



75 Ohm F Male Right Angle to 75 Ohm F Male Right Angle  
Cable Using 75 Ohm RG59 Coax , LF Solder

## RF Cable Assemblies Technical Data Sheet

**PE37169LF**

### Configuration

- Connector 1: F Male Right Angle
- Connector 2: F Male Right Angle
- Cable Type: RG59

### Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC (NC) Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE37169LF 75 ohm type F male right angle to 75 ohm type F male right angle cable using 75 ohm RG59 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 F to type F cable assembly has a male to male gender configuration with 75 ohm flexible RG59 coax. The PE37169LF type F male to type F male cable assembly operates to 1 GHz. The right angle type F interfaces on the RG59 cable allow for easier connections in tight spaces.

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: [75 Ohm F Male Right Angle to 75 Ohm F Male Right Angle Cable Using 75 Ohm RG59 Coax , LF Solder PE37169LF](#)



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### Electrical Specifications

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 1,000   | MHz          |
| VSWR                    |         |              | 1.4:1   |              |
| Velocity of Propagation |         | 66           |         | %            |
| Capacitance             |         | 20.4 [66.93] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |              | 500     | Vrms         |

### Specifications by Frequency

| Description           | F1    | F2    | F3    | F4    | F5    | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency             | 50    | 100   | 250   | 500   | 1,000 | MHz   |
| Insertion Loss (Typ.) | 0.019 | 0.038 | 0.058 | 0.086 | 0.126 | dB/ft |
|                       | 0.06  | 0.12  | 0.19  | 0.28  | 0.41  | dB/m  |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.086 lbs [39.01 g]

#### Cable

|                                      |                    |
|--------------------------------------|--------------------|
| Cable Type                           | RG59               |
| Impedance                            | 75 Ohms            |
| Inner Conductor Type                 | Solid              |
| Inner Conductor Material and Plating | Copper Clad Steel  |
| Dielectric Type                      | PE                 |
| Number of Shields                    | 1                  |
| Shield Layer 1                       | Copper Braid       |
| Jacket Material                      | PVC (NC), Black    |
| Jacket Diameter                      | 0.242 in [6.15 mm] |

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### Connectors

| Description                        | Connector 1         | Connector 2         |
|------------------------------------|---------------------|---------------------|
| Type                               | F Male Right Angle  | F Male Right Angle  |
| Impedance                          | 75 Ohms             | 75 Ohms             |
| Contact Material and Plating       | Brass, Gold         | Brass, Gold         |
| Contact Plating Specification      | 30 µin minimum      | 30 µin minimum      |
| Dielectric Type                    | PTFE                | PTFE                |
| Body Material and Plating          | Brass, Nickel       | Brass, Nickel       |
| Body Plating Specification         | 100 µin minimum     | 100 µin minimum     |
| Coupling Nut Material and Plating  | Brass, Nickel       | Brass, Nickel       |
| Coupling Nut Plating Specification | 100 µin minimum     | 100 µin minimum     |
| Hex Size                           | 16-Jul inch         | 16-Jul inch         |
| Torque                             | 12 in-lbs [1.36 Nm] | 12 in-lbs [1.36 Nm] |

### Environmental Specifications

#### Temperature

Operating Range

-25 to +70 deg C

**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: [75 Ohm F Male Right Angle to 75 Ohm F Male Right Angle Cable Using 75 Ohm RG59 Coax , LF Solder PE37169LF](#)



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## RF Cable Assemblies Technical Data Sheet

**PE37169LF**

### How to Order

Part Number Configuration:

**PE37169LF**

- **xx**

**uu**

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

Example: PE37169LF-12 = 12 inches long cable  
PE37169LF-100cm = 100 cm long cable

75 Ohm F Male Right Angle to 75 Ohm F Male Right Angle Cable Using 75 Ohm RG59 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.

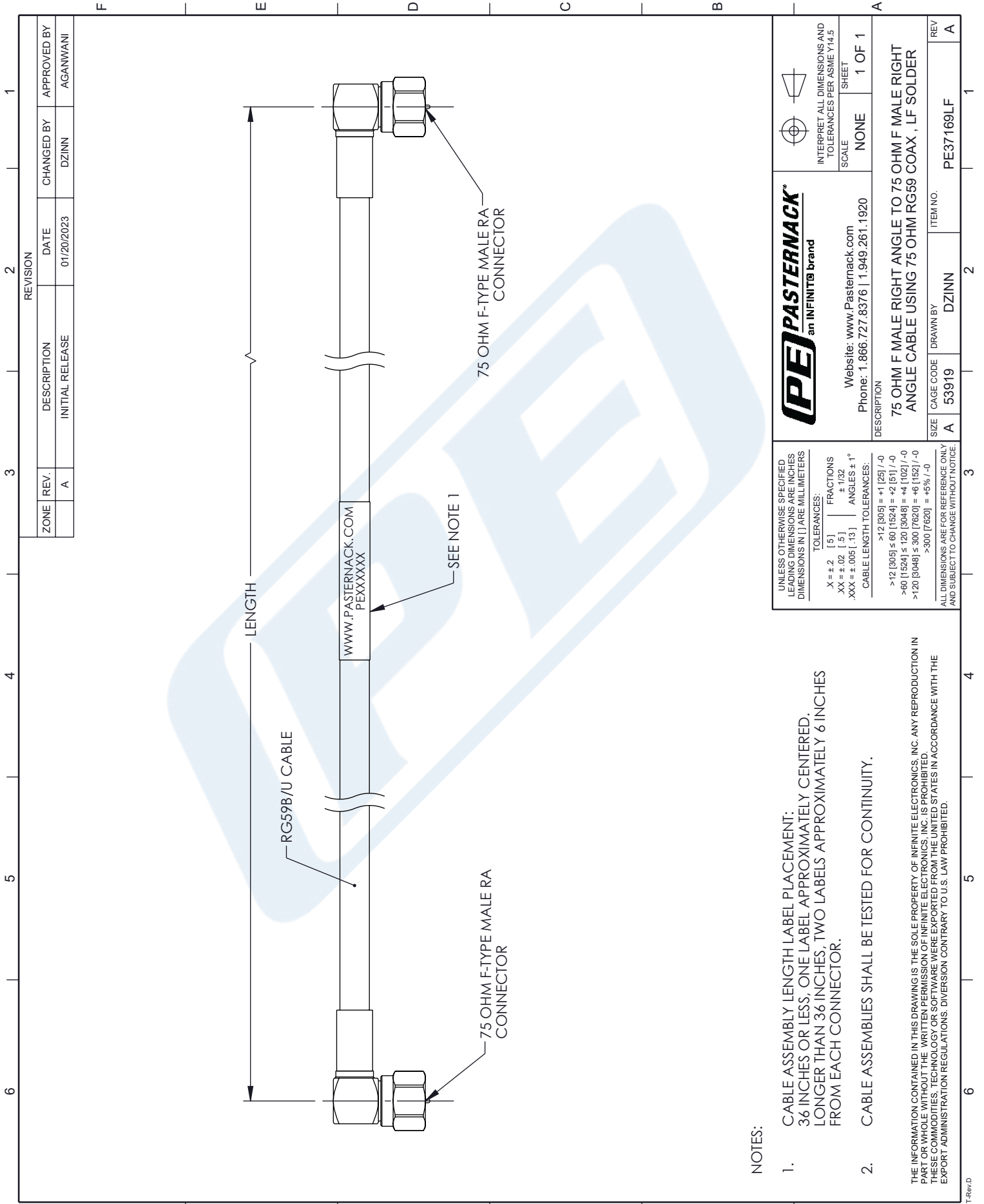
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm F Male Right Angle to 75 Ohm F Male Right Angle Cable Using 75 Ohm RG59 Coax , LF Solder PE37169LF](https://www.pasternack.com/75-ohm-f-male-right-angle-to-75-ohm-f-male-cable-using-rg59-lf-solder-pe37169lf-p.aspx)

URL: <https://www.pasternack.com/75-ohm-f-male-right-angle-to-75-ohm-f-male-cable-using-rg59-lf-solder-pe37169lf-p.aspx>

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# PE37169LF CAD Drawing

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NOTES:

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT:  
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.  
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES  
FROM EACH CONNECTOR.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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| <b>UNLESS OTHERWISE SPECIFIED</b><br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS<br><br>TOLERANCES:<br>X = ±.2 [ .5 ]    FRACTIONS<br>XX = ±.02 [ .5 ]    ± 1/32<br>.XXX = ±.005 [ .13 ]    ANGLES ± 1°<br><br>CABLE LENGTH TOLERANCES:<br>>12 [305] = +1 [25] / -0<br>>12 [305] ≤ 60 [1524] = +2 [51] / -0<br>>60 [1524] ≤ 120 [3048] = +4 [102] / -0<br>>120 [3048] ≤ 300 [7620] = +6 [152] / -0<br>>300 [7620] = +5% / -0<br><br>ALL DIMENSIONS ARE FOR REFERENCE ONLY<br>AND SUBJECT TO CHANGE WITHOUT NOTICE |  <b>PASTERNAK</b><br>an INFINITE brand                                                                                                               |  | <br>INTERPRET ALL DIMENSIONS AND<br>TOLERANCES PER ASME Y14.5<br><br>SCALE: NONE<br>SHEET: 1 OF 1 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a><br>Phone: 1.866.727.8376   1.949.261.1920<br><br>DESCRIPTION:<br>75 OHM F MALE RIGHT ANGLE TO 75 OHM F MALE RIGHT<br>ANGLE CABLE USING 75 OHM RG59 COAX , LF SOLDER |  | REV: A<br>ITEM NO.: PE37169LF                                                                                                                                                        |
| SIZE: A<br>CAGE CODE: 53919<br>DRAWN BY: DZINN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                         |  | REV: A                                                                                                                                                                               |