

## Low Loss RA N Male to RA N Male Cable LMR-LW400 Coax with Times Microwave Components



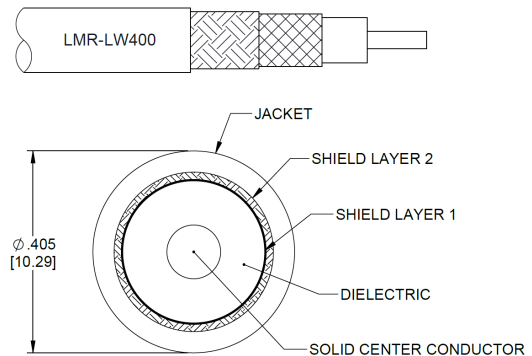
### FMC00853

#### Configuration

- Connector 1: N Male Right Angle
- Connector 2: N Male Right Angle
- Cable Type: LMR-LW400
- Coax Flex Type: Flexible

#### Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket
- 500 Mating Cycles



#### Applications

- General Purpose
- Laboratory Use

#### Description

The RA type N male to RA type N male cable using LMR-LW400 coax, part number FMC00853, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-LW400 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00853 type N male to type N male cable assembly operates to 8 GHz. The right angle type N interfaces on the LMR-LW400 cable allow 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
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		1.39 [4.56]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		6.1 [20.01]		Ohms/1000ft [Ohms/Km]

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**FMC00853**

**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					MHz	
FMC00853	Custom Lengths Available	Insertion Loss (Typ.)	0.03	0.04	0.06	0.086	0.13	dB/ft	
			0.1	0.14	0.2	0.29	0.43	dB/m	
FMC00853-12	12 inch	Insertion Loss (Typ.)	0.43	0.45	0.46	0.49	0.53	dB	0.321
FMC00853-36	36 inch	Insertion Loss (Typ.)	0.49	0.53	0.58	0.66	0.79	dB	0.422
FMC00853-60	60 inch	Insertion Loss (Typ.)	0.54	0.61	0.7	0.83	1.05	dB	0.522
FMC00853-120	120 inch	Insertion Loss (Typ.)	0.68	0.81	1	1.26	1.7	dB	0.772
FMC00853-300	300 inch	Insertion Loss (Typ.)	1.1	1.43	1.9	2.55	3.65	dB	1.522

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:	0.2 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.321 pounds
Additional Weight per Inch:	0.00417 pounds

**Mechanical Specifications**

**Cable Assembly**

Weight 0.321 lbs [145.6 g]

**Cable**

Cable Type	LMR-LW400
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	Foam PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Aluminum
Jacket Material	PE, 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	0.5 lbs-ft [0.68 N-m]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]
Tensile Strength	160 lbs [72.57 Kg]

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**FMC00853**

**Connectors**

Description	Connector 1	Connector 2
Type	N Male Right Angle	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Hex Size	13/16 inch	13/16 inch
Torque	30 in-lbs 3.39 Nm	30 in-lbs 3.39 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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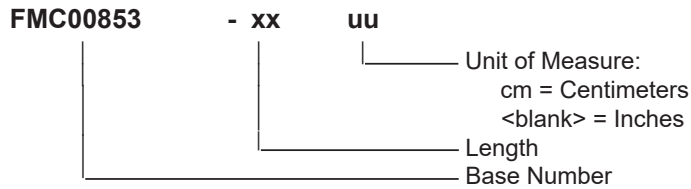


**FMC00853**

**Typical Performance Data**

**How to Order**

Part Number Configuration:



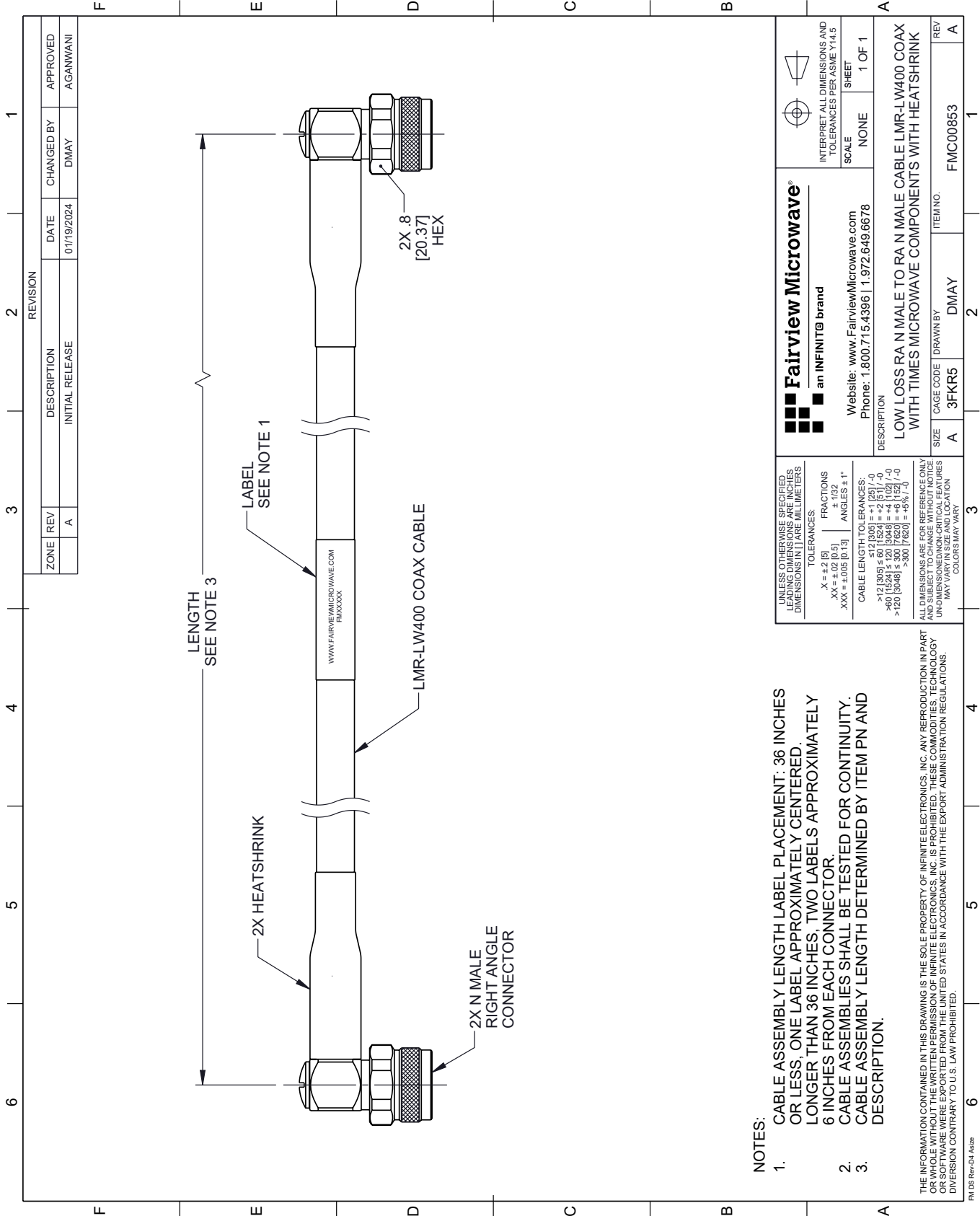
Example: FMC00853-12 = 12 inches long cable  
FMC00853-100cm = 100 cm long cable

Low Loss RA N Male to RA N Male Cable LMR-LW400 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 N Male to RA N Male Cable LMR-LW400 Coax with Times Microwave Components FMC00853](#)

URL: <https://www.fairviewmicrowave.com/low-loss-ra-n-male-to-ra-n-male-cable-lmr-lw400-coax-with-times-microwave-components-fmc00853-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 implement 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.



- NOTES:**
- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS; ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
  - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
  - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

 <b>Fairview Microwave®</b> an INFINIT® brand Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
DESCRIPTION LOW LOSS RA N MALE TO RA N MALE CABLE LMR-LW400 COAX WITH TIMES MICROWAVE COMPONENTS WITH HEATSHRINK		
SIZE	CAGE CODE	ITEM NO.
A	3FKR5	FMC00853
DRAWN BY	DMAY	