

SMA Male (Plug) to SMA Male (Plug) Cable FM-F141 Coax Up To 18 GHz, 1.3 VSWR in 96 Inch and RoHS

The SMA male to SMA male 96 inch cable using FM-F141 coax, part number SCA52141-96, 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 SCA52141-96 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 | |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-----|------|----|----|-------|
| Frequency | 1 | 10 | 18 | | | GHz |
| Insertion Loss (Typ.) | 1.04 | 3.6 | 5.12 | | | dB |

Electrical Specification Notes:

Insertion loss does not include the loss of the connectors.

Insertion loss is estimated as $0.05 \times \sqrt{f(\text{GHz})}$ dB per connector.

Mechanical Specifications

Cable Assembly

Length* 96 in [243.84 cm]

Weight 0.247 lbs [112.04 g]

Cable

Cable Type FM-F141

Impedance 50 Ohms

Inner Conductor Type Solid

Inner Conductor Material and Plating Copper, 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:

-

Applications:

-

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Connectors

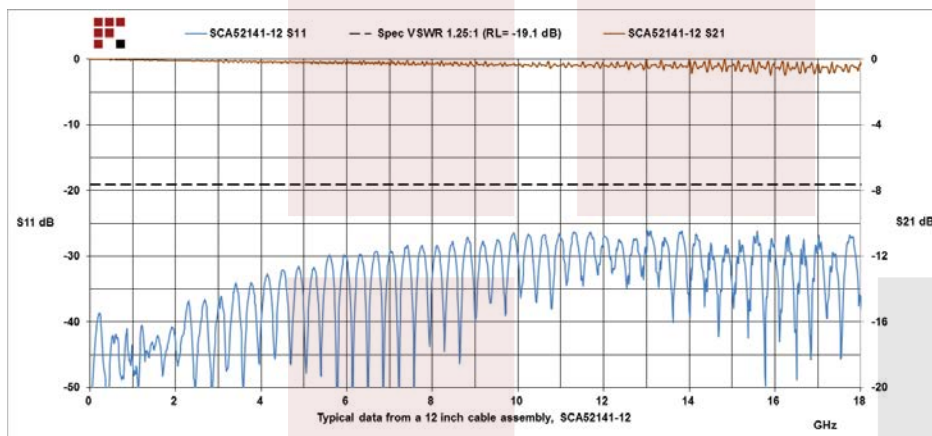
| Description | Connector 1 | Connector 2 |
|---------------------------------|----------------------------|----------------------------|
| Type | SMA Male | SMA Male |
| Configuration | Straight | Straight |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Brass, Gold | Brass, Gold |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Brass, Gold | Brass, Gold |
| Coupling Nut Material & Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Hex Size | 5/16 inch | 5/16 inch |
| Torque | 5 in-lbs 0.57 Nm | 5 in-lbs 0.57 Nm |

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

Plotted and Other Data

Notes:

Typical Performance Data



How to Order

Part Number Configuration:

SCA52141 - xx uu

cm = Centimeters
<blank> = Inches
Length

Example: SCA52141-12 = 12 inches long cable
SCA52141-100cm = 100 cm long cable

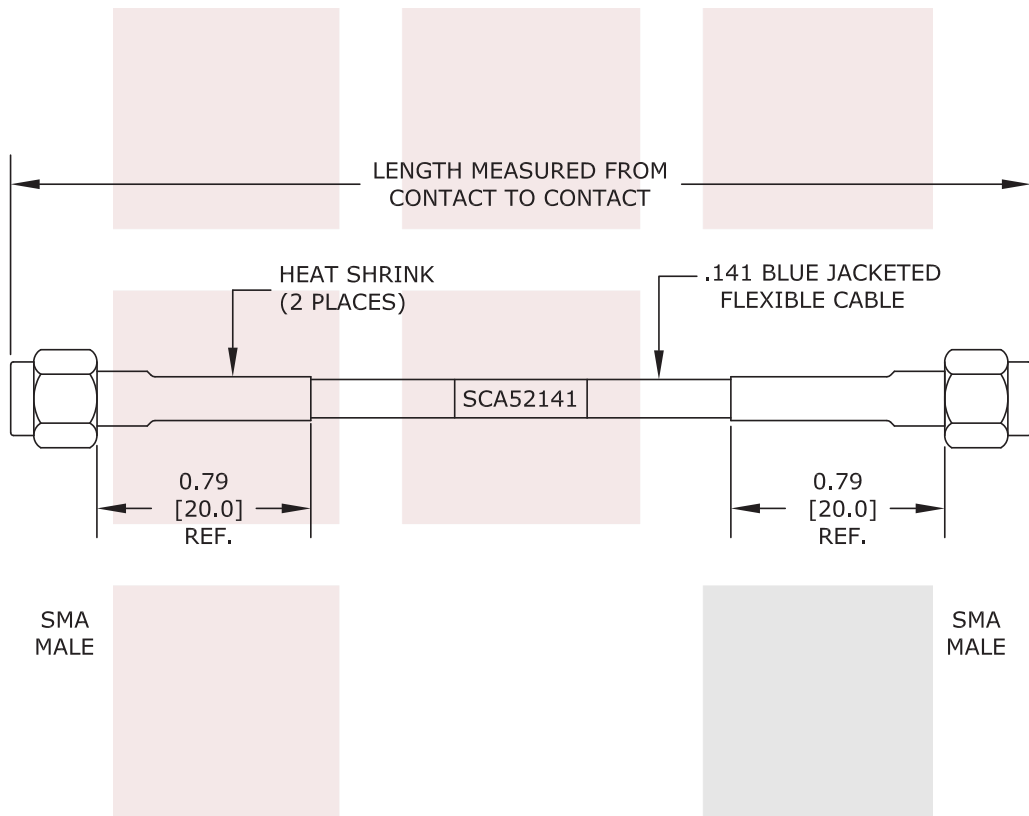
SMA Male (Plug) to SMA Male (Plug) Cable FM-F141 Coax Up To 18 GHz, 1.3 VSWR in 96 Inch and RoHS from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMA Male \(Plug\) to SMA Male \(Plug\) Cable FM-F141 Coax Up To 18 GHz, 1.3 VSWR in 96 Inch and RoHS SCA52141-96](https://www.fairviewmicrowave.com/sma-male-sma-male-cable-fm-f141-coax-sca52141-96-p.aspx)

URL: <https://www.fairviewmicrowave.com/sma-male-sma-male-cable-fm-f141-coax-sca52141-96-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.





NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM THE END OF THE CONNECTOR.

| STANDARD TOLERANCES | |
|---------------------|-------|
| .X | ±0.2 |
| .XX | ±0.1 |
| .XXX | ±0.05 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| | | | |
|--|--------|---|------------------------|
| FAIRVIEW MICROWAVE INC. | | NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm]. | |
| ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | | |
| TITLE SMA Male (Plug) to SMA Male (Plug) Cable FM-F141 Coax Up To 18 GHz, 1.3 VSWR in 96 Inch and RoHS | | DWG NO SCA52141 | CAGE CODE 3FKR5 |
| CAD FILE | 101916 | SHEET | SCALE N/A SIZE A 41742 |