

# FMCA1250-24 DATA SHEET

# Low Loss N Female Bulkhead to TNC Male Cable LL142 Coax in 24 Inch with LF Solder

The type N female bulkhead to TNC male 24 inch cable using LL142 coax, part number FMCA1250-24, from Fairview Microwave is in-stock and ships same day. This Fairview type N to TNC cable assembly has a female to male gender configuration with 50 ohm flexible LL142 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1250-24 type N female to TNC male cable assembly operates to 18 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 triple shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 95 dB. Fairview High performance test cables boast 83% phase velocity and offer excellent low loss performance up to 18 GHz. The FMCA1250 cable assemblies use durable stainless steel connectors and an FEP jacket. The connector/cable interface has double heat-shrink booting which provides added strain relief while increasing the durability of the cable assembly. The low attenuation per foot in a 0.195 inch diameter cable creates a cable that has good flexibility while offering industry leading loss characteristics. All FMCA1250 cable assemblies are 100% RF tested to ensure the VSWR and insertion loss specifications meet or exceed Fairview's published electrical specifications.

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**

Min	Тур	Max	Units	
DC		18	GHz	
		1.45:1		
		14.72	dB	
		1.22	dB	
	83		%	
95	C		dB	
	25 [82.02]		pF/ft [pF/m]	
	DC	DC 83 95	DC 18 1.45:1 14.72 1.22 83 95	

#### **Performance by Frequency**

-	-	-				
Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.62	0.7	0.82	1	1.22	dB
Insertion Loss (Typ.)	0.56	0.62	0.74	0.88	1.08	dB

### **Mechanical Specifications**

**Cable Assembly** 

Length\*

24 in [609.6 mm]



# **Configuration:**

- N Female Bulkhead
- TNC Male
- LL142

# **Features:**

- Max Frequency 18 GHz
- Shielding Effectivity > 95 dB
- 83% Phase Velocity
- Triple Shielded
- FEP Jacket
- 83% Velocity of Propagation (Von)
- Shielding effectiveness >95 dB
- Maximum VSWR is < 1.45:1 to 18 GHz
- Minimum Bend Radius of 1 inch
- Operating Temperature range of -55 to +125°C
- 100% RF Tested
- Custom lengths available

# **Applications:**

- General Purpose
- Laboratory Use
- Long Run coaxial cable applications
- Antenna testing
- Low loss system cables

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678

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Weight 0.071 lbs [32.21 g]

Cable

Cable Type LL142
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, Silver

Dielectric Type PTFE Number of Shields 3

Shield Layer 1 Silver Plated Copper Tape
Shield Layer 2 Aluminum Polyester
Shield Layer 3 Silver Plated Copper Wire

Jacket Material FEP, Green

Jacket Diameter 0.195 in [4.95 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]

#### **Connectors**

Description	Connect	or 1	Connecto	r 2		
Туре	N Fema	ale TNC Male				
Mount Method	Bulkhea	ad				
Specification	MIL-STD-	348	MIL-STD-3	348		
Impedance	50 Ohn	ns	50 Ohm	S		
Contact Material & Plating	Beryllium Cop	per, Gold	Beryllium Copp	er, Gold		
Contact Plating Spec.	ASTM-B488, 50μ	in. mi <mark>nim</mark> u	ımASTM-B488, 50 <sub>1</sub>	u in. minin		
Dielectric Type	PEI		PEI			
Outer Cond Material & Plating Passivated Stainless Steel						
Outer Cond Plating Spec.	SAE-AMS-	2700				
Body Material & Plating	Passivated Stainless Steel Passivated Stainless Steel					
Body Plating Spec.	SAE-AMS-	2700 SAE-AMS-2701				
Coupling Nut Material & Pla	nting	Passivated Stainless Steel				
Coupling Nut Plating Spec.		SAE-AMS-2701				
Hex Size		9/16 Inch				
Torque		12 in-lbs 1.36 Nm				

# **Environmental Specifications**

**Temperature** 

Operating Range -55 to +125 deg C

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

### **Plotted and Other Data**

Notes:

Values at 25°C, sea level.

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Example: FMCA1250-12 = 12 inches long cable

FMCA1250-100cm = 100 cm long cable



#### **How to Order**

Part Number Configuration:	FMCA1250	-	XX	uu	
					cm = Centimeters <blank> = Inches  Length</blank>

Low Loss N Female Bulkhead to TNC Male Cable LL142 Coax in 24 Inch with LF Solder 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 TNC Male Cable LL142 Coax in 24 Inch with LF Solder FMCA1250-24

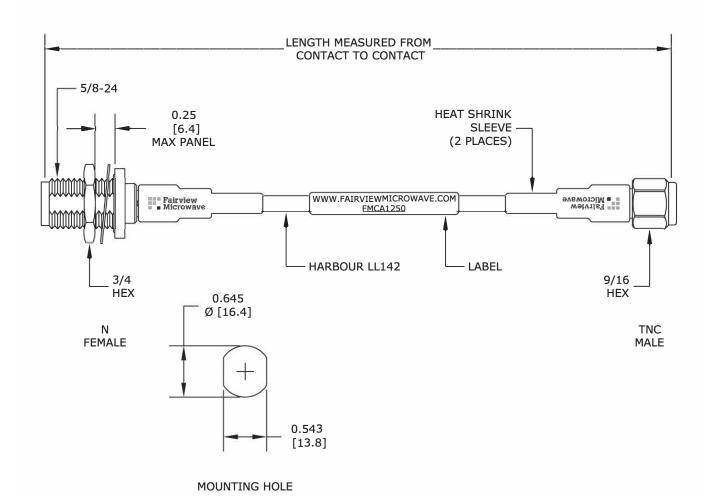
URL: https://www.fairviewmicrowave.com/low-loss-n-female-tnc-male-cable-ll142-coax-fmca1250-24-p.aspx

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.

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# NOTE:

LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED. LONGER THAN 48" WILL BE 6" AWAY FROM CONNECTOR.

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES:  1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  3. DIMENSIONS ARE IN INCHES [mm].						
Low Loss N Female Bulkhead to TNC Male Cable LL142 Coax in 24 Inch with LF Solder	DWG NO FMCA1250				CAGE CODE 3FKR5		
	CAD FILE 072216	SHEET	SCAL	E N/A	SIZE A	2233	