



SMA Male to BNC Male Right Angle Low Loss Cable Using PE-C195 Coax

TECHNICAL DATA SHEET

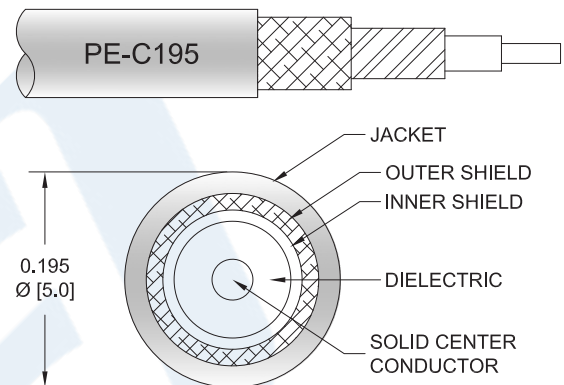
PE39404

Configuration

- Connector 1: SMA Male
- Connector 2: BNC Male Right Angle
- Cable Type: PE-C195
- Coax Flex Type: Flexible

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE39404 SMA male to BNC male right angle cable using PE-C195 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 BNC cable assembly has a male to male gender configuration with 50 ohm flexible PE-C195 coax. The PE39404 SMA male to BNC male cable assembly operates to 3 GHz. The right angle BNC interface on the PE-C195 cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 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: [SMA Male to BNC Male Right Angle Low Loss Cable Using PE-C195 Coax PE39404](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		80		%
RF Shielding	90			dB
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Jacket Spark			5,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	250	500	1000	3000	MHz	
PE39404	Custom Lengths Available	Insertion Loss (Typ.)	0.057	0.08	0.12	0.21	dB/ft	
			0.19	0.27	0.39	0.68	dB/m	
PE39404-12	12 inch	Insertion Loss (Typ.)	0.36	0.39	0.42	0.51	dB	0.09
PE39404-24	24 inch	Insertion Loss (Typ.)	0.39	0.42	0.47	0.54	dB	0.111
PE39404-36	36 inch	Insertion Loss (Typ.)	0.48	0.55	0.65	0.92	dB	0.131
PE39404-48	48 inch	Insertion Loss (Typ.)	0.53	0.63	0.77	1.13	dB	0.151
PE39404-60	60 inch	Insertion Loss (Typ.)	0.59	0.71	0.88	1.33	dB	0.171

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:	0.09 pounds
Additional Weight per Inch:	0.00167 pounds

Mechanical Specifications

Cable Assembly

Weight	0.09 lbs [40.82 g]
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Cable

Cable Type	PE-C195
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, Black
Jacket Diameter	0.195 in [4.95 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	2 in [50.8 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male Threaded	BNC Male Right Angle Bayonet
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	30 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 in	
Torque	5 in-lbs [0.57 Nm]	

Environmental Specifications

Temperature

Operating Range -40 to +85 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

PE39404

How to Order

Part Number Configuration:

PE39404

- xx

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

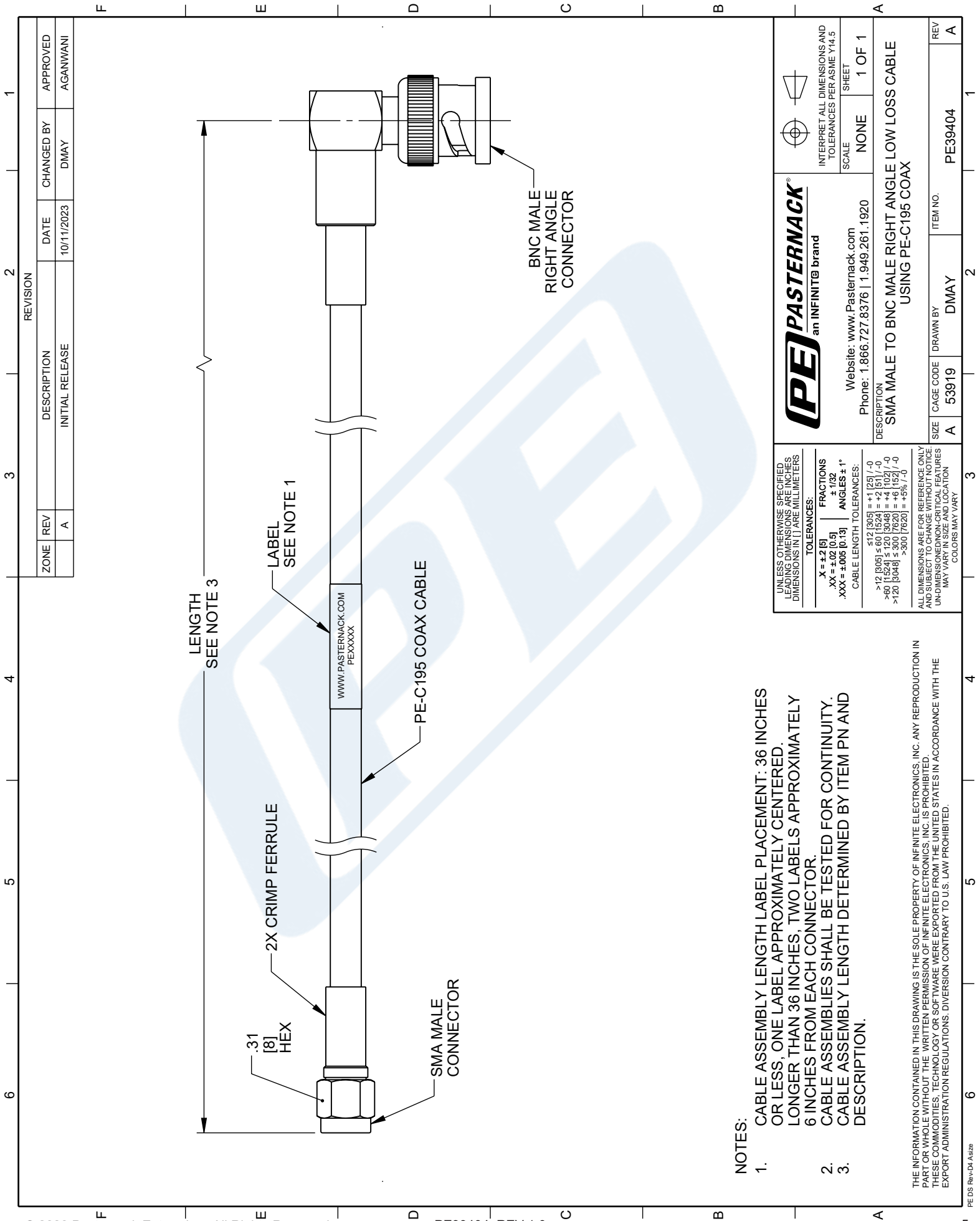
Example: PE39404-12 = 12 inches long cable
PE39404-100cm = 100 cm long cable

SMA Male to BNC Male Right Angle Low Loss Cable Using PE-C195 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 BNC Male Right Angle Low Loss Cable Using PE-C195 Coax PE39404](#)

URL: <https://www.pasternack.com/sma-male-to-bnc-male-low-loss-cable-using-pe-c195-pe39404-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.



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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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
.X = ±.2 [5]	± 1/32
.XX = ±.02 [0.5]	± 1/64
.XXX = ±.005 [0.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
<12 [305] = ±.1 [25] / -0	
>12 [305] ≤ 60 [1524] = ±.2 [5] / -0	
>60 [1524] ≤ 120 [3048] = ±.4 [102] / -0	
>120 [3048] ≤ 300 [7620] = ±.6 [152] / -0	
>300 [7620] = ±.5% / -0	

ALL DIMENSIONS ARE FOR REFERENCE ONLY. ALL DIMENSIONS SHALL BE TO UNDIMENSIONED NON-CRITICAL FEATURES. DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SCALE	SHEET
DESCRIPTION SMA MALE TO BNC MALE RIGHT ANGLE LOW LOSS CABLE USING PE-C195 COAX		NONE	1 OF 1
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	DMAY	PE39404
REV	A		