

FMCA1642-6 DATA SHEET

Slide-On BMA Plug Bulkhead to RA SMA Male Cable LMR-100 Coax in 6 Inch

The BMA plug slide-on bulkhead to RA SMA male 6 inch cable using LMR-100 coax, part number FMCA1642-6, 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 FMCA1642-6 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	p Max	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Return Loss			15.56	dB
Velocity of Propagation		6	6	%
RF Shielding	90			dB
Group Delay		1.54 [5.05]	ns/ft [ns/m]
Capacitance		30.8 [1	01.05]	pF/ft [pF/m]
Inductance		0.077	[0.25]	uH/ft [uH/m]
DC Resistance Inner Cor	nductor	81 [26	55.75]	Ω/1000ft [Ω/Km]
DC Resistance Outer Cor	nductor	9.5 [3	1.17]	Ω/1000ft [Ω/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.)	0.26	0.29	0.32	0.4	0.52	dB

Mechanical Specifications

Cable Assembly

Length* 6 in [152.4 mm]
Diameter 0.315 in [8 mm]

Cable

Cable Type LMR-100A-PVC





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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Impedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper Clad Steel

PE

Number of Shields 2
Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material PVC, Black

Jacket Diameter 0.11 in [2.79 mm]

One Time Minimum Bend Radius 0.25 in [6.35 mm]

Repeated Minimum Bend Radius

1 in [25.4 mm]

Bending Moment

Flat Plate Crush

0.1 lbs-ft [0.14 N-m]
10 lbs/in [0.18 Kg/mm]

Tensile Strength 15 lbs [6.8 Kg]

Connectors

Dielectric Type

Description	Connector 1	Connector 2	
Туре	BMA Plug	SMA Male	
Mount Method	Bulkhead		
Specification		MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Connection Method	Slide-On		
Contact Material & Plating	Beryllium Copper, Go	old Brass, Gold	
Contact Plating Spec.	51.18µ in. minimun	n 50 µin minimum	
Dielectric Type	PTFE	PTFE	
Outer Cond Material & Plati	ing Passivated Stainless S	teel	
Body Material & Plating	Passivated Stainless S	teel Brass, Nickel	
Body Plating Spec.		100 µin minimum	
Coupling Nut Material & Pla	ating	Brass, Nickel	
Coupling Nut Plating Spec.		100 µin minimum	
Hex Size	8 mm	5/16 inch	
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

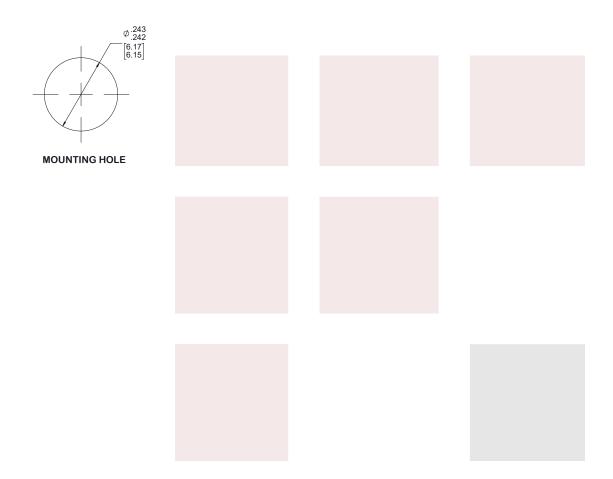
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^{*}All cable assemblies have a length tolerance of 1.5% or \pm 3/8", whichever is greater.





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 in 6 Inch 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.

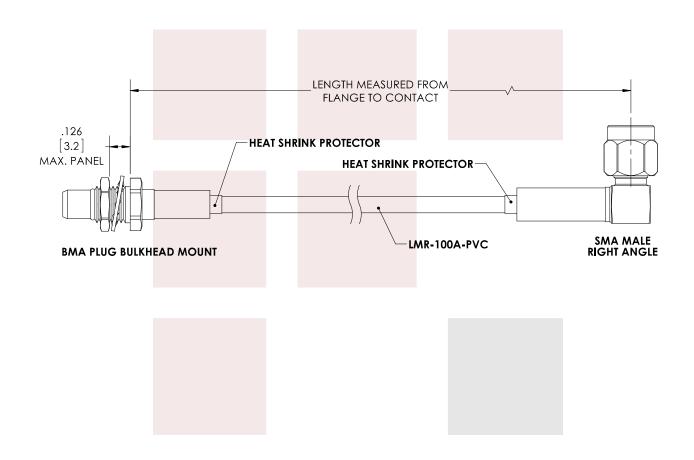
Click the following link to obtain additional part information: Slide-On BMA Plug Bulkhead to RA SMA Male Cable LMR-100 Coax in 6 Inch FMCA1642-6

URL: https://www.fairviewmicrowave.com/bma-plug-ra-sma-male-cable-lmr100-coax-fmca1642-6-p.aspx









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 in 6 Inch	DWG NO FMCA1642			CAGE CODE 3FKR5		
LIMIX-100 COAX III O IIICII	CAD FILE 12/28/2017	SHEET	SCAI	LE N/A SIZE A	CN2245	