

SMA Male to SMA Male Cable FM-SR141TB Coax in 60 Inch

The SMA male to SMA male 60 inch cable using FM-SR141TB coax, part number FMCA2110-60, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm formable FM-SR141TB coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. The FMCA2110-60 SMA male to SMA male cable assembly operates to 18 GHz.

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 | | 18 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 69.5 | | % |
| RF Shielding | 110 | | | dB |
| Capacitance | | 29 [95.14] | | pF/ft [pF/m] |
| DC Resistance Inner Conductor | | 7.8 [25.59] | | Ω /1000ft [Ω /Km] |
| DC Resistance Outer Conductor | | 5.5 [18.04] | | Ω /1000ft [Ω /Km] |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-----|------|------|------|------|-------|
| Frequency | 1 | 2 | 4.5 | 9 | 18 | GHz |
| Insertion Loss (Typ.) | 0.8 | 1.01 | 1.54 | 2.29 | 3.45 | 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 | 0.315 in [8 mm] |

Cable

| | |
|--------------------------------------|-------------------------------|
| Cable Type | FM-SR141TB |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PTFE |
| Outer Conductor Material and Plating | Tinned Copper Composite Braid |



Configuration:

- SMA Male
- SMA Male
- FM-SR141TB

Features:

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity
- Dimensionally and electrically the same as standard, solid outer conductor semi-rigid coax
- Cable may be formed by hand and does not require special tools to bend
- May be formed more than once without damaging the outer conductor
- High RF Shielding >100 dB
- 100% Hi-pot and continuity tested
- 100% VSWR tested to max frequency of assembly
- Standard and custom lengths ship the same day

Applications:

- General Purpose
- Laboratory Use

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Repeated Minimum Bend Radius 0.625 in [15.88 mm]

Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------|----------------------------|----------------------------|
| Type | SMA Male | SMA Male |
| Impedance | 50 Ohms | 50 Ohms |
| Body Material & Plating | Brass, Gold over Nickel | Brass, Gold over Nickel |
| Coupling Nut Material & Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Hex Size | 5/16 inch | 5/16 inch |
| Torque | 8 in-lbs 0.9 Nm | 8 in-lbs 0.9 Nm |

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMCA2110 - xx uu

cm = Centimeters
 <blank> = Inches

Length

Example: FMCA2110-12 = 12 inches long cable
 FMCA2110-100cm = 100 cm long cable

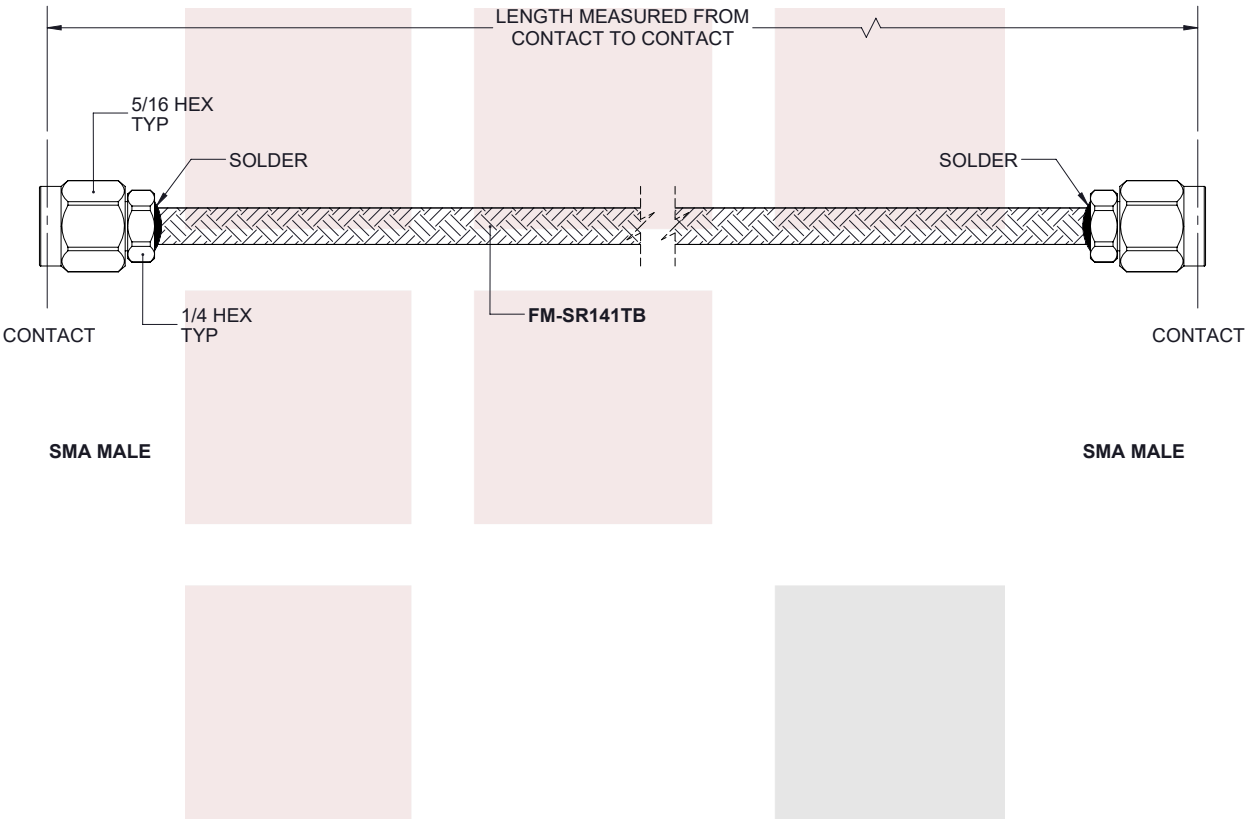
SMA Male to SMA Male Cable FM-SR141TB Coax in 60 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMA Male to SMA Male Cable FM-SR141TB Coax in 60 Inch FMCA2110-60](#)

URL: <https://www.fairviewmicrowave.com/sma-male-sma-male-cable-fm-sr141tb-coax-fmca2110-60-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 | 11/26/19 | S.ELLIS |



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|--|--------------------|--|-------------------------|---|--|
| <div><div><div></div><div></div><div></div><div></div></div><div><div>Fairview Microwave</div><div>an INFINITE brand</div></div></div> | | UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | | THIRD-ANGLE PROJECTION | |
| TITLE SMA Male to SMA Male Cable FM-SR141TB Coax in 60 Inch | | TOLERANCES: | | CABLE LENGTH (L) TOLERANCES: | |
| | | .X = ±.2 [.51] FRACTIONS ± 1/32 .XX = ±.02 [.51] ± 1/32 .XXX = ±.005 [.13] ANGLES ± 1° | | L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0 | |
| | | ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | | SHEET 1 OF 1 | |
| | | SCALE N/A | | | |
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY K.DANG | PART NUMBER FMCA2110 | REV A | |

T-Rev.D