



SMA Male to SMA Male Cable Using PE-P195 Coax

TECHNICAL DATA SHEET

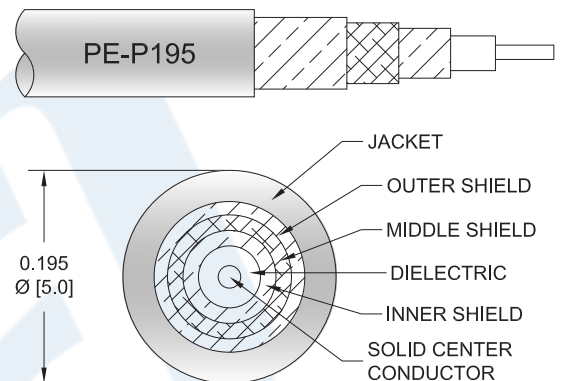
PE3C1576

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- 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 PE3C1576 SMA male to SMA male 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 PE3C1576 SMA male to SMA male cable assembly operates to 12.4 GHz. 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 Cable Using PE-P195 Coax PE3C1576](#)



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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	1000	2000	4000	8000	#####	MHz	
PE3C1576	Custom Lengths Available	Insertion Loss (Typ.)	0.12	0.17	0.26	0.39	0.51	dB/ft	
			0.4	0.56	0.86	1.28	1.68	dB/m	
PE3C1576-12	12 inch	Insertion Loss (Typ.)	0.32	0.37	0.46	0.59	0.71	dB	0.07
PE3C1576-24	24 inch	Insertion Loss (Typ.)	0.44	0.54	0.72	0.98	1.22	dB	0.109
PE3C1576-36	36 inch	Insertion Loss (Typ.)	0.56	0.71	0.98	1.37	1.73	dB	0.147
PE3C1576-60	60 inch	Insertion Loss (Typ.)	0.8	1.05	1.5	2.15	2.75	dB	0.223
PE3C1576-72	72 inch	Insertion Loss (Typ.)	0.92	1.22	1.76	2.54	3.26	dB	0.261

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:	0.1 dB
Base Weight:	0.07 pounds
Additional Weight per Inch:	0.00317 pounds

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.07 lbs [31.75 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 Threaded
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50µ in. minimum	50µ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100µ in. minimum	100µ in. minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100µ in. minimum	100µ in. minimum
Hex Size	5/16 in	5/16 in
Torque	5 in-lbs [0.57 Nm]	5 in-lbs [0.57 Nm]

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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How to Order

Part Number Configuration:

PE3C1576

- **xx**

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

Example: PE3C1576-12 = 12 inches long cable
PE3C1576-100cm = 100 cm long cable

SMA Male to SMA Male 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.

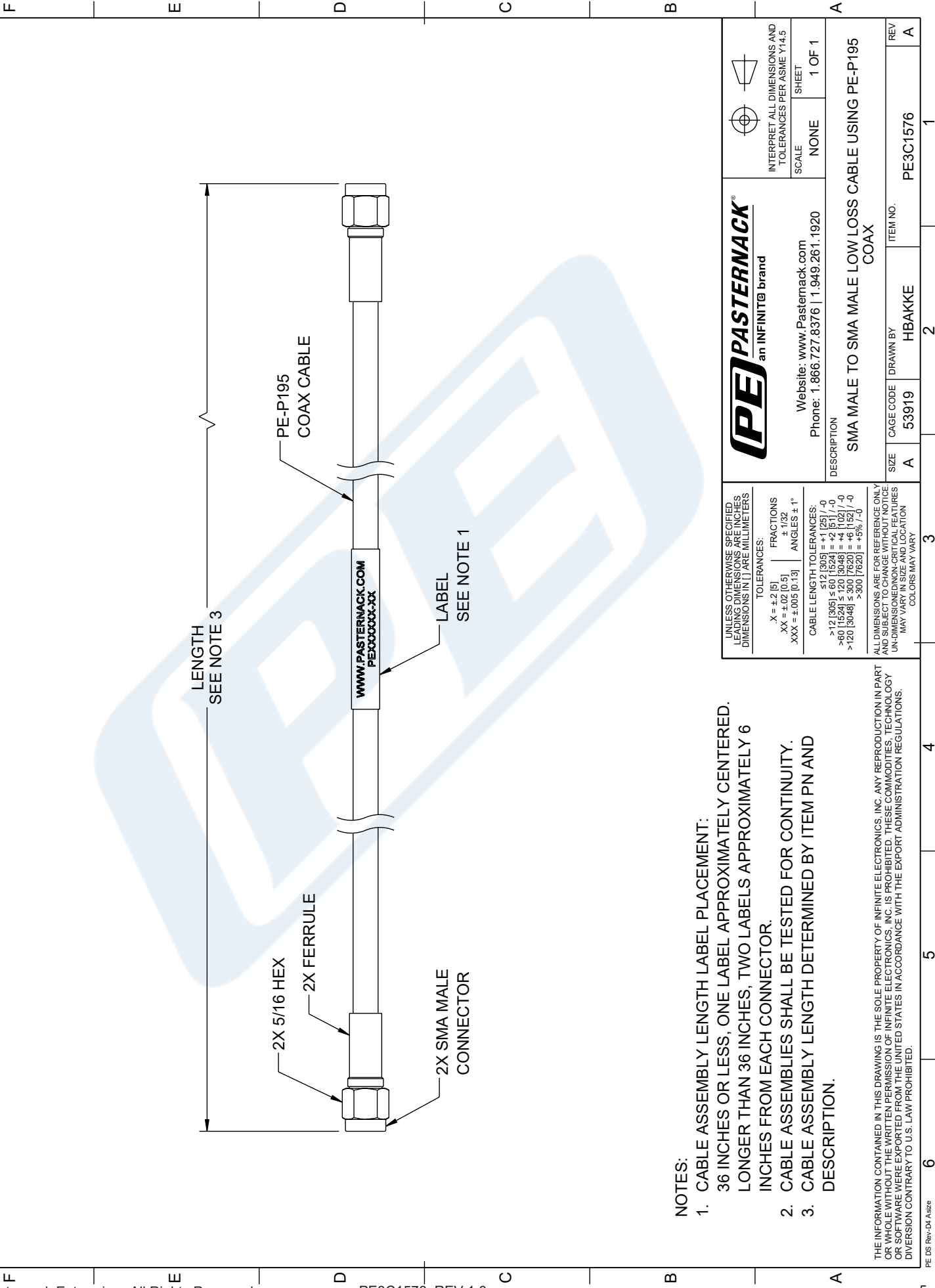
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PE3C1576 CAD Drawing

SMA Male to SMA Male Cable Using PE-P195 Coax



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

DESCRIPTION
SMA MALE TO SMA MALE LOW LOSS CABLE USING PE-P195 COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	HBAKKE	PE3C1576	A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:	FRACTIONS	ANGLES
X = ±.2 [5]	XX = ±.02 [0.5]	± 1/32
XXX = ±.005 [0.13]		ANGLES ± 1°

CABLE LENGTH TOLERANCES:

>12 [305] ≤ 30 [762]	±.125 [3.18]
>30 [762] ≤ 60 [1524]	±.25 [6.35]
>60 [1524] ≤ 120 [3048]	±.5 [12.7]
>120 [3048] ≤ 300 [7620]	±1.0 [25.4]
>300 [7620]	±2.0 [50.8]

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN [] ARE MILLIMETERS. UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN [] ARE MILLIMETERS. UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN [] ARE MILLIMETERS. UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN [] ARE MILLIMETERS.