



SMP Female Right Angle to SMA Male Right Angle Cable Using PE-P086 Coax

TECHNICAL DATA SHEET

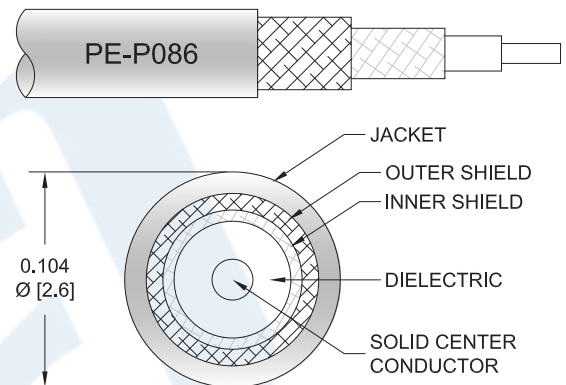
PE3C4515

Configuration

- Connector 1: SMP Female Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: PE-P086
- Coax Flex Type: Flexible

Features

- Max Frequency 10 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C4515 SMP female right angle to SMA male right angle cable using PE-P086 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 SMP to SMA cable assembly has a female to male gender configuration with 50 ohm flexible PE-P086 coax. The PE3C4515 SMP female to SMA male cable assembly operates to 10 GHz. The right angle SMP and right angle SMA interfaces on the PE-P086 cable allow for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 110 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: [SMP Female Right Angle to SMA Male Right Angle Cable Using PE-P086 Coax PE3C4515](#)



SMP Female Right Angle to SMA Male
Right Angle Cable Using PE-P086 Coax

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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	110			dB
Capacitance		29.4 [96.46]		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	
PE3C4515	Custom Lengths Available	Insertion Loss (Typ.)	0.11	0.21	0.338	0.503	0.743	dB/ft	
			0.35	0.7	1.11	1.66	2.44	dB/m	
PE3C4515-6	6 inch	Insertion Loss (Typ.)	0.46	0.51	0.57	0.66	0.78	dB	0.046
PE3C4515-12	12 inch	Insertion Loss (Typ.)	0.51	0.62	0.74	0.91	1.15	dB	0.052
PE3C4515-24	24 inch	Insertion Loss (Typ.)	0.62	0.83	1.08	1.41	1.89	dB	0.066
PE3C4515-36	36 inch	Insertion Loss (Typ.)	0.72	1.04	1.42	1.91	2.63	dB	0.079
PE3C4515-48	48 inch	Insertion Loss (Typ.)	0.83	1.25	1.76	2.42	3.38	dB	0.092

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:	0.052 pounds
Additional Weight per Inch:	0.00109 pounds

Mechanical Specifications

Cable Assembly

Weight 0.052 lbs [23.59 g]

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 SMA Male Right Angle Cable Using PE-P086 Coax PE3C4515](#)



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Cable

Cable Type	PE-P086
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Blue
Jacket Diameter	0.104 in [2.64 mm]
Repeated Minimum Bend Radius	0.5 in [12.7 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMP Female Right Angle Push-On	SMA Male Right Angle Threaded
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold over Nickel
Contact Plating Specification	MIL-G-45204	8 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Brass, Gold over Nickel
Body Plating Specification	MIL-G-45204	4 µin minimum
Coupling Nut Material and Plating		Passivated Stainless Steel
Hex Size		5/16 inch
Torque		8 in-lbs [0.9 Nm]

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

Plotted and Other Data

Notes:

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 SMA Male Right Angle Cable Using PE-P086 Coax PE3C4515](#)



SMP Female Right Angle to SMA Male
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TECHNICAL DATA SHEET

PE3C4515

How to Order

Part Number Configuration:

PE3C4515

- **xx**

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

Example: PE3C4515-12 = 12 inches long cable
PE3C4515-100cm = 100 cm long cable

SMP Female Right Angle to SMA Male Right Angle Cable Using PE-P086 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 SMA Male Right Angle Cable Using PE-P086 Coax PE3C4515](#)

URL: <https://www.pasternack.com/smp-female-right-angle-to-sma-male-cable-using-pe-p086-pe3c4515-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.

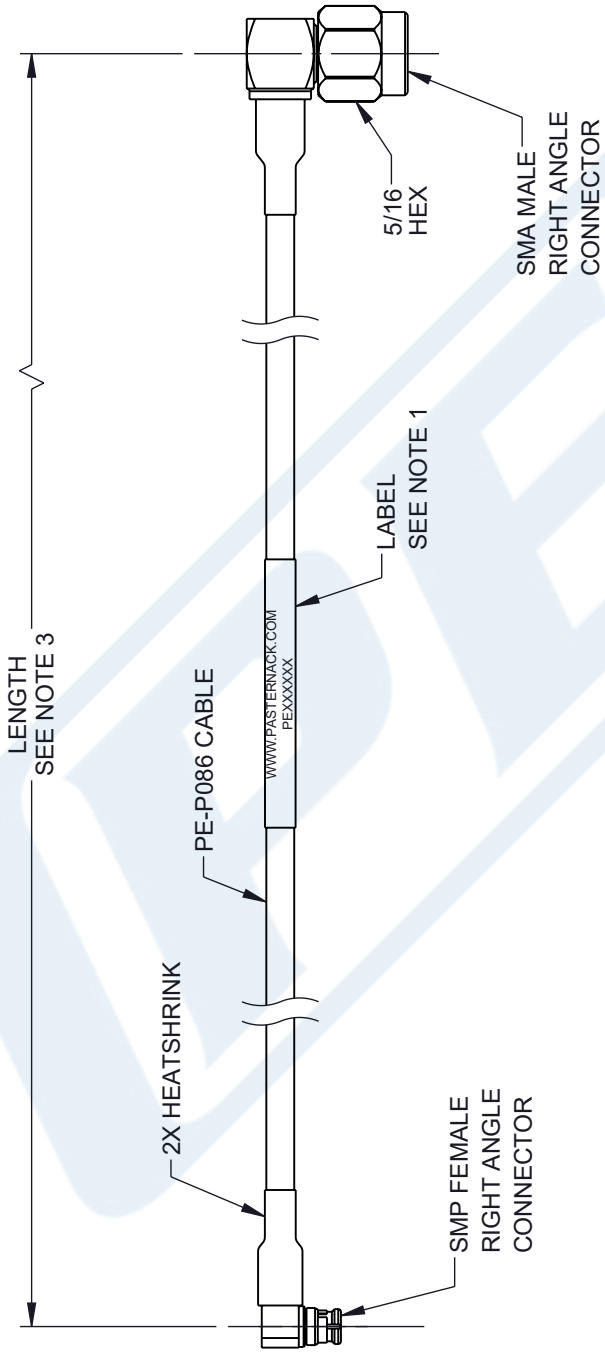
PE3C4515 CAD Drawing

SMP Female Right Angle to SMA Male Right Angle Cable Using PE-P086 Coax

F E D C B A

1 2 3 4 5 6

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



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

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	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE NONE SHEET 1 OF 1
	Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920
DESCRIPTION SMP FEMALE RIGHT ANGLE TO SMA MALE RIGHT ANGLE CABLE USING PE-P086 COAX	
CAGE CODE 53919 SIZE A	DRAWN BY BPUCHASKI ITEM NO. PE3C4515

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

FRACTIONS
 ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 ≤ 12 [305] = ±.02 [-0]
 ≤ 60 [1524] = ±.03 [-0]
 ≤ 120 [3048] = ±.04 [-0]
 ≤ 300 [7620] = ±.06 [-0]
 > 300 [7620] = ±.09 [-0]

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ON CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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