



FMC00420

Configuration

· Connector 1: SMA Male Right Angle

Connector 2: N MaleCable Type: LMR-240-UFCoax Flex Type: Flexible

Features

- · Max Frequency 5.8 GHz
- · Shielding Effectivity > 90 dB
- · 84% Phase Velocity
- · Double Shielded
- TPE Jacket

Applications

· General Purpose

· Laboratory Use

Description

The RA SMA male to type N male cable using LMR-240-UF coax, part number FMC00420, 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 FMC00420 SMA male to type N male cable assembly operates to 5.8 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

Minimum	Typical	Maximum	Units
DC		5.8	GHz
		1.4:1	
	84		%
90			dB
	1.21 [3.97]		ns/ft [ns/m]
	24.2 [79.4]		pF/ft [pF/m]
	0.06 [0.2]		uH/ft [uH/m]
	4.28 [14.04]		Ohms/1000ft [Ohms/Km]
	3.89 [12.76]		Ohms/1000ft [Ohms/Km]
	DC	DC 84 90 1.21 [3.97] 24.2 [79.4] 0.06 [0.2] 4.28 [14.04]	DC 5.8 1.4:1 84 90 1.21 [3.97] 24.2 [79.4] 0.06 [0.2] 4.28 [14.04]



FMC00420

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			5,000	Vrms

Specifications by Frequency

Part Number	Longth	Description	F1	F2	F3	F4	F5	Units	Moight (lbs)
Part Number	Length	Frequency	250	500	1000	2500	5800	MHz	Weight (lbs)
FMC00420	Custom Lengths	Insertion Loss (Typ.)	0.05	0.07	0.095	0.155	0.244	dB/ft	
1101000420	Available	1113C1 (1011 L033 (19p.)	0.16	0.22	0.32	0.51	0.81	dB/m	
FMC00420-12	12 inch	Insertion Loss (Typ.)	0.35	0.39	0.45	0.57	0.74	dB	0.14
FMC00420-24	24 inch	Insertion Loss (Typ.)	0.4	0.46	0.54	0.72	0.98	dB	0.173
FMC00420-36	36 inch	Insertion Loss (Typ.)	0.44	0.52	0.64	0.88	1.23	dB	0.205
FMC00420-60	60 inch	Insertion Loss (Typ.)	0.53	0.66	0.83	1.19	1.72	dB	0.269
FMC00420-300	300 inch	Insertion Loss (Typ.)	1.45	1.98	2.73	4.29	6.6	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: 0.25 dB

Loss due to Connector 2: 0.1 x sqrt(fGHz) dB

Base Weight: 0.14 pounds

Additional Weight per Inch: 0.00267 pounds

Mechanical Specifications

Cable Assembly

Weight 0.14 lbs [63.5 g]

Cable

Cable TypeLMR-240-UFImpedance50 OhmsInner Conductor TypeStrandedInner Conductor Material and PlatingCopperDielectric TypePE (F)

Dielectric Type
Number of Shields

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material TPE, Black
Jacket Diameter 0.24 in [6.1 mm]

One Time Minimum Bend Radius0.75 in [19.05 mm]Repeated Minimum Bend Radius2.5 in [63.5 mm]Bending Moment0.13 lbs-ft [0.18 N-m]Flat Plate Crush13 lbs/in [0.23 Kg/mm]

Tensile Strength 80 lbs [36.29 Kg]



FMC00420

Connectors

Description	Connector 1	Connector 2
Туре	SMA Male Right Angle	N Male
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass/Phosphor Bronze, Gold	Brass, Gold
Contact Plating Specification	50 μinch	
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 µinch	
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 μinch	
Hex Size	5/16 inch	13/16 inch

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:





FMC00420

Typical Performance Data

How to Order

Part Number Configuration:

FMC00420 - xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: FMC00420-12 = 12 inches long cable

FMC00420-100cm = 100 cm long cable

Low Loss RA 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 RA SMA Male to N Male Cable LMR-240-UF Coax With Times Microwave Components FMC00420

URL: https://www.fairviewmicrowave.com/low-loss-ra-sma-male-to-n-male-cable-lmr-240-uf-coax-with-times-microwave-components-fmc00420-p.aspx

The information contained within 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 to impliment improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

