

## SMA Male to SMA Male Cable RG402 Type .141 Coax in 48 Inch

The SMA male to SMA male 48 inch cable using RG402 type .141 coax, part number FMCA2816-48, 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 semi-rigid FM-SR141CU-STR coax. Fairview Microwave's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. The FMCA2816-48 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			1.5:1	
Capacitance		29.9 [98.1]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)			1,000	Vrms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.68	0.83	1.2	1.86	2.8	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax 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\* 48 in [121.92 cm]  
Weight 0.144 lbs [65.32 g]

#### Cable

Cable Type FM-SR141CU-STR  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 1  
Shield Layer 1 Copper



### Configuration:

- SMA Male
- SMA Male
- FM-SR141CU-STR

### Features:

- Max Frequency 18 GHz

### Applications:

- General Purpose
- Laboratory Use

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**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Contact Plating Spec.	50μ in. minimum	50μ in. minimum
Dielectric Type	Teflon	Teflon
Body Material & Plating	Stainless Steel, Gold	Stainless Steel, Gold
Body Plating Spec.	10μ in. minimum	10μ in. minimum
Coupling Nut Material & Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Spec.	100μ in. minimum	100μ in. minimum
Hex Size	5/16 in	5/16 in
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:

- Values at 25°C, sea level.

**How to Order**

Part Number Configuration:

**FMCA2816 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMCA2816-12 = 12 inches long cable  
 FMCA2816-100cm = 100 cm long cable

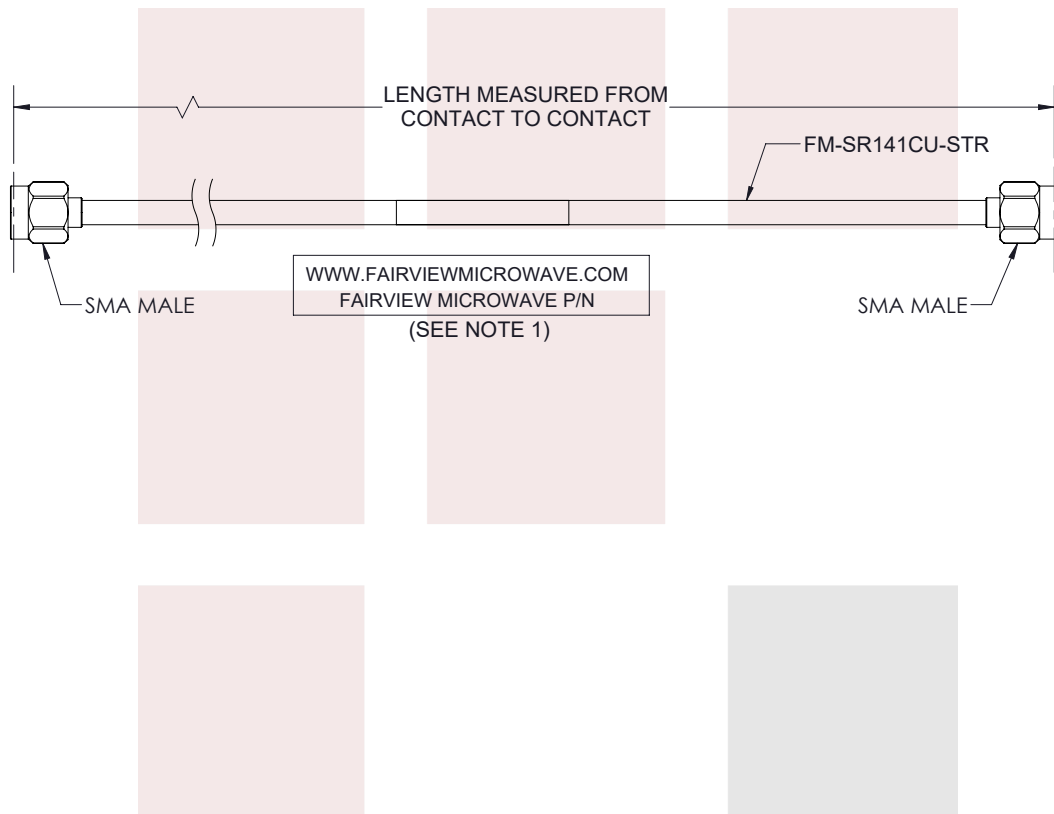
SMA Male to SMA Male Cable RG402 Type .141 Coax in 48 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMA Male to SMA Male Cable RG402 Type .141 Coax in 48 Inch FMCA2816-48](#)

URL: <https://www.fairviewmicrowave.com/sma-male-to-sma-male-cable-rg402-type-.141-coax-fmca2816-48-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	07/12/2022	AGANWANI



**NOTES:**

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

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	TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
TITLE  SMA Male to SMA Male Cable RG402 Type .141 Coax in 48 Inch	.X = ±.2 [ .51]	FRACTIONS ± 1/32	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	THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.
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SIZE A	CAGE CODE 3FKR5	DRAWN BY PSRINIVAS	ITEM NO. FMCA2816	REV A

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