

FMC00255-50CM DATA SHEET

Low Loss RP SMA Male to N Male Cable LMR-240-UF Coax in 50 CM

The RP SMA male to type N male 50 cm cable using LMR-240-UF coax, part number FMC00255-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview reverse polarity SMA to type N 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 FMC00255-50CM reverse polarity SMA male to type N male cable assembly operates to 5.8 GHz. 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	Units	
Frequency Range		DC			5.8		GHz
VSWR					1.4:1		
Velocity of Propagation			3	34			%
RF Shielding		90					dB
Group Delay			1.21	[3.97]		ns/fl	t [ns/m]
Capacitance			24.2	[79.4]		pF/fl	t [pF/m]
Inductance			0.06	[0.2]		uH/fl	t [uH/m]
DC Resistance Inner Conductor		4.28	[14.04]		Ω/100	0ft [Ω/Km]	
DC Resistance Outer Cor	nductor		3.89	[12.76]		Ω/1000ft [Ω	
Jacket Spark					5,000	V	/rms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.28	0.31	0.36	0.45	0.6	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 per connector

Mechanical Specifications

Cable Assembly

Length* 19.68 in [499.87 mm]
Diameter 0.827 in [21.01 mm]

Cable

Cable Type LMR-240-UF Impedance 50 Ohms



Configuration:

- SMA Male Reverse Polarity
- N Male
- LMR-240-UF

Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- · Double Shielded
- TPE 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 Stranded Copper PE (F)

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	N Male			
Polarity	Reverse Polarity	•			
Impedance	50 Ohms	50 Ohms			
Contact Material & Plating	Beryllium Copper, G	old Phosphor Bronze, Gold			
Dielectric Type	PTFE	PTFE			
Body Material & Plating	Brass, Gold	Brass, Nickel			
Coupling Nut Material & Pla	ting Brass, Gold	Brass, Nickel			
Hex Size	5/16 inch				
Torque	5 in-lbs 0.57 Nm	1			

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range Storage Range

-40 to +85 deg C

-70 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: FMC00255 - xx uu | cm = Centimeters | cblank> = Inches

Example: FMC00255-12 = 12 inches long cable

FMC00255-100cm = 100 cm long cable

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- Length

^{*}All cable assemblies have a length tolerance of 1.5% or \pm 3/8", whichever is greater.





Low Loss RP SMA Male to N Male Cable LMR-240-UF Coax in 50 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: Low Loss RP SMA Male to N Male Cable LMR-240-UF Coax in 50 CM FMC00255-50CM

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

URL: https://www.fairviewmicrowave.com/low-loss-sma-male-n-male-cable-lmr240uf-coax-fmc00255-50cm-p.aspx

described	herein. It may	be necessar	y to ma	ke modification	ons to the part a	and/or t	he documentatio	n of the part	, in order
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