

## Low Loss N Male to SMA Male Cable LMR-240 Coax in 60 Inch

The type N male to SMA male 60 inch cable using LMR-240 coax, part number FMC00439-60, from Fairview Microwave is in-stock and ships same day. This Fairview type N to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00439-60 type N male to SMA male cable assembly operates to 5.8 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB. General purpose flexible LMR-240 cable assemblies are built using high quality connectors and Times Microwaves cable. These cable assemblies are built using double shielded flexible cable providing excellent shielding greater than 90 dB. These general purpose cables are intended for, lab use, equipment interconnect and anywhere that lower insertion loss and greater shielding effectiveness than standard RG type cable is required.

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 RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

### Electrical Specifications

| Description                   | Min | Typ          | Max    | Units                            |
|-------------------------------|-----|--------------|--------|----------------------------------|
| Frequency Range               | DC  |              | 5.8    | GHz                              |
| VSWR                          |     |              | 1.35:1 |                                  |
| Velocity of Propagation       |     | 84           |        | %                                |
| RF Shielding                  | 90  |              |        | dB                               |
| 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]   |        | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |     | 3.89 [12.76] |        | $\Omega$ /1000ft [ $\Omega$ /Km] |

### Performance by Frequency

| Description           | F1   | F2  | F3   | F4   | F5   | Units |
|-----------------------|------|-----|------|------|------|-------|
| Frequency             | 0.25 | 0.5 | 1    | 2.5  | 5.8  | GHz   |
| Insertion Loss (Max.) | 0.37 | 0.4 | 0.48 | 0.85 | 1.22 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 60 in [152.4 cm]



### Configuration:

- N Male
- SMA Male
- LMR-240

### Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket
- N Male to N Male
- Times® LMR-240 Flexible Low Loss Coax
- Heat Shrink Booting
- VoP of 84%
- Custom lengths available

### Applications:

- General Purpose
- Laboratory Use
- General Purpose
- Wireless Communications
- Lab Use
- Equipment Interconnect

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**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                       | Tinned Copper    |
| Shield Layer 2                       | Aluminum Tape    |
| Jacket Material                      | PE, Black        |
| Jacket Diameter                      | 0.24 in [6.1 mm] |

**Connectors**

| Description                     | Connector 1            | Connector 2            |
|---------------------------------|------------------------|------------------------|
| Type                            | N Male                 | SMA Male               |
| Configuration                   | Straight               | Straight               |
| Impedance                       | 50 Ohms                | 50 Ohms                |
| Contact Material & Plating      | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Spec.           | ASTM-B488              |                        |
| Dielectric Type                 | PTFE                   | PTFE                   |
| Body Material & Plating         | Brass, Tri-Metal       | Brass, Tri-Metal       |
| Body Plating Spec.              | QQ-N-290               |                        |
| Coupling Nut Material & Plating | Brass, Tri-Metal       | Brass, Tri-Metal       |
| Coupling Nut Plating Spec.      | QQ-N-290               |                        |
| Hex Size                        |                        | 5/16 inch              |

**Environmental Specifications**
**Temperature**

Operating Range -40 to +85 deg C

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

**Plotted and Other Data**

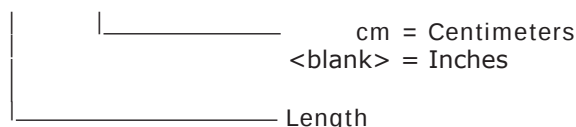
Notes:

- Values at 25°C, sea level.

**How to Order**

Part Number Configuration:

**FMC00439 - xx uu**



Example: FMC00439-12 = 12 inches long cable  
 FMC00439-100cm = 100 cm long cable

Low Loss N Male to SMA Male Cable LMR-240 Coax in 60 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

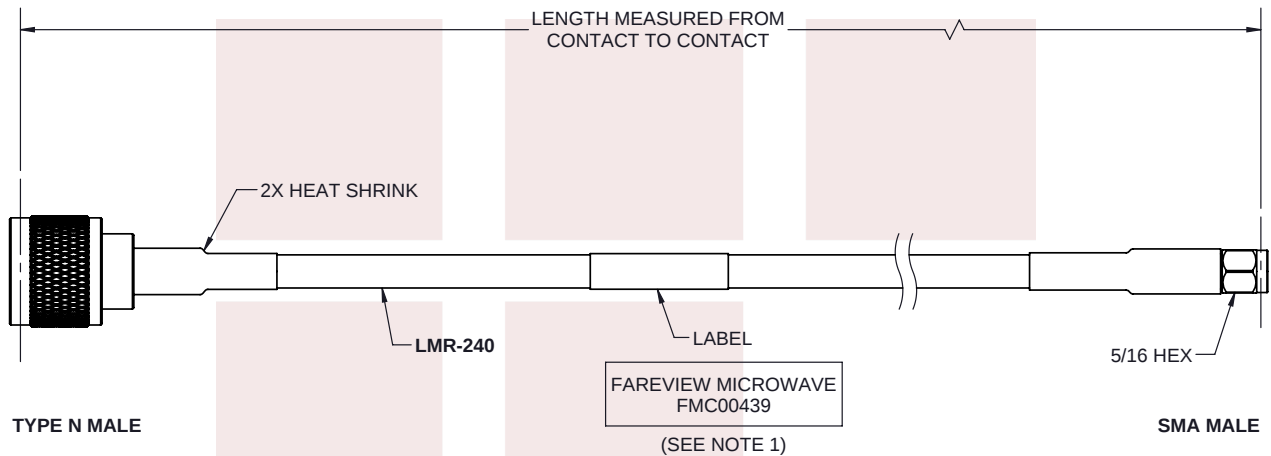
Click the following link to obtain additional part information: [Low Loss N Male to SMA Male Cable LMR-240 Coax in 60 Inch FMC00439-60](https://www.fairviewmicrowave.com/low-loss-n-male-sma-male-cable-lmr240-coax-fmc00439-60-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-loss-n-male-sma-male-cable-lmr240-coax-fmc00439-60-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 09/16/20 | S.ELLIS  |



**NOTES:**

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED.  
CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH  
END 6.0" FROM THE END OF THE CONNECTOR.

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| <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>Fairview Microwave™</div><div>an INFINITE® brand</div></div> |                 | <div>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES<br/>DIMENSIONS IN [ ] ARE MILLIMETERS</div> <div><div>TOLERANCES:</div><div><div>.X = ±.2 [ .508 ]</div><div>FRACTIONS</div><div>.XX = ±.02 [ .51 ]</div><div>± 1/32</div><div>.XXX = ±.005 [ .13 ]</div><div>ANGLES ± 1°</div></div></div> <div><div>CABLE LENGTH (L) TOLERANCES:</div><div><div>L ≤ 12 [305] = +1 [25] / -0</div><div>12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0</div><div>60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0</div><div>120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0</div><div>300 [7620] &lt; L = +5%L / -0</div></div></div> |                   |              |  | <div>THIRD-ANGLE PROJECTION</div> <div></div> <div>THE INFORMATION AND<br/>DESIGN IN THIS DOCUMENT<br/>IS THE PROPERTY OF<br/>FAIRVIEW MICROWAVE CORPORATION.<br/>ALL RIGHTS RESERVED.</div> |  |
| TITLE                                                                                                                                                                                           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |              |  |                                                                                                                                                                                                                                                                                   |  |
| Low Loss N Male to SMA Male Cable LMR-240 Coax in 60 Inch                                                                                                                                       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |              |  |                                                                                                                                                                                                                                                                                   |  |
|                                                                                                                                                                                                 |                 | ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | SHEET 1 OF 1 |  |                                                                                                                                                                                                                                                                                   |  |
|                                                                                                                                                                                                 |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | SCALE N/A    |  |                                                                                                                                                                                                                                                                                   |  |
| SIZE A                                                                                                                                                                                          | CAGE CODE 3FKR5 | DRAWN BY BPUCHASKI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ITEM NO. FMC00439 | REV A        |  |                                                                                                                                                                                                                                                                                   |  |

T-Rev.D