

Low Loss N Male to RA TNC Male Cable LMR-240-UF Coax in 36 Inch

The type N male to RA TNC male 36 inch cable using LMR-240-UF coax, part number FMC00478-36, 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-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00478-36 type N male to TNC male cable assembly operates to 5.8 GHz. The right angle TNC interface on the LMR-240-UF cable allows for easier connections in tight spaces. 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 | | 4.28 [14.04] | | Ω /1000ft [Ω /Km] |
| DC Resistance Outer Conductor | | 3.89 [12.76] | | Ω /1000ft [Ω /Km] |
| Operating Voltage (DC) | | | 2,500 | Vdc |
| 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.) | 0.32 | 0.39 | 0.49 | 0.7 | 1.01 | 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 0.15 dB for the right angle connector and $0.1 \cdot \sqrt{\text{FGHz}}$ dB for the straight connector.

Mechanical Specifications

Cable Assembly
 Length*

36 in [914.4 mm]



Configuration:

- N Male
- TNC Male Right Angle
- 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

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Diameter 0.24 in [6.1 mm]
 Weight 0.03 lbs [13.61 g]

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]
 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 | N Male | TNC Male |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Brass, Gold | Brass, Gold |
| Contact Plating Spec. | 50 μinch | |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Brass, Tri-Metal | Brass, Nickel |
| Body Plating Spec. | 80 μinch | |
| Coupling Nut Material & Plating | Brass, Tri-Metal | Brass, Nickel |
| Coupling Nut Plating Spec. | 80 μinch | |
| Hex Size | 13/16 inch | |
| Torque | 15.05 in-lbs 1.7 Nm | |
| Seal Gasket Material | Silicone | |

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:

FMC00478 - xx uu



Example: FMC00478-12 = 12 inches long cable
FMC00478-100cm = 100 cm long cable

Low Loss N Male to RA TNC Male Cable LMR-240-UF Coax in 36 Inch 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 RA TNC Male Cable LMR-240-UF Coax in 36 Inch FMC00478-36](#)

URL: <https://www.fairviewmicrowave.com/n-male-ra-tnc-male-cable-lmr240uf-coax-fmc00478-36-p.aspx>

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