

Low Loss N Male to N Male Cable LMR-LW600 Coax with Times Microwave Components

FMC00854

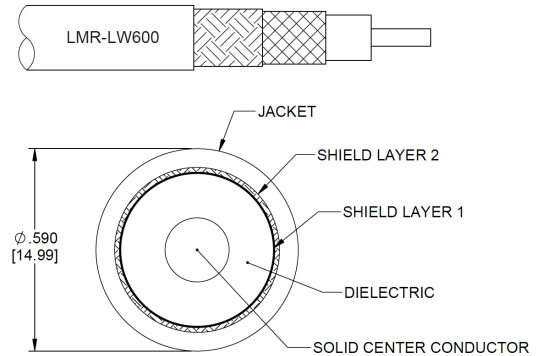


Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: LMR-LW600
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

The type N male to type N male cable using LMR-LW600 coax, part number FMC00854, 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-LW600 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00854 type N 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		1.17 [3.84]		ns/ft [ns/m]
Capacitance		23.4 [76.77]		pF/ft [pF/m]
Inductance		0.058 [0.19]		uH/ft [uH/m]
DC Resistance Inner Conductor		0.53 [1.74]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.4 [14.44]		Ohms/1000ft [Ohms/Km]

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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	
FMC00854	Custom Lengths Available	Insertion Loss (Typ.)	0.01	0.02	0.026	0.044	0.074	dB/ft	
			0.04	0.06	0.09	0.15	0.25	dB/m	
FMC00854-24	24 inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.29	0.35	dB	0.463
FMC00854-36	36 inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.34	0.43	dB	0.567
FMC00854-48	48 inch	Insertion Loss (Typ.)	0.25	0.27	0.31	0.38	0.5	dB	0.671
FMC00854-120	120 inch	Insertion Loss (Typ.)	0.32	0.37	0.46	0.64	0.94	dB	1.295
FMC00854-180	180 inch	Insertion Loss (Typ.)	0.38	0.46	0.59	0.86	1.31	dB	1.815

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:	0.358 pounds
Additional Weight per Inch:	0.00867 pounds

Mechanical Specifications

Cable Assembly

Weight	0.358 lbs [162.39 g]
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Cable

Cable Type	LMR-LW600
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	0.59 in [14.99 mm]
One Time Minimum Bend Radius	1.5 in [38.1 mm]
Repeated Minimum Bend Radius	6 in [152.4 mm]
Bending Moment	2.75 lbs-ft [3.73 N-m]
Flat Plate Crush	60 lbs/in [1.07 Kg/mm]
Tensile Strength	260 lbs [117.93 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50μ in. minimum	50μ in. minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	100μ in. minimum	100μ in. minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	100μ in. minimum	100μ in. minimum
Hex Size	20.57 mm	20.57 mm
Torque	44 in-lbs 4.97 Nm	44 in-lbs 4.97 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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FMC00854

Typical Performance Data

How to Order

Part Number Configuration:

FMC00854

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: FMC00854-12 = 12 inches long cable
FMC00854-100cm = 100 cm long cable

Low Loss N Male to N Male Cable LMR-LW600 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 N Male to N Male Cable LMR-LW600 Coax with Times Microwave Components FMC00854](#)

URL: <https://www.fairviewmicrowave.com/low-loss-n-male-to-n-male-cable-lmr-lw600-coax-with-times-microwave-components-fmc00854-p.aspx>

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FMC00854 CAD Drawing
Low Loss N Male to N Male Cable LMR-LW600 Coax with Times Microwave Components

