

## Low Loss N Female Bulkhead to BNC Male Cable LMR-240 Coax with Times Microwave Components

The type N female bulkhead to BNC male cable using LMR-240 coax, part number FMC00985, 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-240 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00985 type N female to BNC male cable assembly operates to 4 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	Typ	Max	Units
Frequency Range	DC		4	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		3.2 [10.5]		$\Omega/1000\text{ft}$ [ $\Omega/\text{Km}$ ]
DC Resistance Outer Conductor		3.89 [12.76]		$\Omega/1000\text{ft}$ [ $\Omega/\text{Km}$ ]
Jacket Spark			5,000	Vrms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.023	0.039	0.055	0.079	0.163	dB/ft
	0.08	0.13	0.18	0.26	0.53	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

Length\* 0 in [0 mm]  
 Weight 0.153 lbs [69.4 g]

#### Cable

Cable Type LMR-240



### Configuration:

- N Female Bulkhead
- BNC Male
- LMR-240

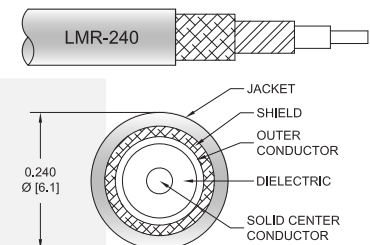
### Features:

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket

### Applications:

- General Purpose
- Laboratory Use

### Cable Diagram:



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Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, Black
Jacket Diameter	0.24 in [6.1 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.25 lbs-ft [0.34 N-m]
Flat Plate Crush	20 lbs/in [0.36 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

**Connectors**

Description	Connector 1	Connector 2
Type	N Female	BNC Male
Mount Method	Bulkhead	
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Spec.	50 μinches	
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Outer Cond Plating Spec.	80 μinches	
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal

**Environmental Specifications**
**Temperature**

Operating Range -40 to +85 deg C

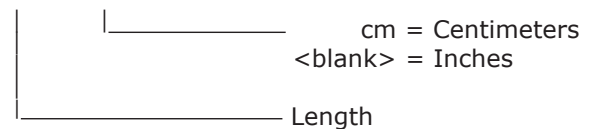
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMC00985 - xx uu**

 Example: FMC00985-12 = 12 inches long cable  
 FMC00985-100cm = 100 cm long cable

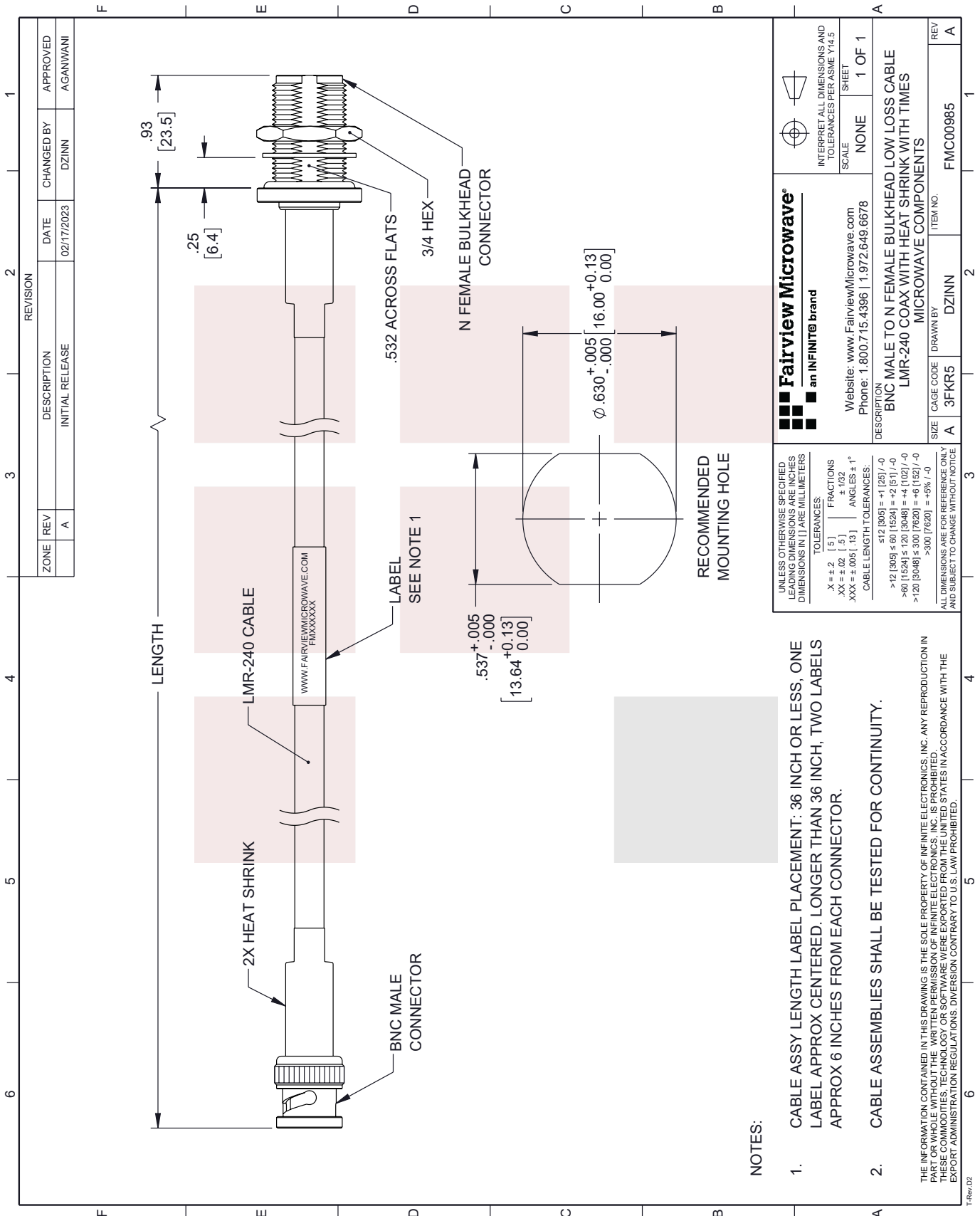
Low Loss N Female Bulkhead to BNC Male Cable LMR-240 Coax with Times Microwave Components from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss N Female Bulkhead to BNC Male Cable LMR-240 Coax with Times Microwave Components FMC00985](#)

URL: <https://www.fairviewmicrowave.com/low-loss-n-female-bulkhead-to-bnc-male-cable-lmr-240-coax-with-times-microwave-components-fmc00985-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 such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not 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.





**NOTES:**

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCH, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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<p><b>Fairview Microwave®</b> an INFINITE® brand</p> <p>Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>
<p>DESCRIPTION: BNC MALE TO N FEMALE BULKHEAD LOW LOSS CABLE LMR-240 COAX WITH HEAT SHRINK WITH TIMES MICROWAVE COMPONENTS</p>		
<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES: .X = ± .2 [ 5 ] FRACTIONS .XX = ± .02 [ .5 ] ± .132 .XXX = ± .005 [ .13 ] ANGLES ± 1°</p> <p>CABLE LENGTH TOLERANCES: ≤ 12 [305] = ± .125 [ -0 &gt;12 [305] ≤ 60 [1524] = ± .2 [51] / -0 &gt;60 [1524] ≤ 120 [3048] = ± .4 [102] / -0 &gt;120 [3048] ≤ 300 [7620] = ± .6 [152] / -0 &gt;300 [7620] = ± .6% / -0</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE</p>	<p>SIZE: A</p> <p>CAGE CODE: 3FKR5</p> <p>DRAWN BY: DZINN</p> <p>ITEM NO.: FMC00985</p>	<p>REV: A</p>