

Low Loss SMA Male to RA SMA Male Cable LI 142 Coax in 12 Inch



FMC00933/0002-12

Configuration

· Connector 1: SMA Male

· Connector 2: SMA Male Right Angle

Cable Type: LL142Coax Flex Type: Flexible

Features

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

Applications

· General Purpose

· Laboratory Use

Description

The SMA male to RA SMA male 12 inch cable using LL142 coax, part number FMC00933/0002-12, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA 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 FMC00933/0002-12 SMA male to SMA 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.5:1	
Velocity of Propagation		80		%
Capacitance		25 [82.02]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.38	0.41	0.47	0.54	0.65	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.





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Mechanical Specifications

Cable Assembly

12 in [304.8 mm] Length Width/Diameter 0.5 in [12.7 mm] Weight 0.054 lbs [24.49 g]

Cable

Cable Type LL142 Impedance 50 Ohms Inner Conductor Type Solid Copper, Silver Inner Conductor Material and Plating PTFE

Dielectric Type Number of Shields Shield Layer 1

Shield Layer 2 Shield Layer 3 Jacket Material Jacket Diameter

Repeated Minimum Bend Radius

Silver Plated Copper Tape Aluminum Polyester Silver Plated Copper Wire

FEP, Green 0.195 in [4.95 mm] 0.975 in [24.77 mm]

Connectors

Description	Connector 1	Connector 2		
Туре	SMA Male	SMA Male Right Angle		
Specification	MIL-STD-348	MIL-PRF-39012		
Impedance	50 Ohms	50 Ohms		
Configuration	Straight	Right Angle		
Mating Cycles	500			
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel		
Contact Plating Specification	50 μin minimum	50 μin minimum		
Dielectric Type	PTFE	PTFE		
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700		
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2700		
Hex Size	5/16 inch	5/16 Inch		
Torque	7 in-lbs 0.79 Nm	5 in-lbs 0.57 Nm		

Environmental Specifications

Operating Range Temperature -55 to +165 deg C





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FMC00933/0002-12

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

FMC00933/0002 Part Number Configuration: - YY 1111 - Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number

Example: FMC00933/0002-12 = 12 inches long cable FMC00933/0002-100cm = 100 cm long cable

Low Loss SMA Male to RA SMA Male Cable LL142 Coax in 12 Inch from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Low Loss SMA Male to RA SMA Male Cable LL142 Coax in 12 Inch FMC00933/0002-12

URL: https://www.fairviewmicrowave.com/sma-male-ra-sma-male-cable-ll142-coax-fmc00933-0002-12-p.aspx

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