

FMC00319 DATA SHEET

Low Loss N Male to BNC Male Cable LMR-240-UF Coax

The type N male to BNC male cable using LMR-240-UF coax, part number FMC00319, 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-240-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00319 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	т	Typ Max Unit		Inits	
Frequency Range		DC			5.8		GHz
VSWR					1.4:1		
Velocity of Propagation			8	34			%
RF Shielding		90					dB
Group Delay			1.21	[3.97]		ns/f	t [ns/m]
Capacitance			24.2	[79.4]		pF/f	t [pF/m]
Inductance		0.06	[0.2]		uH/f	t [uH/m]	
DC Resistance Inner Conductor		4.28	[14.04]		Ω/100	0ft [Ω/Km]	
DC Resistance Outer Conductor		3.89	[12.76]		Ω/100	0ft [Ω/Km]	
Jacket Spark					5,000	١	/rms

Performance by	Freq <mark>ue</mark> i	ncy				
Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.04	0.06	0.09	0.15	0.24	dB/ft
	0.13	0.2	0.3	0.49	0.79	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-240-UF 50 Ohms Stranded



Configuration:

- N Male
- BNC Male
- LMR-240-UF

Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- TPE 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 an INFINIT® brand



Inner Conductor Material and Plating		Copper				
Dielectric Type		PE ((F)			
Number of Shields		2				
Shield Layer 1		Alur	ninum Tape			
Shield Layer 2		Tinr	ned Copper Braid			
Jacket Material		TPE	, Black			
Jacket Diameter		0.24	4 in [6.1 mm]			
One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush		0.75 in [19.05 mm] 2.5 in [63.5 mm] 0.13 lbs-ft [0.18 N-m] 13 lbs/in [0.23 Kg/mm]				
Tensile Strength Connectors		00 I	bs [36.29 Kg]			
connectors						
Description	Connector	r 1	Connecto	or 2		
Type	N Male		BNC Mal	e		

Туре	N Male	BNC Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Phosphor Bronze, G	old Brass, Gold
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plati	ng	Brass, Tri-Metal
Body Material & Plating	Brass, Nickel	Brass, Tri-Metal
Coupling Nut Material & Pla	ting Brass, Nickel	

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	-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:



Example: FMC00319-12 = 12 inches long cable FMC00319-100cm = 100 cm long cable

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Low Loss N Male to BNC Male Cable LMR-240-UF 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: Low Loss N Male to BNC Male Cable LMR-240-UF Coax FMC00319

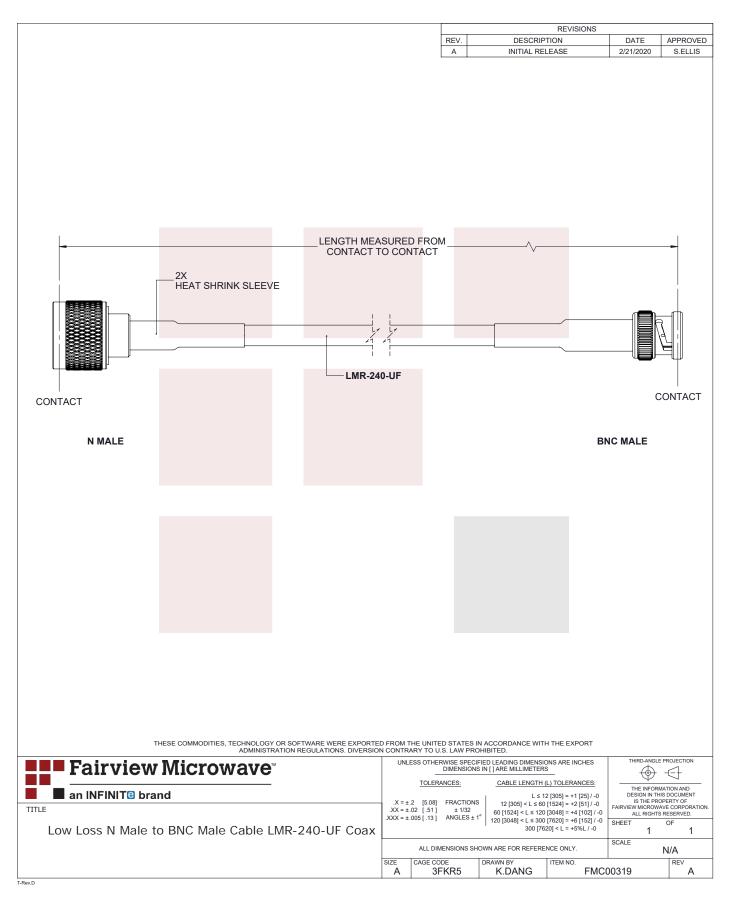
URL: https://www.fairviewmicrowave.com/n-male-bnc-male-cable-Imr240uf-coax-fmc00319-p.aspx

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