

## Low Loss SMA Male to N Male Cable LMR-400-DB Coax in 150 CM

The SMA male to type N male 150 cm cable using LMR-400-DB coax, part number FMC00239-150CM, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-DB coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00239-150CM SMA male to type N male cable assembly operates to 6 GHz. The double shielding of this Fairview 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 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  |              | 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 |     | 1.39 [4.56]  |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |     | 1.65 [5.41]  |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |     |              | 8,000 | Vrms                             |

### Performance by Frequency

| Description           | F1   | F2   | F3  | F4   | F5   | Units |
|-----------------------|------|------|-----|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1   | 2.5  | 6    | GHz   |
| Insertion Loss (Typ.) | 0.3  | 0.34 | 0.4 | 0.53 | 0.74 | 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 per connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 59.05 in [149.99 cm]  
 Diameter 0.827 in [21.01 mm]

#### Cable

Cable Type LMR-400-DB  
 Impedance 50 Ohms



### Configuration:

- SMA Male
- N Male
- LMR-400-DB

### Features:

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket

### Applications:

- General Purpose
- Laboratory Use

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|                                      |                        |
|--------------------------------------|------------------------|
| Inner Conductor Type                 | Solid                  |
| Inner Conductor Material and Plating | Copper Clad Aluminum   |
| 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                      | 0.405 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                       | 0.5 lbs-ft [0.68 N-m]  |
| Flat Plate Crush                     | 40 lbs/in [0.71 Kg/mm] |
| Tensile Strength                     | 160 lbs [72.57 Kg]     |

### Connectors

| Description                     | Connector 1      | Connector 2     |
|---------------------------------|------------------|-----------------|
| Type                            | SMA Male         | N Male          |
| Impedance                       | 50 Ohms          | 50 Ohms         |
| Contact Material & Plating      | Brass, Gold      | Brass, Gold     |
| Contact Plating Spec.           | 50µ" Min         | 3 µin minimum   |
| Dielectric Type                 | Teflon           | PTFE            |
| Body Material & Plating         | Brass, Tri-Metal | Brass, Nickel   |
| Body Plating Spec.              |                  | 100 µin minimum |
| Coupling Nut Material & Plating | Brass, Tri-Metal | Brass, Nickel   |
| Coupling Nut Plating Spec.      |                  | 100 µin minimum |

### Environmental Specifications

#### Temperature

|                 |                  |
|-----------------|------------------|
| Operating Range | -40 to +85 deg C |
| Storage Range   | -70 to +85 deg C |

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

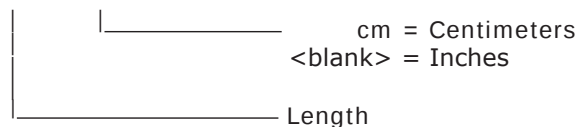
### Plotted and Other Data

Notes:

### How to Order

Part Number Configuration:

**FMC00239 - xx uu**



Example: FMC00239-12 = 12 inches long cable  
 FMC00239-100cm = 100 cm long cable

Low Loss SMA Male to N Male Cable LMR-400-DB Coax in 150 CM 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 SMA Male to N Male Cable LMR-400-DB Coax in 150 CM FMC00239-150CM](https://www.fairviewmicrowave.com/low-loss-sma-male-n-male-cable-lmr400db-coax-fmc00239-150cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-loss-sma-male-n-male-cable-lmr400db-coax-fmc00239-150cm-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 | 2/24/2020 | S.ELLIS  |  |  |

5/16 HEX

2X HEAT SHRINK SLEEVE

LENGTH MEASURED FROM CONTACT TO CONTACT

CONTACT

SMA MALE

LMR-400-DB

CONTACT

N MALE

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|-----------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <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 |                 | THIRD-ANGLE PROJECTION<br><br>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. |           |
| TITLE                                                                                                                                   |  | TOLERANCES:                                                                                   |                 | CABLE LENGTH (L) TOLERANCES:                                                                                                                      |           |
| Low Loss SMA Male to N Male Cable LMR-400-DB Coax in 150 CM                                                                             |  | .X = ±.2 [5.08] FRACTIONS ± 1/32                                                              |                 | L ≤ 12 [305] = +1 [25] / -0                                                                                                                       |           |
|                                                                                                                                         |  | .XX = ±.02 [.51] ANGLES ± 1°                                                                  |                 | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0                                                                                                           |           |
|                                                                                                                                         |  | .XXX = ±.005 [.13]                                                                            |                 | 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0                                                                                                        |           |
|                                                                                                                                         |  | ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.                                                  |                 | SHEET 1 OF 1                                                                                                                                      |           |
| SIZE A                                                                                                                                  |  | CAGE CODE 3FKR5                                                                               | DRAWN BY K.DANG | ITEM NO. FMC00239                                                                                                                                 | SCALE N/A |
|                                                                                                                                         |  |                                                                                               |                 | REV A                                                                                                                                             |           |

T-Rev.D