

## Low Loss SMA Male to TNC Male Cable LMR-240-UF Coax in 60 Inch with Times Microwave Components

### FMC00990-60



#### Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male
- Cable Type: LMR-240-UF
- Coax Flex Type: Flexible

#### Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- TPE Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

The SMA male to TNC male 60 inch cable using LMR-240-UF coax, part number FMC00990-60, from Fairview Microwave is in-stock and ships same day. This Fairview SMA 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 FMC00990-60 SMA male to TNC male cable assembly operates to 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                   | Minimum | Typical      | Maximum | Units                 |
|-------------------------------|---------|--------------|---------|-----------------------|
| Frequency Range               | DC      |              | 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] |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor |         | 3.89 [12.76] |         | Ohms/1000ft [Ohms/Km] |

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**Electrical Specifications**

| Description  | Minimum | Typical | Maximum | Units |
|--------------|---------|---------|---------|-------|
| Jacket Spark |         |         | 5,000   | Vrms  |

**Specifications by Frequency**

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.5  | 1    | 2    | 4    | 8    | GHz   |
| Insertion Loss (Typ.) | 0.53 | 0.68 | 0.89 | 0.98 | 1.42 | dB    |

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**

|                |                      |
|----------------|----------------------|
| Length         | 60 in [152.4 cm]     |
| Width/Diameter | 0.5 in [12.7 mm]     |
| Weight         | 0.223 lbs [101.15 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]      |

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**Connectors**

| Description                          | Connector 1                      | Connector 2           |
|--------------------------------------|----------------------------------|-----------------------|
| Type                                 | SMA Male                         | TNC Male              |
| Specification                        | MIL-STD-348                      |                       |
| Impedance                            | 50 Ohms                          | 50 Ohms               |
| Configuration                        | Straight                         | Straight              |
| Mating Cycles                        |                                  | 500                   |
| Contact Material and Plating         | Beryllium Copper, Gold           | Phosphor Bronze, Gold |
| Contact Plating Specification        | ASTM B488                        | 50μ in. minimum       |
| Dielectric Type                      | PTFE                             | PTFE                  |
| Outer Conductor Material and Plating | Passivated Stainless Steel, Gold | Brass, Tri-Metal      |
| Body Material and Plating            | Passivated Stainless Steel, Gold | Brass, Tri-Metal      |
| Body Plating Specification           | SAE-AMS-2700                     | 80μ in. minimum       |
| Coupling Nut Material and Plating    | Passivated Stainless Steel       | Brass, Tri-Metal      |
| Coupling Nut Plating Specification   | SAE-AMS-2700                     | 80μ in. minimum       |
| Torque                               |                                  | 20 in-lbs 2.26 Nm     |

**Environmental Specifications**

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

**Plotted and Other Data**

Notes:

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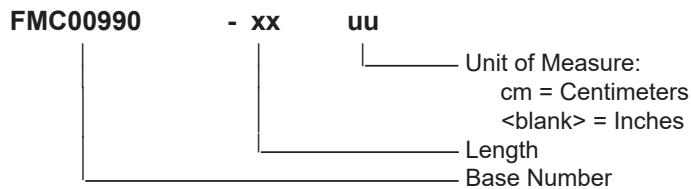


**FMC00990-60**

**Typical Performance Data**

**How to Order**

Part Number Configuration:



Example: FMC00990-12 = 12 inches long cable  
FMC00990-100cm = 100 cm long cable

Low Loss SMA Male to TNC Male Cable LMR-240-UF Coax in 60 Inch with Times Microwave Components from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Low Loss SMA Male to TNC Male Cable LMR-240-UF Coax in 60 Inch with Times Microwave Components FMC00990-60](#)

URL: <https://www.fairviewmicrowave.com/low-loss-sma-male-to-tnc-male-cable-lmr-240-uf-coax-in-60-inch-with-times-microwave-components-fmc00990-60-p.aspx>

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# FMC00990-60 CAD Drawing

Low Loss SMA Male to TNC Male Cable LMR-240-UF Coax in 60 Inch with Times Microwave Components

