



SMA Male to SMA Male Right Angle Cable 39.3 Inch Length Using LMR-240 Coax , LF Solder

RF Cable Assemblies Technical Data Sheet

PE3C6658LF-100CM

Configuration

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

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6658LF-100CM SMA male to SMA male right angle 39.3 inch 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-100CM SMA male to SMA male cable assembly operates to 5.8 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.

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 Cable 39.3 Inch Length Using LMR-240 Coax , LF Solder PE3C6658LF-100CM](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range | DC | | 5.8 | GHz |
| VSWR | | | 1.6:1 | |
| 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] | | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor | | 3.89 [12.76] | | Ω/1000ft [Ω/Km] |
| Jacket Spark | | | 5,000 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.5 | 1 | 2 | 4 | 5.8 | GHz |
| Insertion Loss (Max.) | 0.48 | 0.56 | 0.68 | 0.83 | 0.97 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable 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* | 39.3 in [998.22 mm] |
| Diameter | 0.379 in [9.63 mm] |

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 |

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| | |
|------------------------------|------------------------|
| 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] |

Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|--------------------|------------------------|
| Type | SMA Male | SMA Male Right Angle |
| Specification | | MIL-STD-348 |
| Impedance | 50 Ohms | 50 Ohms |
| 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

Temperature

Operating Range -40 to +85 deg C

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3C6658LF

- xx

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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 Cable 39.3 Inch 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 Cable 39.3 Inch Length Using LMR-240 Coax , LF Solder PE3C6658LF-100CM](https://www.pasternack.com/sma-male-sma-male-lmr240-cable-assembly-pe3c6658lf-100cm-p.aspx)

URL: <https://www.pasternack.com/sma-male-sma-male-lmr240-cable-assembly-pe3c6658lf-100cm-p.aspx>

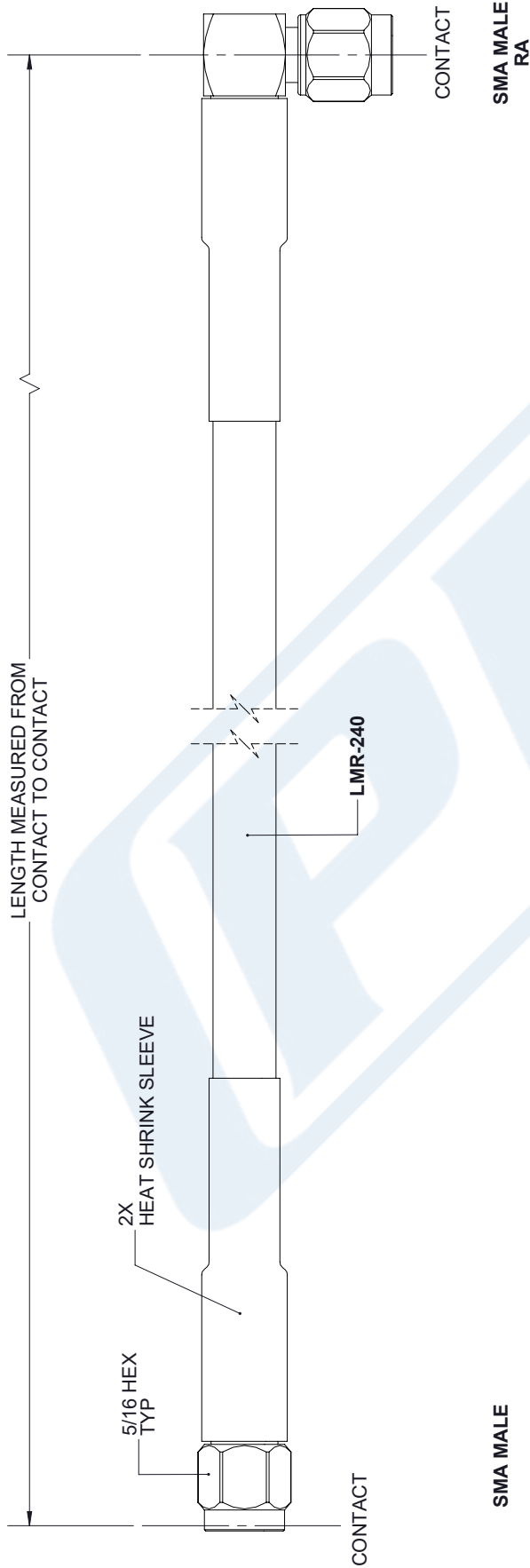
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PE3C6658LF-100CM CAD Drawing

SMA Male to SMA Male Right Angle Cable 39.3 Inch

Length Using LMR-240 Coax , LF Solder

| REVISIONS | | | |
|-----------|-----------------|----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 12/13/19 | SELLIS |



| | |
|--|--------------|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | |
| TOLERANCES: | |
| .X = ± .2 | [.08] |
| .XX = ± .02 | [.51] |
| .XXX = ± .005 | [.13] |
| ANGLES | ± 1° |
| CABLE LENGTH (L) TOLERANCES: | |
| L ≤ 12 [305] | ± .1 [25] |
| 12 [305] < L ≤ 60 [1524] | ± .2 [51] |
| 60 [1524] < L ≤ 120 [3048] | ± .4 [102] |
| 120 [3048] < L ≤ 300 [7620] | ± .6 [152] |
| 300 [7620] < L | ± .5% L / -0 |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | |

| | |
|---|------------|
| PE PASTERNAK® an INFINITI® brand Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com | |
| SIZE | A |
| CAGE CODE | 53919 |
| DRAWN BY | K.DANG |
| ITEM NO. | PE3C6658LF |
| REV | A |

| | |
|---|--------|
| THIRD-ANGLE PROJECTION | |
| | |
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| SHEET | 1 OF 1 |
| SCALE | N/A |

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