

# Low Loss N Male to N Female Bulkhead Cable LL160 Coax in 100 CM

The N Male to N Female Bulkhead low loss cable using LL160 coax, part number FMCA1697-100CM, from Fairview Microwave is in-stock and ships same day. This N to N low loss cable assembly features a 82.5% velocity dielectric manufactured from expanded PTFE tape. This microporous dielectric contributes to the low loss and phase stability of the cables. Our triple shielded coaxial cable construction of Fairview's low loss LL160 provides shielding levels as high as 95 dB. The precision connections are constructed with stainless steel bodies and high temperature insulators, supporting a wide range of temperature from -55 to +165 degrees C. This solid combination of connectors and low loss coax are further enhanced with the addition of heavy-duty heat shrink for improved strain relief for this superior quality RF cable assembly.

Fairview's N Male to N Female Bulkhead low loss cable FMCA1697-100CM datasheet, specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and high speed digital connections allows designers to configure and customize their signals however they like. From reducing losses or improving phase stability, Fairview microwave has the right low loss cable solutions to meet your needs.

## **Electrical Specifications**

Description	Min	Тур	Max	Units
Frequency Range	DC		18	GHz
VSWR			1.35:1	
Velocity of Propagation		82.5		%
RF Shielding	-90			dB
Capacitance		25 [82.02	2]	pF/ft [pF/m]

#### **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.41	0.58	0.89	1.28	1.85	dB

#### **Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.04\*SQRT(F(GHz))dB maximum per connector.

#### **Mechanical Specifications**

## **Cable Assembly**

Length\* 39.37 in [100 cm]

## Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1

LL160

50 Ohms Solid Copper, Silver

PTFE

Silver Plated Copper

# FMCA1697-100CM DATA SHEET



## **Configuration:**

- N Male
- N Female Bulkhead
- LL160

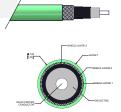
## **Features:**

- Max Frequency 18 GHz
- Shielding Effectivity > -90 dB
- 82.5% Phase Velocity
- Triple Shielded
- FEP Jacket
- Low VSWR of 1.35:1 to 18 GHz
- -55 to +150 Temperature Range
- Expanded PTFE Tape Dielectric
- Same Day Shipment of Custom Lengths

# **Applications:**

- General Purpose
- Laboratory Use
- Automated Test Systems
- Military Electronics
- Phased Array Antennas
- RF Countermeasures

# **Cable Diagram:**



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Shield Layer 2 Aluminum Polyester Shield Layer 3 Silver Plated Copper

Jacket Material FEP

Jacket Diameter 0.16 in [4.06 mm]

Repeated Minimum Bend Radius 0.8 in [20.32 mm]

### **Connectors**

Description	Connector 1	Connector 2
Туре	N Male	N Female
Mount Method		Bulkhead
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	d Beryllium Copper, Gold
Contact Plating Spec.	ASTM-B488	ASTM-B488
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plati	ing	Passivated Stainless Steel
Body Material & Plating	Passivated Stainless Ste	eel Passivated Stainless Steel
Coupling Nut Material & Pla	nting Passivated Stainless Ste	eel

## **Environmental Specifications**

Temperature

Operating Range -55 to +165 deg C

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

## **Plotted and Other Data**

Notes:

## **How to Order**

Part Number Configuration:

FMCA1697 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA1697-12 = 12 inches long cable

FMCA1697-100cm = 100 cm long cable





Low Loss N Male to N Female Bulkhead Cable LL160 Coax in 100 CM 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 Male to N Female Bulkhead Cable LL160 Coax in 100 CM FMCA1697-100 CM

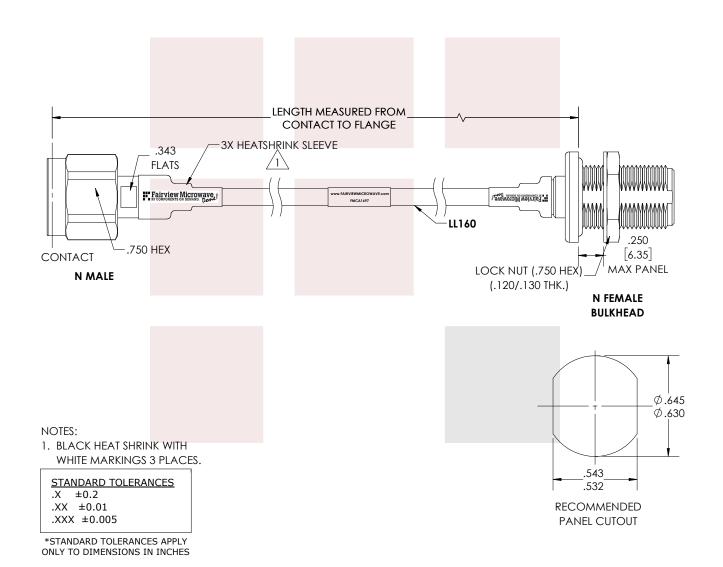
The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: https://www.fairviewmicrowave.com/low-loss-n-male-n-female-cable-II160-coax-fmca1697-100cm-p.aspx

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arising out of the use of	any part or documer	ntation.		

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TITLE

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Coax in 100 CM

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].

DWG NO

FMCA1697

CAGE CODE

SFKR5

CAD FILE 07/17/18 SHEET SCALE N/A SIZE A CN2379