

## SMA Male to TNC Female Cable in 48 Inch Length Using RG223 Coax

The SMA male to TNC female cable using RG223 coax, part number FMCA2731-48, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to TNC cable assembly has a male to female 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 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        |
|-------------------------|-----|---------------|-----|--------------|
| Velocity of Propagation |     | 66            |     | %            |
| Capacitance             |     | 30.8 [101.05] |     | pF/ft [pF/m] |

### Mechanical Specifications

#### Cable Assembly

|         |                     |
|---------|---------------------|
| Length* | 48 in [121.92 cm]   |
| Weight  | 0.172 lbs [78.02 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 |
| 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] |
|------------------------------|----------------|



### Configuration:

- SMA Male
- TNC Female
- RG223

### Features:

- 66% Phase Velocity
- Double Shielded
- PVC Jacket

### 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                            | SMA Male         | TNC Female    |
| Specification                   | MIL-STD-348A     |               |
| Impedance                       | 50 Ohms          | 50 Ohms       |
| Contact Material & Plating      | Brass, Gold      |               |
| Contact Plating Spec.           | 50 µin minimum   |               |
| Dielectric Type                 | PTFE             |               |
| Body Material & Plating         | Brass, Nickel    | Brass, Nickel |
| Body Plating Spec.              | 100 µin minimum  |               |
| Coupling Nut Material & Plating | Brass, Nickel    |               |
| Coupling Nut Plating Spec.      | 100 µin minimum  |               |
| Hex Size                        | 5/16 inch        |               |
| Torque                          | 3 in-lbs 0.34 Nm |               |

**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:

**FMCA2731 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMCA2731-12 = 12 inches long cable  
 FMCA2731-100cm = 100 cm long cable

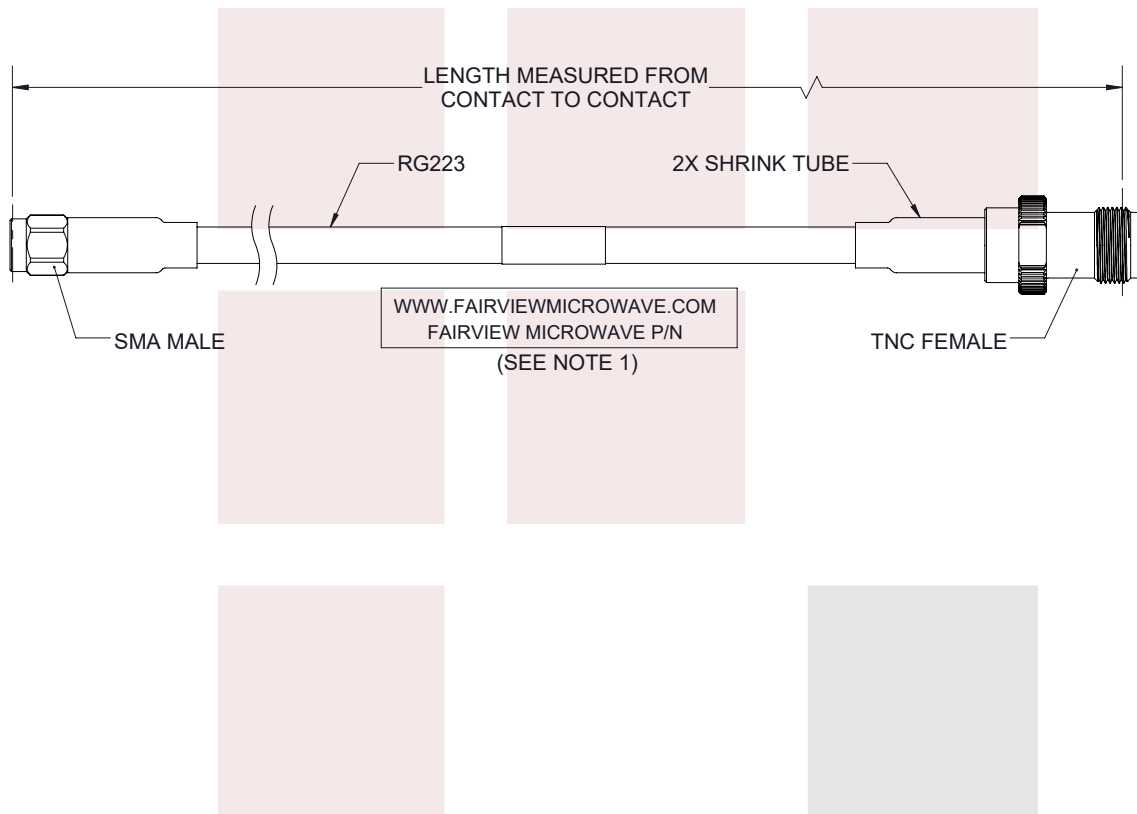
SMA Male to TNC Female Cable in 48 Inch Length Using RG223 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMA Male to TNC Female Cable in 48 Inch Length Using RG223 Coax FMCA2731-48](#)

URL: <https://www.fairviewmicrowave.com/sma-male-to-tnc-female-cable-rg223-coax-in-48-inch-and-rohs-fmca2731-48-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.

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.

|   |   |                     |  |   |
|---|---|---------------------|--|---|
| <p><b>Fairview Microwave</b><br/>an INFINIT® brand</p>                          | UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |                     | THIRD-ANGLE PROJECTION<br>   |   |
|   | TOLERANCES:   |                     | CABLE LENGTH (L) TOLERANCES:   |   |
| TITLE<br><br>SMA Male to TNC Female Cable in 48 Inch Length<br>Using RG223 Coax | .X = ±.2 [ .51]   | FRACTIONS ± 1/32    | L ≤ 12 [305] = +1 [25] / -0  | THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.<br>SHEET 1 OF 1 |
|   | .XX = ±.02 [ .51]   | ANGLES ± 1°         | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0<br>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0<br>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0<br>300 [7620] < L = +5%L / -0 |   |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.                                    |   |                     |  | SCALE N/A   |
| SIZE A  | CAGE CODE 3FKR5   | DRAWN BY MVEERAPPAN | ITEM NO. FMCA2731  | REV A   |

T-Rev.D