

QN Male to N Male Low Loss Cable Using PE-P195 Coax



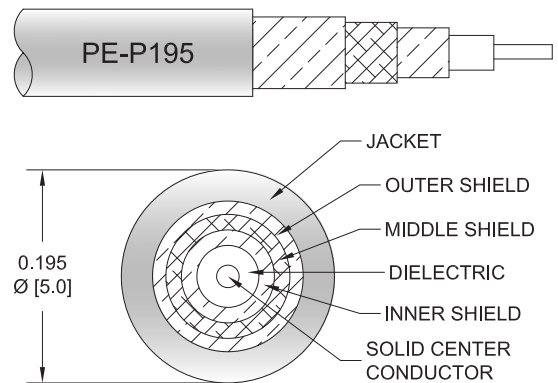
PE3W15866

Configuration

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

Features

- Max Frequency 6 GHz
- 70% Phase Velocity
- Triple Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W15866 QN male to type N male 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 QN to type N cable assembly has a male to male gender configuration with 50 ohm flexible PE-P195 coax. The PE3W15866 QN male to type N male cable assembly operates to 6 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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29 [95.14]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)			700	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		250	500	1000	2500	
PE3W15866	Custom Lengths Available	Insertion Loss (Typ.)	0.057	0.088	0.125	0.196	0.342	dB/ft	
			0.19	0.29	0.42	0.65	1.13	dB/m	
PE3W15866-12	12 inch	Insertion Loss (Typ.)	0.26	0.29	0.33	0.4	0.55	dB	0.146
PE3W15866-24	24 inch	Insertion Loss (Typ.)	0.32	0.38	0.45	0.6	0.89	dB	0.185
PE3W15866-36	36 inch	Insertion Loss (Typ.)	0.38	0.47	0.58	0.79	1.23	dB	0.223
PE3W15866-60	60 inch	Insertion Loss (Typ.)	0.49	0.64	0.83	1.18	1.91	dB	0.299
PE3W15866-72	72 inch	Insertion Loss (Typ.)	0.55	0.73	0.95	1.38	2.26	dB	0.337

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:	0.146 pounds
Additional Weight per Inch:	0.00317 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.146 lbs [66.22 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]

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Connectors

Description	Connector 1	Connector 2
Type	QN Male	N Male
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	100	
Contact Material and Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper	
Body Material and Plating	Brass, Silver	Brass, Nickel
Coupling Nut Material and Plating	Brass, Silver	Brass, Nickel

Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

Plotted and Other Data

Notes:

QN Male to N Male Low Loss Cable Using PE-P195 Coax



PE3W15866

Typical Performance Data

How to Order

Part Number Configuration:

PE3W15866

- **xx**

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W15866-12 = 12 inches long cable
PE3W15866-100cm = 100 cm long cable

QN Male to N Male 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.

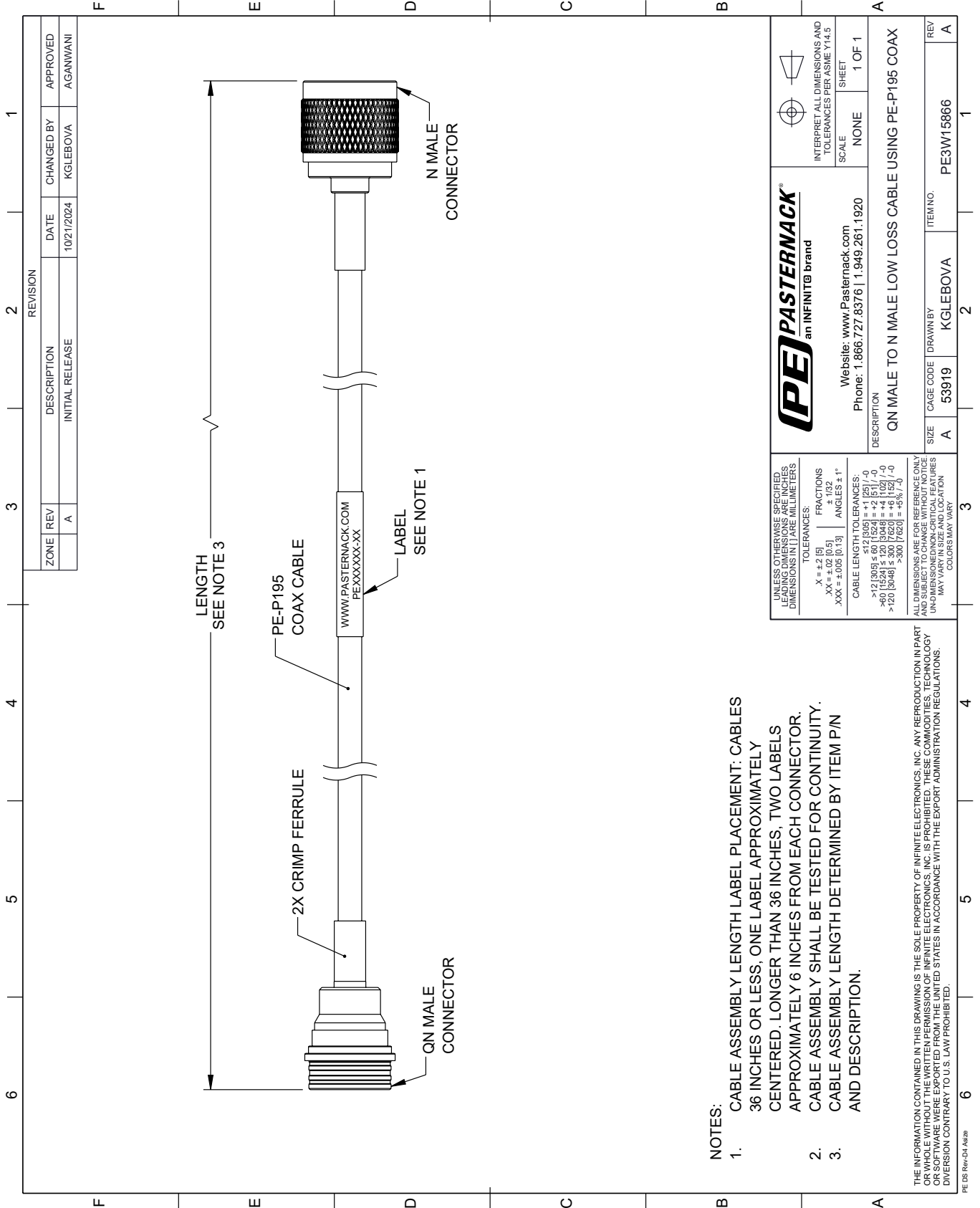
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QN Male to N Male Low Loss Cable Using PE-P195 Coax PE3W15866](#)

URL: <https://www.pasternack.com/qn-male-to-n-male-low-loss-cable-using-pe-p195-pe3w15866-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.

PE3W15866 CAD Drawing

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NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: CABLES 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM P/N AND DESCRIPTION.

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PE DS Rev-04 Add2

 <p>PE PASTERNAK an INFINITE brand</p>	<p>Website: www.Pasternack.com</p> <p>Phone: 1.866.727.8376 1.949.261.1920</p>	<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>
	<p>DESCRIPTION: QN MALE TO N MALE LOW LOSS CABLE USING PE-P195 COAX</p>	
<p>UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.</p> <p>TOLERANCES:</p> <p>.X = ±.2 [5]</p> <p>.XX = ±.02 [0.5]</p> <p>.XXX = ±.005 [0.13]</p> <p>FRACTIONS: ± 1/32</p> <p>ANGLES ± 1°</p> <p>CABLE LENGTH TOLERANCES:</p> <p><12 [305] ≤ 60 [1524] = ±.1 [25] / -0</p> <p>>60 [1524] ≤ 120 [3048] = ±.4 [102] / -0</p> <p>>120 [3048] ≤ 300 [7620] = ±.8 [20] / -0</p>	<p>ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.</p>	<p>SIZE: A</p> <p>CAGE CODE: 53919</p> <p>ITEM NO.: PE3W15866</p>