	0.54	0.69	0.92	dB	0.011
PE3C7808-12	12 inch	Insertion Loss (Typ.)	0.4	0.58	0.81	1.08	1.5	dB	0.012
PE3C7808-24	24 inch	Insertion Loss (Typ.)	0.57	0.92	1.35	1.87	2.67	dB	0.015
PE3C7808-36	36 inch	Insertion Loss (Typ.)	0.74	1.26	1.89	2.66	3.84	dB	0.018
PE3C7808-48	48 inch	Insertion Loss (Typ.)	0.91	1.6	2.42	3.44	5.01	dB	0.021

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:	0.04*SQRT(FGHz) dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.012 pounds
Additional Weight per Inch:	0.00025 pounds

Mechanical Specifications

Cable Assembly

Weight 0.012 lbs [5.44 g]

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Cable

Cable Type	PE-P047
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	FEP
Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Blue
Jacket Diameter	0.056 in [1.42 mm]
One Time Minimum Bend Radius	0.2 in [5.08 mm]
Repeated Minimum Bend Radius	0.4 in [10.16 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male Threaded	SMP Female Right Angle Push-On
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold over Nickel	Beryllium Copper, Gold
Body Plating Specification	50 µin minimum	MIL-G-45204
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	50 µin minimum	
Hex Size	5/16 inch	
Torque	7 in-lbs [0.79 Nm]	

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

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SMA Male to SMP Female Right Angle
Cable Using PE-P047 Coax

TECHNICAL DATA SHEET

PE3C7808

How to Order

Part Number Configuration:

PE3C7808

- **xx**

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

Example: PE3C7808-12 = 12 inches long cable
PE3C7808-100cm = 100 cm long cable

SMA Male to SMP Female Right Angle Cable Using PE-P047 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 SMP Female Right Angle Cable Using PE-P047 Coax PE3C7808](#)

URL: <https://www.pasternack.com/sma-male-to-smp-female-cable-using-pe-p047-pe3c7808-p.aspx>

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3C7808 CAD Drawing

SMA Male to SMP Female Right Angle Cable Using PE-P047 Coax

F E D C B A

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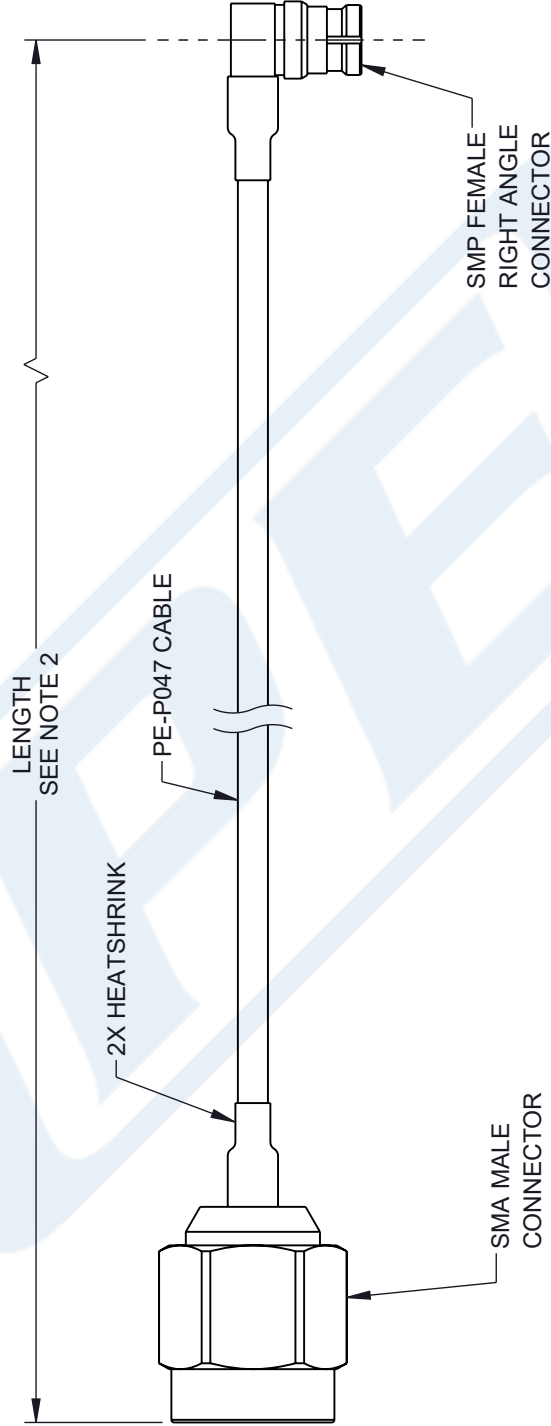
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REVISION		CHANGED BY	APPROVED BY
ZONE	REV.	DESCRIPTION	DATE
	A	INITIAL RELEASE	11/16/2023
			BPUCHASKI
			AGANWANI



NOTES:

1. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION

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UNLESS OTHERWISE SPECIFIED, LEAD DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.	TOLERANCES:
.X = ±.2 [5]	FRACTIONS
.XX = ±.02 [0.5]	±.1/32
.XXX = ±.005 [0.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
>12 [305] ≤ 517 [1304] = ±.125 / -0	
517 [1304] ≤ 1181 [3000] = ±.25 / -0	
>60 [1524] ≤ 120 [3048] = ±.102 / -0	
>120 [3048] ≤ 300 [7620] = ±.152 / -0	
>300 [7620] = ±.5% / -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.	

	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
	SHEET 1 OF 1
Website: www.Pasternack.com	SCALE NONE
Phone: 1.866.727.8376 1.949.261.1920	
DESCRIPTION	
SMA MALE TO SMP FEMALE RIGHT ANGLE CABLE USING PE-P047 COAX	
SIZE A	REV A
CAGE CODE 53919	ITEM NO. PE3C7808
DRAWN BY BPUCHASKI	

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