



Low Loss RA SMA Male to RA SMA Male Cable LL142 Coax 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 Мах		ι	Units	
Frequency Range	DC			18		GHz	
VSWR				1.45:1			
Return Loss				14.72		dB	
Insertion Loss				0.4		dB	
				1.31		dB	
Velocity of Propagation		8	33			%	
RF Shielding	95					dB	
Capacitance		25 [8	5 [82.02] pF/ft [t [pF/n	า]	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.1	0.14	0.2	0.29	0.4	dB/ft
	0.33	0.46	0.66	0.95	1.31	dB/m
Insertion Loss (Typ.)	0.07	0.1	0.16	0.23	0.33	dB/ft
	0.23	0.33	0.52	0.75	1.08	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.05 dB \times SQRT(Frequency GHz)$ per connector.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]
Weight 0.099 lbs [44.91 g]

Cable

Cable Type
LL142
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields

LL142
S0 Ohms
Copper, Silver
PTFE
3



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

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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]

One Time Minimum Bend Radius 1 in [25.4 mm]

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, Go	old Beryllium Copper, Gold
Contact Plating Spec.	ASTM-B488, 50μ In.	MinASTM-B488, 50µ In. Minimu
Dielectric Type	PTFE	PTFE
Body Material & Plating	Passivated Stainless S	Steel Passivated Stainless Steel
Body Plating Spec.	SAE-AMS-2700	SAE-AMS-2700
Coupling Nut Material & Pla	nting Passivated Stainless S	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

-55 to +125 deg C Operating Range

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMCA1258 - xx uu cm = Centimeters <black> = Inches Length

Example: FMCA1258-12 = 12 inches long cable

FMCA1258-100cm = 100 cm long cable





Low Loss RA SMA Male to RA SMA Male Cable LL142 Coax 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.

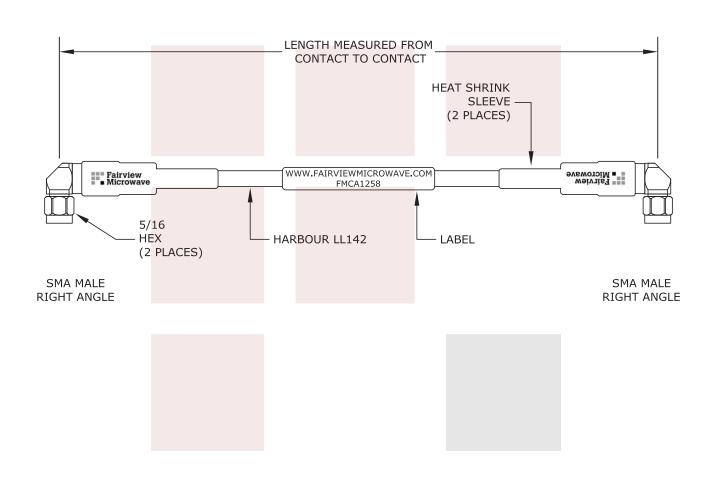
Click the following link to obtain additional part information: Low Loss RA SMA Male to RA SMA Male Cable LL142 Coax with LF Solder FMCA1258

URL: https://www.fairviewmicrowave.com/low-loss-ra-sma-male-ra-sma-male-cable-II142-coax-fmca1258-p.aspx









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 with LF Solder	CAD FILE 072216	SHEET	SCALE	N/A	SIZE A	2233