



## MHV Male to MHV Male Cable 36 Inch Length Using RG141 Coax , LF Solder

### RF Cable Assemblies Technical Data Sheet

**PE34429LF-36**

#### Configuration

- Connector 1: MHV Male
- Connector 2: MHV Male
- Cable Type: RG141

#### Features

- Max Frequency 300 MHz
- PTFE (FG) Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE34429LF-36 MHV male to MHV male 36 inch cable using RG141 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 MHV to MHV cable assembly has a male to male gender configuration with 50 ohm flexible RG141 coax. The PE34429LF-36 MHV male to MHV male cable assembly operates to 300 MHz.

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      |              | 300     | MHz          |
| VSWR            |         |              | 1.4:1   |              |
| Capacitance     |         | 29.4 [96.46] |         | pF/ft [pF/m] |
| Jacket Spark    |         |              | 2,000   | Vrms         |

#### Specifications by Frequency

| Description           | F1    | F2    | F3    | F4    | F5 | Units |
|-----------------------|-------|-------|-------|-------|----|-------|
| Frequency             | 50    | 100   | 250   | 300   |    | MHz   |
| Insertion Loss (Typ.) | 0.272 | 0.317 | 0.362 | 0.377 |    | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MHV Male to MHV Male Cable 36 Inch Length Using RG141 Coax , LF Solder PE34429LF-36](#)



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### Mechanical Specifications

#### Cable Assembly

|         |                     |
|---------|---------------------|
| Length* | 36 in [914.4 mm]    |
| Weight  | 0.162 lbs [73.48 g] |

#### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | RG141                     |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Solid                     |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |
| Number of Shields                    | 1                         |
| Shield Layer 1                       | Silver Plated Copper      |
| Jacket Material                      | PTFE (FG), Beige          |
| Jacket Diameter                      | 0.19 in [4.83 mm]         |

### Connectors

| Description                        | Connector 1      | Connector 2      |
|------------------------------------|------------------|------------------|
| Type                               | MHV Male         | MHV Male         |
| Specification                      | MIL-STD-348      | MIL-STD-348      |
| Impedance                          | 50 Ohms          | 50 Ohms          |
| Contact Material and Plating       | Brass, Gold      | Brass, Gold      |
| Contact Plating Specification      | 30µ In. Min      | 30µ In. Min      |
| 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 |

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

### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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### How to Order

Part Number Configuration:

**PE34429LF**

- **xx**

**uu**

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

Example: PE34429LF-12 = 12 inches long cable  
PE34429LF-100cm = 100 cm long cable

MHV Male to MHV Male Cable 36 Inch Length Using RG141 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: [MHV Male to MHV Male Cable 36 Inch Length Using RG141 Coax , LF Solder PE34429LF-36](#)

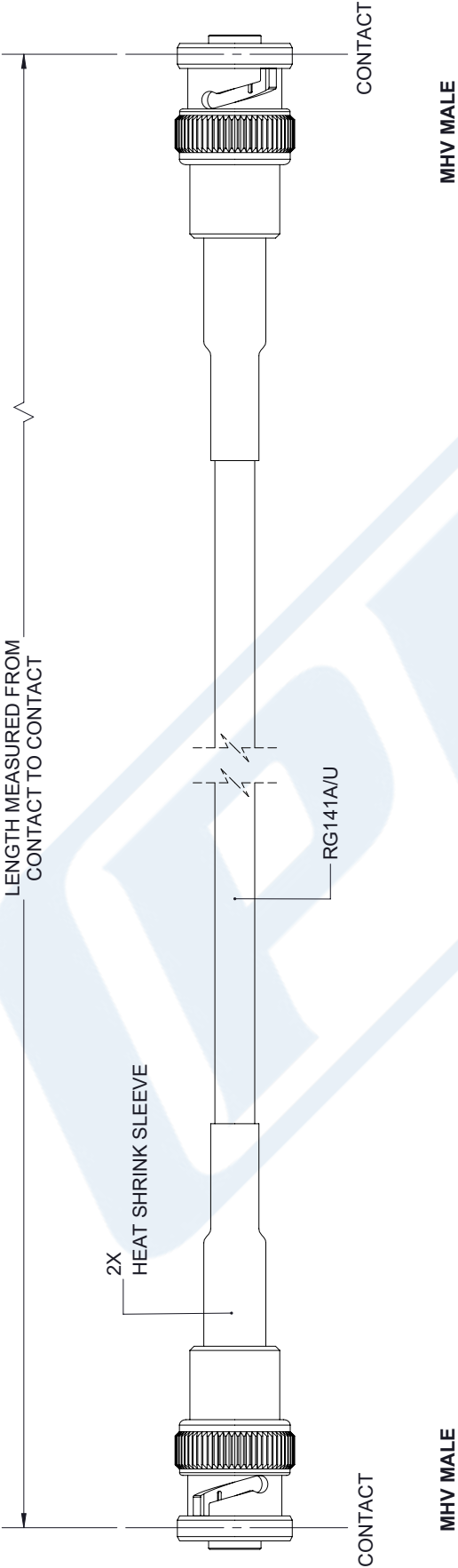
URL: <https://www.pasternack.com/mhv-male-mhv-male-rg141au-cable-assembly-pe34429lf-36-p.aspx>

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.

PE34429LF-36 CAD Drawing

MHV Male to MHV Male Cable 36 Inch Length Using RG141 Coax , LF Solder

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 07/23/19 | SELLIS   |



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

|                                                                                                                                                                                         |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>PE PASTERNAK</b><br>an INFINITI® brand                                                                                                                                               |           |
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| SIZE                                                                                                                                                                                    | A         |
| CAGE                                                                                                                                                                                    | 53919     |
| DRAWN BY                                                                                                                                                                                | K.DANG    |
| PART NUMBER                                                                                                                                                                             | PE34429LF |
| REV                                                                                                                                                                                     | A         |

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|------------------------------------------------------------------------------------------------------------------------|--------|
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| SCALE                                                                                                                  | N/A    |

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