

FMC00613

Configuration

Connector 1: SMA Male
Connector 2: N Male
Cable Type: LMR-240-UF
Coax Flex Type: Flexible

Features

- · Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- · 84% Phase Velocity
- · Double Shielded
- TPE Jacket

Applications

· General Purpose

· Laboratory Use

Description

The SMA male to type N male cable using LMR-240-UF coax, part number FMC00613, from Fairview Microwave is in-stock and ships same day. This Fairview 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 FMC00613 SMA male to type N male cable assembly operates to 6 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.25:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		4.28 [14.04]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ohms/1000ft [Ohms/Km]
Jacket Spark			5,000	Vrms

Specifications by Frequency

1



FMC00613

Part Number	Length	Description F1 F2 F3 F4 F5 Units Weight (lb	Weight (lbs)						
Part Number	Lengui	Frequency	250	500	1000	2500	6000	MHz	weight (ms)
FMC00613	Custom Lengths	Insertion Loss (Typ.)	0.046	0.066	0.096	0.155	0.212	dB/ft	
110100013	Available	ilisertion Loss (Typ.)	0.16	0.22	0.32	0.51	0.7	dB/m	
FMC00613-12	12 Inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.36	0.42	dB	0.14
FMC00613-24	24 Inch	Insertion Loss (Typ.)	0.3	0.34	0.4	0.51	0.63	dB	0.173
FMC00613-36	36 Inch	Insertion Loss (Typ.)	0.34	0.4	0.49	0.67	0.84	dB	0.205
FMC00613-60	60 Inch	Insertion Loss (Typ.)	0.43	0.53	0.68	0.98	1.26	dB	0.269
FMC00613-300	300 Inch	Insertion Loss (Typ.)	1.35	1.85	2.6	4.08	5.5	dB	0.909

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.1 dB

Loss due to Connector 2: 0.1 dB

Base Weight: 0.14 pounds

Additional Weight per Inch: 0.00267 pounds

Electrical Specification Notes: Values at 25°C, sea level.

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.13 lbs [58.97 g]

Cable

Cable Type LMR-240-UF Impedance 50 Ohms Inner Conductor Type Stranded Inner Conductor Material and Plating Copper Dielectric Type PF (F)

Dielectric Type PE (F)
Number of Shields 2
Shield Layer 1 Aluminum Tape

Shield Layer 2Tinned Copper BraidJacket MaterialTPE, BlackJacket Diameter0.24 in [6.1 mm]

One Time Minimum Bend Radius 0.75 in [19.05 mm]
Repeated Minimum Bend Radius 2.5 in [63.5 mm]
Bending Moment 0.13 lbs-ft [0.18 N-m]
Flat Plate Crush 13 lbs/in [0.23 Kg/mm]
Tensile Strength 80 lbs [36.29 Kg]



FMC00613

Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	N Male	
Specification	MIL-STD-348		
Impedance	50 Ohms	50 Ohms	
Configuration	Straight	Straight	
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold	
Contact Plating Specification	ASTM B488		
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Passivated Stainless Steel, Gold		
Body Material and Plating	Passivated Stainless Steel, Gold	Brass, Tri-Metal	
Body Plating Specification	SAE-AMS-2700		
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Tri-Metal	
Coupling Nut Plating Specification	SAE-AMS-2700		
Hex Size		13/16 inch	

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.





FMC00613

Typical Performance Data

How to Order



Example: FMC00613-12 = 12 inches long cable

FMC00613-100cm = 100 cm long cable

Low Loss SMA Male to N Male Cable LMR-240-UF Coax with Times Microwave Components from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Low Loss SMA Male to N Male Cable LMR-240-UF Coax with Times Microwave Components FMC00613

URL: https://www.fairviewmicrowave.com/low-loss-sma-male-to-n-male-cable-lmr-240-uf-coax-with-times-microwave-components-fmc00613-p.aspx

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