



Fire Rated Low Loss N Male to N Male Cable LMR-400-FR Coax

The type N male to type N male cable using LMR-400-FR coax, part number FMC00876, 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-400-FR coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00876 type N male to type N male 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	Т	ур	Max	ι	Inits
Frequency Range		DC			5.8		GHz
VSWR					1.4:1		
Velocity of Propagation			8	34			%
RF Shielding		90					dB
Group Delay			1.2	[3.94]		ns/f	t [ns/m]
Capacitance			23.9	[78.41]		pF/fl	t [pF/m]
Inductance			0.06	[0.2]		uH/f	t [uH/m]
DC Resistance Inner Conductor			1.39	[4.56]		Ω/100	0ft [Ω/Km]
DC Resistance Outer Conductor			1.65	[5.41]		Ω/100	Oft [Ω/Km]
Jacket Spark					8,000	\	/rms

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	0.108	dB/ft
	0.07	0.09	0.13	0.22	0.35	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.06Xsqrt(fGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.222 lbs [100.7 g]

Cable

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



Configuration:

- N Male
- N Male
- LMR-400-FR

Features:

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

Applications:

- General Purpose
- Laboratory Use

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Dielectric Type Foam PE Number of Shields 2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper
Jacket Material FRPE, Black

Jacket Diameter 0.405 in [10.29 mm]

One Time Minimum Bend Radius
Repeated Minimum Bend Radius
4 in [101.6 mm]
Bending Moment
O.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		
Туре	N Male	N Male		
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Brass, Gold	Brass, Gold		
Contact Plating Spec.	3 µin minimum	3 µin minimum		
Dielectric Type	PTFE	PTFE		
Body Material & Plating	Brass, Nickel	Brass, Nickel		
Body Plating Spec.	100 μin minimum	n 100 μin minimum		
Coupling Nut Material & Pla	nting Brass, Nickel	Brass, Nickel		
Coupling Nut Plating Spec.	100 μin minimum	n 100 μin minimum		

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:

Example: FMC00876-12 = 12 inches long cable

FMC00876-100cm = 100 cm long cable





Fire Rated Low Loss N Male to N Male Cable LMR-400-FR Coax 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: Fire Rated Low Loss N Male to N Male Cable LMR-400-FR Coax FMC00876

URL: https://www.fairviewmicrowave.com/fire-rated-low-loss-n-male-to-n-male-cable-Imr-400-fr-coax-fmc00876-p.aspx



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