

FMC00417-12 DATA SHEET

RA N Male to RA N Male Cable LMR-400 Coax in 12 Inch

The RA type N male to RA type N male 12 inch cable using LMR-400 coax, part number FMC00417-12, 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 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00417-12 type N male to type N male cable assembly operates to 3 GHz. The right angle type N interfaces on the LMR-400 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	Min	Т	ур	Max	ι	Jnits	
Frequency Range	DC			3		GHz	
VSWR				1.4:1			
Velocity of Propagation		8	35			%	
RF Shielding	90					dB	
Group Delay		1.2	[3.94]		ns/f	t [ns/n	<u>n]</u>
Capacitance		23.9	[78.41]		pF/f	t [pF/n	<u>n]</u>
Inductance		0.06	[0.2]		uH/f	t [uH/r	n]
DC Resistance Inner Cor	nductor	1.39	[4.56]		Ω/100	Oft [Ω/I	Km]
DC Resistance Outer Cor	nductor	1.65	[5.41]		Ω/100	Oft [Ω/I	Km]
Jacket Spark				8,000	١	/rms	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Max.)	0.41	0.41	0.42	0.43	0.48	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 12 in [304.8 mm]
Diameter 0.8 in [20.32 mm]

Cable

Cable Type LMR-400



Configuration:

- N Male Right Angle
- N Male Right Angle
- LMR-400

Features:

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket
- 500 Mating Cycles

Applications:

- General Purpose
- Laboratory Use

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Impedance
Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields

Shield Layer 1
Shield Layer 2
Jacket Material

Jacket Material
Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment

Flat Plate Crush Tensile Strength 50 Ohms Solid

Copper Clad Aluminum

PE (F) 2

Aluminum Tape Tinned Copper Braid

PE, Black

0.405 in [10.29 mm]

1 in [25.4 mm] 4 in [101.6 mm]

0.5 lbs-ft [0.68 N-m] 40 lbs/in [0.71 Kg/mm] 160 lbs [72.57 Kg]

Connectors

Description	Connector 1	Connector 2		
Туре	N Male	N Male		
Impedance	50 Ohms	50 Ohms		
Mating Cycles	500	500		
Contact Material & Plating	Brass, Gold	Brass, Gold		
Dielectric Type	Teflon	Teflon		
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal		
Coupling Nut Material & Pla	ting Brass, Tri-Metal	Brass, Tri-Metal		
Hex Size	13/16 inch	13/16 inch		
Torque	30 in-lbs 3.39 Nr	m 30 in-lbs 3.39 Nm		

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

How to Order

Part Number Configuration:



Example: FMC00417-12 = 12 inches long cable

FMC00417-100cm = 100 cm long cable





RA N Male to RA N Male Cable LMR-400 Coax in 12 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: RA N Male to RA N Male Cable LMR-400 Coax in 12 Inch FMC00417-12

URL: https://www.fairviewmicrowave.com/ra-n-male-ra-n-male-cable-lmr400-coax-fmc00417-12-p.aspx







