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Fairview Microwave®
an INFINITE brand

The Right Parts, Right Away

Low Loss SMA Male to N Male Cable LMR-400-UF Coax with Times Microwave Components



FMC00254

Configuration

- Connector 1: SMA Male
- Connector 2: N Male
- Cable Type: LMR-400-UF
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- TPE Jacket

Applications

- General Purpose
- Laboratory Use

Description

The SMA male to type N male cable using LMR-400-UF coax, part number FMC00254, 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-400-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00254 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			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.07 [3.51]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			335	Vrms

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
FMC00254	Custom Lengths Available	Insertion Loss (Typ.)	0.023	0.035	0.05	0.081	0.112	dB/ft	
			0.08	0.12	0.17	0.27	0.37	dB/m	
FMC00254-12	12 inch	Insertion Loss (Typ.)	0.23	0.24	0.25	0.29	0.32	dB	0.239
FMC00254-24	24 inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.37	0.43	dB	0.326
FMC00254-36	36 inch	Insertion Loss (Typ.)	0.27	0.31	0.35	0.45	0.54	dB	0.413
FMC00254-60	60 inch	Insertion Loss (Typ.)	0.32	0.38	0.45	0.61	0.76	dB	0.587
FMC00254-300	300 inch	Insertion Loss (Typ.)	0.78	1.08	1.45	2.23	3	dB	2.327

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:	0.239	pounds
Additional Weight per Inch:	0.00725	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.239 lbs [108.41 g]

Cable

Cable Type	LMR-400-UF
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	TPE, Black
Jacket Diameter	0.405 in [10.29 mm]
One Time Minimum Bend Radius	1 in [25.4 mm]
Repeated Minimum Bend Radius	4 in [101.6 mm]
Bending Moment	0.38 lbs-ft [0.52 N-m]
Flat Plate Crush	20 lbs/in [0.36 Kg/mm]
Tensile Strength	160 lbs [72.57 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50µ" Minimum	50µ" Minimum
Dielectric Type	Teflon	PTFE
Outer Conductor Material and Plating		Brass, Tri-Metal
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	
Torque	7 in-lbs 0.79 Nm	

Environmental Specifications

Operating Range Temperature	-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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Typical Performance Data

How to Order

Part Number Configuration: **FMC00254 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- FMC00254 — Base Number

Example: FMC00254-12 = 12 inches long cable
FMC00254-100cm = 100 cm long cable

Low Loss SMA Male to N Male Cable LMR-400-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-400-UF Coax with Times Microwave Components FMC00254

URL: https://www.fairviewmicrowave.com/low-loss-sma-male-to-n-male-cable-lmr-400-uf-coax-with-times-microwave-components-fmc00254-p.aspx

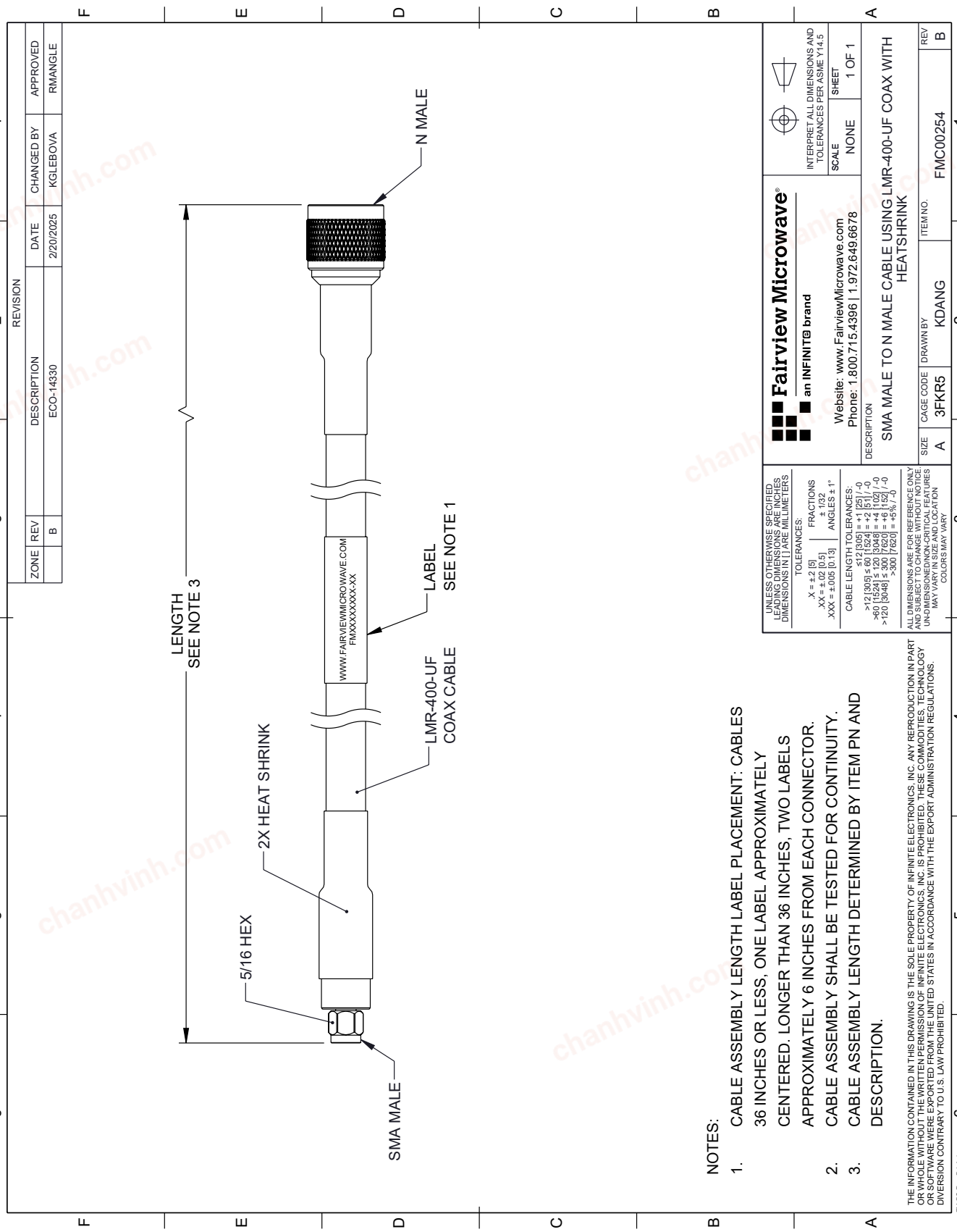
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FMC00254 CAD Drawing

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