

## N Male to N Female Bulkhead Cable LMR-240-UF Coax with Heat Shrink

The type N male to type N female bulkhead cable using LMR-240-UF coax, part number FMC00505, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to female 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 FMC00505 type N male to type N female 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	Typ	Max	Units
Frequency Range	DC		5.8	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		4.28 [14.04]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		3.89 [12.76]		$\Omega$ /1000ft [ $\Omega$ /Km]
Operating Voltage (DC)			2,500	Vdc
Dielectric Withstanding Voltage (DC)			1,500	Vdc
Jacket Spark			5,000	Vrms
Input Power (Peak)			5.6	KWatts

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.03	0.05	0.08	0.13	0.2	dB/ft
	0.1	0.16	0.26	0.43	0.66	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated 0.1 dB for the straight connector and  $0.1 * \text{SQRT}(\text{FGHz})$  dB for the straight connector.



### Configuration:

- N Male
- N Female Bulkhead
- 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

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## Mechanical Specifications

### Cable Assembly

Diameter 0.875 in [22.23 mm]

### Cable

Cable Type LMR-240-UF  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 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 TPE, 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 0.13 lbs-ft [0.18 N-m]  
 Flat Plate Crush 13 lbs/in [0.23 Kg/mm]  
 Tensile Strength 80 lbs [36.29 Kg]

### Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Mount Method		Bulkhead
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	ASTM-B488	
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	QQ-N-290	
Coupling Nut Material & Plating	Brass, Tri-Metal	
Coupling Nut Plating Spec.	QQ-N-290	
Hex Size	13/16 inch	

## 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)

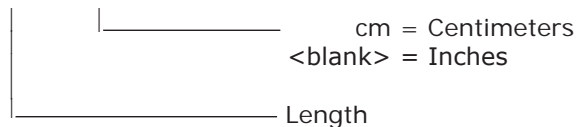
## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMC00505 - xx uu**



Example: FMC00505-12 = 12 inches long cable  
FMC00505-100cm = 100 cm long cable

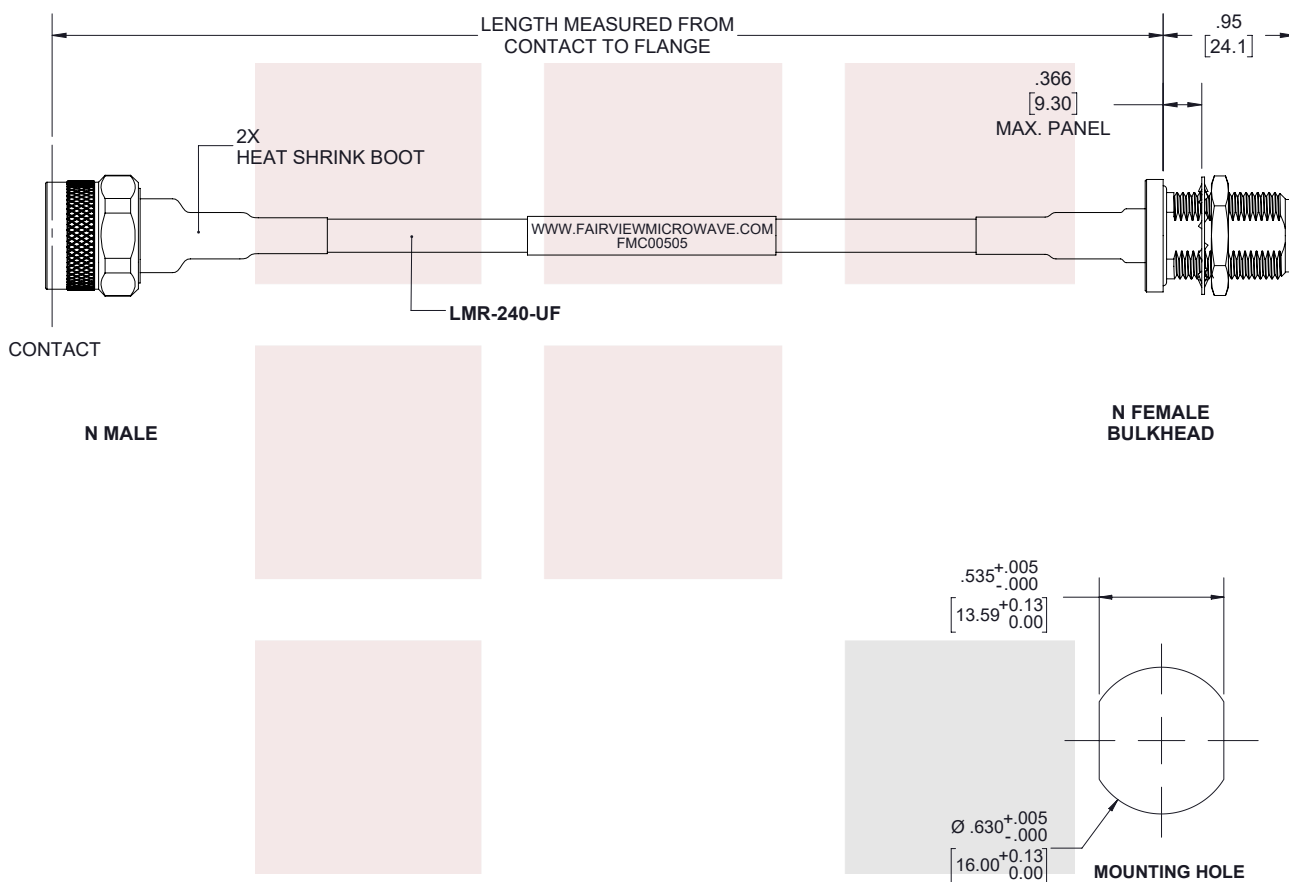
N Male to N Female Bulkhead Cable LMR-240-UF Coax with Heat Shrink from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [N Male to N Female Bulkhead Cable LMR-240-UF Coax with Heat Shrink FMC00505](https://www.fairviewmicrowave.com/n-male-n-female-cable-lmr240uf-coax-fmc00505-p.aspx)

URL: <https://www.fairviewmicrowave.com/n-male-n-female-cable-lmr240uf-coax-fmc00505-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	4/16/2021	S.ELLIS



**NOTES:**

- CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM THE END OF THE CONNECTOR.

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<p>N Male to N Female Bulkhead Cable LMR-240-UF Coax with Heat Shrink</p>		<p>CABLE LENGTH (L) TOLERANCES:</p>		<p>SHEET 1 OF 1</p>	
<p>SIZE A</p>		<p>CAGE CODE 3FKR5</p>		<p>SCALE N/A</p>	
<p>DRAWN BY K.DANG</p>		<p>ITEM NO. FMC00505</p>		<p>REV A</p>	