

## Low Loss N Female to N Female Cable LMR-400 Coax Using Times Microwave Components

The type N female to type N female cable using LMR-400 coax, part number FMC00598, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a female to female gender configuration with 50 ohm flexible LMR-400 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00598 type N female to type N female 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	Typ	Max	Units
Frequency Range	DC		5.8	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		1.39 [4.56]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		1.65 [5.41]		$\Omega$ /1000ft [ $\Omega$ /Km]
Jacket Spark			8,000	Vrms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.02	0.028	0.041	0.068	0.1	dB/ft
	0.07	0.09	0.13	0.22	0.33	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.226 lbs [102.51 g]

#### Cable

Cable Type LMR-400  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper Clad Aluminum



### Configuration:

- N Female
- N Female
- LMR-400

### Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket

### Applications:

- General Purpose
- Laboratory Use

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Dielectric Type PE (F)  
 Number of Shields 2  
 Shield Layer 1 Aluminum Tape  
 Shield Layer 2 Tinned Copper Braid  
 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]

**Connectors**

Description	Connector 1	Connector 2
Type	N Female	N Female
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Copper, Gold	Copper, Gold
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal

**Environmental Specifications**

**Temperature**

Operating Range -40 to +85 deg C

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMC00598 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMC00598-12 = 12 inches long cable  
 FMC00598-100cm = 100 cm long cable

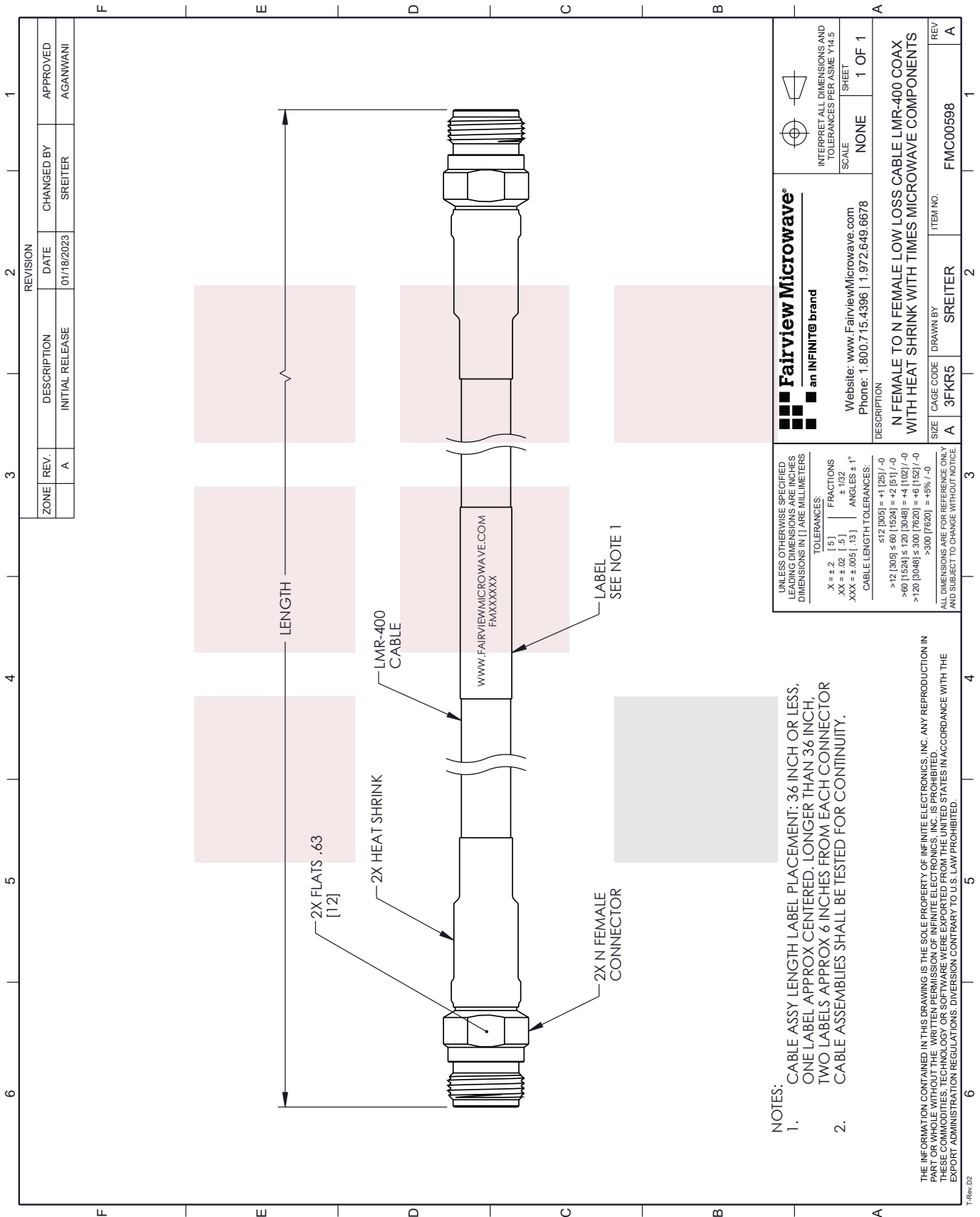
Low Loss N Female to N Female Cable LMR-400 Coax Using Times Microwave Components from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss N Female to N Female Cable LMR-400 Coax Using Times Microwave Components FMC00598](#)

URL: <https://www.fairviewmicrowave.com/low-loss-n-female-to-n-female-cable-lmr-400-coax-using-times-microwave-components-fmc00598-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.





**NOTES:**

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROX CENTERED, LONGER THAN 36 INCH, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	
TOLERANCES:	
.X = ±.2 [ 5 ]	FRACTIONS ±.132
.XX = ±.02 [ .5 ]	ANGLES ± 1°
.XXX = ±.005 [ .13 ]	
CABLE LENGTH TOLERANCES:	
512 (20.5) = +1 (25) / -0	
>12 (305) ≤ 60 (1524) = +2 (51) / -0	
>60 (1524) ≤ 120 (3048) = +4 (102) / -0	
>120 (3048) ≤ 300 (7620) = +6 (152) / -0	
>300 (7620) = +5% / -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE	

<b>Fairview Microwave<sup>®</sup></b> an INFINIT <sup>®</sup> brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SHEET
Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678		SCALE: NONE SHEET: 1 OF 1
DESCRIPTION: <b>N FEMALE TO N FEMALE LOW LOSS CABLE LMR-400 COAX WITH HEAT SHRINK WITH TIMES MICROWAVE COMPONENTS</b>		
SIZE: A CAGE CODE: 3FKR5	DRAWN BY: SREITER	ITEM NO.: FMC00598 REV: A