

FMCA1454-4 DATA SHEET

Snap-On RA MMBX Plug to SMA Male Cable RG316-DS Coax in 4 Inch

Fairview Microwave's MMBX cable assemblies are part of our full line of RF interconnects available for same-day shipping. These MMBX cable assemblies are designed for test applications or connection of your MMBX system components. With a high frequency range up to 3 GHz, this family of MMBX cables can also be used to connect your panels to PCB's with between series options like MMBX-to-SMA, MMBX-to-N or MMBX-to-TNC assemblies. There are hundreds of possible cable assembly configurations to choose from, all available same day.

This MMBX cable assembly datasheet PDF contains specifications, CAD drawing and dimensions that are shown below. Fairview Microwave not only has many MMBX cable assembly options, but also a wide selection of RF, microwave and millimeter wave cable assemblies which allows RF designers to customize their configurations to whatever is required. Whether the need is to provide an I/O for a board design or simply create a custom cable assembly configuration, Fairview Microwave has the right cable assemblies for the job. Fairview can also expertly build your custom RF cable assemblies for you and ship same day.

Electrical Specifications

Description	Min	T	ур	Max	ι	Jnits	
Frequency Range	DC			3		GHz	
VSWR				1.4:1			
Return Loss		-15	5.56			dB	
Insertion Loss				0.36		dB	
Velocity of Propagation		7	70			%	
Capacitance		29.4 [96.46] p			pF/f	/ft [pF/m]	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Max.)	0.23	0.25	0.27	0.29	0.36	dB

Mechanical Specifications

Cable Assembly

Length* 4 in [101.6 mm]
Diameter 0.315 in [8 mm]

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

RG316-DS 50 Ohms Stranded Copper Clad Steel, Silver PTFE 2 Silver Plated Copper Braid Silver Plated Copper Braid

FEP. Tan



Configuration:

- Snap-OnMMBX Plug Right Angle
- SMA Male
- RG316-DS

Features:

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket
- Snap-On mating
- Low Profile Right Angle Configurations
- SMA Bulkhead, N Bulkhead and TNC Bulkhead Between-Series Configurations

Applications:

- General Purpose
- Laboratory Use
- PCB Testing
- Low Profile MMBX Cable Jumpers
- PCB-to-Panel Connection

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Jacket Diameter 0.114 in [2.9 mm]

Repeated Minimum Bend Radius 0.6 in [15.24 mm]

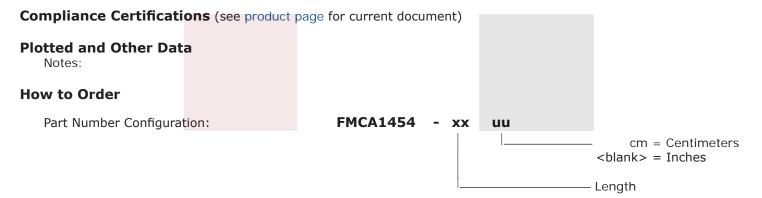
Connectors

Description	Connector	1	Connector 2				
Туре	MMBX Plug		SMA Male				
Specification			MIL-STD-348A				
Impedance	50 Ohms		50 Ohms				
Connection Method	Snap-On						
Mating Cycles	100						
Contact Material & Plating	Beryllium Copper,	d Brass, Gold					
Contact Plating Spec.			30 µin minimum				
Dielectric Type	PTFE		PTFE				
Outer Cond Material & Plat	ng Brass, Gold						
Body Material & Plating	Brass, Gold		Brass, Nickel				
Body Plating Spec.			100 µin minimum				
Coupling Nut Material & Pla	ıting		Brass, Nickel				
Coupling Nut Plating Spec.			100 µin minimum				
Hex Size			5/16 inch				
Torque			3 in-lbs 0.34 Nm				

Environmental Specifications Temperature

Operating Range

-55 to +155 deg C



Example: FMCA1454-12 = 12 inches long cable

FMCA1454-100cm = 100 cm long cable





Snap-On RA MMBX Plug to SMA Male Cable RG316-DS Coax in 4 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: Snap-On RA MMBX Plug to SMA Male Cable RG316-DS Coax in 4 Inch FMCA1454-4

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order

URL: https://www.fairviewmicrowave.com/ra-mmbx-plug-sma-male-cable-rg316-coax-fmca1454-4-p.aspx

to implem	ent improvements.	. Fairview	Microwa	ave reserve	es the righ	it to mak	e such	changes i	as requ	iired. Unles	ss otl	herwise
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