

## FMC00287-50CM DATA SHEET

# Low Loss RA N Male to RA N Male Cable LMR-400-DB Coax in 50 CM

The RA type N male to RA type N male 50 cm cable using LMR-400-DB coax, part number FMC00287-50CM, 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-DB coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00287-50CM type N male to type N male cable assembly operates to 6 GHz. The right angle type N interfaces on the LMR-400-DB 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	Inits	
Frequency Range	DC			6		GHz	
VSWR				1.4:1			
Velocity of Propagation		8	35			%	
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/f	t [uH/m]	
DC Resistance Inner Cor	1.39 [4.56]			Ω/1000ft [Ω/Km]			
DC Resistance Outer Conductor			[5.41]		Ω/1000ft [Ω/Km]		
Jacket Spark				8,000	١	/rms	

### **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.43	0.45	0.47	0.51	0.58	dB

#### **Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2 dB per connector.

### **Mechanical Specifications**

**Cable Assembly** 

Length\* Diameter 19.68 in [499.87 mm] 0.81 in [20.57 mm]



## **Configuration:**

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

## Features:

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

## **Applications:**

- General Purpose
- Laboratory Use

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Cable

Cable Type LMR-400-DB 50 Ohms Impedance Inner Conductor Type Solid

Copper Clad Aluminum Inner Conductor Material and Plating PE (F) Dielectric Type

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] 4 in [101.6 mm] Repeated Minimum Bend Radius **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
Туре	N Male	N Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, G	old Beryllium Copper, Gold
Contact Plating Spec.	1.27 µm minimun	n 1.27 µm minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	2 µm minimum	2 µm minimum
Coupling Nut Material & Pla	nting Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Spec.	2 µm minimum	2 µm minimum
Torque	44 in-lbs 4.97 Nr	n 44 in-lbs 4.97 Nm

## **Environmental Specifications Temperature**

Operating Range

-40 to +85 deg C Storage Range -70 to +85 deg C

**Compliance Certifications** (see product page for current document)

## **Plotted and Other Data**

Notes:

## **How to Order**

Part Number Configuration: FMC00287 - xx uu cm = Centimeters <br/>
<br/>
dlank> = Inches Length

Example: FMC00287-12 = 12 inches long cable

FMC00287-100cm = 100 cm long cable





Low Loss RA N Male to RA N Male Cable LMR-400-DB Coax in 50 CM 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: Low Loss RA N Male to RA N Male Cable LMR-400-DB Coax in 50 CM FMC00287-50CM

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

URL: https://www.fairviewmicrowave.com/low-loss-ra-n-male-ra-n-male-cable-lmr400db-coax-fmc00287-50cm-p.aspx

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