

## TNC Male to TNC Male Cable RG402 Type .141 Coax

The TNC male to TNC male cable using RG402 type .141 coax, part number FMCA2790, 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-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 FMCA2790 TNC male to TNC male cable assembly operates to 6 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		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 per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.1 lbs [45.36 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]



### Configuration:

- TNC Male
- TNC Male
- FM-SR141CU-STR

### Features:

- Max Frequency 6 GHz
- 69.5% Phase Velocity

### Applications:

- General Purpose
- Laboratory Use

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

### 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:

- Values at 25°C, sea level.

## How to Order

Part Number Configuration:

**FMCA2790 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMCA2790-12 = 12 inches long cable  
 FMCA2790-100cm = 100 cm long cable

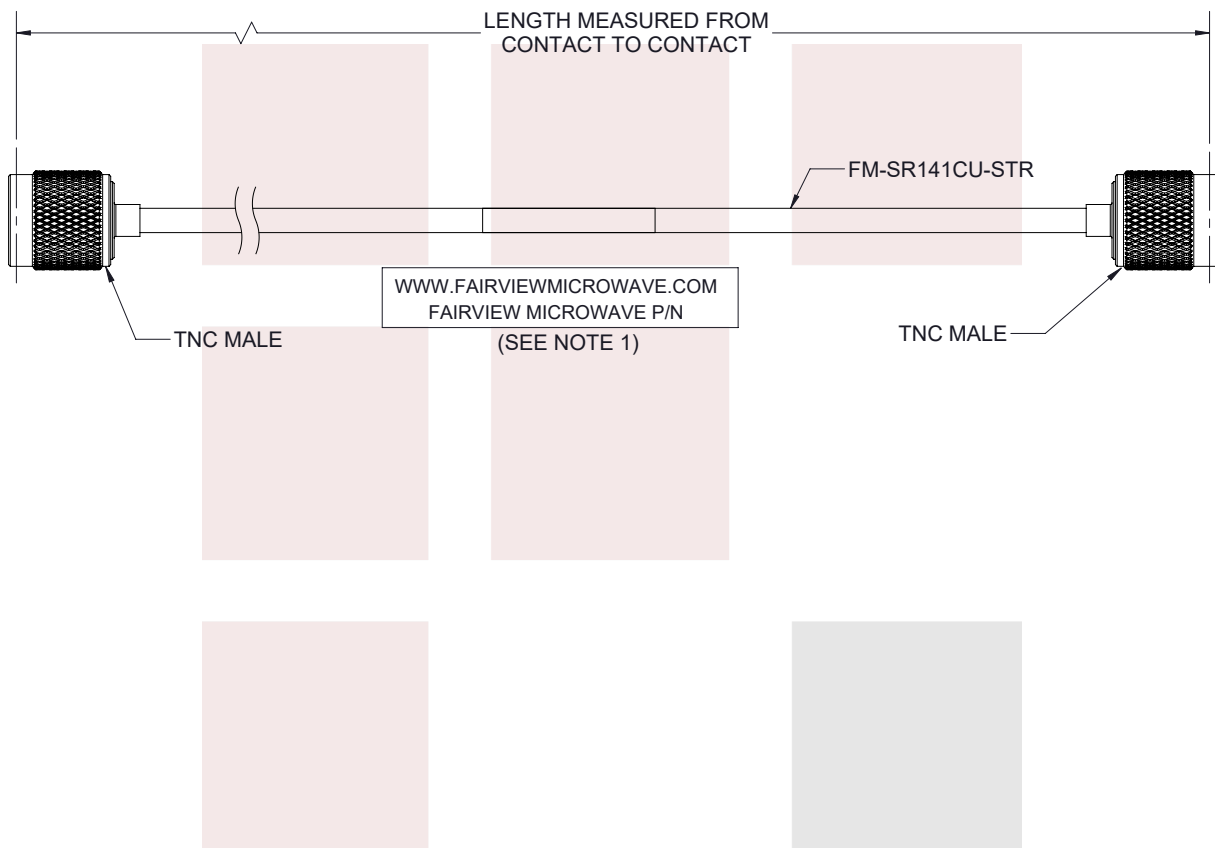
TNC Male to TNC Male Cable RG402 Type .141 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [TNC Male to TNC Male Cable RG402 Type .141 Coax FMCA2790](#)

URL: <https://www.fairviewmicrowave.com/tnc-male-to-tnc-male-cable-rg402-type-.141-coax-fmca2790-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.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

<div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div> <div><div>Fairview Microwave</div><div>an INFINITI® brand</div></div>		<div>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</div> <div><div>TOLERANCES:</div><div><div>.X = ±.2 [5.08]</div><div>FRACTIONS</div><div>.XX = ±.02 [.51]</div><div>± 1/32</div><div>.XXX = ±.005 [.13]</div><div>ANGLES ± 1°</div></div></div> <div><div>CABLE LENGTH (L) TOLERANCES:</div><div><div>L ≤ 12 [305] = +1 [25] / -0</div><div>12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0</div><div>60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0</div><div>120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0</div><div>300 [7620] &lt; L = +5%L / -0</div></div></div>		<div><div>THIRD-ANGLE PROJECTION</div><div><div><div></div><div></div></div><div>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</div></div></div> <div><div>SHEET</div><div>1</div><div>OF</div><div>1</div></div> <div><div>SCALE</div><div>N/A</div></div>	
TITLE		ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			
TNC Male to TNC Male Cable RG402 Type .141 Coax					
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV	
A	3FKR5	PSRINIVAS	FMCA2790	A	

T-Rev.D