



## BNC Male to BNC Female Cable 12 Inch Length Using PE-C195 Coax

### RF Cable Assemblies Technical Data Sheet

PE38344-12

#### Configuration

- Connector 1: BNC Male
- Connector 2: BNC Female
- Cable Type: PE-C195

#### Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket

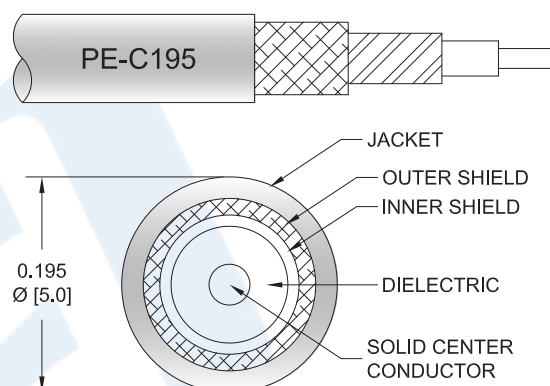
#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE38344-12 BNC male to BNC female 12 inch 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 female gender configuration with 50 ohm flexible PE-C195 coax. The PE38344-12 BNC male to BNC female cable assembly operates to 4 GHz. 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 Female Cable 12 Inch Length Using PE-C195 Coax PE38344-12](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	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

Description	F1	F2	F3	F4	F5	Units
Frequency	0.15	0.45	1.5	2.5	4	GHz
Insertion Loss (Typ.)	0.243	0.275	0.333	0.38	0.426	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Length*	12 in [304.8 mm]
Diameter	0.571 in [14.5 mm]
Weight	0.076 lbs [34.47 g]

##### 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]

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 Female Cable 12 Inch Length Using PE-C195 Coax PE38344-12](#)



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**Connectors**

Description	Connector 1	Connector 2
Type	BNC Male	BNC Female
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30μ in. minimum	
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100μ in. minimum	

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

**Plotted and Other Data**

Notes:

- Values at 25°C, sea level.

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## BNC Male to BNC Female Cable 12 Inch Length Using PE-C195 Coax

### RF Cable Assemblies Technical Data Sheet

PE38344-12

#### How to Order

Part Number Configuration:

PE38344

- xx

uu

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

Example: PE38344-12 = 12 inches long cable  
PE38344-100cm = 100 cm long cable

BNC Male to BNC Female Cable 12 Inch Length 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 Female Cable 12 Inch Length Using PE-C195 Coax PE38344-12](https://www.pasternack.com/bnc-male-bnc-female-pe-c195-cable-assembly-pe38344-12-p.aspx)

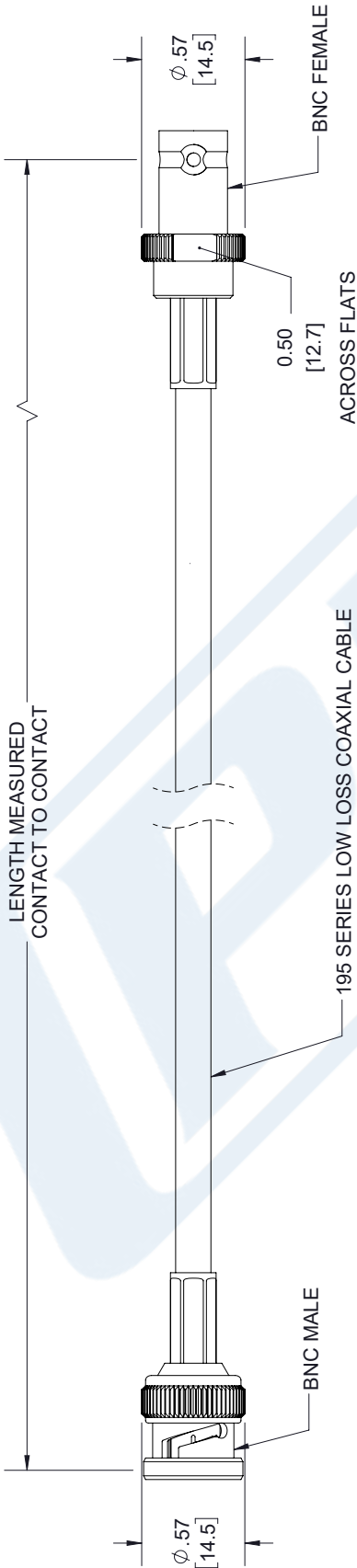
URL: <https://www.pasternack.com/bnc-male-bnc-female-pe-c195-cable-assembly-pe38344-12-p.aspx>

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.

PE38344-12 CAD Drawing

BNC Male to BNC Female Cable 12 Inch Length Using PE-C195 Coax

REVISIONS		
REV.	DESCRIPTION	DATE
A	PCR PE38344 20200821	09/15/20
		APPROVED
		SRAUTUS



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

TOLERANCES:

.X = ± .2	[5.08]	FRACTIONS
.XX = ± .02	[.51]	± 1/32
.XXX = ± .005	[.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305]	± .1 [25] / -0
12 [305] < L ≤ 60 [1524]	± .2 [51] / -0
60 [1524] < L ≤ 120 [3048]	± .4 [102] / -0
120 [3048] < L ≤ 300 [7620]	± .6 [152] / -0
300 [7620] < L ≤ ∞	± .5% / -0

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

**PE PASTERNAK**  
an INFINITE brand

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THIRD-ANGLE PROJECTION

THE INFORMATION AND  
DESIGN CONTAINED  
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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	SLI	PE38344	A

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