



N Male to N Male Cable 60 Inch Length  
Using RG217 Coax , LF Solder

## RF Cable Assemblies Technical Data Sheet

**PE3997LF-60**

### Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: RG217

### Features

- Max Frequency 5 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3997LF-60 type N male to type N male 60 inch cable using RG217 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 RG217 coax. The PE3997LF-60 type N male to type N male cable assembly operates to 5 GHz. The double 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      |               | 5       | GHz          |
| Velocity of Propagation |         | 66            |         | %            |
| Capacitance             |         | 30.8 [101.05] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |               | 1,000   | Vrms         |

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 60 Inch Length Using RG217 Coax , LF Solder PE3997LF-60](#)



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### Specifications by Frequency

| Description           | F1    | F2    | F3   | F4    | F5   | Units |
|-----------------------|-------|-------|------|-------|------|-------|
| Frequency             | 0.25  | 0.5   | 1    | 2.5   | 5    | GHz   |
| Insertion Loss (Typ.) | 0.307 | 0.368 | 0.49 | 0.738 | 1.15 | dB    |

### Mechanical Specifications

#### Cable Assembly

|          |                     |
|----------|---------------------|
| Length*  | 60 in [152.4 cm]    |
| Diameter | 0.8 in [20.32 mm]   |
| Weight   | 1.54 lbs [698.53 g] |

#### Cable

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | RG217               |
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Solid               |
| Inner Conductor Material and Plating | Copper              |
| Dielectric Type                      | PE                  |
| Number of Shields                    | 2                   |
| Shield Layer 1                       | Copper Braid        |
| Shield Layer 2                       | Copper Braid        |
| Jacket Material                      | PVC, Black          |
| Jacket Diameter                      | 0.545 in [13.84 mm] |

### Connectors

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

Mechanical Specification 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 60 Inch Length Using RG217 Coax , LF Solder PE3997LF-60](#)



## N Male to N Male Cable 60 Inch Length Using RG217 Coax , LF Solder

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**PE3997LF-60**

\*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:

- Values at 25°C, sea level.

#### How to Order

Part Number Configuration:

**PE3997LF - xx uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length  
Base Number

Example: PE3997LF-12 = 12 inches long cable  
PE3997LF-100cm = 100 cm long cable

N Male to N Male Cable 60 Inch Length Using RG217 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 Male Cable 60 Inch Length Using RG217 Coax , LF Solder PE3997LF-60](#)

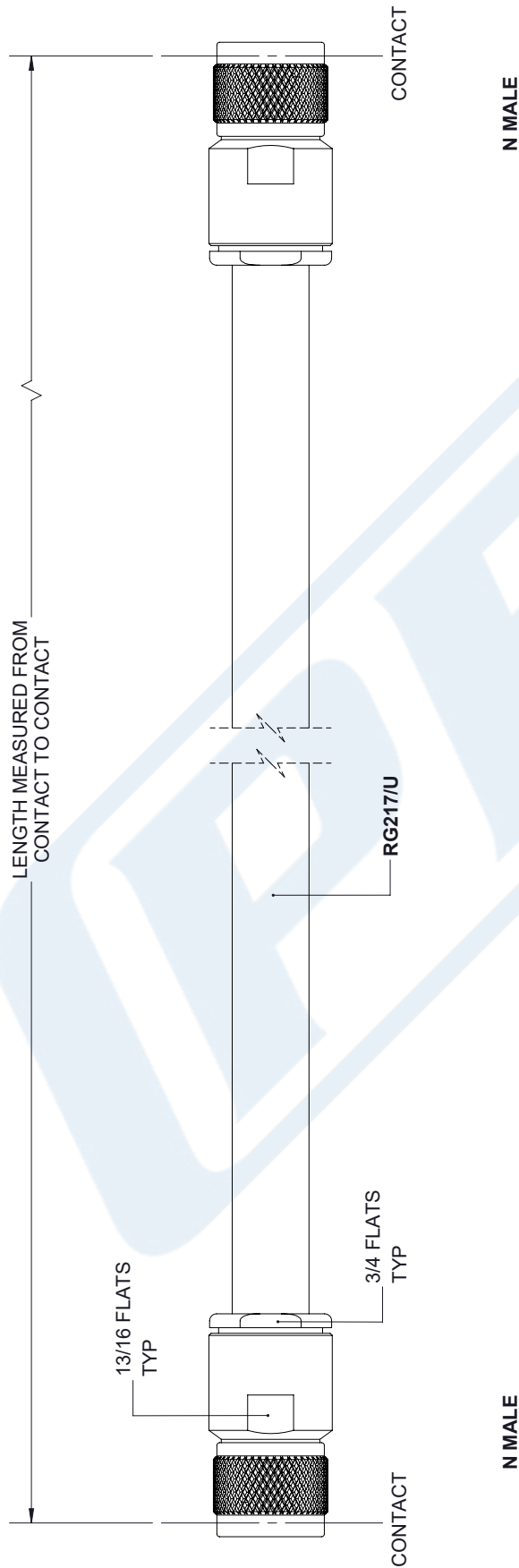
URL: <https://www.pasternack.com/n-male-n-male-rg217u-cable-assembly-pe3997lf-60-p.aspx>

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.

# PE3997LF-60 CAD Drawing

N Male to N Male Cable 60 Inch Length Using RG217 Coax , LF Solder

| REVISIONS |                       |          |          |
|-----------|-----------------------|----------|----------|
| REV.      | DESCRIPTION           | DATE     | APPROVED |
| 1.1       | PCR PE3997LF 20190709 | 07/16/19 | S.ELLIS  |



|                                                                                                  |        |             |       |
|--------------------------------------------------------------------------------------------------|--------|-------------|-------|
| 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 INFINITI 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                                                                                                                                                                                  | PE3997LF    |
|                                          |       |                                                                                                                                                                                         | REV         |
|                                          |       |                                                                                                                                                                                         | 1.1         |

|                                                                                                                        |     |    |   |
|------------------------------------------------------------------------------------------------------------------------|-----|----|---|
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| SHEET                                                                                                                  | 1   | OF | 1 |
| SCALE                                                                                                                  | N/A |    |   |

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