

FMCA1454-12 **DATA SHEET**

Snap-On RA MMBX Plug to SMA Male Cable RG316-DS Coax in 12 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	Т	ур	Max	ι	Inits
Frequency Range	DC			3		GHz
VSWR				1.4:1		
Return Loss		-15	5.56			dB
Insertion Loss				0.67		dB
Velocity of Propagation		7	70			%
Capacitance		29.4 [96.46] pF/ft [p		t [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.)	0.28	0.33	0.39	0.48	0.67	dB

Mechanical Specifications

Cable Assembly

Length* 12 in [304.8 mm] Diameter 0.315 in [8 mm] Weight 0.082 lbs [37.19 g]

Cable

Cable Type **Impedance** Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2

RG316-DS

50 Ohms Stranded Copper Clad Steel, Silver PTFE Silver Plated Copper Braid

Silver Plated Copper Braid



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 Configu-
- · 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 Material FEP, Tan

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, G	old Brass, Gold		
Contact Plating Spec.		30 µin minimum		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plat	ing Brass, Gold			
Body Material & Plating	Brass, Gold	Brass, Nickel		
Body Plating Spec.		100 µin minimum		
Coupling Nut Material & Pla	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

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: FMCA1454 - xx

cm = Centimeters

Length

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 12 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 12 Inch FMCA1454-12

URL: https://www.fairviewmicrowave.com/ra-mmbx-plug-sma-male-cable-rg316-coax-fmca1454-12-p.aspx







