

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

The SMA female bulkhead to TNC male cable using RG223 coax, part number FMCA2749-48, 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 FMCA2749-48 SMA female to TNC male cable assembly operates to 11 GHz. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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 | Тур                       | Мах   | Units        |
| Frequency Range         | DC  |                           | 11    | GHz          |
| VSWR                    |     |                           | 1.4:1 |              |
| Velocity of Propagation |     | 66                        |       | %            |
| Capacitance             |     | 30.8 [ <mark>101.0</mark> | 5]    | pF/ft [pF/m] |
| Operating Voltage (AC)  |     |                           | 500   | Vrms         |
|                         |     |                           |       |              |

| Performance by        | erformance by Freq <mark>uency</mark> |      |      |      |      |       |
|-----------------------|---------------------------------------|------|------|------|------|-------|
| Description           | F1                                    | F2   | F3   | F4   | F5   | Units |
| Frequency             | 0.5                                   | 1    | 2.5  | 5    | 11   | GHz   |
| Insertion Loss (Typ.) | 0.56                                  | 0.74 | 1.08 | 1.54 | 2.37 | dB/ft |
|                       | 1.84                                  | 2.43 | 3.54 | 5.05 | 7.78 | 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\*

Weight

### Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type 48 in [121.92 cm] 0.139 lbs [63.05 g]

RG223 50 Ohms Solid Copper, Silver PE



FMCA2749-48

# **Configuration:**

- SMA Female Bulkhead
- TNC Male
- RG223

### **Features:**

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

## **Applications:**

- General Purpose
- Laboratory Use

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FMCA2749-48 DATA SHEET

Number of Shields Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter 2 Silver Plated Copper Braid Silver Plated Copper Braid PVC, Black 0.209 in [5.31 mm]

Repeated Minimum Bend Radius

1 in [25.4 mm]

### Connectors

| Description                 | Connector 1                   | Connector 2     |  |
|-----------------------------|-------------------------------|-----------------|--|
| Туре                        | SMA Female                    | TNC Male        |  |
| Mount Method                | Bulkhead                      |                 |  |
| Specification               | MIL-STD-348A                  | MIL-STD-348A    |  |
| Impedance                   | 50 Ohms                       | 50 Ohms         |  |
| Contact Material & Plating  | Beryllium Copper, G           | old Brass, Gold |  |
| Contact Plating Spec.       | 50 µin min <mark>i</mark> mum | 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 & Pla | ating                         | Brass, Nickel   |  |
| Coupling Nut Plating Spec.  |                               | 100 µin minimum |  |
|                             |                               |                 |  |

### **Environmental Specifications**

**Temperature** Operating Range

-40 to +80 deg C



### **Plotted and Other Data**

Notes:

### **How to Order**

Part Number Configuration:



- Length

Example: FMCA2749-12 = 12 inches long cable FMCA2749-100cm = 100 cm long cable





SMA Female Bulkhead to TNC Male 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 Female Bulkhead to TNC Male Cable in 48 Inch Length Using RG223 Coax FMCA2749-48

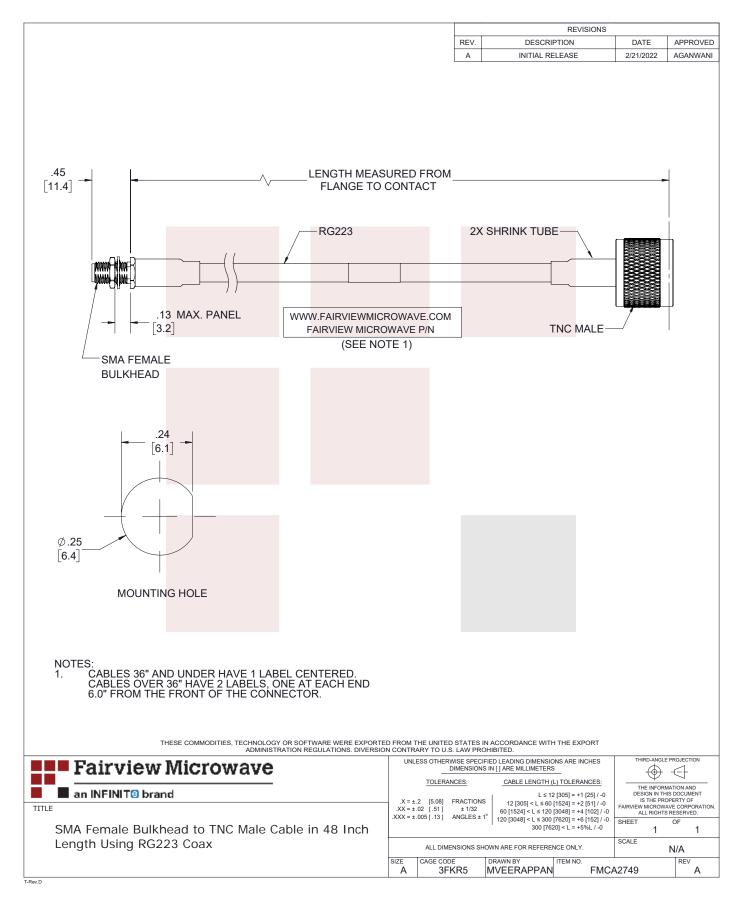
URL: https://www.fairviewmicrowave.com/sma-female-bulkhead-to-tnc-male-cable-rg223-coax-in-48-inch-fmca2749-48-p.aspx



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