



SMA Male to SMA Male Cable Using PE-P195 Coax with HeatShrink

TECHNICAL DATA SHEET

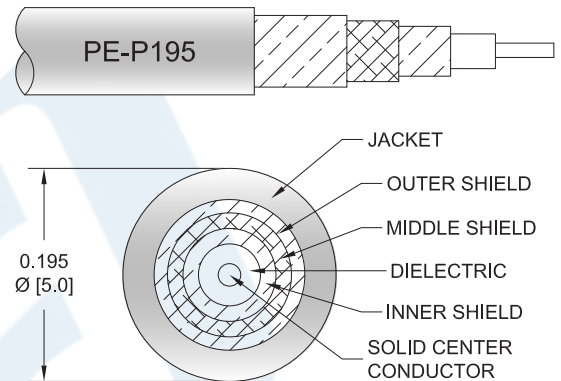
PE3C1576/HS

Configuration

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

Features

- Max Frequency 12.4 GHz
- 70% Phase Velocity
- Triple Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C1576/HS 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/HS 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 with HeatShrink PE3C1576/HS](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29 [95.14]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	12400	MHz	
PE3C1576/HS	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	
PE3C1576/HS-12	12 inch	Insertion Loss (Typ.)	0.29	0.33	0.4	0.52	0.72	dB	0.07
PE3C1576/HS-24	24 inch	Insertion Loss (Typ.)	0.38	0.45	0.6	0.83	1.23	dB	0.109
PE3C1576/HS-36	36 inch	Insertion Loss (Typ.)	0.47	0.58	0.79	1.15	1.74	dB	0.147
PE3C1576/HS-60	60 inch	Insertion Loss (Typ.)	0.64	0.83	1.18	1.78	2.76	dB	0.223
PE3C1576/HS-72	72 inch	Insertion Loss (Typ.)	0.73	0.95	1.38	2.09	3.28	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

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 Braid
Shield Layer 2	Aluminum Tape
Shield Layer 3	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.195 in [4.95 mm]

Repeated Minimum Bend Radius 1 in [25.4 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	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum
Hex Size	5/16 inch	5/16 inch
Torque	3 in-lbs [0.34 Nm]	3 in-lbs [0.34 Nm]

Environmental Specifications

Temperature

Operating Range -55 to +165 deg C

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

Plotted and Other Data

Notes:

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PE3C1576/HS

How to Order

Part Number Configuration:

PE3C1576/HS

- **xx**

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

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

SMA Male to SMA Male Cable Using PE-P195 Coax with HeatShrink 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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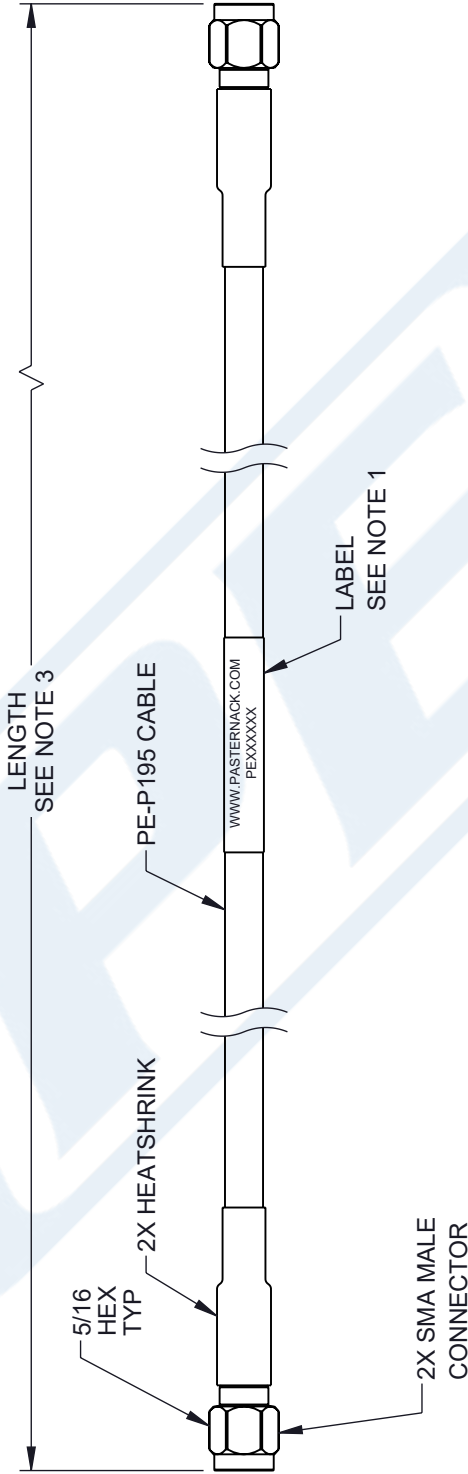
URL: <https://www.pasternack.com/sma-male-to-sma-male-cable-using-pe-p195-with-heatshrink-pe3c1576-hs-p.aspx>

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.

PE3C1576/HS CAD Drawing

SMA Male to SMA Male Cable Using PE-P195 Coax with HeatShrink

ZONE		REVISION		APPROVED BY	
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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(PE) PASTERNAK® an INFINIT® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SCALE	SHEET
DESCRIPTION SMA MALE TO SMA MALE LOW LOSS CABLE USING PE-P195 COAX WITH HEATSHRINK		NONE	1 OF 1
SIZE A	CAGE CODE 53919	DRAWN BY BPUCHASKI	ITEM NO. PE3C1576-HS
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.		TOLERANCES: X = ±.2 [5] FRACTIONS XX = ±.02 [0.5] ± 1/32 XXX = ±.005 [0.13] ANGLES ± 1°	
CABLE LENGTH TOLERANCES: ≤ 12 [305] = ±.125 [3.18] / -0 ≤ 120 [3048] = ±.125 [3.18] / -0 ≤ 300 [7620] = ±.125 [3.18] / -0 ≤ 300 [7620] = ±.125 [3.18] / -0 ≤ 300 [7620] = ±.125 [3.18] / -0 ≤ 300 [7620] = ±.125 [3.18] / -0 ≤ 300 [7620] = ±.125 [3.18] / -0		ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.	