

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

The SMA male to TNC male 60 inch cable using LMR-240 coax, part number FMCA2160-60, 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 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2160-60 SMA 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 |
| 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] | | Ω /1000ft [Ω /Km] |
| DC Resistance Outer Conductor | | 3.89 [12.76] | | Ω /1000ft [Ω /Km] |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-----|-----|------|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Typ.) | 0.4 | 0.5 | 0.6 | 0.84 | 1.22 | 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* | 60 in [152.4 cm] |
| Diameter | 0.593 in [15.06 mm] |
| Weight | 0.22 lbs [99.79 g] |

Cable

| | |
|----------------------|---------|
| Cable Type | LMR-240 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |



Configuration:

- SMA 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

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| | |
|--------------------------------------|------------------|
| Inner Conductor Material and Plating | Copper |
| Dielectric Type | PE (F) |
| Number of Shields | 2 |
| Shield Layer 1 | Tinned Copper |
| Shield Layer 2 | Aluminum Tape |
| Jacket Material | PE, Black |
| Jacket Diameter | 0.24 in [6.1 mm] |

Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------|------------------------|------------------------|
| Type | SMA Male | TNC Male |
| Configuration | Straight | Straight |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Spec. | 50 µin | 50 µin |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Brass, Tri-Metal | Brass, Nickel |
| Body Plating Spec. | 80 µin | 80 µin |
| Coupling Nut Material & Plating | Brass, Tri-Metal | Brass, Nickel |
| Coupling Nut Plating Spec. | 80 µin | 80 µin |
| Hex Size | 5/16 inch | |
| Seal Gasket Material | | Silicone |

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:

FMCA2160 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

Example: FMCA2160-12 = 12 inches long cable
 FMCA2160-100cm = 100 cm long cable

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

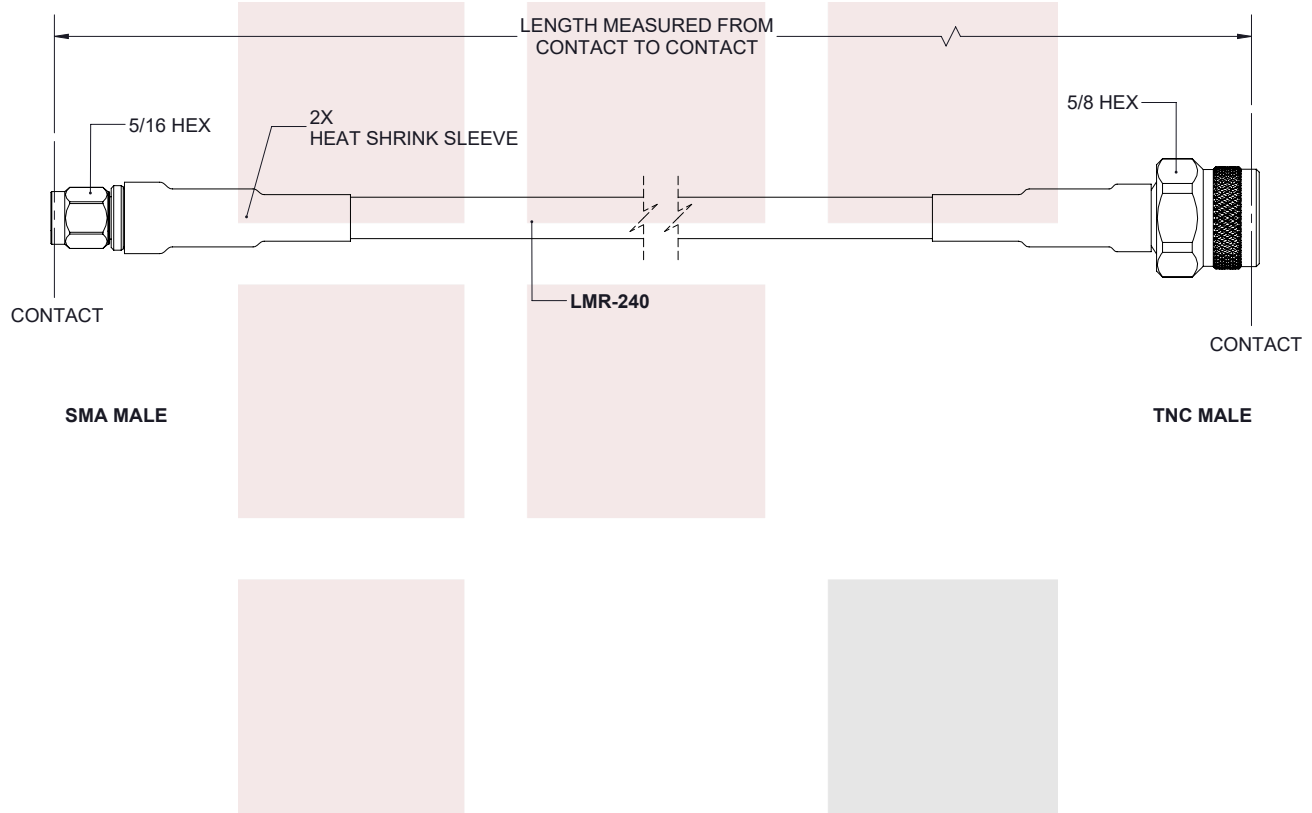
Click the following link to obtain additional part information: [Low Loss SMA Male to TNC Male Cable LMR-240 Coax in 60 Inch with Times Microwave Connectors FMCA2160-60](#)

URL: <https://www.fairviewmicrowave.com/low-loss-sma-male-tnc-male-cable-lmr240-coax-fmca2160-60-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 | 3/27/2020 | S.ELLIS |



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TITLE
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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

| | | | |
|----------------------|------------------|---|--|
| TOLERANCES: | | CABLE LENGTH (L) TOLERANCES: | |
| .X = ±.2 [.508] | FRACTIONS ± 1/32 | L ≤ 12 [305] = +1 [25] / -0 | |
| .XX = ±.02 [.51] | | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 | |
| .XXX = ±.005 [.13] | ANGLES ± 1° | 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 | |
| | | 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 | |
| | | 300 [7620] < L = +5%L / -0 | |

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

| | | | | |
|-----------|--------------------|--------------------|----------------------|----------|
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY K.DANG | ITEM NO. FMCA2160 | REV A |
|-----------|--------------------|--------------------|----------------------|----------|

T-Rev.D