

## TNC Male to TNC Female Bulkhead Cable Tinned Aluminum RG402 Type .141 Coax in 12 Inch

The TNC male to TNC female bulkhead 12 inch cable using Tinned Aluminum RG402 type .141 coax, part number FMCA2838-12, from Fairview Microwave is in-stock and ships same day. This Fairview TNC to TNC cable assembly has a male to female gender configuration with 50 ohm semi-rigid FM-SR141ALTN-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 FMCA2838-12 TNC male to TNC female cable assembly operates to 6 GHz. Our RF cable assembly with TNC 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.

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.) | 0.33 | 0.39 | 0.52 |    |    | dB    |

#### 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\* 12 in [304.8 mm]  
 Weight 0.0885 lbs [40.14 g]

#### Cable

Cable Type FM-SR141ALTN-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 Tinned Aluminum  
 Repeated Minimum Bend Radius 0.15 in [3.81 mm]



### Configuration:

- TNC Male
- TNC Female Bulkhead
- FM-SR141ALTN-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 Female                         |
| Mount Method                    |                 | Bulkhead                           |
| Specification                   | MIL-STD-348A    |                                    |
| Impedance                       | 50 Ohms         | 50 Ohms                            |
| Contact Material & Plating      | Brass, Gold     | Beryllium Copper, 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   |                                    |
| Coupling Nut Plating Spec.      | 100 µin minimum |                                    |

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMCA2838 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMCA2838-12 = 12 inches long cable  
 FMCA2838-100cm = 100 cm long cable

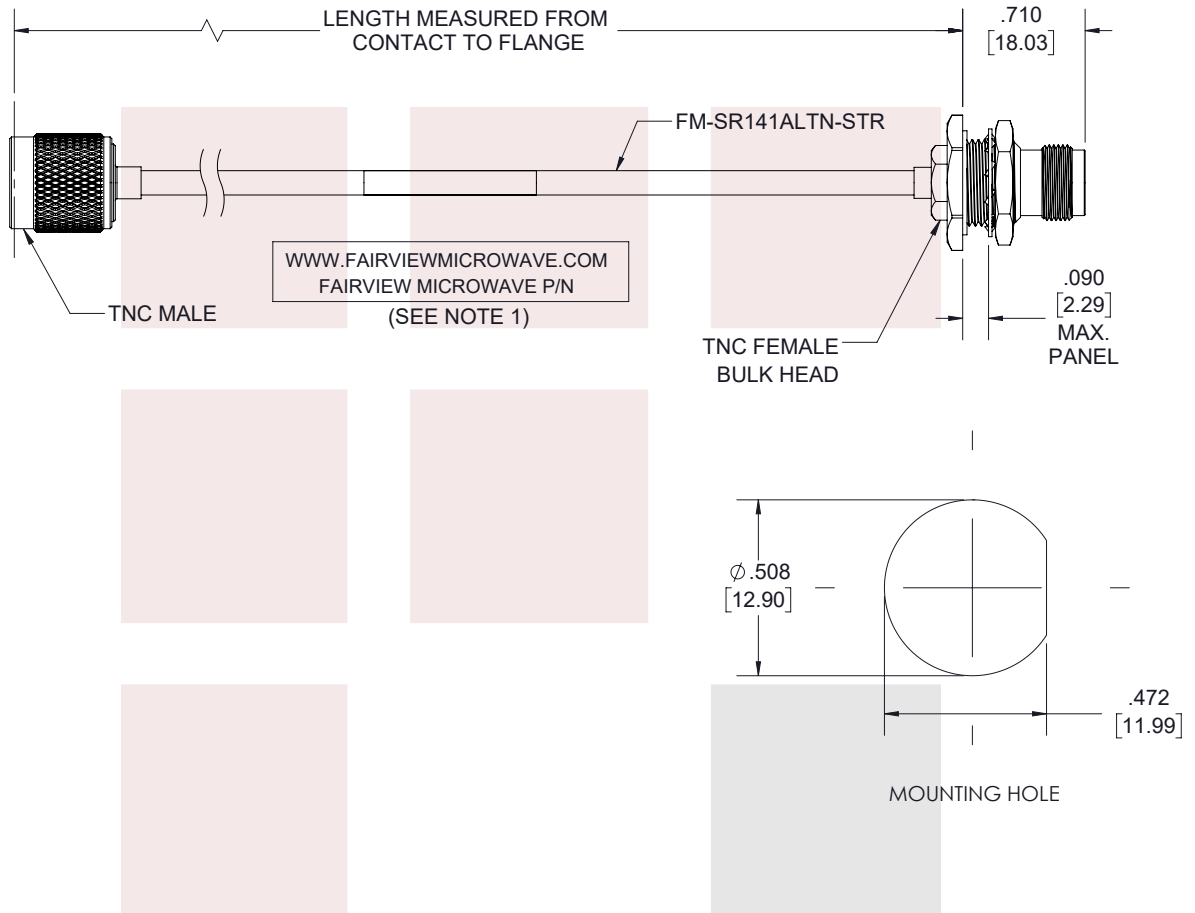
TNC Male to TNC Female Bulkhead Cable Tinned Aluminum RG402 Type .141 Coax in 12 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [TNC Male to TNC Female Bulkhead Cable Tinned Aluminum RG402 Type .141 Coax in 12 Inch FMCA2838-12](#)

URL: <https://www.fairviewmicrowave.com/tnc-male-to-tnc-female-bulkhead-cable-tinned-aluminum-rg402-type-.141-coax-in-12-inch-fmca2838-12-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 | 07/18/2022 | 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>TOLERANCES: CABLE LENGTH (L) TOLERANCES:</p> <p>.X = ±.2 [5.08] FRACTIONS L ≤ 12 [305] = +1 [25] / -0<br/>         .XX = ±.02 [.51] ± 1/32 12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0<br/>         .XXX = ±.005 [.13] ANGLES ± 1° 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>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> |  |
|   | <p>TITLE</p> <p>TNC Male to TNC Female Bulkhead Cable Tinned Aluminum RG402 Type .141 Coax in 12 Inch</p>   |                    | <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>   |  |
| <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>               |   |                    |  |  |
| SIZE A  | CAGE CODE 3FKR5   | DRAWN BY PSRINIVAS | ITEM NO. FMCA2838  |  |
|   |   |                    | REV A  |  |

T-Rev.D