

## SMA Male to SMA Male Low Loss Cable 60 Inch Length Using LMR-400-UF Coax with Times Microwave Components



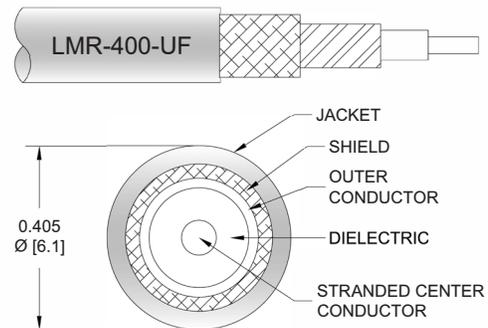
### PE3C1277-60

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA 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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C1277-60 SMA male to SMA male 60 inch 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 SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-UF coax. The PE3C1277-60 SMA male to SMA 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] |
| Dielectric Withstanding Voltage (DC) |         |              | 500     | Vdc                   |

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**PE3C1277-60**

**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   |              |
| PE3C1277     | Custom Lengths Available | Insertion Loss (Typ.) | 0.02      | 0.03 | 0.05 | 0.08 | 0.13 | dB/ft |              |
|              |                          |                       | 0.08      | 0.12 | 0.17 | 0.27 | 0.43 | dB/m  |              |
| PE3C1277-12  | 12 inch                  | Insertion Loss (Typ.) | 0.23      | 0.24 | 0.25 | 0.29 | 0.33 | dB    | 0.189        |
| PE3C1277-36  | 36 inch                  | Insertion Loss (Typ.) | 0.27      | 0.31 | 0.35 | 0.45 | 0.59 | dB    | 0.363        |
| PE3C1277-60  | 60 inch                  | Insertion Loss (Typ.) | 0.32      | 0.37 | 0.45 | 0.61 | 0.85 | dB    | 0.537        |
| PE3C1277-120 | 120 inch                 | Insertion Loss (Typ.) | 0.43      | 0.54 | 0.69 | 1.01 | 1.5  | dB    | 0.972        |
| PE3C1277-300 | 300 inch                 | Insertion Loss (Typ.) | 0.78      | 1.05 | 1.43 | 2.23 | 3.45 | dB    | 2.277        |

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:                | 0.189 pounds   |
| Additional Weight per Inch: | 0.00725 pounds |

**Mechanical Specifications**

**Cable Assembly**

|                |                      |
|----------------|----------------------|
| Length         | 60 in [152.4 cm]     |
| Width/Diameter | 0.5 in [12.7 mm]     |
| Weight         | 0.537 lbs [243.58 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                              | SMA Male         | SMA Male         |
| Impedance                         | 50 Ohms          | 50 Ohms          |
| Configuration                     | Straight         | Straight         |
| Contact Material and Plating      | Brass, Gold      | Brass, Gold      |
| Contact Plating Specification     | 50 µin minimum   | 50 µin minimum   |
| Dielectric Type                   | Teflon           | Teflon           |
| Body Material and Plating         | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |

**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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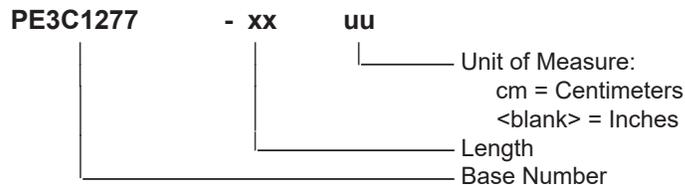


**PE3C1277-60**

**Typical Performance Data**

**How to Order**

Part Number Configuration:



Example: PE3C1277-12 = 12 inches long cable  
PE3C1277-100cm = 100 cm long cable

SMA Male to SMA Male Low Loss Cable 60 Inch Length Using LMR-400-UF Coax with Times Microwave Components 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: [SMA Male to SMA Male Low Loss Cable 60 Inch Length Using LMR®-400-UF Coax with Times Microwave Components PE3C1277-60](#)

URL: <https://www.pasternack.com/sma-male-to-sma-male-low-loss-cable-60-inch-length-using-lmr-400-uf-pe3c1277-60-p.aspx>

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# PE3C1277-60 CAD Drawing

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