

## SMA Female to TNC Male Cable in 150 CM Length Using RG223 Coax

The SMA female to TNC male cable using RG223 coax, part number FMCA2741-150CM, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to TNC cable assembly has a female to male gender configuration with 50 ohm flexible RG223 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2741-150CM SMA female to TNC male cable assembly operates to 11 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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   |          | 11    | GHz          |
| VSWR                    |      |          | 1.4:1 |              |
| Velocity of Propagation |      | 66       |       | %            |
| Capacitance             | 30.8 | [101.05] |       | pF/ft [pF/m] |
| Operating Voltage (AC)  |      |          | 500   | Vrms         |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.5  | 1    | 2.5  | 5    | 11   | GHz   |
| Insertion Loss (Typ.) | 0.65 | 0.86 | 1.28 | 1.85 | 2.87 | dB/ft |
|                       | 2.13 | 2.82 | 4.2  | 6.07 | 9.42 | dB/m  |

#### 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\* 59.06 in [150.01 cm]  
 Weight 0.1956 lbs [88.72 g]

#### Cable

Cable Type RG223  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PE  
 Number of Shields 2  
 Shield Layer 1 Silver Plated Copper Braid



### Configuration:

- SMA Female
- TNC Male
- RG223

### Features:

- Max Frequency 11 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

### Applications:

- General Purpose
- Laboratory Use

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Shield Layer 2 Silver Plated Copper Braid  
 Jacket Material PVC, Black  
 Jacket Diameter 0.209 in [5.31 mm]  
 Repeated Minimum Bend Radius 1 in [25.4 mm]

**Connectors**

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

**Environmental Specifications**

**Temperature**

Operating Range -40 to +80 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:

**FMCA2741 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMCA2741-12 = 12 inches long cable  
 FMCA2741-100cm = 100 cm long cable

SMA Female to TNC Male Cable in 150 CM Length Using RG223 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.

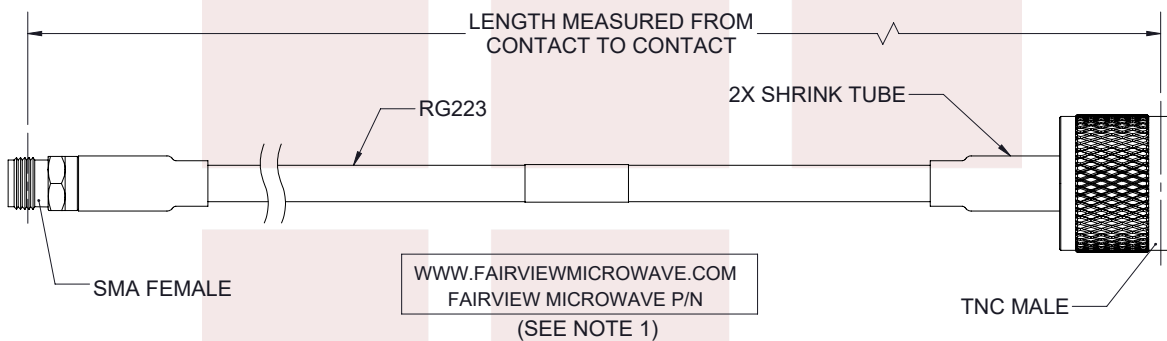
Click the following link to obtain additional part information: [SMA Female to TNC Male Cable in 150 CM Length Using RG223 Coax FMCA2741-150CM](#)

URL: <https://www.fairviewmicrowave.com/sma-female-to-tnc-male-cable-rg223-coax-in-150-cm-and-rohs-fmca2741-150cm-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 | 2/21/2022 | 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>THIRD-ANGLE PROJECTION</p>  |  |  |  |
|  | <p>TOLERANCES:</p> <p>.X = ±.2 [ .51]    FRACTIONS ± 1/32<br/>.XX = ±.02 [ .51]    ANGLES ± 1°<br/>.XXX = ±.005 [ .13]</p> |  | <p>CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = +1 [25] / -0<br/>12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0<br/>60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0<br/>120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0<br/>300 [7620] &lt; L = +5%L / -0</p> |  | <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> |  |
| <p>TITLE</p> <p>SMA Female to TNC Male Cable in 150 CM Length Using RG223 Coax</p> |  |  | <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> <p>SCALE N/A</p>   |  | <p>SIZE A    CAGE CODE 3FKR5    DRAWN BY MVEERAPPAN    ITEM NO. FMCA2741    REV A</p>  |  |

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