



## BNC Female Bulkhead to BNC Male Low Loss Cable Using LMR-195 Coax

### TECHNICAL DATA SHEET

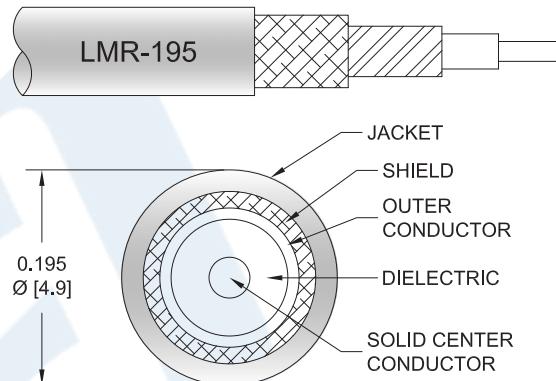
**PE3C6683**

#### Configuration

- Connector 1: BNC Female Bulkhead Isolated Ground
- Connector 2: BNC Male
- Cable Type: LMR-195
- Coax Flex Type: Flexible

#### Features

- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C6683 BNC female bulkhead to BNC male cable using LMR-195 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 female to male gender configuration with 50 ohm flexible LMR-195 coax. Our RF cable assembly with BNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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 Female Bulkhead to BNC Male Low Loss Cable Using LMR-195 Coax PE3C6683](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Velocity of Propagation		80		%
RF Shielding	90			dB
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conductor		7.6 [24.93]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ω/1000ft [Ω/Km]
Jacket Spark			3,000	Vrms

#### Mechanical Specifications

##### Cable Assembly

Weight	0.083 lbs [37.65 g]
<b>Cable</b>	
Cable Type	LMR-195
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]
Bending Moment	0.2 lbs-ft [0.27 N-m]
Flat Plate Crush	15 lbs/in [0.27 Kg/mm]
Tensile Strength	40 lbs [18.14 Kg]

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## BNC Female Bulkhead to BNC Male Low Loss Cable Using LMR-195 Coax

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#### Connectors

Description	Connector 1	Connector 2
Type	BNC Female Bulkhead Isolated Ground Bayonet	BNC Male Bayonet
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Color		
Isolated Ground/Hermetic Seal	Isolated Ground	
Contact Material and Plating	Phosphor Bronze, Gold	Brass, Gold
Contact Plating Specification		30 $\mu$ m minimum
Dielectric Type	Teflon	PTFE
Outer Conductor Material and Plating	Brass, Nickel	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification		90 $\mu$ m minimum
Coupling Nut Material and Plating		Brass, Nickel

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

#### Plotted and Other Data

Notes:

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## BNC Female Bulkhead to BNC Male Low Loss Cable Using LMR-195 Coax

### TECHNICAL DATA SHEET

**PE3C6683**

#### How to Order

Part Number Configuration:

**PE3C6683**

- **xx**

**uu**

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

Example: PE3C6683-12 = 12 inches long cable  
PE3C6683-100cm = 100 cm long cable

BNC Female Bulkhead to BNC Male Low Loss Cable Using LMR-195 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 Female Bulkhead to BNC Male Low Loss Cable Using LMR-195 Coax PE3C6683](#)

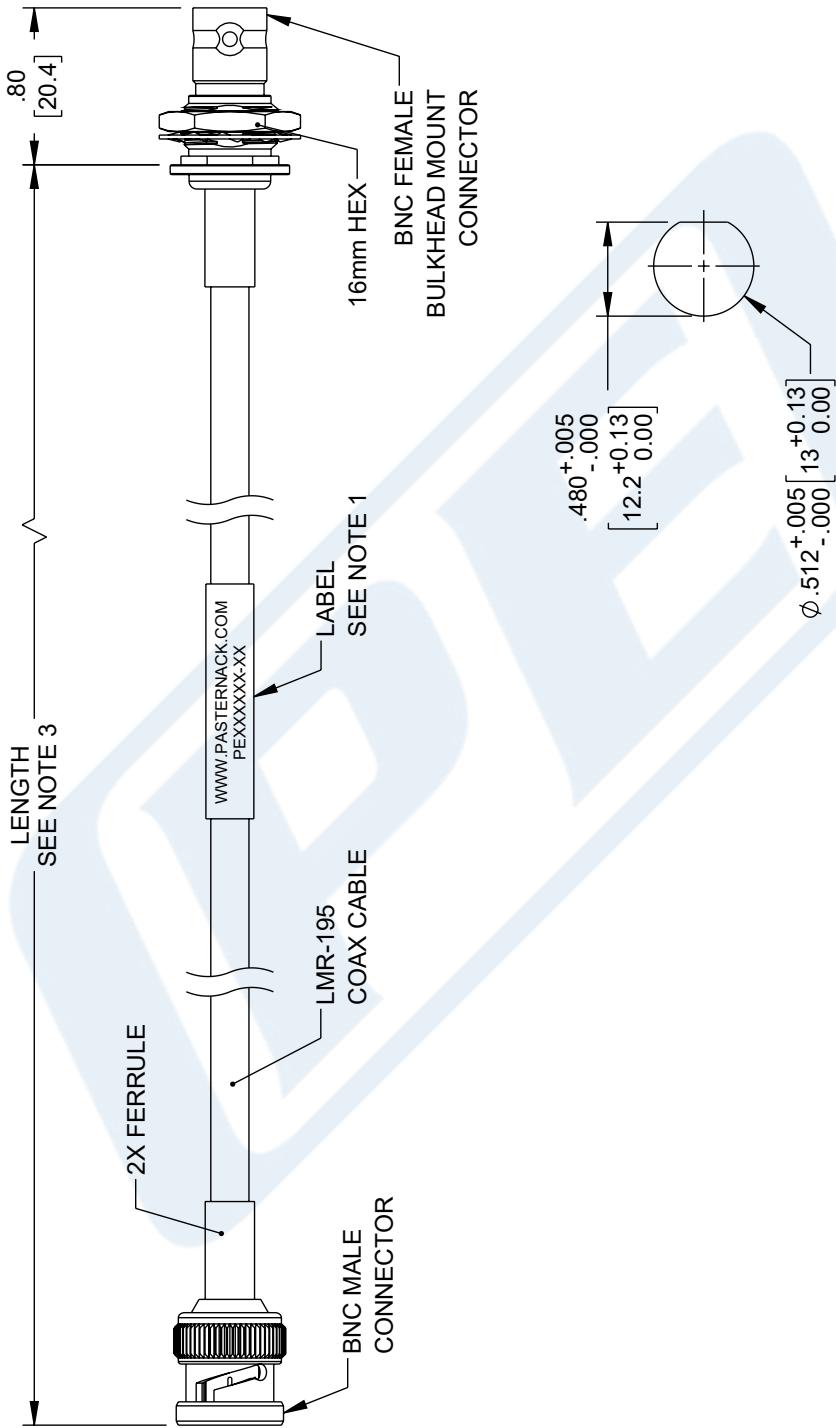
URL: <https://www.pasternack.com/bnc-female-bulkhead-to-bnc-male-low-loss-cable-using-lmr-195-pe3c6683-p.aspx>

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.

PE3C6683 CAD Drawing

## BNC Female Bulkhead to BNC Male Low Loss Cable Using LMR-195 Coax

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A		INITIAL RELEASE	10/13/2023	KGLEBOVA	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

**RECOMMENDED  
MOUNTING HOLE**

**PE PASTERNAK**  
an INFINITE® brand

Website: [www.Pasternack.com](http://www.Pasternack.com)  
Phone: 1.866.727.8376 | 1.949.261.1920  
DESCRIPTION

BNC MALE TO BNC FEMALE BULKHEAD LOW LOSS CABLE  
USING 1 MTR-195 COAX

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	TOLERANCES:	FRACTIONS
	$X = \pm 2 [5]$	$\pm 1/12$
	$XX = \pm 0.2 [0.5]$	$\pm 1/2$
	$XXX = \pm 0.05 [0.13]$	$\pm 1^{\circ}$
	CABLE LENGTH TOLERANCES:	$\pm 10\%$
$>12 [305] \leq 60 [1524]$	$\leq 12 [305]$	$\leq 10\% [251] / -10\% [51]$

AD LOW LOSS CABLE  
DAX  
PE3C6683

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