



Low Loss N Female Bulkhead to N Female Bulkhead Cable LL160 Coax

The N Female Bulkhead to N Female Bulkhead low loss cable using LL160 coax, part number FMCA1696, 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 Female Bulkhead to N Female Bulkhead low loss cable FMCA1696 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.)	0.1	0.14	0.22	0.32	0.46	dB/ft
	0.33	0.46	0.72	1.05	1.51	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.04*SQRT(F(GHz))dB maximum per connector.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm] 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



Configuration:

- N Female Bulkhead
- N Female Bulkhead
- LL160

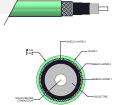
Features:

- 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

Connector 1	Connector 2		
N Female	N Female		
Bulkhead	Bulkhead		
50 Ohms	50 Ohms		
Beryllium Copper, Gold	Beryllium Copper, Gold		
ASTM-B488	ASTM-B488		
PTFE	PTFE		
ng Passivated Stainless Stee	Passivated Stainless Steel		
Passivated Stainless Stee	Passivated Stainless Steel		
	N Female Bulkhead 50 Ohms Beryllium Copper, Gold ASTM-B488 PTFE Ing Passivated Stainless Stee		

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:

FMCA1696 - xx uu cm = Centimeters <black> = Inches Length

Example: FMCA1696-12 = 12 inches long cable FMCA1696-100cm = 100 cm long cable

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Low Loss N Female Bulkhead to N Female Bulkhead Cable LL160 Coax 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 N Female Bulkhead Cable LL160 Coax FMCA1696

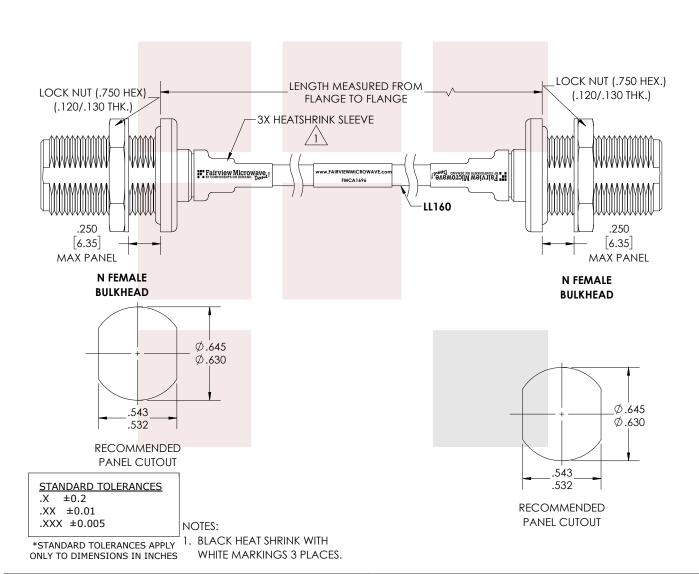
URL: https://www.fairviewmicrowave.com/low-loss-n-female-n-female-cable-ll160-coax-fmca1696-p.aspx



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TITLE

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Cable LL160 Coax

CAD FILE 07/17/18

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].

CAGE CODE
FMCA1696

CAD FILE 07/17/18

SHEET

SCALE N/A SIZE A CN2379