



RP SMA Male to RA QMA Male Cable LMR-240 Coax

The RP SMA male to RA QMA male cable using LMR-240 coax, part number FMC00423, from Fairview Microwave is in-stock and ships same day. This Fairview reverse polarity SMA to QMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00423 reverse polarity SMA male to QMA male cable assembly operates to 4 GHz. The right angle QMA interface on the LMR-240 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	Inits	
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	3.2	[10.5]		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.)	0.02	0.03	0.03	0.05	0.14	dB/ft dB/m
	0.07	0.1	0.1	0.16	0.46	ив/пп

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.1~\mathrm{dB}$ for the SMA Male connector and $0.2~\mathrm{dB}$ for the QMA Male connector.

Mechanical Specifications Cable Assembly

Cable

Cable Type Impedance LMR-240 50 Ohms



- SMA Male Reverse Polarity
- QMA Male Right Angle
- LMR-240

Features:

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

Applications:

- General Purpose
- · Laboratory Use

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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 Solid Copper PE (F) 2

Aluminum Tape Tinned Copper Braid

PE, Black

0.24 in [6.1 mm]

0.75 in [19.05 mm] 2.5 in [63.5 mm] 0.25 lbs-ft [0.34 N-m]

20 lbs/in [0.36 Kg/mm] 80 lbs [36.29 Kg]

Connectors

Description	Connector 1	Connector 2				
Туре	SMA Male	QMA Male				
Polarity	Reverse Polarity					
Impedance	50 Ohms	50 Ohms				
Contact Material & Plating	Beryllium Copper, G	old Beryllium Copper, Gold				
Dielectric Type	PTFE	PTFE				
Outer Cond Material & Plati	ng	Brass, Nickel				
Body Material & Plating	Brass, Gold	Brass, Nickel				
Coupling Nut Material & Pla	ting Brass, Gold					
Hex Size	5/16 inch					
Torque	5 in-lbs 0.57 Nm	า				

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: FMC00423-12 = 12 inches long cable

FMC00423-100cm = 100 cm long cable





RP SMA Male to RA QMA Male Cable LMR-240 Coax 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: RP SMA Male to RA QMA Male Cable LMR-240 Coax FMC00423

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/sma-male-ra-qma-male-cable-lmr240-coax-fmc00423-p.aspx

to implem	ent improvements	. Fairview M	licrowa	ave reserve	es the righ	t to mak	e such	changes as	required.	Unless	otherwise
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