

## FMC00638-48 DATA SHEET

# Low Loss SMA Male to RA TNC Male Cable LL142 Coax in 48 Inch

The SMA male to RA TNC male 48 inch cable using LL142 coax, part number FMC00638-48, 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 FMC00638-48 SMA male to TNC male cable assembly operates to 18 GHz. The right angle TNC 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	Ty	/р Мах	Units
Frequency Range	DC		18	GHz
VSWR			1.5:1	
Velocity of Propagation		8	0	%
Capacitance		25 [8	2.02]	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.)	0.6	0.73	0.95	1.25	1.67	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 for the straight connector and 0.2 dB for the right angle connector.

## **Mechanical Specifications**

#### **Cable Assembly**

Length\* 48 in [121.92 cm] Weight 0.226 lbs [102.51 g

#### Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1
Shield Layer 2

0.226 lbs [102.51 g]

LL142 50 Ohms Solid Copper, Silver PTFE

PTFE 3

Silver Plated Copper Tape Aluminum Polyester



## **Configuration:**

- SMA Male
- TNC Male Right Angle
- LL142

#### Features:

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

## **Applications:**

- General Purpose
- Laboratory Use

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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
Туре	SMA Male	TNC Male
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material & Plating	Beryllium Copper, Gold ov	ver NickelBeryllium Copper, Gold
Contact Plating Spec.	50 μin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Passivated Stainless S	Steel Passivated Stainless Stee
Body Plating Spec.	SAE-AMS-2700	SAE-AMS-2700
Coupling Nut Material & Pla	nting Passivated Stainless S	Steel Passivated Stainless Stee
Coupling Nut Plating Spec.	SAE-AMS-2700	SAE-AMS-2700
Hex Size	5/16 inch	9/16 Inch
Torque	7 in-lbs 0.79 Nn	n 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:

FMC00638 - xx

cm = Centimeters
<black</pre>

Length

Example: FMC00638-12 = 12 inches long cable

FMC00638-100cm = 100 cm long cable





Low Loss SMA Male to RA TNC Male Cable LL142 Coax 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: Low Loss SMA Male to RA TNC Male Cable LL142 Coax in 48 Inch FMC00638-48

URL: https://www.fairviewmicrowave.com/low-loss-sma-male-to-ra-tnc-male-cable-II142-coax-fmc00638-48-p.aspx







