

N Female Bulkhead to BNC Male Cable LMR-100 Coax in 50 CM

The type N female bulkhead to BNC male 50 cm cable using LMR-100 coax, part number FMC00252-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview type N to BNC cable assembly has a female 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 FMC00252-50CM type N female to BNC male cable assembly operates to 5.8 GHz. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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	T	ур	Max	ι	Jnits
Frequency Range	DC			5.8		GHz
VSWR		1	:1	1.5:1		
Velocity of Propagation		ϵ	6			%
RF Shielding	90					dB
Group Delay		1.54	[5.05]		ns/f	t [ns/m]
Capacitance		30.8 [101.05]	pF/f	t [pF/m]
Inductance		0.077	[0.25]		uH/f	t [uH/m]
DC Resistance Inner Cor	nductor	81 [2	65.75]		Ω/100	0ft [Ω/Km]
DC Resistance Outer Cor	nductor	9.5 [31.17]		Ω/100	0ft [Ω/Km]
Jacket Spark				2,000	\	/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.)	0.38	0.47	0.59	0.85	1.25	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 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length* Diameter 19.68 in [499.87 mm] 0.807 in [20.5 mm]

FMC00252-50CM DATA SHEET



Configuration:

- N Female Bulkhead
- 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





Cable

Cable Type LMR-100A Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Steel Dielectric Type PE

Dielectric Type Number of Shields

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid

Jacket Material PVC, Black

Jacket Diameter 0.11 in [2.79 mm]

One Time Minimum Bend Radius

0.25 in [6.35 mm]

Repeated Minimum Bend Radius

1 in [25.4 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm]
Bending Moment 0.1 lbs-ft [0.14 N-m]
Flat Plate Crush 10 lbs/in [0.18 Kg/mm]

Tensile Strength 15 lbs [6.8 Kg]

Connectors

Description	Connecto	r 1		Connecto	r 2
Туре	N Femal	е		BNC Mal	е
Mount Method	Bulkhea	d			
Specification	MIL-STD-3	48A		MIL-STD-3	48A
Impedance	50 Ohm	S		50 Ohm	S
Contact Material & Plating	Beryllium Copp	er, Go	old	Brass, Go	ld
Contact Plating Spec.	30 µin minin	num		50 µin minir	num
Dielectric Type	PTFE			PTFE	
Outer Cond Material & Plati	ng Brass, Nick	kel			
Outer Cond Plating Spec.	100 µin miniı	mum			
Body Material & Plating				Brass, Nicl	kel
Body Plating Spec.				100 µin mini	mum
Coupling Nut Material & Pla	iting			Brass, Nicl	kel
Coupling Nut Plating Spec.				100 µin mini	mum
Hex Size	3/4 inch	1			
Machanical Specification					

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Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range -40 to +85 deg CStorage Range -70 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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





How to Order

Part Number Configuration:	FMC00252 -	· xx	uu	
				cm = Centimeters <black> = Inches</black>
		İ		- Length

Example: FMC00252-12 = 12 inches long cable FMC00252-100cm = 100 cm long cable

N Female Bulkhead to BNC Male Cable LMR-100 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: N Female Bulkhead to BNC Male Cable LMR-100 Coax in 50 CM FMC00252-50CM

URL: https://www.fairviewmicrowave.com/n-female-bnc-male-cable-Imr100-coax-fmc00252-50cm-p.aspx

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