

RA SMA Male to SMA Female Cable Tinned Copper RG402 Type .141 Coax

The RA SMA male to SMA female cable using Tinned Copper RG402 type .141 coax, part number FMCA2910, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to female gender configuration with 50 ohm semi-rigid FM-SR141CUTN-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 FMCA2910 SMA male to SMA female cable assembly operates to 12.4 GHz. The right angle SMA interface on the FM-SR141CUTN-STR cable allows for easier connections in tight spaces.

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.



Configuration:

- SMA Male Right Angle
- SMA Female
- FM-SR141CUTN-STR

Features:

- Max Frequency 12.4 GHz
- 69.5% Phase Velocity

Applications:

- General Purpose
- Laboratory Use

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-------------------------|-----|------|-------|-------|
| Frequency Range | DC | | 12.4 | GHz |
| VSWR | | | 1.5:1 | |
| Velocity of Propagation | | 69.5 | | % |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-------|-------|------|----|-------|
| Frequency | 1 | 2.5 | 5 | 12.4 | | GHz |
| Insertion Loss (Typ.) | 0.12 | 0.175 | 0.266 | 0.51 | | dB/ft |
| | 0.39 | 0.57 | 0.87 | 1.67 | | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Cable

| | |
|--------------------------------------|---------------------------|
| Cable Type | FM-SR141CUTN-STR |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Outer Conductor Material and Plating | Tinned Copper |
| One Time Minimum Bend Radius | 1 in [25.4 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------|-----------------------|------------------------|
| Type | SMA Male | SMA Female |
| Specification | MIL-STD-348A | |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Brass, Gold | Beryllium Copper, Gold |
| Contact Plating Spec. | 50 µin minimum | |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Stainless Steel, Gold | Stainless Steel, Gold |
| Body Plating Spec. | 30 µin minimum | |
| Coupling Nut Material & Plating | Brass, Nickel | |
| Coupling Nut Plating Spec. | 100 µin minimum | |
| Hex Size | 5/16 inch | |
| Torque | 3 in-lbs 0.34 Nm | |

Mechanical Specification Notes:

Maximum length using the straight semi rigid coax is 5ft. For lengths greater than 5ft, please contact us

Environmental Specifications
Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2910 - xx uu

cm = Centimeters
<blank> = Inches

Length

Example: FMCA2910-12 = 12 inches long cable
FMCA2910-100cm = 100 cm long cable

RA SMA Male to SMA Female Cable Tinned Copper RG402 Type .141 Coax 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: [RA SMA Male to SMA Female Cable Tinned Copper RG402 Type .141 Coax FMCA2910](#)

URL: <https://www.fairviewmicrowave.com/ra-sma-male-to-sma-female-cable-tinned-copper-rg402-type-.141-coax-fm-ca2910-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.



