

## TNC Male to RA TNC Male Cable Tinned Copper RG402 Type .141 Coax in 50 CM

The TNC male to RA TNC male 50 cm cable using Tinned Copper RG402 type .141 coax, part number FMCA2880-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview TNC to TNC 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 FMCA2880-50CM TNC male to TNC male cable assembly operates to 6 GHz. The right angle TNC 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.

### Electrical Specifications

| Description             | Min | Typ  | Max   | Units |
|-------------------------|-----|------|-------|-------|
| Frequency Range         | DC  |      | 6     | GHz   |
| VSWR                    |     |      | 1.5:1 |       |
| Velocity of Propagation |     | 69.5 |       | %     |

### Performance by Frequency

| Description           | F1  | F2   | F3   | F4 | F5 | Units |
|-----------------------|-----|------|------|----|----|-------|
| Frequency             | 1   | 2.5  | 6    |    |    | GHz   |
| Insertion Loss (Typ.) | 0.5 | 0.59 | 1.04 |    |    | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

### Mechanical Specifications

#### Cable Assembly

|         |                      |
|---------|----------------------|
| Length* | 19.68 in [499.87 mm] |
| Weight  | 0.13 lbs [58.97 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                      |
| Outer Conductor Material and Plating | Tinned Copper             |

|                              |                |
|------------------------------|----------------|
| One Time Minimum Bend Radius | 1 in [25.4 mm] |
|------------------------------|----------------|



### Configuration:

- TNC Male
- TNC Male Right Angle
- FM-SR141CUTN-STR

### Features:

- Max Frequency 6 GHz
- 69.5% Phase Velocity

### Applications:

- General Purpose
- Laboratory Use

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## Connectors

| Description                     | Connector 1     | Connector 2             |
|---------------------------------|-----------------|-------------------------|
| Type                            | TNC Male        | TNC Male                |
| Specification                   | MIL-STD-348A    |                         |
| Impedance                       | 50 Ohms         | 50 Ohms                 |
| Contact Material & Plating      | Brass, Gold     | Brass, Gold over Nickel |
| Contact Plating Spec.           | 50 µin minimum  |                         |
| Dielectric Type                 | PTFE            | PTFE                    |
| Body Material & Plating         | Brass, Gold     | Brass, Nickel           |
| Body Plating Spec.              | 30 µin minimum  |                         |
| Coupling Nut Material & Plating | Brass, Nickel   | Brass, Nickel           |
| Coupling Nut Plating Spec.      | 100 µin minimum |                         |

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMCA2880 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMCA2880-12 = 12 inches long cable  
 FMCA2880-100cm = 100 cm long cable

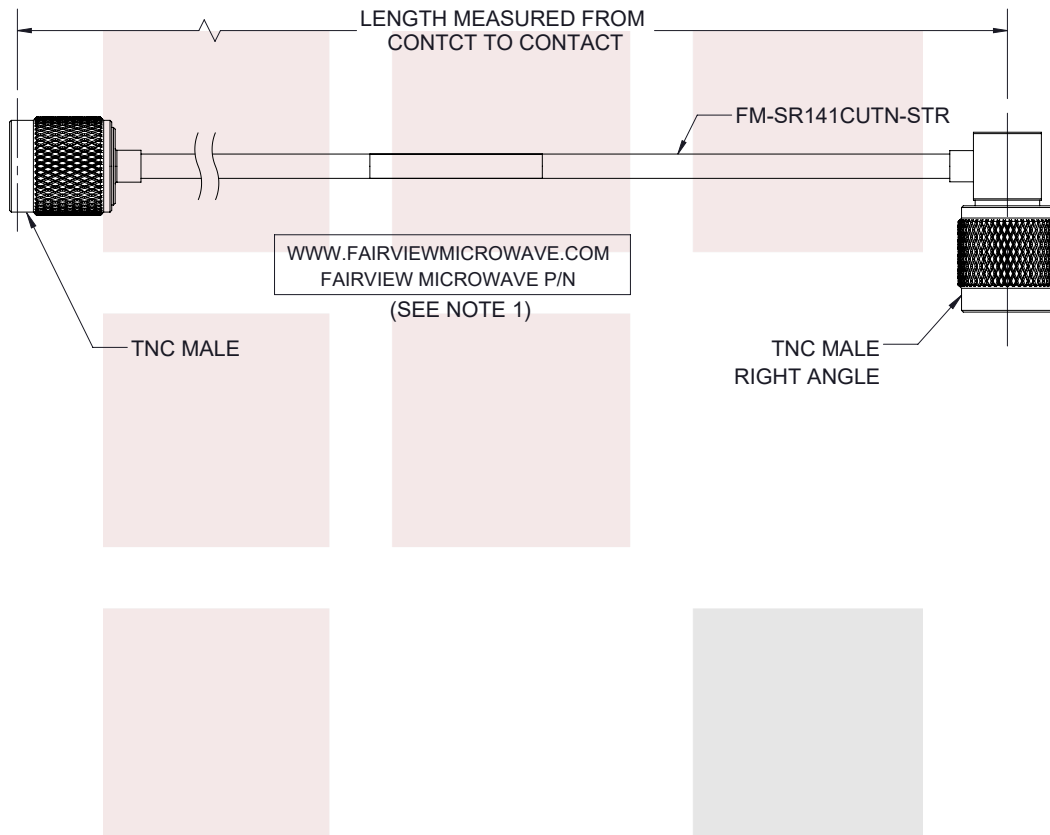
TNC Male to RA TNC Male Cable Tinned Copper RG402 Type .141 Coax in 50 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [TNC Male to RA TNC Male Cable Tinned Copper RG402 Type .141 Coax in 50 CM FMCA2880-50CM](#)

URL: <https://www.fairviewmicrowave.com/tnc-male-to-ra-tnc-male-cable-tinned-copper-rg402-type-.141-coax-in-50-cm-fmca2880-50cm-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 | 07/22/2022 | 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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| TITLE                                                                                                                                                                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |     |  |                                                                                                                                                                                                                                                                                                                          |  |
| TNC Male to RA TNC Male Cable Tinned Copper RG402 Type .141 Coax in 50 CM                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |     |  |                                                                                                                                                                                                                                                                                                                          |  |
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| SIZE                                                                                                                                                                                                     | CAGE CODE | DRAWN BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ITEM NO. | REV |  |                                                                                                                                                                                                                                                                                                                          |  |
| A                                                                                                                                                                                                        | 3FKR5     | PSRINIVAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FMCA2880 | A   |  |                                                                                                                                                                                                                                                                                                                          |  |

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