

## N Male to N Male Low Loss Cable 36 Inch Length Using LMR-600 Coax with Times Microwave Components, LF Solder



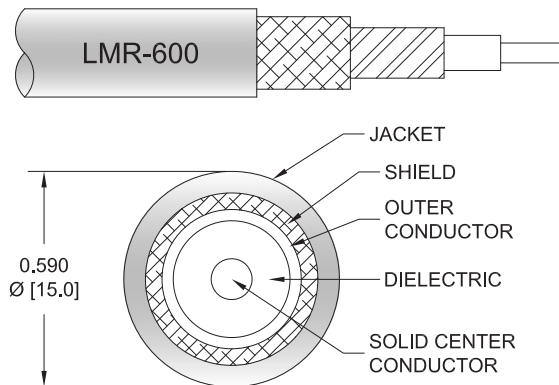
### PE3C0110LF-36

#### Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: LMR-600
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C0110LF-36 type N male to type N male 36 inch cable using LMR-600 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 LMR-600 coax. The PE3C0110LF-36 type N male to type N male cable assembly operates to 6 GHz. The double 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.

#### Electrical Specifications

| Description                          | Minimum | Typical      | Maximum | Units                 |
|--------------------------------------|---------|--------------|---------|-----------------------|
| Frequency Range                      | DC      |              | 6       | GHz                   |
| VSWR                                 |         |              | 1.35:1  |                       |
| Velocity of Propagation              |         | 87           |         | %                     |
| RF Shielding                         | 90      |              |         | dB                    |
| Group Delay                          |         | 1.17 [3.84]  |         | ns/ft [ns/m]          |
| Capacitance                          |         | 23.4 [76.77] |         | pF/ft [pF/m]          |
| Inductance                           |         | 0.058 [0.19] |         | uH/ft [uH/m]          |
| DC Resistance Inner Conductor        |         | 0.53 [1.74]  |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor        |         | 1.2 [3.94]   |         | Ohms/1000ft [Ohms/Km] |
| Dielectric Withstanding Voltage (AC) |         |              | 2,500   | Vrms                  |

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### PE3C0110LF-36

#### Electrical Specifications

| Description  | Minimum | Typical | Maximum | Units |
|--------------|---------|---------|---------|-------|
| Jacket Spark |         |         | 8,000   | Vrms  |

#### Specifications by Frequency

| Part Number    | Length                   | Description           | F1        | F2    | F3    | F4    | F5    | Units | Weight (lbs) |
|----------------|--------------------------|-----------------------|-----------|-------|-------|-------|-------|-------|--------------|
|                |                          |                       | Frequency |       |       |       |       | MHz   |              |
| PE3C0110LF     | Custom Lengths Available | Insertion Loss (Typ.) | 0.012     | 0.017 | 0.026 | 0.044 | 0.073 | dB/ft |              |
|                |                          |                       | 0.04      | 0.06  | 0.09  | 0.15  | 0.24  | dB/m  |              |
| PE3C0110LF-24  | 24 inch                  | Insertion Loss (Typ.) | 0.13      | 0.14  | 0.16  | 0.19  | 0.25  | dB    | 0.571        |
| PE3C0110LF-36  | 36 inch                  | Insertion Loss (Typ.) | 0.14      | 0.16  | 0.18  | 0.24  | 0.32  | dB    | 0.708        |
| PE3C0110LF-48  | 48 inch                  | Insertion Loss (Typ.) | 0.15      | 0.17  | 0.21  | 0.28  | 0.4   | dB    | 0.845        |
| PE3C0110LF-120 | 120 inch                 | Insertion Loss (Typ.) | 0.22      | 0.27  | 0.36  | 0.54  | 0.83  | dB    | 1.667        |
| PE3C0110LF-180 | 180 inch                 | Insertion Loss (Typ.) | 0.28      | 0.36  | 0.49  | 0.76  | 1.2   | dB    | 2.352        |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

|                             |                |
|-----------------------------|----------------|
| Loss due to Connector 1:    | 0.05 dB        |
| Loss due to Connector 2:    | 0.05 dB        |
| Base Weight:                | 0.433 pounds   |
| Additional Weight per Inch: | 0.01142 pounds |

#### Mechanical Specifications

##### Cable Assembly

|                |                      |
|----------------|----------------------|
| Length         | 36 in [914.4 mm]     |
| Width/Diameter | 0.5 in [12.7 mm]     |
| Weight         | 0.708 lbs [321.14 g] |

##### Cable

|                                      |                        |
|--------------------------------------|------------------------|
| Cable Type                           | LMR-600                |
| Impedance                            | 50 Ohms                |
| Inner Conductor Type                 | Solid                  |
| Inner Conductor Material and Plating | Copper Clad Aluminum   |
| Dielectric Type                      | PE (F)                 |
| Number of Shields                    | 2                      |
| Shield Layer 1                       | Aluminum Tape          |
| Shield Layer 2                       | Tinned Copper Braid    |
| Jacket Material                      | PE, Black              |
| Jacket Diameter                      | 0.59 in [14.99 mm]     |
| One Time Minimum Bend Radius         | 1.5 in [38.1 mm]       |
| Repeated Minimum Bend Radius         | 6 in [152.4 mm]        |
| Bending Moment                       | 2.75 lbs-ft [3.73 N-m] |
| Flat Plate Crush                     | 60 lbs/in [1.07 Kg/mm] |
| Tensile Strength                     | 350 lbs [158.76 Kg]    |

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**PE3C0110LF-36**

**Connectors**

| Description                        | Connector 1            | Connector 2            |
|------------------------------------|------------------------|------------------------|
| Type                               | N Male                 | N Male                 |
| Impedance                          | 50 Ohms                | 50 Ohms                |
| Configuration                      | Straight               | Straight               |
| Contact Material and Plating       | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification      | 1.27µm minimum         | 1.27µm minimum         |
| Dielectric Type                    | PTFE                   | PTFE                   |
| Body Material and Plating          | Brass, Tri-Metal       | Brass, Tri-Metal       |
| Body Plating Specification         | 2µm minimum            | 2µm minimum            |
| Coupling Nut Material and Plating  | Brass, Tri-Metal       | Brass, Tri-Metal       |
| Coupling Nut Plating Specification | 2µm minimum            | 2µm minimum            |
| Hex Size                           | 20.57 mm               | 20.57 mm               |
| Torque                             | 44 in-lbs 4.97 Nm      | 44 in-lbs 4.97 Nm      |

**Environmental Specifications**

Operating Range Temperature -40 to +85 deg C

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

**Plotted and Other Data**

Notes:

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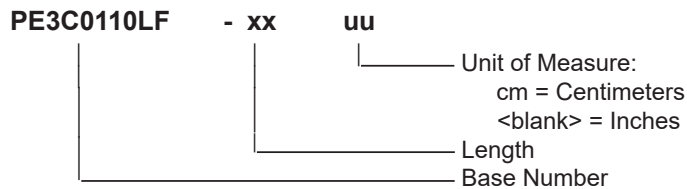


**PE3C0110LF-36**

**Typical Performance Data**

**How to Order**

Part Number Configuration:



Example: PE3C0110LF-12 = 12 inches long cable  
PE3C0110LF-100cm = 100 cm long cable

N Male to N Male Low Loss Cable 36 Inch Length Using LMR-600 Coax with Times Microwave Components, 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 Low Loss Cable 36 Inch Length Using LMR-600 Coax with Times Microwave Components, LF Solder PE3C0110LF-36](#)

URL: <https://www.pasternack.com/n-male-to-n-male-low-loss-cable-36-inch-length-using-lmr-600-lf-solder-pe3c0110lf-36-p.aspx>

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE3C0110LF-36 CAD Drawing

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