

## Low Loss N Male to TNC Male Cable LMR-240 Coax with Times Microwave Components

The type N male to TNC male cable using LMR-240 coax, part number FMC00455, from Fairview Microwave is in-stock and ships same day. This Fairview type N to 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 FMC00455 type N male to 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]   |       | $\Omega/1000\text{ft}$ [ $\Omega/\text{Km}$ ] |
| DC Resistance Outer Conductor |     | 3.89 [12.76] |       | $\Omega/1000\text{ft}$ [ $\Omega/\text{Km}$ ] |
| Jacket Spark                  |     |              | 5,000 | Vrms  |

### Performance by Frequency

| Description           | F1    | F2    | F3    | F4    | F5    | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency             | 0.25  | 0.5   | 1     | 2.5   | 5.8   | GHz   |
| Insertion Loss (Typ.) | 0.039 | 0.055 | 0.079 | 0.129 | 0.204 | dB/ft |
|                       | 0.13  | 0.18  | 0.26  | 0.42  | 0.67  | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.167 lbs [75.75 g]

#### Cable

Cable Type LMR-240  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper



### Configuration:

- N Male
- TNC Male
- LMR-240

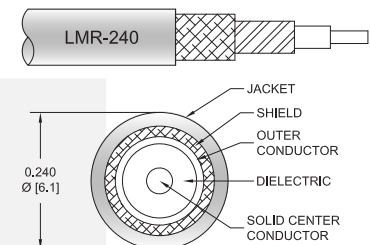
### Features:

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

### Applications:

- General Purpose
- Laboratory Use

### Cable Diagram:



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|                              |                        |
|------------------------------|------------------------|
| 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         |
| Impedance                       | 50 Ohms          | 50 Ohms          |
| Contact Material & Plating      | Brass, Gold      | Brass, Gold      |
| Dielectric Type                 | PTFE             | Teflon           |
| Body Material & Plating         | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Material & Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Hex Size                        | 13/16 inch       |                  |

**Environmental Specifications**
**Temperature**

Operating Range -40 to +85 deg C

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMC00455 - xx uu**

 cm = Centimeters  
 <blank> = Inches  
 Length

 Example: FMC00455-12 = 12 inches long cable  
 FMC00455-100cm = 100 cm long cable

Low Loss N Male to TNC Male Cable LMR-240 Coax with Times Microwave Components 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 TNC Male Cable LMR-240 Coax with Times Microwave Components FMC00455](#)

URL: <https://www.fairviewmicrowave.com/low-loss-n-male-to-tnc-male-cable-lmr-240-coax-with-times-microwave-components-fmc00455-p.aspx>

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