



N Male to N Female Cable Using PE-SR401AL Coax , LF Solder

RF Cable Assemblies Technical Data Sheet

PE3988LF

Configuration

- Connector 1: N Male
- Connector 2: N Female
- Cable Type: PE-SR401AL-STRAIGHT

Features

- Max Frequency 11 GHz
- 69.5% Phase Velocity

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3988LF type N male to type N female cable using PE-SR401AL coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack type N to type N cable assembly has a male to female gender configuration with 50 ohm semi-rigid PE-SR401AL-STRAIGHT coax. The PE3988LF type N male to type N female cable assembly operates to 11 GHz.

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 | | 11 | GHz |
| Velocity of Propagation | | 69.5 | | % |
| Capacitance | | 29.6 [97.11] | | pF/ft [pF/m] |
| Dielectric Withstanding Voltage (AC) | | | 7,500 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-------|------|------|------|-------|
| Frequency | 0.5 | 1 | 2.5 | 5 | 11 | GHz |
| Insertion Loss (Typ.) | 0.05 | 0.075 | 0.13 | 0.22 | 0.35 | dB |
| | 0.16 | 0.25 | 0.43 | 0.72 | 1.15 | |

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 Female Cable Using PE-SR401AL Coax , LF Solder PE3988LF](#)



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| | | | | | | |
|-----------------------|-----|-----|-----|-----|-----|---|
| Power Handling (Max.) | 962 | 661 | 265 | 174 | 100 | W |
|-----------------------|-----|-----|-----|-----|-----|---|

Electrical Specification Notes:
 Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.272 lbs [123.38 g]

Cable

Cable Type PE-SR401AL-STRAIGHT
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Shield Layer 1 Tinned Aluminum
 Jacket Diameter 0.25 in [6.35 mm]

One Time Minimum Bend Radius 0.25 in [6.35 mm]

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|------------------|---------------|
| Type | N Male | N Female |
| Specification | MIL-STD-348A | |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | |
| Contact Plating Specification | 30μ in. minimum | |
| Dielectric Type | Teflon | |
| Body Material and Plating | Brass, Gold | Brass, Nickel |
| Body Plating Specification | 3μ in. minimum | |
| Coupling Nut Material and Plating | Brass, Nickel | |
| Coupling Nut Plating Specification | 100μ in. minimum | |

Mechanical Specification Notes:
 Cable assemblies that are 60 inches or less use straight coax, greater than 60 inches use coiled coax

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 Female Cable Using PE-SR401AL Coax , LF Solder PE3988LF](#)



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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

How to Order

Part Number Configuration:

PE3988LF - xx uu

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

Example: PE3988LF-12 = 12 inches long cable
PE3988LF-100cm = 100 cm long cable

N Male to N Female Cable Using PE-SR401AL Coax , 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.

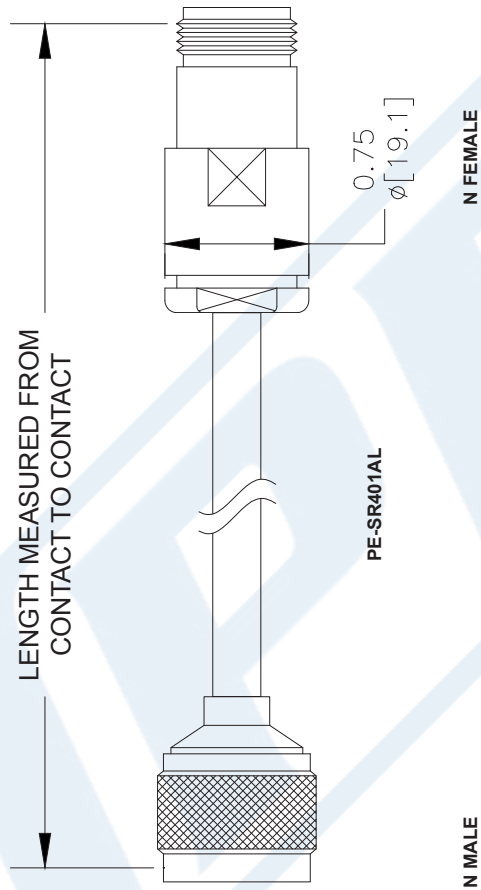
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Female Cable Using PE-SR401AL Coax , LF Solder PE3988LF](#)

URL: <https://www.pasternack.com/n-male-n-female-pe-sr401al-cable-assembly-pe3988lf-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.

PE3988LF CAD Drawing

N Male to N Female Cable Using PE-SR401AL Coax , LF Solder



| How To Order | | Part # Ext. | Length In Inches | Part # Ext. | Length In Centimeters |
|---|--|-------------|------------------|-------------|-----------------------|
| Part Number Configuration PE3 [zzz] [yy] - [xx] [uu] 00 - 99999 LF = RoHS Compliant < Blank > = Standard Note: LF applies only to RF cables | | -12 | 12" | -25CM | 25Cm |
| Examples PE3000LF-100 PE3000-100 PE3000LF-100CM PE3000-100CM CM = Centimeters < Blank > = Inches _____ Length | | -24 | 24" | -50CM | 50Cm |
| | | -36 | 36" | -75CM | 75Cm |
| | | -48 | 48" | -100CM | 100Cm |
| | | -60 | 60" | -125CM | 125Cm |
| | | -xx | Custom Length | -xxCM | Custom Length |

NOTES:
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
 3. DIMENSIONS ARE IN INCHES [mm].
 4. LENGTH TOLERANCE IS ± 1.5% OR 3/8", WHICHEVER IS GREATER.

DWG TITLE
PE3988LF

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|----------------|----------------|-----------|--------|
| FSCM NO. 53919 | CAD FILE 41613 | SCALE N/A | SIZE A |
|----------------|----------------|-----------|--------|