

## RA SMA Male to TNC Female Bulkhead Cable FM-SR086TB Coax with LF Solder

The RA SMA male to TNC female bulkhead cable using FM-SR086TB coax, part number FMCA2138, 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 formable FM-SR086TB coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. The FMCA2138 SMA male to TNC female cable assembly operates to 6 GHz. The right angle SMA interface on the FM-SR086TB cable allows for easier connections in tight spaces. 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			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		29 [95.14]		pF/ft [pF/m]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.079	0.15	0.224	0.346	0.601	dB
	0.26	0.49	0.73	1.14	1.97	

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 0 in [0 mm]  
 Diameter 0.69 in [17.53 mm]

#### Cable

Cable Type FM-SR086TB  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE



### Configuration:

- SMA Male Right Angle
- TNC Female Bulkhead
- FM-SR086TB

### Features:

- Max Frequency 6 GHz
- 69.5% Phase Velocity
- Dimensionally and electrically the same as standard, solid outer conductor semi-rigid coax
- Cable may be formed by hand and does not require special tools to bend
- May be formed more than once without damaging the outer conductor
- High RF Shielding >100 dB
- 100% Hi-pot and continuity tested
- 100% VSWR tested to max frequency of assembly
- Standard and custom lengths ship the same day

### Applications:

- General Purpose
- Laboratory Use

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Outer Conductor Material and Plating  
 Outer Conductor Diameter

Tinned Copper Composite Braid  
 0.086 in [2.18 mm]

## Connectors

Description	Connector 1	Connector 2
Type	SMA Male	TNC Female
Mount Method		Bulkhead
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Gold	Brass, Nickel
Coupling Nut Material & Plating	Passivated Stainless Steel	
Hex Size	5/16 in.	
Torque	8 in-lbs 0.9 Nm	

Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

**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:

**FMCA2138 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMCA2138-12 = 12 inches long cable  
 FMCA2138-100cm = 100 cm long cable

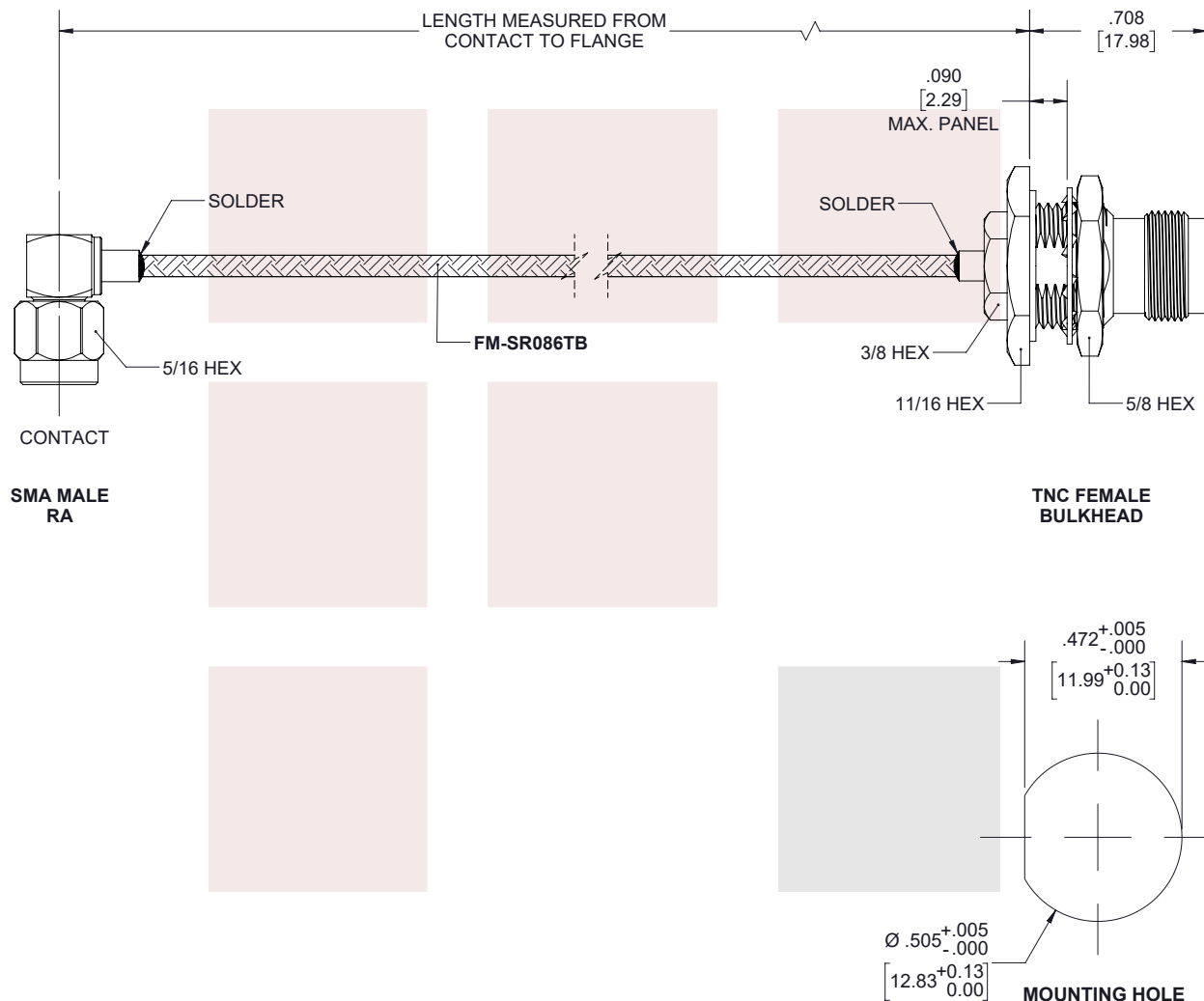
RA SMA Male to TNC Female Bulkhead Cable FM-SR086TB Coax with LF Solder from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RA SMA Male to TNC Female Bulkhead Cable FM-SR086TB Coax with LF Solder FMCA2138](#)

URL: <https://www.fairviewmicrowave.com/ra-sma-male-tnc-female-cable-fm-sr086tb-coax-fmca2138-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	11/26/19	S.ELLIS



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<p>RA SMA Male to TNC Female Bulkhead Cable FM-SR086TB Coax with LF Solder</p>		<p>CABLE LENGTH (L) TOLERANCES:</p>		<p>SHEET 1 OF 1</p>	
<p>SIZE A</p>		<p>CAGE CODE 3FKR5</p>		<p>SCALE N/A</p>	
<p>DRAWN BY K.DANG</p>		<p>PART NUMBER FMCA2138</p>		<p>REV A</p>	