

Low Loss 75 Ohm N Male to 75 Ohm N Male Cable 75 Ohm LMR-400-75 Coax With Times Microwave Components

The 75 ohm type N male to 75 ohm type N male cable using 75 ohm LMR-400-75 coax, part number FMCA3249, 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 75 ohm flexible LMR-400-75 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3249 type N male to type N male cable assembly operates to 2.5 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		2.5	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Capacitance		15.9 [52.17]		pF/ft [pF/m]
Inductance		0.09 [0.3]		uH/ft [uH/m]
DC Resistance Inner Conductor		2.5 [8.2]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ω /1000ft [Ω /Km]
Operating Voltage (AC)			1,000	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	2.5	GHz
Insertion Loss (Typ.)	0.011	0.019	0.027	0.039	0.064	dB/ft
	0.04	0.06	0.09	0.13	0.21	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 0.17 lbs [77.11 g]

Cable

Cable Type LMR-400-75
 Impedance 75 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Beryllium Copper
 Dielectric Type PE (F)



Configuration:

- N Male
- N Male
- LMR-400-75

Features:

- Max Frequency 2.5 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket

Applications:

- General Purpose
- Laboratory Use

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Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper
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 Male	N Male
Impedance	75 Ohms	75 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	50µin minimum	50µin minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	80µin minimum	80µin minimum
Coupling Nut Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Spec.	80µin minimum	80µin minimum

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Shock	MIL-STD-202G, Method 213, Condition I
Vibration	MIL-STD-202G, Method 204, Condition B
Thermal Shock	MIL-STD-202G, Method 107, Condition B

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

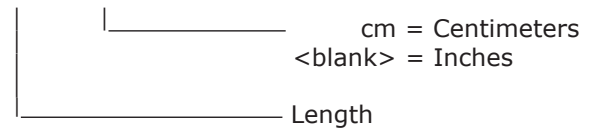
Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA3249 - xx uu



Example: FMCA3249-12 = 12 inches long cable
FMCA3249-100cm = 100 cm long cable

Low Loss 75 Ohm N Male to 75 Ohm N Male Cable 75 Ohm LMR-400-75 Coax With 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 75 Ohm N Male to 75 Ohm N Male Cable 75 Ohm LMR-400-75 Coax With Times Microwave Components FMCA3249](#)

URL: <https://www.fairviewmicrowave.com/low-loss-75-ohm-n-male-to-75-ohm-n-male-cable-75-ohm-lmr-400-75-coax-with-times-microwave-components-fmca3249-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.



