



## N Female to N Female Bulkhead Cable 24 Inch Length Using PE-P195 Coax

### RF Cable Assemblies Technical Data Sheet

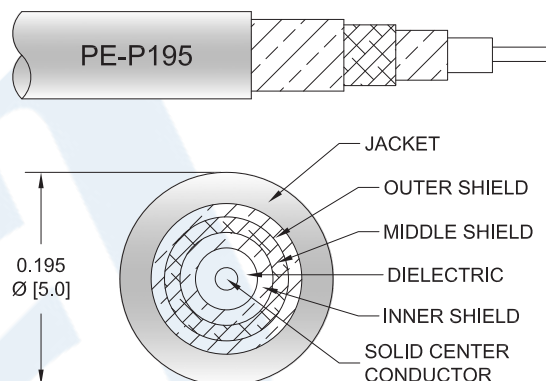
**PE3W02976-24**

#### 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 PE3W02976-24 type N female to type N female bulkhead 24 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 PE3W02976-24 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 24 Inch Length Using PE-P195 Coax PE3W02976-24](#)



## N Female to N Female Bulkhead Cable 24 Inch Length Using PE-P195 Coax

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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.) | 0.32 | 0.38 | 0.45 | 0.6 | 0.64 | 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 connectro loss.

#### Mechanical Specifications

##### Cable Assembly

|          |                   |
|----------|-------------------|
| Length*  | 24 in [609.6 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] |
|------------------------------|----------------|

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

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**PE3W02976-24**

**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 24 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 24 Inch Length Using PE-P195 Coax PE3W02976-24](#)

URL: <https://www.pasternack.com/n-female-n-female-pe-p195-cable-assembly-pe3w02976-24-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 the N Female Bulkhead Connector, showing side and end views with dimensions.

**Side View Dimensions:**

- Length measured from contact to flange: 22.00 [7.62]
- Length of contact: 0.866 [22.00]
- Length of contact: 0.300 [7.62]
- Length of contact: MAX. PANEL
- Length of contact: 3/4 HEX
- Length of contact: PE-P195

**End View Dimensions:**

- Length of contact: 0.535<sup>+0.005</sup><sub>-0.000</sub> [13.59<sup>+0.13</sup><sub>0.00</sub>]
- Length of contact: 0.630<sup>+0.005</sup><sub>-0.000</sub> [16.00<sup>+0.13</sup><sub>0.00</sub>]
- Length of contact: MOUNTING HOLE

**Labels:**

- N FEMALE BULKHEAD
- N FEMALE
- CONTACT

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