

# FMC00253 DATA SHEET

# N Male to BNC Male Cable LMR-100 Coax

The type N male to BNC male cable using LMR-100 coax, part number FMC00253, from Fairview Microwave is in-stock and ships same day. This Fairview type N to BNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-100A coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00253 type N male to BNC 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	Typ Max		Units		
Frequency Range		DC			5.8		GHz
VSWR			1	:1	1.25:1		
Velocity of Propagation			(	66			%
RF Shielding		90					dB
Group Delay			1.54 [5.05]		ns/ft [ns/m]		
Capacitance			30.8 [101.05]		pF/ft [pF/m]		
Inductance			0.077 [0.25]		uH/ft [uH/m]		
DC Resistance Inner Conductor			81 [265.75]		Ω/1000ft [Ω/Km]		
DC Resistance Outer Conductor		9.5 [31.17]		Ω/1000ft [Ω/Km]			
Jacket Spark					2,000	١	/rms

Performance by	Freque	ncy				
Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.11	0.16	0.24	0.39	0.64	dB/ft
	0.36	0.52	0.79	1.28	2.1	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 Diameter

0.827 in [21.01 mm]

Cable Cable Type Impedance Inner Conductor Type

LMR-100A 50 Ohms Solid



# **Configuration:**

- N Male
- BNC Male
- LMR-100A

## **Features:**

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

# **Applications:**

- General Purpose
- Laboratory Use

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com Fairview Microwave

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Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1
Shield Layer 2
Jacket Material
Jacket Diameter
One Time Minimum Rend Redius

One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength

Copper Clad Steel ΡE 2 Aluminum Tape Tinned Copper Braid PVC, Black 0.11 in [2.79 mm]

0.25 in [6.35 mm] 1 in [25.4 mm] 0.1 lbs-ft [0.14 N-m] 10 lbs/in [0.18 Kg/mm] 15 lbs [6.8 Kg]

#### Connectors

Description	Connector 1	Connector 2		
Туре	N Male	BNC Male		
Specification		MIL-STD-348A		
Impedance	50 Ohms	50 Ohms		
Mating Cycles	500			
Contact Material & Plating	Beryllium Copper, (	Gold Brass, Gold		
Contact Plating Spec.		50 µin minimum		
Dielectric Type	PTFE	PTFE		
Body Material & Plating	Brass, Nickel	el Brass, Nickel		
Body Plating Spec.		100 µin minimum		
Coupling Nut Material & Platin	g Brass, Nickel	Brass, Nickel		
Coupling Nut Plating Spec.		100 µin minimum		

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

#### **Environmental Specifications**

Temperature					
Operating Range					
Storage Range					

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

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

## **Plotted and Other Data**

Notes:

## **How to Order**

Part Number Configuration:

FMC00253 - xx



Example: FMC00253-12 = 12 inches long cable FMC00253-100cm = 100 cm long cable

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N Male to BNC Male Cable LMR-100 Coax 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: N Male to BNC Male Cable LMR-100 Coax FMC00253

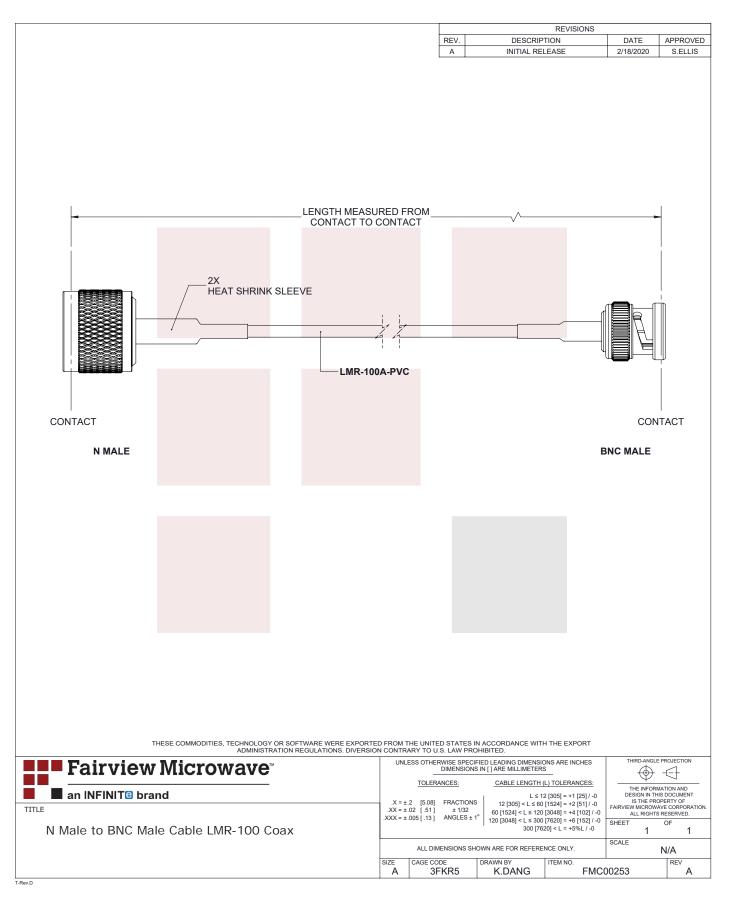
URL: https://www.fairviewmicrowave.com/n-male-bnc-male-cable-Imr100-coax-fmc00253-p.aspx

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 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.

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