

**SMA Male to SMA Male Cable FM-F141 Coax and RoHS**

The SMA male to SMA male cable using FM-F141 coax, part number SCA18140101, 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 flexible FM-F141 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The SCA18140101 SMA male to SMA male cable assembly operates to 18 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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            |     |     | 1.3:1 |       |
|                 |     |     |       | dB/m  |
|                 |     |     |       | dB/m  |

**Mechanical Specifications**

**Cable Assembly**

**Cable**

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | FM-F141                    |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Solid                      |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver  |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 2                          |
| Shield Layer 1                       | Silver Plated Copper Tape  |
| Shield Layer 2                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP, Blue                  |
| Jacket Diameter                      | 0.163 in [4.14 mm]         |



**Configuration:**

- SMA Male
- SMA Male
- FM-F141

**Features:**

- Max Frequency 18 GHz
- Double Shielded
- FEP Jacket

**Applications:**

- General Purpose
- Laboratory Use

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**Connectors**

| Description                     | Connector 1                | Connector 2                |
|---------------------------------|----------------------------|----------------------------|
| Type                            | SMA Male                   | SMA Male                   |
| Configuration                   | Straight                   | Straight                   |
| Impedance                       | 50 Ohms                    | 50 Ohms                    |
| Contact Material & Plating      | Brass, Gold                | Brass, Gold                |
| Dielectric Type                 | PTFE                       | PTFE                       |
| Body Material & Plating         | Passivated Stainless Steel | Passivated Stainless Steel |
| 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 ± 3/8", whichever is greater.

**Environmental Specifications**

**Temperature**

Operating Range -30 to +105 deg C

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration: **SCA18140101 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

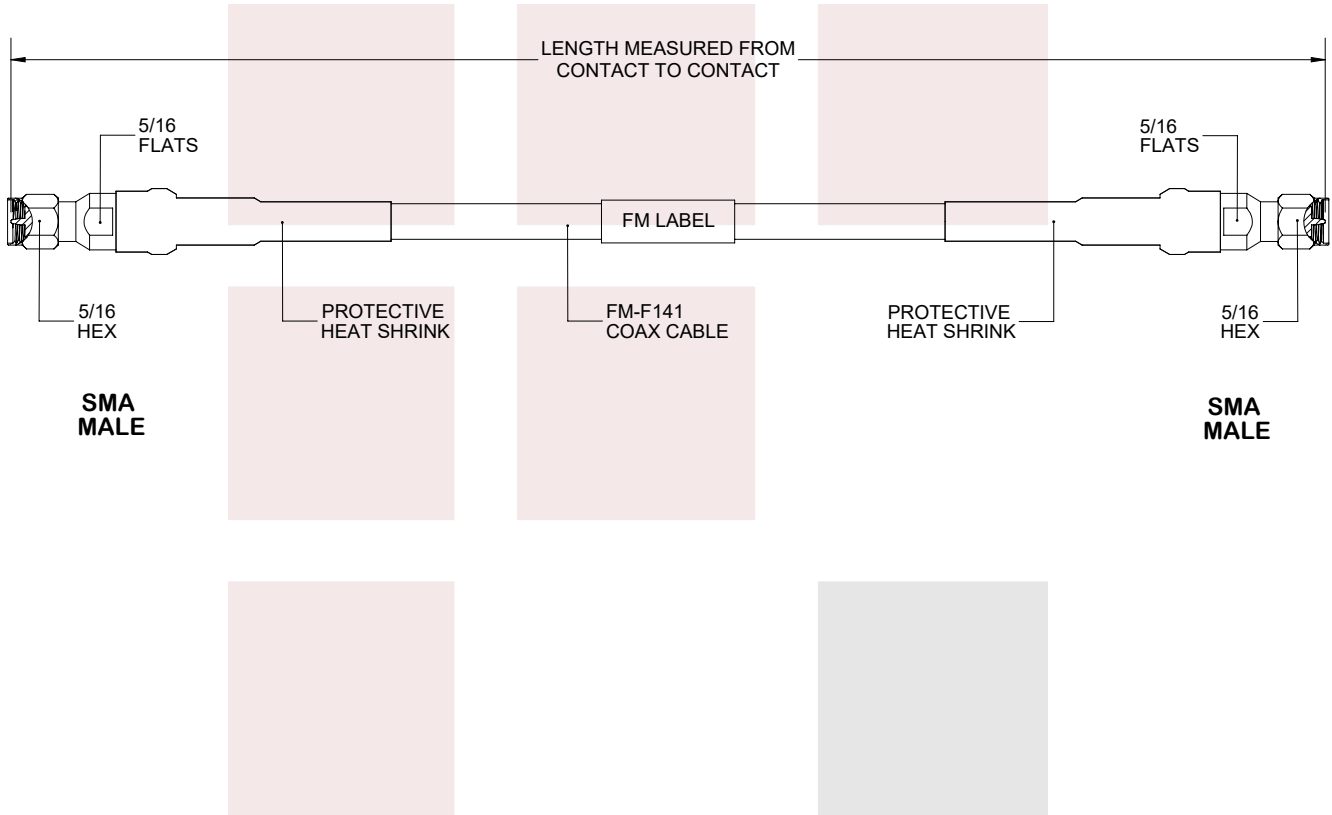
Example: SCA18140101-12 = 12 inches long cable  
 SCA18140101-100cm = 100 cm long cable

SMA Male to SMA Male Cable FM-F141 Coax and RoHS 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-F141 Coax and RoHS SCA18140101](#)

URL: <https://www.fairviewmicrowave.com/sma-male-sma-male-cable-fm-f141-coax-sca18140101-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.



| STANDARD TOLERANCES |        |
|---------------------|--------|
| .X                  | ±0.2   |
| .XX                 | ±0.01  |
| .XXX                | ±0.005 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

|   |        |   |        |                    |      |
|---|--------|---|--------|--------------------|------|
| <b>FAIRVIEW MICROWAVE INC.</b><br>ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM |        | NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. |        |                    |      |
| TITLE<br>SMA Male to SMA Male Cable FM-F141 Coax and RoHS                   |        | DWG NO<br>SCA18140101   |        | CAGE CODE<br>3FKR5 |      |
| CAD FILE  | 092117 | SHEET   | 1 OF 1 | SCALE              | N/A  |
|   |        |   |        | SIZE               | A    |
|   |        |   |        |                    | 7361 |