



QMA Male Right Angle to SMA Male Right Angle
Cable 50 cm Using LMR-240-UF Coax

RF Cable Assemblies Technical Data Sheet

PE3W08640-50CM

Configuration

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

Features

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

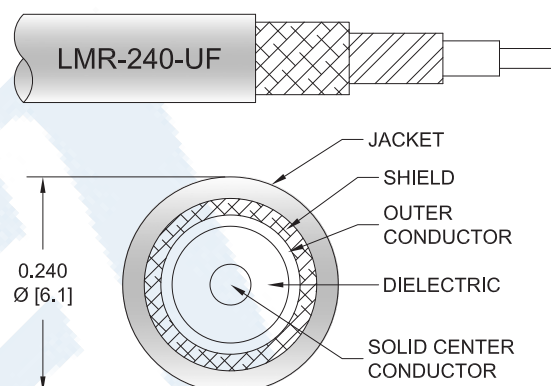
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W08640-50CM QMA male right angle to SMA male right angle 50 cm cable using LMR-240-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 QMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3W08640-50CM QMA male to SMA male cable assembly operates to 5.8 GHz. The right angle QMA and right angle SMA interfaces on the LMR-240-UF cable allow 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: [QMA Male Right Angle to SMA Male Right Angle Cable 50 cm Using LMR-240-UF Coax PE3W08640-50CM](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range | DC | | 5.8 | GHz |
| VSWR | | | 1.5:1 | |
| 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 | | 4.28 [14.04] | | 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 | 0.25 | 0.5 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Max.) | 0.48 | 0.51 | 0.56 | 0.65 | 0.8 | 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 is estimated as 0.2 dB per QMA male right angle connector and 0.2 dB per SMA male right angle connector.

Mechanical Specifications

Cable Assembly

Length* 19.68 in [499.87 mm]

Cable

Cable Type LMR-240-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 0.24 in [6.1 mm]

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| | |
|------------------------------|------------------------|
| One Time Minimum Bend Radius | 0.75 in [19.05 mm] |
| Repeated Minimum Bend Radius | 2.5 in [63.5 mm] |
| Bending Moment | 0.13 lbs-ft [0.18 N-m] |
| Flat Plate Crush | 13 lbs/in [0.23 Kg/mm] |
| Tensile Strength | 80 lbs [36.29 Kg] |

Connectors

| Description | Connector 1 | Connector 2 |
|--------------------------------------|------------------------|----------------------|
| Type | QMA Male Right Angle | SMA Male Right Angle |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Beryllium Copper, Gold | Brass, Gold |
| Contact Plating Specification | | 50 µin minimum |
| Dielectric Type | PTFE | PTFE |
| Outer Conductor Material and Plating | Brass, Nickel | Copper, Gold |
| Body Material and Plating | Brass, Nickel | Brass, Gold |
| Body Plating Specification | | 3 µin minimum |
| Coupling Nut Material and Plating | | Brass, Gold |
| Coupling Nut Plating Specification | | 3 µin minimum |
| Hex Size | | 5/16 inch |
| Torque | | 3 in-lbs [0.34 Nm] |

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W08640

- **xx**

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

Example: PE3W08640-12 = 12 inches long cable
PE3W08640-100cm = 100 cm long cable

QMA Male Right Angle to SMA Male Right Angle Cable 50 cm Using LMR-240-UF Coax 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: [QMA Male Right Angle to SMA Male Right Angle Cable 50 cm Using LMR-240-UF Coax PE3W08640-50CM](https://www.pasternack.com/qma-male-sma-male-lmr240uf-cable-assembly-pe3w08640-50cm-p.aspx)

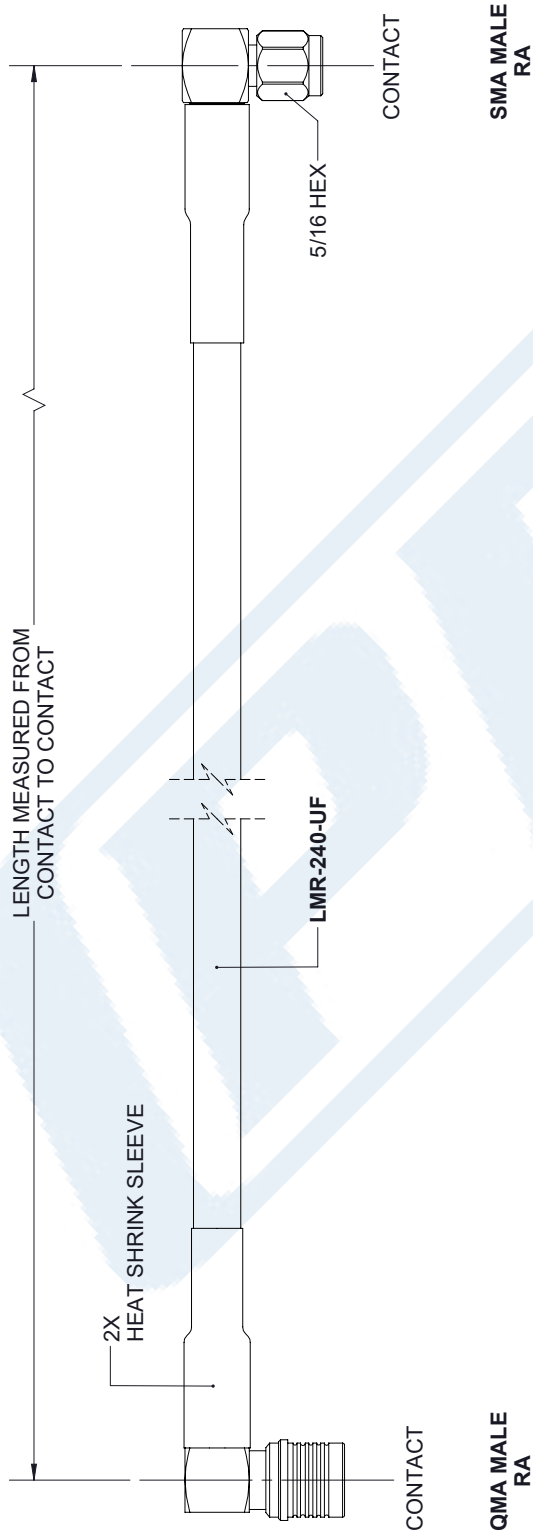
URL: <https://www.pasternack.com/qma-male-sma-male-lmr240uf-cable-assembly-pe3w08640-50cm-p.aspx>

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.

PE3W08640-50CM CAD Drawing

QMA Male Right Angle to SMA Male Right Angle Cable 50 cm Using LMR-240-UF Coax

| REVISIONS | | | |
|-----------|-----------------|-----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 1/29/2020 | S.ELLIS |



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

| | |
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| 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 | CAGE CODE |
| A | 53919 |
| DRAWN BY | ITEM NO. |
| K.DANG | PE3W08640 |
| REV | A |

| | |
|---|--------|
| THIRD-ANGLE PROJECTION | |
| | |
| THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED. | |
| SHEET | 1 OF 1 |
| SCALE | N/A |

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