

## Low Loss N Male to RP TNC Male Cable LMR-240 Coax

The type N male to RP TNC male 150 cm cable using LMR-240 coax, part number FMCA2379-150CM, from Fairview Microwave is in-stock and ships same day. This Fairview type N to reverse polarity TNC 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 FMCA2379-150CM type N male to reverse polarity TNC 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.

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                                 |     |              | 1.4:1 |                                  |
| 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]   |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor        |     | 3.89 [12.76] |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Operating Voltage (DC)               |     |              | 2,500 | Vdc                              |
| Dielectric Withstanding Voltage (AC) |     |              | 1,500 | Vrms                             |
| Dielectric Withstanding Voltage (DC) |     |              | 1,500 | Vdc                              |
| Jacket Spark                         |     |              | 5,000 | Vrms                             |
| Input Power (Peak)                   |     |              | 5.6   | KWatts                           |

### Performance by Frequency

| Description           | F1   | F2   | F3  | F4  | F5   | Units |
|-----------------------|------|------|-----|-----|------|-------|
| Frequency             | 0.25 | 0.5  | 1   | 2.5 | 5.8  | GHz   |
| Insertion Loss (Typ.) | 0.35 | 0.45 | 0.6 | 0.9 | 1.35 | 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 0.1 dB for the straight connector and  $0.1 \times \sqrt{\text{FGHz}}$  dB for the straight connector.

### Mechanical Specifications

#### Cable Assembly

Length\*

59.06 in [150.01 cm]



### Configuration:

- N Male
- TNC Male Reverse Polarity
- LMR-240

### Features:

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

### Applications:

- General Purpose
- Laboratory Use

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Diameter 0.89 in [22.61 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    |
| 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                            | N Male           | TNC Male              |
| Polarity                        |                  | Reverse Polarity      |
| Specification                   | MIL-STD-348      |                       |
| Impedance                       | 50 Ohms          | 50 Ohms               |
| Contact Material & Plating      | Brass, Gold      | Phosphor Bronze, Gold |
| Dielectric Type                 | PTFE             | Teflon                |
| Body Material & Plating         | Brass, Tri-Metal | Brass, Nickel         |
| Coupling Nut Material & Plating | Brass, Tri-Metal | Brass, Nickel         |

### 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:

**FMCA2379 - xx uu**

\_\_\_\_\_ cm = Centimeters  
 \_\_\_\_\_ <blank> = Inches  
 \_\_\_\_\_ Length

Example: FMCA2379-12 = 12 inches long cable  
 FMCA2379-100cm = 100 cm long cable

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

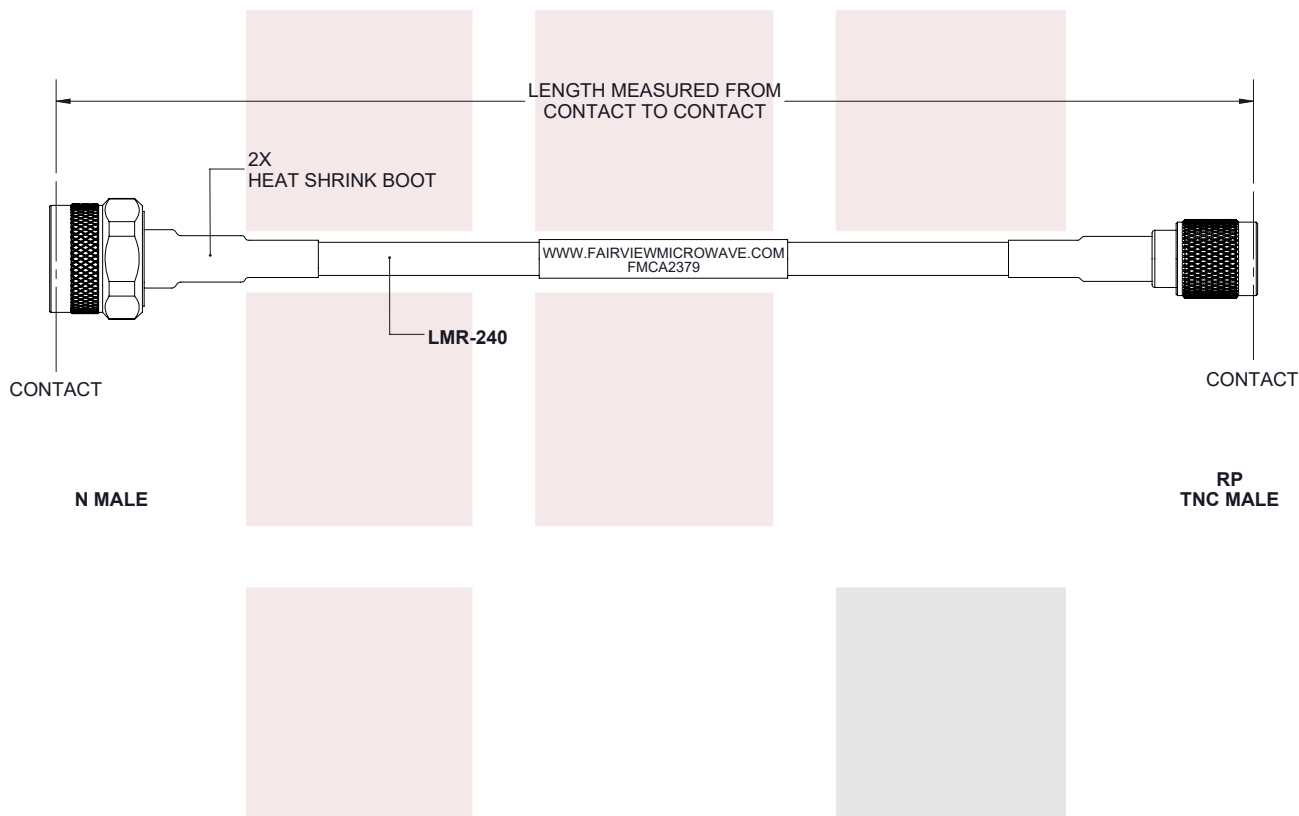
Click the following link to obtain additional part information: [Low Loss N Male to RP TNC Male Cable LMR-240 Coax FMCA2379-150CM](https://www.fairviewmicrowave.com/low-loss-n-male-tnc-male-cable-lmr240-coax-fmca2379-150cm)

URL: <https://www.fairviewmicrowave.com/low-loss-n-male-tnc-male-cable-lmr240-coax-fmca2379-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 | 4/16/2021 | 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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| <p>Low Loss N Male to RP TNC Male Cable LMR-240 Coax</p>          |  | <p>CABLE LENGTH (L) TOLERANCES:</p>                                                                   |  | <p>SHEET 1 OF 1</p>                                                                                                        |  |
| <p>SIZE A</p>                                                     |  | <p>CAGE CODE 3FKR5</p>                                                                                |  | <p>SCALE N/A</p>                                                                                                           |  |
| <p>DRAWN BY K.DANG</p>                                            |  | <p>ITEM NO. FMCA2379</p>                                                                              |  | <p>REV A</p>                                                                                                               |  |

T-Rev.D

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