

BNC Male to N Female Low Loss Cable Using PE-P195 Coax



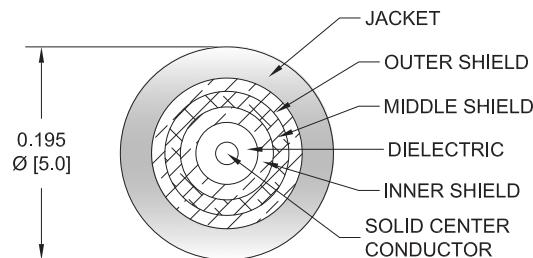
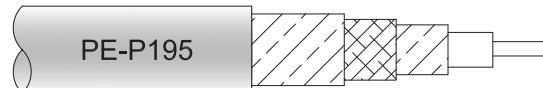
PE3C5291

Configuration

- Connector 1: BNC Male
- Connector 2: N Female
- Cable Type: PE-P195
- Coax Flex Type: Flexible

Features

- Max Frequency 4 GHz
- 70% Phase Velocity
- Triple Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C5291 BNC male to type N female 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 BNC to type N cable assembly has a male to female gender configuration with 50 ohm flexible PE-P195 coax. The PE3C5291 BNC male to type N female cable assembly operates to 4 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		4	GHz
VSWR			1.4:1	
Velocity of Propagation	70			%
Capacitance	29 [95.14]			pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

BNC Male to N Female Low Loss Cable Using PE-P195 Coax



PE3C5291

Part Number	Length	Description	F1	F2	F3	F4	F5	Units MHz	Weight (lbs)
			Frequency	100	250	500	1000	4000	
PE3C5291	Custom Lengths Available	Insertion Loss (Typ.)	0.039	0.057	0.088	0.125	0.268	dB/ft	
			0.13	0.19	0.29	0.42	0.88	dB/m	
PE3C5291-12	12 inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.33	0.47	dB	0.12
PE3C5291-24	24 inch	Insertion Loss (Typ.)	0.28	0.32	0.38	0.45	0.74	dB	0.159
PE3C5291-36	36 inch	Insertion Loss (Typ.)	0.32	0.38	0.47	0.58	1.01	dB	0.197
PE3C5291-60	60 inch	Insertion Loss (Typ.)	0.4	0.49	0.64	0.83	1.54	dB	0.273
PE3C5291-72	72 inch	Insertion Loss (Typ.)	0.44	0.55	0.73	0.95	1.81	dB	0.311

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: 0.12 pounds

Additional Weight per Inch: 0.00317 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.12 lbs [54.43 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 Braid
Shield Layer 2	Aluminum Tape
Shield Layer 3	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.195 in [4.95 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]

BNC Male to N Female Low Loss Cable Using PE-P195 Coax



PE3C5291

Connectors

Description	Connector 1	Connector 2
Type	BNC Male	N Female
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 μ in minimum	
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating		Brass, Nickel
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	90 μ in minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Seal Gasket Material	Silicone	

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

Compliance Certifications

(see product page for current document)

Plotted and Other Data

Notes:

BNC Male to N Female Low Loss Cable Using PE-P195 Coax

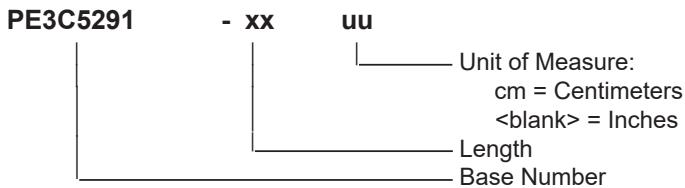


PE3C5291

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3C5291-12 = 12 inches long cable
PE3C5291-100cm = 100 cm long cable

BNC Male to N Female Low Loss Cable Using PE-P195 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.

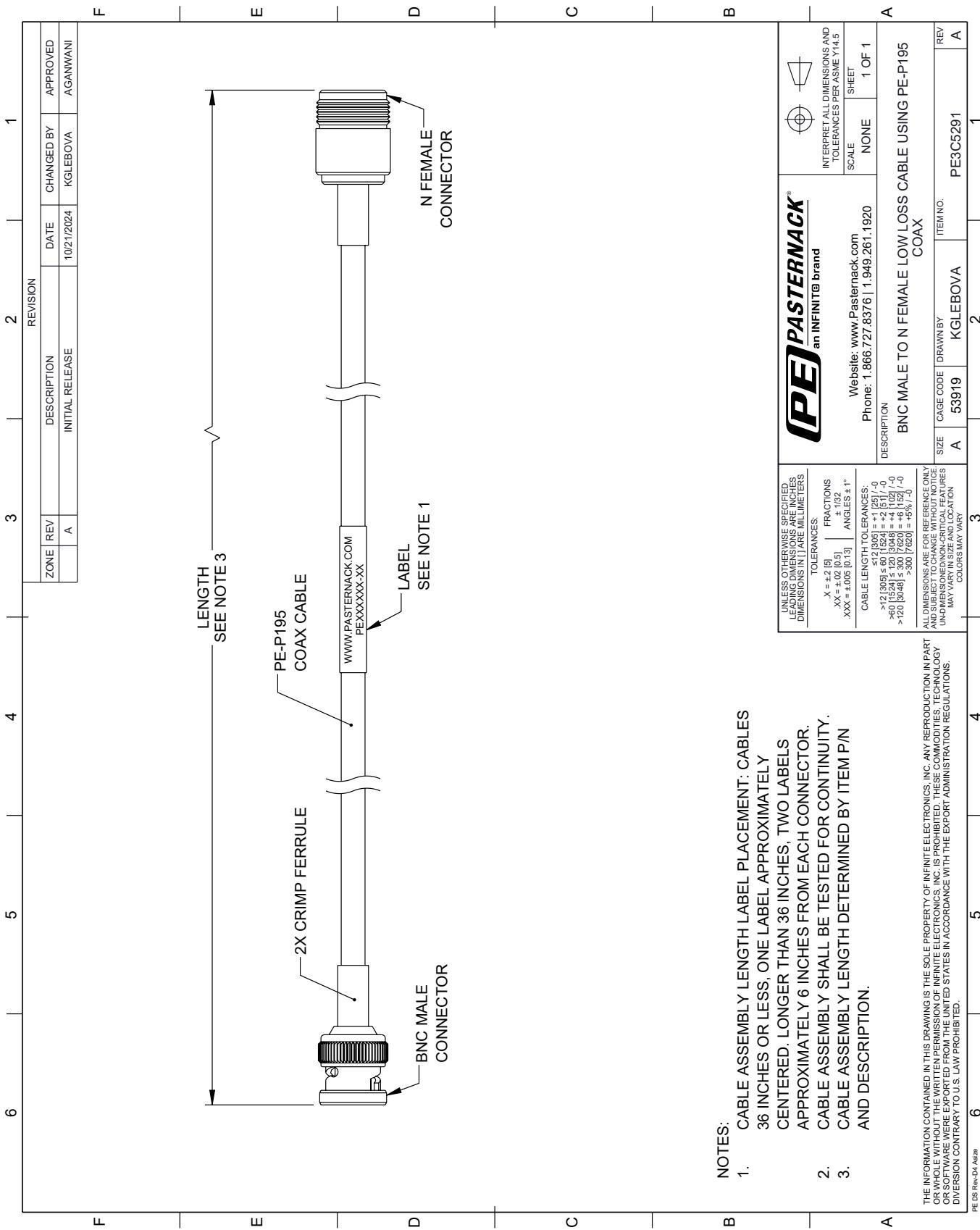
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to N Female Low Loss Cable Using PE-P195 Coax PE3C5291](#)

URL: <https://www.pasternack.com/bnc-male-to-n-female-low-loss-cable-using-pe-p195-pe3c5291-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C5291 CAD Drawing

BNC Male to N Female Low Loss Cable Using PE-P195 Coax



OTES:
CA
36
CE
AP
CA
CA
AN

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE, WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE ARE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

10 of 10

© 2023 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.

+1 (866) 558-2786 | sales@pasternack.com | pasternack.com