



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

TECHNICAL DATA SHEET

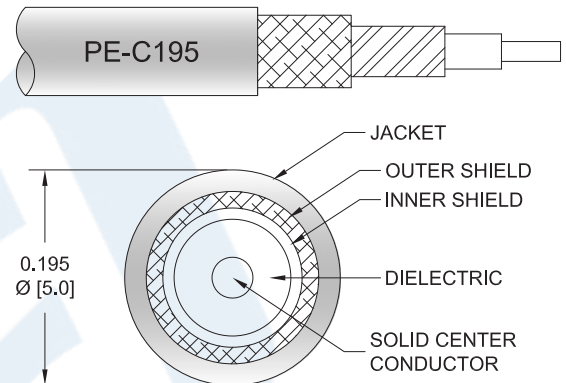
PE39183

Configuration

- Connector 1: BNC 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 PE39183 BNC 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 BNC to BNC cable assembly has a male to male gender configuration with 50 ohm flexible PE-C195 coax. The PE39183 BNC 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: [BNC Male to BNC Male Right Angle Low Loss Cable Using PE-C195 Coax PE39183](#)



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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	
PE39183	Custom Lengths Available	Insertion Loss (Typ.)	0.06	0.08	0.12	0.21	dB/ft	
			0.19	0.27	0.39	0.68	dB/m	
PE39183-12	12 inch	Insertion Loss (Typ.)	0.36	0.39	0.42	0.51	dB	0.101
PE39183-24	24 inch	Insertion Loss (Typ.)	0.42	0.47	0.54	0.72	dB	0.122
PE39183-36	36 inch	Insertion Loss (Typ.)	0.48	0.55	0.65	0.92	dB	0.142
PE39183-48	48 inch	Insertion Loss (Typ.)	0.53	0.63	0.77	1.13	dB	0.162
PE39183-60	60 inch	Insertion Loss (Typ.)	0.59	0.71	0.88	1.33	dB	0.182

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:	0.101 pounds
Additional Weight per Inch:	0.00167 pounds

Mechanical Specifications

Cable Assembly

Weight	0.101 lbs [45.81 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	BNC Male Bayonet	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	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	90 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum

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

PE39183

How to Order

Part Number Configuration:

PE39183

- **xx**

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

Example: PE39183-12 = 12 inches long cable
PE39183-100cm = 100 cm long cable

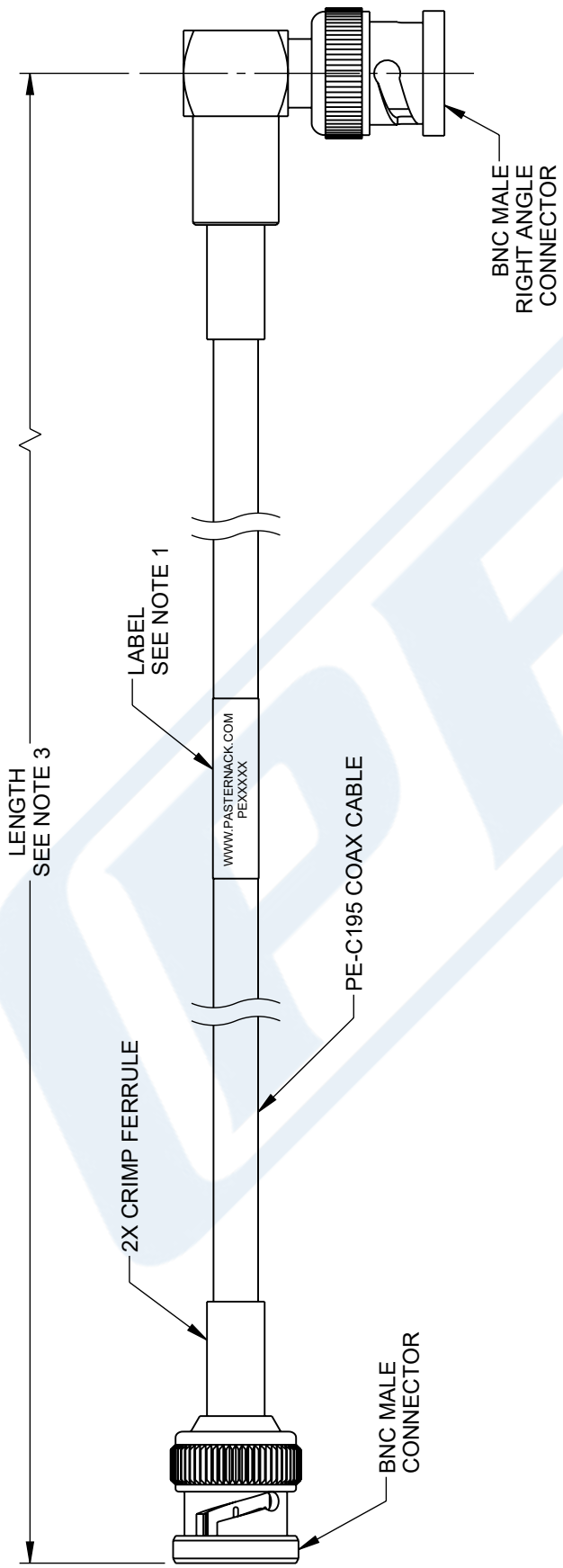
BNC Male to BNC Male Right Angle Low Loss Cable Using PE-C195 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to BNC Male Right Angle Low Loss Cable Using PE-C195 Coax PE39183](https://www.pasternack.com/bnc-male-to-bnc-male-low-loss-cable-using-pe-c195-pe39183-p.aspx)

URL: <https://www.pasternack.com/bnc-male-to-bnc-male-low-loss-cable-using-pe-c195-pe39183-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.

REVISION			
ZONE	REV	DESCRIPTION	DATE
	A	INITIAL RELEASE	10/11/2023
		CHANGED BY	AGANWANI



- 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.

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

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

CABLE LENGTH TOLERANCES:

<12 [305]	±.1 [25]	/-0
>12 [305] ≤ 60 [1524]	±.2 [5]	/-0
>60 [1524] ≤ 120 [3048]	±.4 [10]	/-0
>120 [3048] ≤ 300 [7620]	±.6 [15]	/-0
>300 [7620]	±.8 [20]	/-0

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Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

DESCRIPTION:
BNC MALE TO BNC MALE RIGHT ANGLE LOW LOSS CABLE
USING PE-C195 COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	DMAY	PE39183	A

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