



SMA Male to SMA Male Right Angle Cable Using PE-P195 Coax

TECHNICAL DATA SHEET

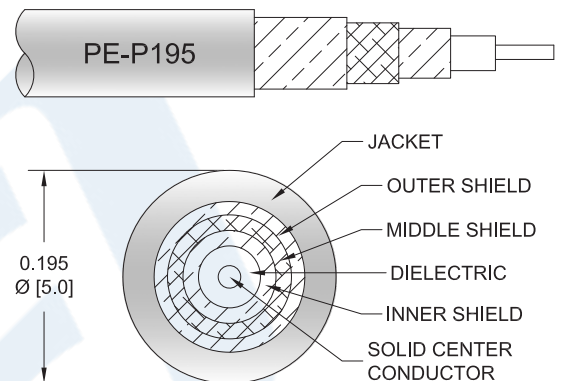
PE3976

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male Right Angle
- Cable Type: PE-P195
- Coax Flex Type: Flexible

Features

- Max Frequency 12.4 GHz
- Triple Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3976 SMA male to SMA male right angle cable using PE-P195 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 PE-P195 coax. The PE3976 SMA male to SMA male cable assembly operates to 12.4 GHz. The right angle SMA interface on the PE-P195 cable allows for easier connections in tight spaces. The triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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 SMA Male Right Angle Cable Using PE-P195 Coax PE3976](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			1.4:1	
Capacitance		29 [95.14]		pF/ft [pF/m]
Jacket Spark			2,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3976	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.13	0.196	0.315	0.512	dB/ft	
			0.29	0.42	0.65	1.04	1.68	dB/m	
PE3976-12	12 inch	Insertion Loss (Typ.)	0.39	0.43	0.5	0.62	0.82	dB	0.066
PE3976-24	24 inch	Insertion Loss (Typ.)	0.48	0.55	0.7	0.93	1.33	dB	0.105
PE3976-36	36 inch	Insertion Loss (Typ.)	0.57	0.68	0.89	1.25	1.84	dB	0.143
PE3976-60	60 inch	Insertion Loss (Typ.)	0.74	0.93	1.28	1.88	2.86	dB	0.219
PE3976-72	72 inch	Insertion Loss (Typ.)	0.83	1.05	1.48	2.19	3.38	dB	0.257

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:	0.066 pounds
Additional Weight per Inch:	0.00317 pounds

Mechanical Specifications

Cable Assembly

Weight 0.066 lbs [29.94 g]

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Cable

Cable Type	PE-P195
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	3
Shield Layer 1	Silver Plated Copper
Shield Layer 2	Aluminum Tape
Shield Layer 3	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.195 in [4.95 mm]

Connectors

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

Environmental Specifications

Temperature

Operating Range -55 to +165 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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TECHNICAL DATA SHEET

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How to Order

Part Number Configuration:

PE3976

- **xx**

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

Example: PE3976-12 = 12 inches long cable
PE3976-100cm = 100 cm long cable

SMA Male to SMA Male Right Angle Cable Using PE-P195 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 PE-P195 Coax PE3976](#)

URL: <https://www.pasternack.com/sma-male-to-sma-male-cable-using-pe-p195-pe3976-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.

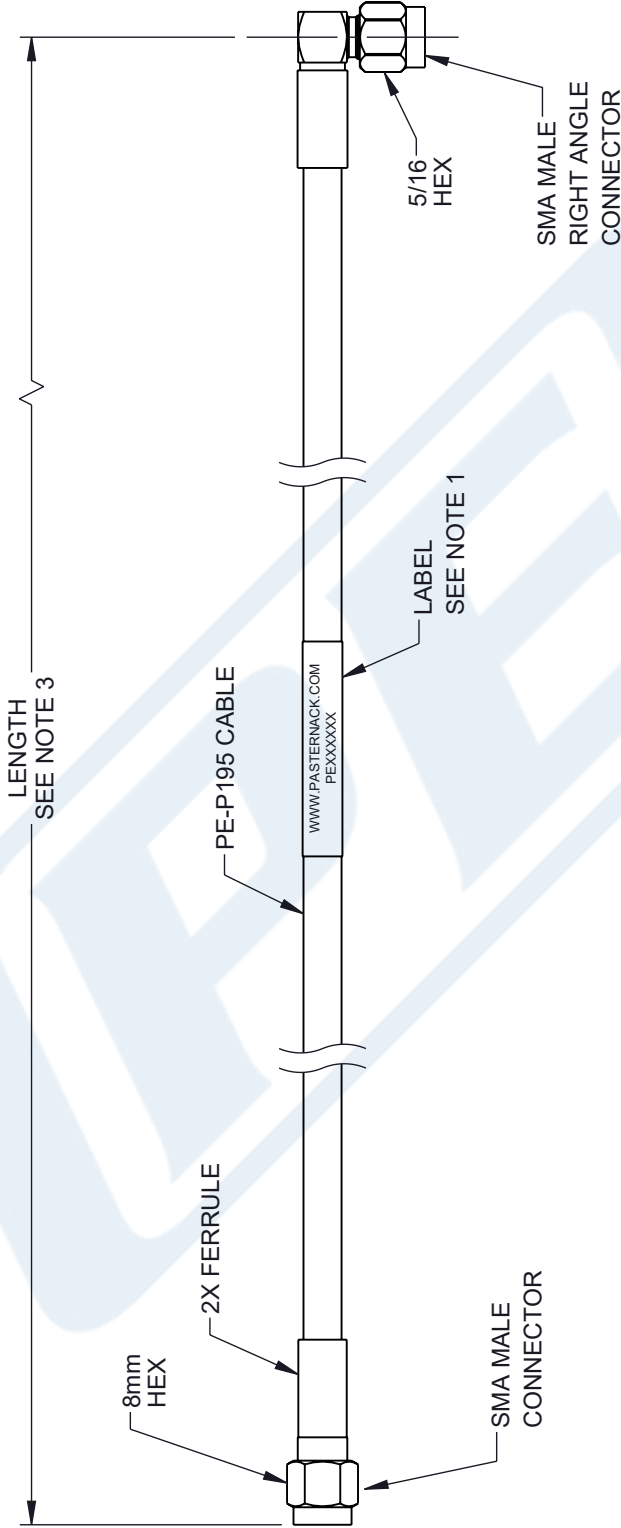
PE3976 CAD Drawing

SMA Male to SMA Male Right Angle Cable Using PE-P195 Coax

F E D C B A

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



NOTES:

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

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.				INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE NONE SHEET 1 OF 1	
TOLERANCES: .X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]		FRACTIONS ± 1/32 ANGLES ± 1°		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	
CABLE LENGTH TOLERANCES: >12 [305] ≤ 6 [152] = ±.03 / -0 >60 [1524] ≤ 120 [3048] = ±.04 [1.02] / -0 >120 [3048] ≤ 300 [7620] = ±.06 [1.52] / -0 >300 [7620] = +5% / -0		ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		DESCRIPTION SMA MALE TO SMA MALE RIGHT ANGLE LOW LOSS CABLE USING PE-P195 COAX	

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	DDICKENS	PE3976	A