



## N Male to N Male Cable 36 Inch Length Using PE-P195 Coax with HeatShrink, LF Solder

### RF Cable Assemblies Technical Data Sheet

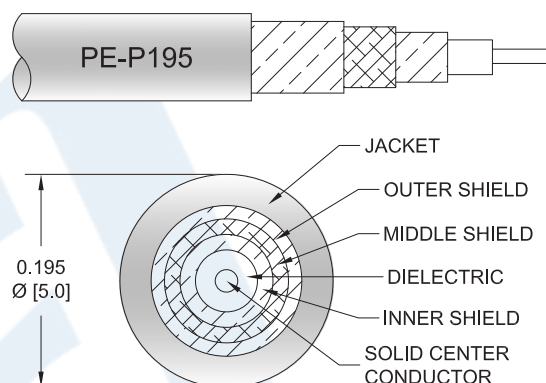
**PE3W01964LF/HS-36**

#### Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: PE-P195

#### Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Triple Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W01964LF/HS-36 type N male to type N male 36 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 male to male gender configuration with 50 ohm flexible PE-P195 coax. The PE3W01964LF/HS-36 type N male to type N male cable assembly operates to 3 GHz. The triple 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: [N Male to N Male Cable 36 Inch Length Using PE-P195 Coax with HeatShrink, LF Solder PE3W01964LF/HS-36](#)



N Male to N Male Cable 36 Inch Length Using PE-P195 Coax with HeatShrink, LF Solder

## RF Cable Assemblies Technical Data Sheet

**PE3W01964LF/HS-36**

### Electrical Specifications

| Description                       | Minimum | Typical      | Maximum | Units                 |
|-----------------------------------|---------|--------------|---------|-----------------------|
| Frequency Range                   | DC      |              | 3       | GHz                   |
| VSWR                              |         |              | 1.5:1   |                       |
| Velocity of Propagation           |         | 80           |         | %                     |
| RF Shielding                      | 90      |              |         | dB                    |
| Group Delay                       |         | 1.27 [4.17]  |         | ns/ft [ns/m]          |
| Capacitance                       |         | 29 [95.14]   |         | pF/ft [pF/m]          |
| Inductance                        |         | 0.064 [0.21] |         | uH/ft [uH/m]          |
| DC Resistance Inner Conductor Km] |         | 7.6 [24.93]  |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor Km] |         | 4.9 [16.08]  |         | Ohms/1000ft [Ohms/Km] |
| Jacket Spark                      |         |              | 3,000   | Vrms                  |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5  | Units |
|-----------------------|------|------|------|------|-----|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 3   | GHz   |
| Insertion Loss (Max.) | 0.37 | 0.45 | 0.55 | 0.77 | 0.8 | 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 loss of 0.2dB of connector loss.

### Mechanical Specifications

#### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 36 in [914.4 mm]   |
| Diameter | 0.81 in [20.57 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              |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Male Cable 36 Inch Length Using PE-P195 Coax with HeatShrink, LF Solder PE3W01964LF/HS-36](#)



N Male to N Male Cable 36 Inch Length Using PE-P195 Coax with HeatShrink, LF Solder

## RF Cable Assemblies Technical Data Sheet

**PE3W01964LF/HS-36**

Shield Layer 3  
Jacket Material Silver Plated Copper Braid  
Jacket Diameter FEP, Tan  
0.195 in [4.95 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm]

### Connectors

| Description                       | Connector 1      | Connector 2      |
|-----------------------------------|------------------|------------------|
| Type                              | N Male           | N Male           |
| Specification                     | MIL-STD-348      | MIL-STD-348      |
| Impedance                         | 50 Ohms          | 50 Ohms          |
| Contact Material and Plating      | Brass, Gold      | Brass, Gold      |
| Contact Plating Specification     | ASTM B488        | ASTM B488        |
| Dielectric Type                   | Teflon           | Teflon           |
| Body Material and Plating         | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Hex Size                          | 13/16 Inch       | 13/16 Inch       |

Mechanical Specification Notes:

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

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

### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Male Cable 36 Inch Length Using PE-P195 Coax with HeatShrink, LF Solder PE3W01964LF/HS-36](#)



## N Male to N Male Cable 36 Inch Length Using PE-P195 Coax with HeatShrink, LF Solder

### RF Cable Assemblies Technical Data Sheet

**PE3W01964LF/HS-36**

#### How to Order

Part Number Configuration:

**PE3W01964LF/HS - xx**

**uu**

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

Example: PE3W01964LF/HS-12 = 12 inches long cable  
PE3W01964LF/HS-100cm = 100 cm long cable

N Male to N Male Cable 36 Inch Length Using PE-P195 Coax with HeatShrink, LF Solder 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 Male to N Male Cable 36 Inch Length Using PE-P195 Coax with HeatShrink, LF Solder PE3W01964LF/HS-36](#)

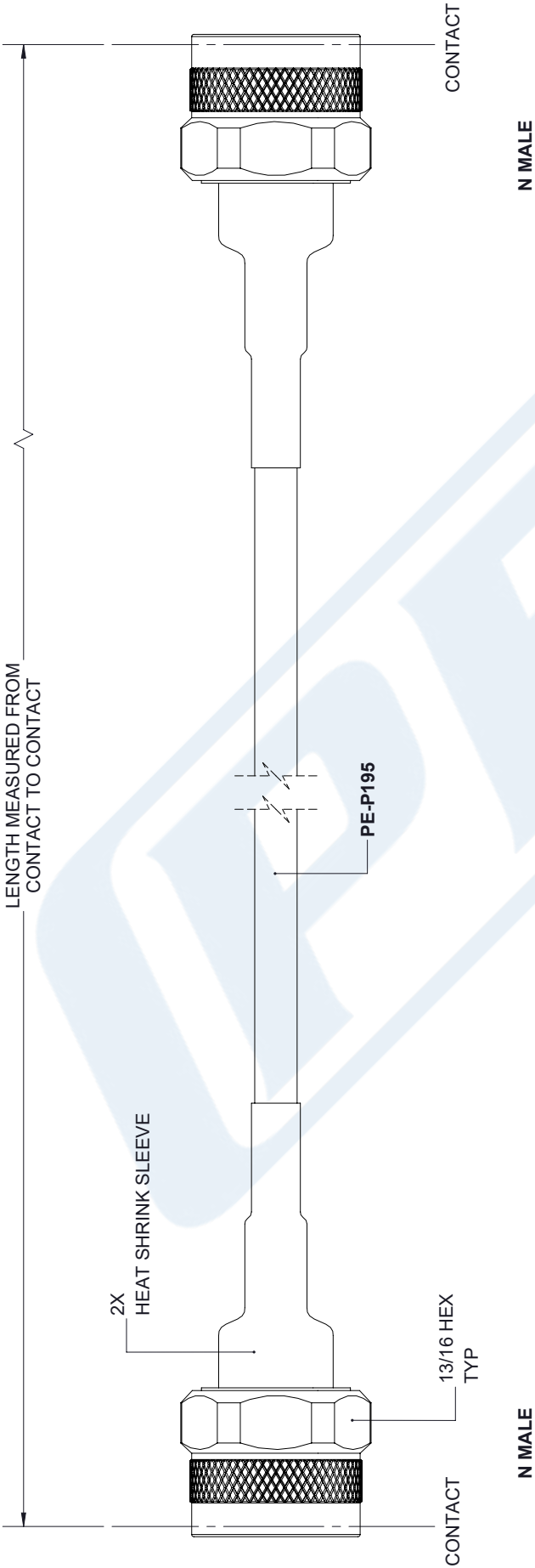
URL: <https://www.pasternack.com/n-male-n-male-pe-p195-cable-assembly-pe3w01964lf-hs-36-p.aspx>

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.

PE3W01964LF/HS-36 CAD Drawing

N Male to N Male Cable 36 Inch Length Using PE-P195 Coax with HeatShrink, LF Solder

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 05/02/19 | SELLIS   |



|                                                                                                  |        |             |       |
|--------------------------------------------------------------------------------------------------|--------|-------------|-------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |        |             |       |
| TOLERANCES:                                                                                      |        |             |       |
| X±.2                                                                                             | [5.08] | FRACTIONS   |       |
| .XX±.01                                                                                          | [.25]  |             | ±.132 |
| .XXX±.005                                                                                        | [.13]  | ANGLES ± 1° |       |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |        |             |       |
| THIRD-ANGLE PROJECTION                                                                           |        |             |       |

|                                                                                                                                                                                         |       |          |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|----------------|
| <b>PE PASTERNAK</b><br>an INFINITO brand                                                                                                                                                |       |          |                |
| Pasternack Enterprises, Inc.<br>P.O. Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Fax: 1.949.261.7451<br>www.pasternack.com   e-mail: sales@pasternack.com |       |          |                |
| SIZE                                                                                                                                                                                    | CAGE  | DRAWN BY | PART NUMBER    |
| A                                                                                                                                                                                       | 53919 | K.DANG   | PE3W01964LF/HS |
|                                                                                                                                                                                         |       |          | REV            |
|                                                                                                                                                                                         |       |          | A              |

|                                                                                                                        |   |     |   |
|------------------------------------------------------------------------------------------------------------------------|---|-----|---|
| THE INFORMATION AND<br>DESIGN IN THIS DOCUMENT<br>IS THE PROPERTY OF<br>PASTERNAK CORPORATION.<br>ALL RIGHTS RESERVED. |   |     |   |
| SHEET                                                                                                                  | 1 | OF  | 1 |
| SCALE                                                                                                                  |   | N/A |   |

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT  
ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.