

FMC00410-100CM DATA SHEET

RA SMA Male to BNC Male Cable LMR-240-UF Coax in 100 cm

The RA SMA male to BNC male 100 cm cable using LMR-240-UF coax, part number FMC00410-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to BNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00410-100CM SMA male to BNC male cable assembly operates to 4 GHz. The right angle SMA interface on the LMR-240-UF 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			4		GHz	
VSWR				1.4:1			
Velocity of Propagation		8	34			%	
RF Shielding	90					dB	
Group Delay		1.21	[3.97]		ns/f	t [ns/n	n]
Capacitance		24.2	[79.4]		pF/f	t [pF/n	n]
Inductance		0.06	[0.2]		uH/f	t [uH/r	n]
DC Resistance Inner Cor	nductor	4.28	[14.04]		Ω/100	Oft [Ω/I	Km]
DC Resistance Outer Cor	nductor	3.89	[12.76]		Ω/100	Oft [Ω/I	Km]
Jacket Spark				5,000	١	/rms	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Max.)	0.37	0.4	0.43	0.5	0.86	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.2 dB for the SMA Male connector and 0.1 dB for the BNC Male connector.

Mechanical Specifications

Cable Assembly

Length* 39.37 in [100 cm] Diameter 0.58 in [14.73 mm]

Cable

Cable Type LMR-240-UF



Configuration:

- SMA Male Right Angle
- BNC Male
- LMR-240-UF

Features:

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- · Double Shielded
- TPE Jacket

Applications:

- General Purpose
- Laboratory Use

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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 50 Ohms Stranded Copper PE (F)

2 Aluminum Tape Tinned Copper Braid

TPE, Black 0.24 in [6.1 mm]

0.75 in [19.05 mm] 2.5 in [63.5 mm] 0.13 lbs-ft [0.18 N-m] 13 lbs/in [0.23 Kg/mm]

80 lbs [36.29 Kg]

Connectors

Description	Connector 1		Connector 2		
Туре	SMA Male		BNC Male		
Specification	MIL-STD-348				
Impedance	50 Ohn	ns	50 Ohms		
Contact Material & Plating	Phosphor Bron	ize, G	old Brass, Gold		
Contact Plating Spec.	ASTM B4	188			
Dielectric Type	Teflor	1	PTFE		
Outer Cond Material & Plati	ng		Brass, Tri-Metal		
Body Material & Plating	Brass, Tri-N	Vletal	Brass, Tri-Metal		
Coupling Nut Material & Pla	iting Brass, Tri-N	Vletal			
Hex Size	5/16 inch				

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

How to Order

Part Number Configuration:

Example: FMC00410-12 = 12 inches long cable

FMC00410-100cm = 100 cm long cable





RA SMA Male to BNC Male Cable LMR-240-UF Coax in 100 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 SMA Male to BNC Male Cable LMR-240-UF Coax in 100 cm FMC00410-100CM

URL: https://www.fairviewmicrowave.com/ra-sma-male-bnc-male-cable-lmr240uf-coax-fmc00410-100cm-p.aspx





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