



Slide-On BMA Plug Bulkhead to RA SMA Male Cable LMR-100 Coax

The BMA plug slide-on bulkhead to RA SMA male cable using LMR-100 coax, part number FMCA1642, from Fairview Microwave is in-stock and ships same day. This Fairview BMA to SMA cable assembly has a plug to male gender configuration with 50 ohm flexible LMR-100A-PVC coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1642 BMA plug to SMA male cable assembly operates to 5.8 GHz. The right angle SMA interface on the LMR-100A-PVC cable allows for easier connections in tight spaces. Our RF cable assembly with BMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB.

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	Ту	ур М	lax	Units	
Frequency Range	DC		5	5.8	GHz	
VSWR			1.	4:1		
Return Loss			15	5.56	dB	
Velocity of Propagation		6	6		%	
RF Shielding	90				dB	
Group Delay		1.54 [5.05]		ns/ft [ns/n	n]
Capacitance		30.8 [1	01.05]		pF/ft [pF/n	n]
Inductance		0.077	[0.25]		uH/ft [uH/r	n]
DC Resistance Inner Cor	nductor	81 [26	55.75]		Ω/1000ft [Ω/I	Km]
DC Resistance Outer Cor	nductor	9.5 [3	1.17]		Ω/1000ft [Ω/I	Km]
Jacket Spark			2,	000	Vrms	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.12	0.17	0.24	0.4	0.64	dB/ft
	0.39	0.56	0.79	1.31	2.1	dB/m

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

Diameter

0.315 in [8 mm]





Configuration:

- Slide-On BMA Plug Bulkhead
- SMA Male Right Angle
- LMR-100A-PVC

Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

Applications:

- General Purpose
- · Laboratory Use
- Rack and Panel
- BMA Cable RF Backplanes
- Phased Array Interconnects
- High Speed Switching Networks
- Blind Mate BMA Test

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Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating

Dielectric Type

Number of Shields Shield Layer 1 Shield Layer 2

Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius

Bending Moment Flat Plate Crush Tensile Strength LMR-100A-PVC 50 Ohms Solid

Copper Clad Steel

PE 2

Aluminum Tape Tinned Copper Braid

PVC, Black

0.11 in [2.79 mm]

0.25 in [6.35 mm] 1 in [25.4 mm] 0.1 lbs-ft [0.14 N-m] 10 lbs/in [0.18 Kg/mm] 15 lbs [6.8 Kg]

Connectors

Description	Connect	or 1	Connecto	r 2
Туре	BMA PI	ug	SMA Male)
Mount Method	Bulkhe	ad		
Specification			MIL-STD-34	-8A
Impedance	50 Ohr	ns	50 Ohms	
Connection Method	Slide-C)n		
Contact Material & Plating	Beryllium Cop	per, Gold	Brass, Gold	d
Contact Plating Spec.	51.18µ in. m	inimum	50 µin minim	um
Dielectric Type	PTFE		PTFE	
Outer Cond Material & Plat	ing Passivated Stair	nless Steel		
Body Material & Plating	Passivated Stair	nless Steel	Brass, Nick	el
Body Plating Spec.			100 µin minin	num
Coupling Nut Material & Pla	ating		Brass, Nick	el
Coupling Nut Plating Spec.		100 µin minimum		
Hex Size	8 mm	າ	5/16 inch	1
Torque			3 in-lbs [0.34	Nm]

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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

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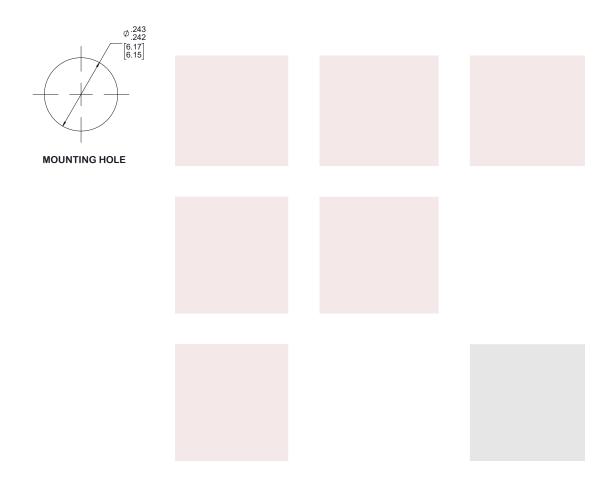
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^{*}All cable assemblies have a length tolerance of 1.5% or \pm 3/8", whichever is greater.





Typical Performance Data



How to Order

Part Number Configuration:

FMCA1642 - xx uu

| cm = Centimeters |
| chlark > = Inches |
| Length

Example: FMCA1642-12 = 12 inches long cable

FMCA1642-100cm = 100 cm long cable





Slide-On BMA Plug Bulkhead to RA SMA Male Cable LMR-100 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Slide-On BMA Plug Bulkhead to RA SMA Male Cable LMR-100 Coax FMCA1642

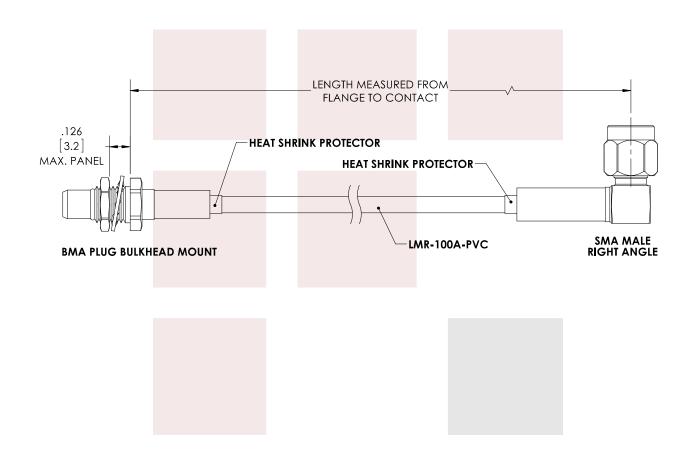
The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: https://www.fairviewmicrowave.com/bma-plug-ra-sma-male-cable-lmr100-coax-fmca1642-p.aspx

described	herein. It may be necessar	y to make m	odifications to the part a	and/or t	he documentation of the par	t, in order
to implem	ent improvements. Fairview	Microwave i	reserves the right to mak	ke such	changes as required. Unless	otherwise
stated, all	specifications are nominal.	Fairview Mi	crowave does not make	any rep	resentation or warranty rega	arding the
				view Mi	crowave does not assume a	ny liability
arising out	t of the use of any part or do	ocumentation	<u>1</u> .			







STANDARD TOLERANCES
.X ±0.2

XX ±0.01 XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].					
Slide-On BMA Plug Bulkhead to RA SMA Male Cable LMR-100 Coax	DWG NO FMCA164	CAGE CODE 3FKR5				
LIVIN 100 COUX	CAD FILE 12/28/2017	SHEET	SCAL	.E N/A SIZE A	CN2245	