

Low Loss RA SMA Male to RA SMA Male Cable LL142 Coax in 150 cm with LF Solder

Fairview High performance test cables boast 83% phase velocity and offer excellent low loss performance up to 18 GHz. The FMCA1258 cable assemblies use durable stainless steel connectors and an FEP jacket. The connector/cable interface has double heat-shrink booting which provides added strain relief while increasing the durability of the cable assembly. The low attenuation per foot in a 0.195 inch diameter cable creates a cable that has good flexibility while offering industry leading loss characteristics. All FMCA1258 cable assemblies are 100% RF tested to ensure the VSWR and insertion loss specifications meet or exceed Fairview's published electrical specifications.

Electrical Specifications

Description	Min	Т	ур	Max	U	Jnits	
Frequency Range	DC			18		GHz	
VSWR				1.45:1			
Return Loss				14.72		dB	
Insertion Loss				2.38		dB	
Velocity of Propagation		8	33			%	
RF Shielding	95					dB	
Capacitance		25 [8	32.02]		pF/fl	t [pF/n	n]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.91	1.1	1.4	1.84	2.38	dB
Insertion Loss (Typ.)	0.76	0.91	1.2	1.54	2.03	dB

Mechanical Specifications

Cable Assembly

Jacket Material

 Length*
 59.06 in [150.01 cm]

 Weight
 0.187 lbs [84.82 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 Shield Layer 1 Silver Plated Copper Tape Shield Layer 2 Aluminum Polyester Shield Layer 3 Silver Plated Copper Wire

Jacket Diameter 0.195 in [4.95 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]

FEP, Green

FMCA1258-150CM DATA SHEET



Configuration:

- SMA Male Right Angle
- SMA Male Right Angle
- LL142

Features:

- Max Frequency 18 GHz
- Shielding Effectivity > 95 dB
- 83% Phase Velocity
- Triple Shielded
- FEP Jacket
- 83% Velocity of Propagation (Vop)
- Shielding effectiveness >95 dB
- Maximum VSWR is < 1.45:1 to 18 GHz
- Minimum Bend Radius of 1 inch
- Operating Temperature range of -55 to +125°C
- 100% RF Tested
- Custom lengths available

Applications:

- General Purpose
- Laboratory Use
- Long Run coaxial cable applications
- Antenna testing
- Low loss system cables

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

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

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FMCA1258-150CM DATA SHEET

Connectors

Description	Connector 1	Connector 2		
Туре	SMA Male	SMA Male		
Specification	MIL-PRF-39012	MIL-PRF-39012		
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Contact Plating Spec.	ASTM-B488, 50µ In. MinA	STM-B488, 50µ In. 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 & Plating	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	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm		

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

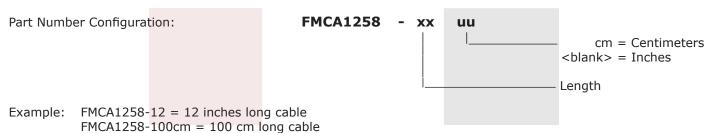
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Values at 25°C, sea level.

How to Order



301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689





Low Loss RA SMA Male to RA SMA Male Cable LL142 Coax in 150 cm with LF Solder 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 RA SMA Male to RA SMA Male Cable LL142 Coax in 150 cm with LF Solder FMCA1258-150CM

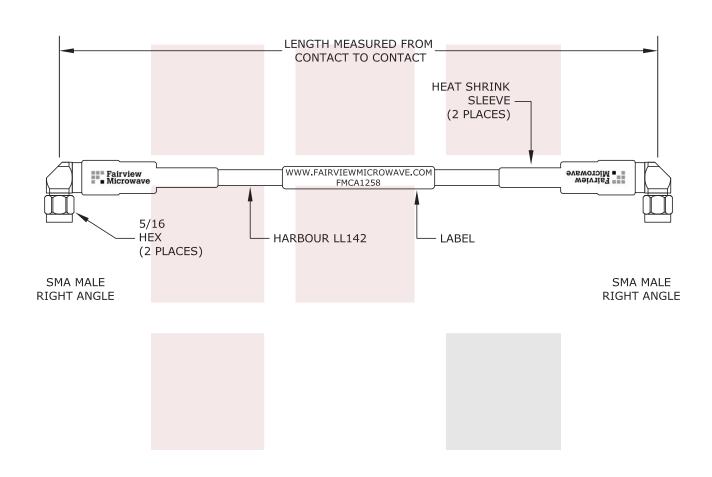
URL: https://www.fairviewmicrowave.com/low-loss-ra-sma-male-ra-sma-male-cable-ll142-coax-fmca1258-150cm-p.aspx



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NOTE: LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED. LONGER THAN 48" WILL BE 6" AWAY FROM CONNECTOR.

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].					
Low Loss RA SMA Male to RA SMA Male Cable LL142	DWG NO FMCA1258			CAGE CODE 3FKR5		
Coax in 150 cm with LF Solder	CAD FILE 072216	SHEET	SCALE N	N/A	SIZE A	2233