



N Female to N Female Bulkhead Cable 12 Inch Length Using PE-P195 Coax

RF Cable Assemblies Technical Data Sheet

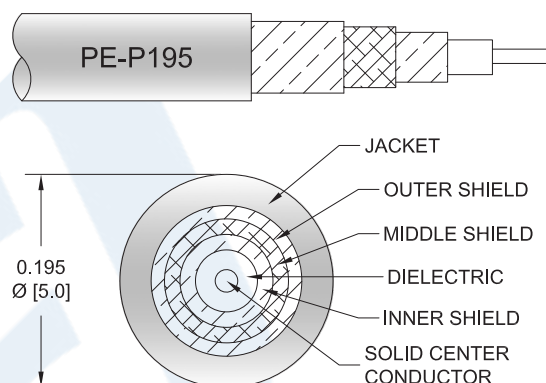
PE3W02976-12

Configuration

- Connector 1: N Female
- Connector 2: N Female Bulkhead
- Cable Type: PE-P195

Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Triple Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W02976-12 type N female to type N female bulkhead 12 inch 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 type N to type N cable assembly has a female to female gender configuration with 50 ohm flexible PE-P195 coax. The PE3W02976-12 type N female to type N female cable assembly operates to 3 GHz. Our RF cable assembly with type N 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 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		3	GHz
VSWR			1.5:1	
Velocity of Propagation		70		%
Capacitance		29 [95.14]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female to N Female Bulkhead Cable 12 Inch Length Using PE-P195 Coax PE3W02976-12](#)



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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	11	GHz
Insertion Loss (Max.)	0.26	0.29	0.33	0.4	0.42	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector loss.

Mechanical Specifications

Cable Assembly

Length*	12 in [304.8 mm]
Diameter	0.87 in [22.1 mm]

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	N Female	N Female Bulkhead
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

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Environmental Specifications

Temperature

Operating Range

-55 to +165 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

PE3W02976

- **xx**

uu

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

Example: PE3W02976-12 = 12 inches long cable
PE3W02976-100cm = 100 cm long cable

N Female to N Female Bulkhead Cable 12 Inch Length 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: [N Female to N Female Bulkhead Cable 12 Inch Length Using PE-P195 Coax PE3W02976-12](#)

URL: <https://www.pasternack.com/n-female-n-female-pe-p195-cable-assembly-pe3w02976-12-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.

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Technical drawing of a cable assembly, showing a side view and a top view of the mounting head.

Side View Dimensions:

- Overall length: $.866$ [22.00]
- Length measured from contact to flange: $.300$ [7.62] (MAX. PANEL)
- Length of the main cable body: $.535^{+.005}_{-.000}$ [13.59 $^{+0.13}_{0.00}$]
- Length of the mounting head: $.160$ [4.06]

Labels:

- CONTACT
- PE-P195
- 3/4 HEX
- N FEMALE BULKHEAD
- N FEMALE

Top View Dimensions:

- Mounting hole diameter: $\varnothing .630^{+.005}_{-.000}$ [16.00 $^{+0.13}_{0.00}$]

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS		PE PASTERNAK an INFINITE® brand		THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.	
TOLERANCES:		Pastermack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1 949 261 1920 1 866 727 8376 Fax: 1 949 261 7451 www.pastermack.com e-mail: sales@pastermack.com		SHEET 1 OF 1	
X±.2 [5.08] FRACTIONS .XX±.01 [.25] ± 1/32 .XXX±.005 [.13] ANGLES ± 1°		ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SCALE N/A	
THIRD-ANGLE PROJECTION 		SIZE A 53919 K.DANG		PART NUMBER PE3W02976	
		DRAWN BY		REV A	

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