

## RA SMA Male to TNC Male Cable LL142 Coax with Heat Shrink in 48 Inch

The RA SMA male to TNC male 48 inch cable using LL142 coax, part number FMC00979-48, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LL142 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00979-48 SMA male to TNC male cable assembly operates to 18 GHz. The right angle SMA interface on the LL142 cable allows for easier connections in tight spaces. The triple 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		18	GHz
VSWR			1.5:1	
Velocity of Propagation		80		%
Capacitance		25 [82.02]		pF/ft [pF/m]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.77	0.92	1.18	1.51	2.01	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 0.42 dB per RA SMA connector and 0.05\*SQRT(FGHz) dB per TNC connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 48 in [121.92 cm]  
Weight 0.25 lbs [113.4 g]

#### Cable

Cable Type LL142  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper, Silver  
Dielectric Type PTFE  
Number of Shields 3  
Shield Layer 1 Silver Plated Copper Tape  
Shield Layer 2 Aluminum Polyester



### Configuration:

- SMA Male Right Angle
- TNC Male
- LL142

### Features:

- Max Frequency 18 GHz
- 80% Phase Velocity
- Triple Shielded
- FEP 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)

Shield Layer 3	Silver Plated Copper Wire
Jacket Material	FEP, Green
Jacket Diameter	0.195 in [4.95 mm]
Repeated Minimum Bend Radius	0.975 in [24.77 mm]

### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	TNC Male
Specification	MIL-PRF-39012	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Spec.	50 µin minimum	51 µin minimum
Dielectric Type	PTFE	PEI
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Spec.	SAE-AMS-2700	SAE-AMS-2701
Coupling Nut Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Spec.	SAE-AMS-2700	SAE-AMS-2701
Hex Size	5/16 Inch	9/16 Inch
Torque	5 in-lbs 0.57 Nm	12 in-lbs 1.36 Nm

### Environmental Specifications

#### Temperature

Operating Range -55 to +165 deg C

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

### Plotted and Other Data

Notes:

### How to Order

Part Number Configuration:

**FMC00979 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

Example: FMC00979-12 = 12 inches long cable  
FMC00979-100cm = 100 cm long cable

RA SMA Male to TNC Male Cable LL142 Coax with Heat Shrink in 48 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.

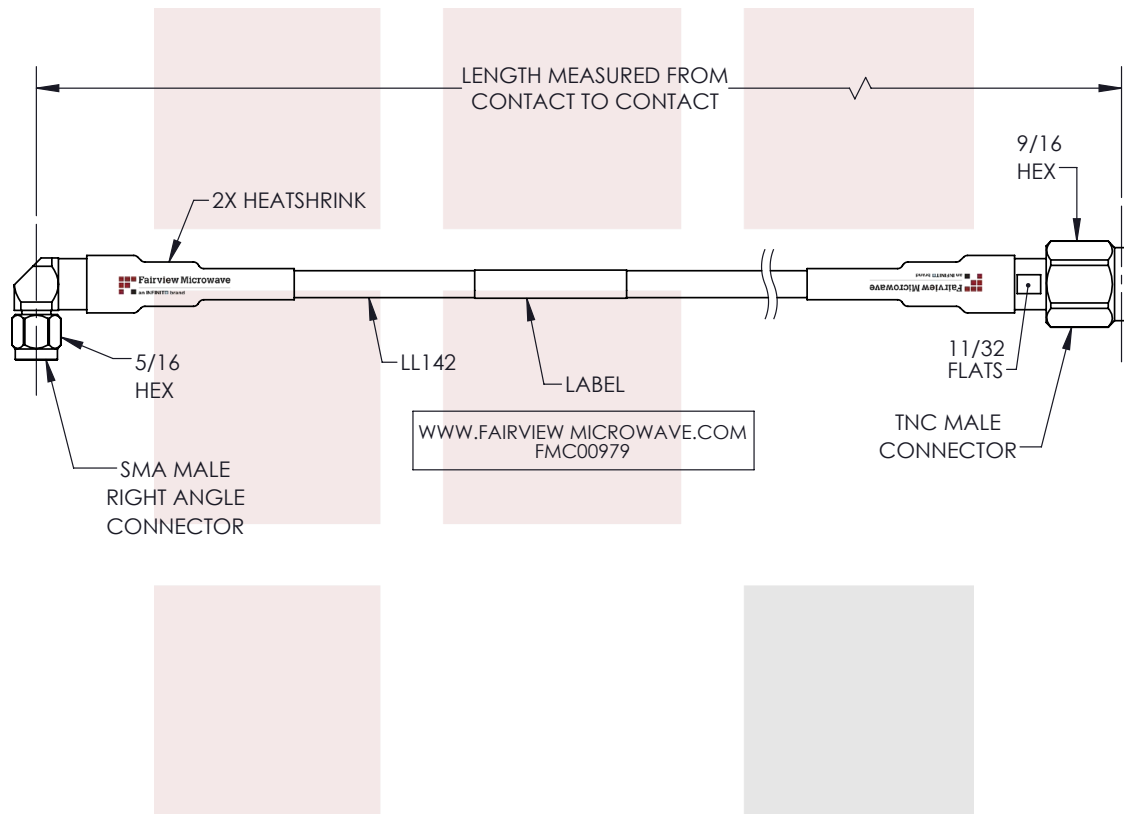
Click the following link to obtain additional part information: [RA SMA Male to TNC Male Cable LL142 Coax with Heat Shrink in 48 Inch FMC00979-48](https://www.fairviewmicrowave.com/ra-sma-male-tnc-male-cable-ll142-coax-fmc00979-48-p.aspx)

URL: <https://www.fairviewmicrowave.com/ra-sma-male-tnc-male-cable-ll142-coax-fmc00979-48-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	08/10/2022	AGANWANI



**NOTES:**

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM END OF 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> an INFINIT<sup>®</sup> brand</p>	<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p>		<p>THIRD-ANGLE PROJECTION</p>	
	<p>TOLERANCES:</p> <p>.X = ±.2 [ .51]    FRACTIONS    L ≤ 12 [305] = +1 [25] / -0 .XX = ±.02 [ .51]    ± 1/32    12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0 .XXX = ±.005 [ .13]    ANGLES ± 1°    60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0 120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0 300 [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>TITLE</p> <p>RA SMA Male to TNC Male Cable LL142 Coax with Heat Shrink in 48 Inch</p>		<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>		<p>SHEET 1 OF 1</p>
<p>SIZE</p> <p>A</p>	<p>CAGE CODE</p> <p>3FKR5</p>	<p>DRAWN BY</p> <p>BPUCHASKI</p>	<p>ITEM NO.</p> <p>FMC00979</p>	<p>SCALE</p> <p>N/A</p>
				<p>REV</p> <p>A</p>

T-Rev.D