

### 3.5mm Male to 3.5mm Female Cable RG402 Type .141 Coax in 200 CM

The 3.5mm male to 3.5mm female 200 cm cable using RG402 type .141 coax, part number FMCA2787-200CM, from Fairview Microwave is in-stock and ships same day. This Fairview 3.5mm to 3.5mm cable assembly has a male to female 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 FMCA2787-200CM 3.5mm male to 3.5mm female cable assembly operates to 34 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.



#### Configuration:

- 3.5mm Male
- 3.5mm Female
- FM-SR141CU-STR

#### Features:

- Max Frequency 34 GHz
- 69.5% Phase Velocity

#### Applications:

- General Purpose
- Laboratory Use

#### Electrical Specifications

| Description             | Min | Typ  | Max   | Units |
|-------------------------|-----|------|-------|-------|
| Frequency Range         | DC  |      | 34    | GHz   |
| VSWR                    |     |      | 1.5:1 |       |
| Velocity of Propagation |     | 69.5 |       | %     |

#### Performance by Frequency

| Description           | F1   | F2   | F3   | F4   | F5  | Units |
|-----------------------|------|------|------|------|-----|-------|
| Frequency             | 1    | 2    | 4.5  | 9    | 20  | GHz   |
| Insertion Loss (Typ.) | 0.99 | 1.23 | 1.83 | 2.91 | 4.8 | 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\* 78.74 in [200 cm]  
Weight 0.234 lbs [106.14 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  
Outer Conductor Material and Plating Copper

Repeated Minimum Bend Radius 0.25 in [6.35 mm]

Fairview Microwave  
301 Leora Ln., Suite 100  
Lewisville, TX 75056  
Tel: 1-800-715-4396 / (972) 649-6678  
Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

**Connectors**

| Description                     | Connector 1                        | Connector 2                        |
|---------------------------------|------------------------------------|------------------------------------|
| Type                            | 3.5mm Male                         | 3.5mm Female                       |
| Impedance                       | 50 Ohms                            | 50 Ohms                            |
| Contact Material & Plating      | Beryllium Copper, Gold over Nickel | Beryllium Copper, Gold over Nickel |
| Contact Plating Spec.           | 50 µin minimum                     | 50 µin minimum                     |
| Dielectric Type                 | PCTFE                              | PCTFE                              |
| Body Material & Plating         | Passivated Stainless Steel         | Passivated Stainless Steel         |
| Body Plating Spec.              | SAE-AMS-2700                       | SAE-AMS-2700                       |
| Coupling Nut Material & Plating | Passivated Stainless Steel         |                                    |
| Coupling Nut Plating Spec.      | SAE-AMS-2700                       |                                    |
| Hex Size                        | 5/16 inch                          |                                    |
| Torque                          | 8 in-lbs 0.9 Nm                    |                                    |

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMCA2787 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

Example: FMCA2787-12 = 12 inches long cable  
FMCA2787-100cm = 100 cm long cable

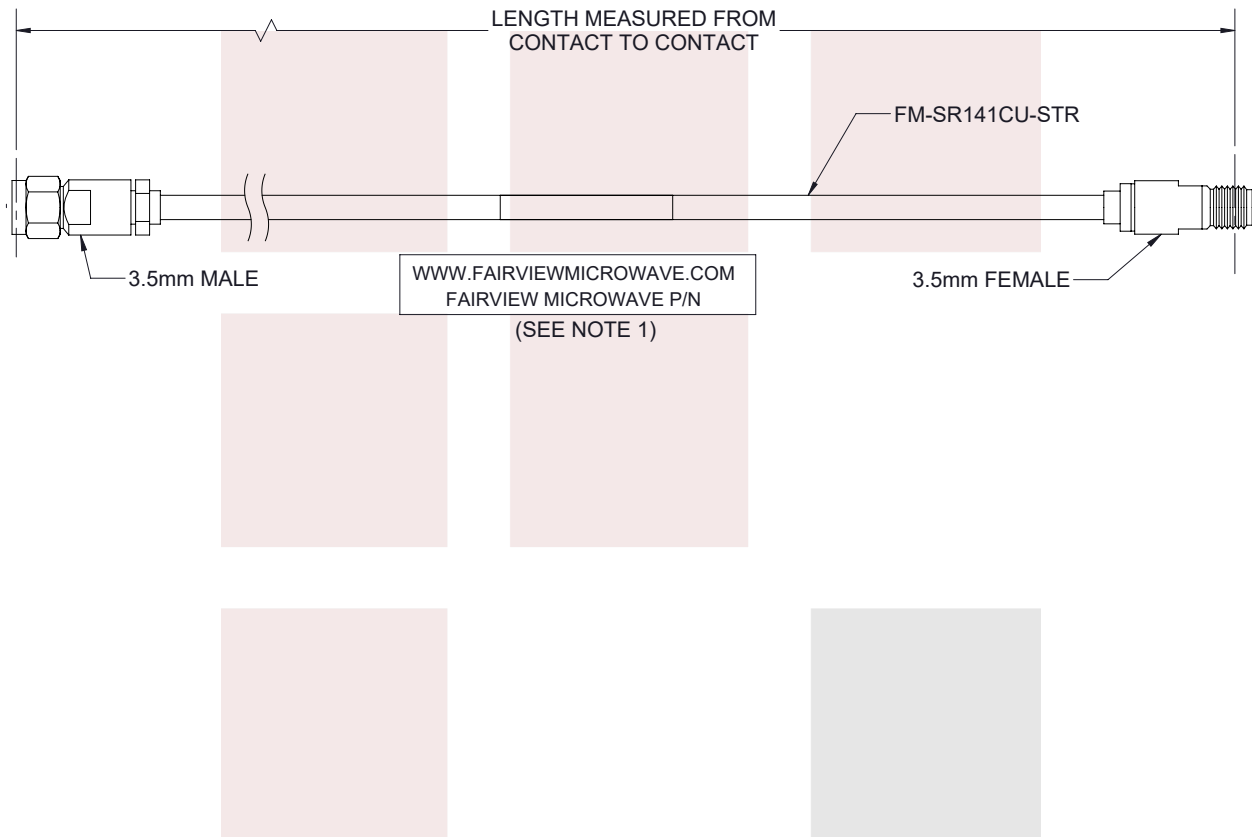
3.5mm Male to 3.5mm Female Cable RG402 Type .141 Coax in 200 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [3.5mm Male to 3.5mm Female Cable RG402 Type .141 Coax in 200 CM FMCA2787-200CM](#)

URL: <https://www.fairviewmicrowave.com/3.5mm-male-to-3.5mm-female-cable-rg402-type-.141-coax-fmca2787-200cm-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 | 07/02/2022 | 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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|   |  |   |                                       |                  |                             |                   |  |   |                     |             |  |  |  |   |  |  |                            |  |
|---|--|---|---------------------------------------|------------------|-----------------------------|-------------------|--|---|---------------------|-------------|--|--|--|---|--|--|----------------------------|--|
| <p><b>Fairview Microwave</b><br/>an INFINIT<sup>®</sup> brand</p>                       | <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES<br/>DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:                      CABLE LENGTH (L) TOLERANCES:</p> <table border="0"> <tr> <td>.X = ±.2 [ .51]</td> <td>FRACTIONS ± 1/32</td> <td>L ≤ 12 [305] = +1 [25] / -0</td> </tr> <tr> <td>.XX = ±.02 [ .51]</td> <td></td> <td>12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0</td> </tr> <tr> <td>.XXX = ±.005 [ .13]</td> <td>ANGLES ± 1°</td> <td>60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0</td> </tr> <tr> <td></td> <td></td> <td>120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0</td> </tr> <tr> <td></td> <td></td> <td>300 [7620] &lt; L = +5%L / -0</td> </tr> </table> |   | .X = ±.2 [ .51]                       | FRACTIONS ± 1/32 | L ≤ 12 [305] = +1 [25] / -0 | .XX = ±.02 [ .51] |  | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 | .XXX = ±.005 [ .13] | ANGLES ± 1° | 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 |  |  | 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 |  |  | 300 [7620] < L = +5%L / -0 | <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> |
|   | .X = ±.2 [ .51]  | FRACTIONS ± 1/32                            | L ≤ 12 [305] = +1 [25] / -0           |                  |                             |                   |  |   |                     |             |  |  |  |   |  |  |                            |  |
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| <p>TITLE</p> <p>3.5mm Male to 3.5mm Female Cable RG402 Type<br/>.141 Coax in 200 CM</p> | <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>  |   | <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>  |                  |                             |                   |  |   |                     |             |  |  |  |   |  |  |                            |  |
| <p>SIZE A</p>   | <p>CAGE CODE 3FKR5</p>   | <p>DRAWN BY PSRINIVAS</p>                   | <p>ITEM NO. FMCA2787</p> <p>REV A</p> |                  |                             |                   |  |   |                     |             |  |  |  |   |  |  |                            |  |

T-Rev.D