

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

The TNC male to RA TNC male cable using Tinned Copper RG402 type .141 coax, part number FMCA2880, 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 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.)	0.12	0.175	0.45			dB/ft
	0.39	0.57	1.48			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

Weight 0.11 lbs [49.9 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	

Mechanical Specification Notes:

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

**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

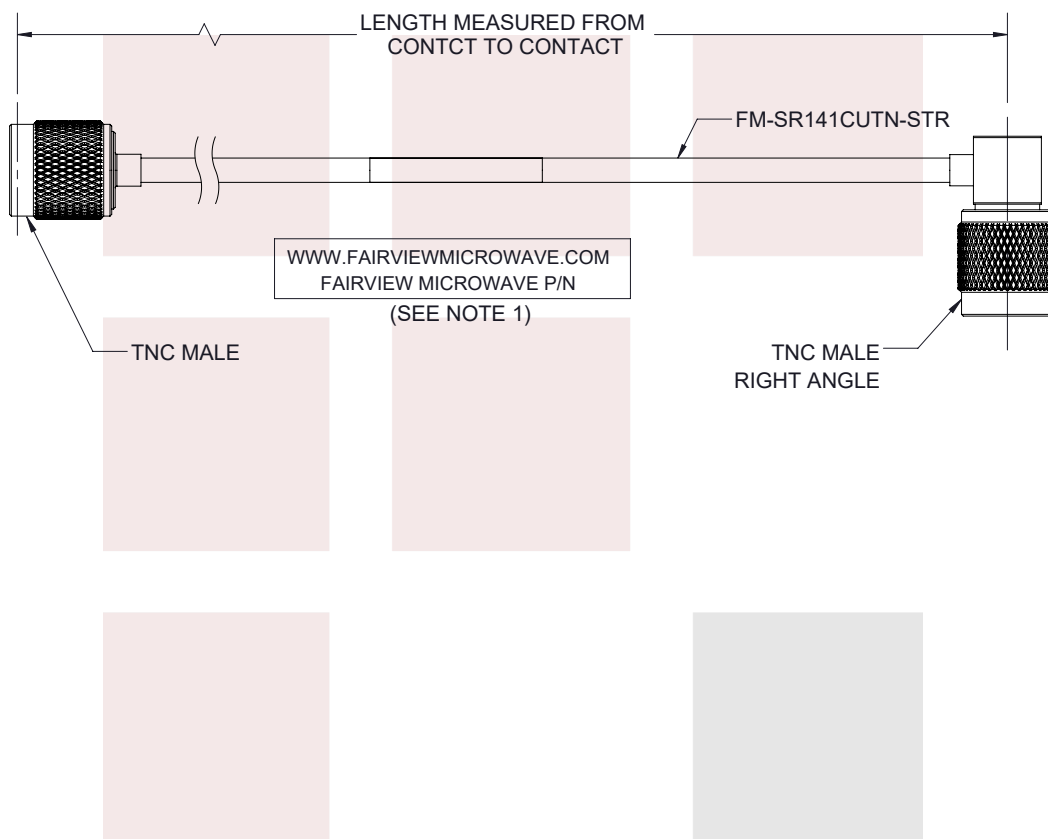
TNC Male to RA TNC Male Cable Tinned Copper RG402 Type .141 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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

URL: <https://www.fairviewmicrowave.com/tnc-male-to-ra-tnc-male-cable-tinned-copper-rg402-type-.141-coax-fm-ca2880-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



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.



**Fairview Microwave**  
an INFINITE brand

TNC Male to RA TNC Male Cable Tinned Copper RG402  
Type .141 Coax

$$\begin{aligned} L &\leq 12 \text{ [305]} = +1 \text{ [25]} / -0 \\ 12 \text{ [305]} &< L \leq 60 \text{ [1524]} = +2 \text{ [51]} / -0 \\ 60 \text{ [1524]} &< L \leq 120 \text{ [3048]} = +4 \text{ [102]} / -0 \\ 120 \text{ [3048]} &< L \leq 300 \text{ [7620]} = +6 \text{ [152]} / -0 \\ 300 \text{ [7620]} &< L = +5\%L / -0 \end{aligned}$$

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SHEET OF

SCALE

N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE	A
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CAGE CODE	3FK
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DRAWN BY  
PSRIN

ITEM NO.	
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FMCA2880

REV	A
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