

## 4.3-10 Male to 4.3-10 Male Low Loss Cable Using LMR-400-UF Coax with Times Microwave Components, LF Solder



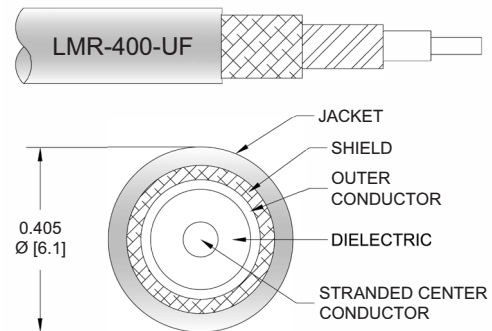
### PE3W11035LF

#### Configuration

- Connector 1: 4.3-10 Male
- Connector 2: 4.3-10 Male
- Cable Type: LMR-400-UF
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- TPE Jacket
- 500 Mating Cycles



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W11035LF 4.3-10 male to 4.3-10 male cable using LMR-400-UF 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 4.3-10 to 4.3-10 cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-UF coax. The PE3W11035LF 4.3-10 male to 4.3-10 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                          |         |              | 1.4:1   |                       |
| Velocity of Propagation       |         | 85           |         | %                     |
| RF Shielding                  | 90      |              |         | dB                    |
| Group Delay                   |         | 1.2 [3.94]   |         | ns/ft [ns/m]          |
| Capacitance                   |         | 23.9 [78.41] |         | pF/ft [pF/m]          |
| Inductance                    |         | 0.06 [0.2]   |         | uH/ft [uH/m]          |
| DC Resistance Inner Conductor |         | 1.07 [3.51]  |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor |         | 1.65 [5.41]  |         | Ohms/1000ft [Ohms/Km] |

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#### 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             | 250   | 500   | 1000 | 2500  | 6000  | MHz   |              |
| PE3W11035LF     | Custom Lengths Available | Insertion Loss (Typ.) | 0.023 | 0.035 | 0.05 | 0.081 | 0.112 | dB/ft |              |
|                 |                          |                       | 0.08  | 0.12  | 0.17 | 0.27  | 0.37  | dB/m  |              |
| PE3W11035LF-12  | 12 inch                  | Insertion Loss (Typ.) | 0.23  | 0.24  | 0.25 | 0.29  | 0.32  | dB    | 0.279        |
| PE3W11035LF-24  | 24 inch                  | Insertion Loss (Typ.) | 0.25  | 0.27  | 0.3  | 0.37  | 0.43  | dB    | 0.366        |
| PE3W11035LF-36  | 36 inch                  | Insertion Loss (Typ.) | 0.27  | 0.31  | 0.35 | 0.45  | 0.54  | dB    | 0.453        |
| PE3W11035LF-60  | 60 inch                  | Insertion Loss (Typ.) | 0.32  | 0.38  | 0.45 | 0.61  | 0.76  | dB    | 0.627        |
| PE3W11035LF-300 | 300 inch                 | Insertion Loss (Typ.) | 0.78  | 1.08  | 1.45 | 2.23  | 3     | dB    | 2.367        |

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:    | 0.1 dB         |
| Loss due to Connector 2:    | 0.1 dB         |
| Base Weight:                | 0.279 pounds   |
| Additional Weight per Inch: | 0.00725 pounds |

#### Mechanical Specifications

##### Cable Assembly

|                |                      |
|----------------|----------------------|
| Width/Diameter | 0.5 in [12.7 mm]     |
| Weight         | 0.279 lbs [126.55 g] |

##### Cable

|                                      |                        |
|--------------------------------------|------------------------|
| Cable Type                           | LMR-400-UF             |
| Impedance                            | 50 Ohms                |
| Inner Conductor Type                 | Stranded               |
| Inner Conductor Material and Plating | Copper                 |
| Dielectric Type                      | PE (F)                 |
| Number of Shields                    | 2                      |
| Shield Layer 1                       | Aluminum Tape          |
| Shield Layer 2                       | Tinned Copper Braid    |
| Jacket Material                      | TPE, Black             |
| Jacket Diameter                      | 0.405 in [10.29 mm]    |
| One Time Minimum Bend Radius         | 1 in [25.4 mm]         |
| Repeated Minimum Bend Radius         | 4 in [101.6 mm]        |
| Bending Moment                       | 0.38 lbs-ft [0.52 N-m] |
| Flat Plate Crush                     | 20 lbs/in [0.36 Kg/mm] |
| Tensile Strength                     | 160 lbs [72.57 Kg]     |

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Connectors

| Description                       | Connector 1      | Connector 2      |
|-----------------------------------|------------------|------------------|
| Type                              | 4.3-10 Male      | 4.3-10 Male      |
| Impedance                         | 50 Ohms          | 50 Ohms          |
| Configuration                     | Straight         | Straight         |
| Mating Cycles                     | 500              | 500              |
| Contact Material and Plating      | Brass, Silver    | Brass, Silver    |
| Dielectric Type                   | PTFE             | PTFE             |
| Body Material and Plating         | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Seal Gasket Material              | Silicone         | Silicone         |

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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### PE3W11035LF

#### Typical Performance Data

#### How to Order

Part Number Configuration: **PE3W11035LF** - **xx** **uu**

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

Length

Base Number

Example: PE3W11035LF-12 = 12 inches long cable  
PE3W11035LF-100cm = 100 cm long cable

4.3-10 Male to 4.3-10 Male Low Loss Cable Using LMR-400-UF 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: [4.3-10 Male to 4.3-10 Male Low Loss Cable Using LMR-400-UF Coax with Times Microwave Components, LF Solder PE3W11035LF](#)

URL: <https://www.pasternack.com/4.3-10-male-to-4.3-10-male-low-loss-cable-using-lmr-400-uf-lf-solder-pe3w11035lf-p.aspx>

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PE3W11035LF CAD Drawing

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