

## 3.5mm Male to 3.5mm Male Cable Tinned Copper RG402 Type .141 Coax

The 3.5mm male to 3.5mm male cable using Tinned Copper RG402 type .141 coax, part number FMCA2875, from Fairview Microwave is in-stock and ships same day. This Fairview 3.5mm to 3.5mm cable assembly has a male to male 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 FMCA2875 3.5mm male to 3.5mm male 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.

### 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.) | 0.12 | 0.156 | 0.248 | 0.413 | 0.7 | dB/ft |
|                       | 0.39 | 0.51  | 0.81  | 1.35  | 2.3 | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.055 lbs [24.95 g]

#### 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  
 Number of Shields 1  
 Shield Layer 1 Tinned Copper

One Time Minimum Bend Radius 1 in [25.4 mm]



### Configuration:

- 3.5mm Male
- 3.5mm Male
- FM-SR141CUTN-STR

### Features:

- Max Frequency 34 GHz
- 69.5% Phase Velocity
- 500 Mating Cycles

### Applications:

- General Purpose
- Laboratory Use

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## Connectors

| Description                     | Connector 1                        | Connector 2                        |
|---------------------------------|------------------------------------|------------------------------------|
| Type                            | 3.5mm Male                         | 3.5mm Male                         |
| Impedance                       | 50 Ohms                            | 50 Ohms                            |
| Mating Cycles                   | 500                                | 500                                |
| 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         | Passivated Stainless Steel         |
| Coupling Nut Plating Spec.      | SAE-AMS-2700                       | SAE-AMS-2700                       |
| Hex Size                        | 5/16 inch                          | 5/16 inch                          |
| Torque                          | 8 in-lbs 0.9 Nm                    | 8 in-lbs 0.9 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:

**FMCA2875 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMCA2875-12 = 12 inches long cable  
 FMCA2875-100cm = 100 cm long cable

3.5mm Male to 3.5mm Male 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: [3.5mm Male to 3.5mm Male Cable Tinned Copper RG402 Type .141 Coax FMCA2875](#)

URL: <https://www.fairviewmicrowave.com/3.5mm-male-to-3.5mm-male-cable-tinned-copper-rg402-type-.141-coax-fm-ca2875-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.



