

FMC00646/0002 DATA SHEET

Low Loss SMA Male to SMA Male Cable LL142 Coax

The SMA male to SMA male 12 inch cable using LL142 coax, part number FMC00646/0002, 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 FMC00646/0002 SMA male to SMA male cable assembly operates to 18 GHz. 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	Т	ур	Max	ι	Inits
Frequency Range	DC			18		GHz
VSWR				1.4:1		
Velocity of Propagation		8	30			%
Capacitance		25 [8	32.02]		pF/fl	t [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.075	0.1	0.16	0.23	0.34	dB

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.085 lbs [38.56 g]

Cable

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

LL142
50 Ohms
Solid
Copper, Silver
PTFE
Number of Shields
3
Silver Plated C

Shield Layer 1 Silver Plated Copper Tape
Shield Layer 2 Aluminum Polyester
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]



Configuration:

- SMA Male
- SMA Male
- LL142

Features:

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

Applications:

- General Purpose
- Laboratory Use

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (9

Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689

www.fairviewmicrowave.com sales@fairviewmicrowave.com





Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	SMA Male	
Specification	MIL-STD-348	MIL-STD-348	
Impedance	50 Ohms	50 Ohms	
Mating Cycles	500	500	
Contact Material & Plating	Beryllium Copper, Gold over Ni	ckelBeryllium Copper, Gold o	ver Nicke
Contact Plating Spec.	50 µin minimum	50 µin minimum	
Dielectric Type	PTFE	PTFE	
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Body Plating Spec.	SAE-AMS-2700	SAE-AMS-2700	
Coupling Nut Material & Pla	ting Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Plating Spec.	SAE-AMS-2700	SAE-AMS-2700	
Hex Size	5/16 inch	5/16 inch	
Torque	7 in-lbs 0.79 Nm	7 in-lbs 0.79 Nm	

Environmental Specifications

TemperatureOperating Range

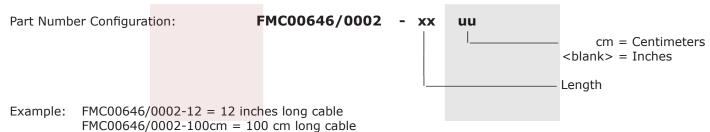
-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order



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Low Loss SMA Male to SMA Male Cable LL142 Coax 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 SMA Male Cable LL142 Coax FMC00646/0002

URL: https://www.fairviewmicrowave.com/low-loss-sma-male-to-sma-male-cable-ll142-coax-in-12-inch-fmc00646-0002-p.aspx



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