

## SMA Male to SMA Male Low Loss Cable Using PE-P195 Coax with Times Microwave Connectors



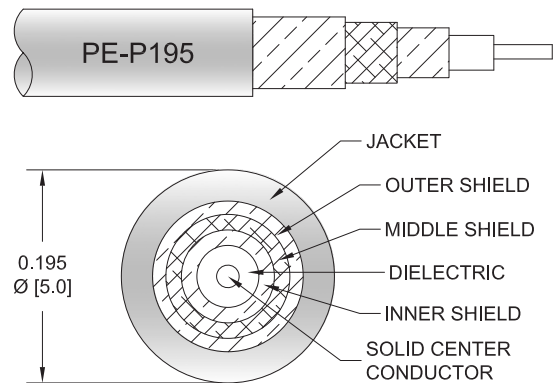
### PE3C1951

#### Configuration

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

#### Features

- Max Frequency 8 GHz
- Triple Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C1951 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 PE3C1951 SMA male to SMA male cable assembly operates to 8 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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Capacitance		29 [95.14]		pF/ft [pF/m]
Jacket Spark			2,000	Vrms

#### Specifications by Frequency

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### PE3C1951

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2000	4000	8000	MHz	
PE3C1951	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.12	0.16	0.26	0.39	dB/ft	
			0.29	0.4	0.53	0.86	1.28	dB/m	
PE3C1951-12	12 inch	Insertion Loss (Typ.)	0.29	0.32	0.36	0.46	0.59	dB	0.076
PE3C1951-24	24 inch	Insertion Loss (Typ.)	0.38	0.44	0.52	0.72	0.98	dB	0.115
PE3C1951-36	36 inch	Insertion Loss (Typ.)	0.47	0.56	0.68	0.98	1.37	dB	0.153
PE3C1951-60	60 inch	Insertion Loss (Typ.)	0.64	0.8	1	1.5	2.15	dB	0.229
PE3C1951-72	72 inch	Insertion Loss (Typ.)	0.73	0.92	1.16	1.76	2.54	dB	0.267

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: 0.076 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

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.076 lbs [34.47 g]

#### 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]

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### PE3C1951

#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	ASTM B488	ASTM B488
Dielectric Type	Teflon	Teflon
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Hex Size	5/16 Inch	5/16 Inch

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

Values at 25°C, sea level.

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### PE3C1951

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C1951**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C1951-12 = 12 inches long cable  
PE3C1951-100cm = 100 cm long cable

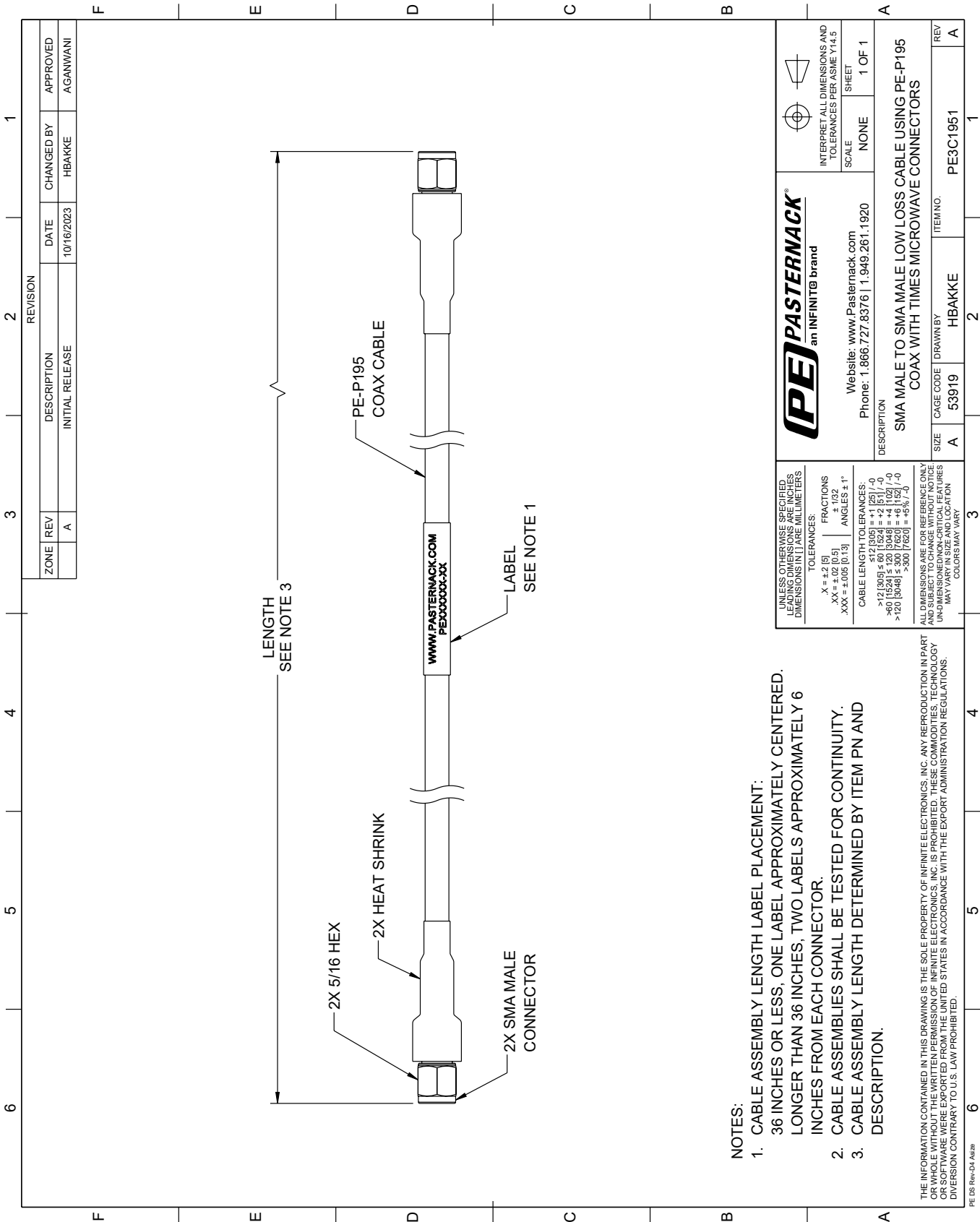
SMA Male to SMA Male Low Loss Cable Using PE-P195 Coax with Times Microwave Connectors from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 Low Loss Cable Using PE-P195 Coax with Times Microwave Connectors PE3C1951](https://www.pasternack.com/sma-male-to-sma-male-cable-using-pe-p195-pe3c1951-p.aspx)

URL: <https://www.pasternack.com/sma-male-to-sma-male-cable-using-pe-p195-pe3c1951-p.aspx>

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PE3C1951 CAD Drawing
SMA Male to SMA Male Low Loss Cable Using PE-P195 Coax with Times Microwave Connectors



- 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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