

## SMA Male to SMA Male Right Angle Low Loss Cable 50 CM Length Using LMR-240 Coax, LF Solder

### PE3C6658LF-50CM

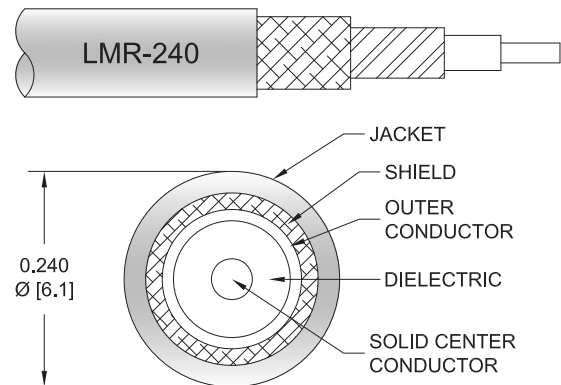


#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male Right Angle
- Cable Type: LMR-240
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C6658LF-50CM SMA male to SMA male right angle 50 cm cable using LMR-240 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-240 coax. The PE3C6658LF-50CM SMA male to SMA male cable assembly operates to 6 GHz. The right angle SMA interface on the LMR-240 cable allows for easier connections in tight spaces. 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       |         | 84           |         | %                     |
| RF Shielding                  | 90      |              |         | dB                    |
| Group Delay                   |         | 1.21 [3.97]  |         | ns/ft [ns/m]          |
| Capacitance                   |         | 24.2 [79.4]  |         | pF/ft [pF/m]          |
| Inductance                    |         | 0.06 [0.2]   |         | uH/ft [uH/m]          |
| DC Resistance Inner Conductor |         | 3.2 [10.5]   |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor |         | 3.89 [12.76] |         | Ohms/1000ft [Ohms/Km] |

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#### Electrical Specifications

| Description  | Minimum | Typical | Maximum | Units |
|--------------|---------|---------|---------|-------|
| Jacket Spark |         |         | 5,000   | Vrms  |

#### Specifications by Frequency

| Description           | F1   | F2  | F3   | F4   | F5   | Units |
|-----------------------|------|-----|------|------|------|-------|
| Frequency             | 0.25 | 0.5 | 1    | 2.5  | 6    | GHz   |
| Insertion Loss (Typ.) | 0.37 | 0.4 | 0.43 | 0.52 | 0.64 | 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 for the straight connector and 0.2 dB for the right angle connector.

#### Mechanical Specifications

##### Cable Assembly

|                |                      |
|----------------|----------------------|
| Length         | 19.68 in [499.87 mm] |
| Width/Diameter | 0.24 in [6.1 mm]     |
| Weight         | 0.087 lbs [39.46 g]  |

##### Cable

|                                      |                        |
|--------------------------------------|------------------------|
| Cable Type                           | LMR-240                |
| Impedance                            | 50 Ohms                |
| Inner Conductor Type                 | Solid                  |
| 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                      | PE, Black              |
| Jacket Diameter                      | 0.24 in [6.1 mm]       |
| One Time Minimum Bend Radius         | 0.75 in [19.05 mm]     |
| Repeated Minimum Bend Radius         | 2.5 in [63.5 mm]       |
| Bending Moment                       | 0.25 lbs-ft [0.34 N-m] |
| Flat Plate Crush                     | 20 lbs/in [0.36 Kg/mm] |
| Tensile Strength                     | 80 lbs [36.29 Kg]      |

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#### Connectors

| Description                       | Connector 1      | Connector 2            |
|-----------------------------------|------------------|------------------------|
| Type                              | SMA Male         | SMA Male Right Angle   |
| Specification                     |                  | MIL-STD-348            |
| Impedance                         | 50 Ohms          | 50 Ohms                |
| Configuration                     | Straight         | Right Angle            |
| Mating Cycles                     | 500              |                        |
| Contact Material and Plating      | Brass, Gold      | Beryllium Copper, Gold |
| Contact Plating Specification     |                  | ASTM B488              |
| Dielectric Type                   | PTFE             | PTFE                   |
| Body Material and Plating         | Brass, Gold      | Brass, Tri-Metal       |
| Coupling Nut Material and Plating | Brass, Gold      | Brass, Tri-Metal       |
| Hex Size                          | 5/16 inch        | 5/16 inch              |
| Torque                            | 3 in-lbs 0.34 Nm | 3 in-lbs 0.34 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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### PE3C6658LF-50CM

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C6658LF - xx uu**

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

Length

Base Number

Example: PE3C6658LF-12 = 12 inches long cable  
PE3C6658LF-100cm = 100 cm long cable

SMA Male to SMA Male Right Angle Low Loss Cable 50 CM Length Using LMR-240 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: [SMA Male to SMA Male Right Angle Low Loss Cable 50 CM Length Using LMR-240 Coax, LF Solder PE3C6658LF-50CM](https://www.pasternack.com/sma-male-to-sma-male-low-loss-cable-50-cm-length-using-lmr-240-lf-solder-pe3c6658lf-50cm-p.aspx)

URL: <https://www.pasternack.com/sma-male-to-sma-male-low-loss-cable-50-cm-length-using-lmr-240-lf-solder-pe3c6658lf-50cm-p.aspx>

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PE3C6658LF-50CM CAD Drawing

SMA Male to SMA Male Right Angle Low Loss Cable 50 CM Length Using LMR-240 Coax, LF Solder

