

# RA MMCX Plug to BNC Female Cable LMR-100 Coax in 150 CM

The RA MMCX plug to BNC female 150 cm cable using LMR-100 coax, part number FMC00318-150CM, from Fairview Microwave is in-stock and ships same day. This Fairview MMCX to BNC cable assembly has a plug to female gender configuration with 50 ohm flexible LMR-100A coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00318-150CM MMCX plug to BNC female cable assembly operates to 1 GHz. The right angle MMCX interface on the LMR-100A cable allows for easier connections in tight spaces. 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	Т	ур	Max	ι	Jnits	
Frequency Range	DC			1,000		MHz	
VSWR				1.4:1			
Velocity of Propagation		(	66			%	
RF Shielding	90					dB	
Group Delay		1.54	[5.05]		ns/f	t [ns/n	n]
Capacitance		30.8 [	101.05	]	pF/f	t [pF/n	<u>n]</u>
Inductance		0.077	7 [0.25]		uH/f	t [uH/r	n]
DC Resistance Inner Cor	nductor	81 [2	265.75]		Ω/100	Oft [Ω/I	Km]
DC Resistance Outer Cor	nductor	9.5 [	31.17]		Ω/100	Oft [Ω/I	Km]
Jacket Spark				2,000	١	/rms	

#### **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Typ.)	0.55	0.64	0.87	1.12	1.48	dB

#### **Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

#### **Mechanical Specifications**

#### **Cable Assembly**

Length\* Diameter 59.06 in [150.01 cm] 0.453 in [11.51 mm]

# FMC00318-150CM DATA SHEET



# **Configuration:**

- MMCX Plug Right Angle
- BNC Female
- LMR-100A

## **Features:**

- Max Frequency 1 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

# **Applications:**

- General Purpose
- Laboratory Use

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

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





#### Cable

Cable Type LMR-100A Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Steel

Dielectric Type 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

Repeated Minimum Bend Radius

1 in [25.4 mm]

Bending Moment

O.1 lbs-ft [0.14 N-m]

Flat Plate Crush

10 lbs/in [0.18 Kg/mm]

Tensile Strength 15 lbs [6.8 Kg]

#### Connectors

Description	Connector 1	Connector 2
Туре	MMCX Plug	BNC Female
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Contact Plating Spec.	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Gold	Brass, Nickel
Body Plating Spec.	3 µin minimum	100 µin minimum

#### Mechanical Specification Notes:

# **Environmental Specifications**

**Temperature** 

Operating Range -40 to +85 deg C Storage Range -70 to +85 deg C

#### **Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

Notes:

### **How to Order**

Example: FMC00318-12 = 12 inches long cable

FMC00318-100cm = 100 cm long cable

Copyright © 2019

REV 1 Page 2 of 4

<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





RA MMCX Plug to BNC Female Cable LMR-100 Coax in 150 CM 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: RA MMCX Plug to BNC Female Cable LMR-100 Coax in 150 CM FMC00318-150CM

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

URL: https://www.fairviewmicrowave.com/ra-mmcx-plug-bnc-female-cable-lmr100-coax-fmc00318-150cm-p.aspx

described h	nerein. It may be necessar	y to mak	e modifications	to the part a	ind/or tl	he documentation of the par	t, in order
to impleme	nt improvements. Fairview	Microwa	ve reserves the	right to mak	e such o	changes as required. Unless	otherwise
						resentation or warranty reg	
				ose, and Fair	view Mi	crowave does not assume a	ny liability
arising out	of the use of any part or do	ocumenta	ation.				



# FMC00318-150CM DATA SHEET

