

# N Female Bulkhead to SMA Female Bulkhead Cable LL160 Coax

The N Female Bulkhead to SMA Female Bulkhead low loss cable using LL160 coax, part number FMCA1718-150CM, from Fairview Microwave is in-stock and ships same day. This N to SMA 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 SMA Female Bulkhead low loss cable FMCA1718-150CM 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**

Min	Тур	) Max	Units
DC		18	GHz
		1.33:1	
	82.	5	%
-90			dB
	25 [82	.02]	pF/ft [pF/m]
	DC	DC 82.5	DC 18 1.33:1 82.5

### **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.57	0.82	1.25	1.79	2.6	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**

### Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1
Shield Layer 2

LL160 50 Ohms Solid Copper, Silver PTFE 3 Silver Plated Copper

Aluminum Polyester

# FMCA1718-150CM DATA SHEET



## **Configuration:**

- N Female Bulkhead
- SMA Female Bulkhead
- LL160

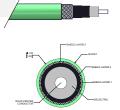
### Features:

- Max Frequency 18 GHz
- Shielding Effectivity > -90 dB
- 82.5% Phase Velocity
- Triple Shielded
- FEP Jacket
- Low VSWR of 1.33:1 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 3 Silver Plated Copper

Jacket Material F

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 Female	SMA Female
Mount Method	Bulkhead	Bulkhead
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Go	old Beryllium Copper, Gold
Contact Plating Spec.	ASTM-B488	ASTM-B488
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plati	ng Passivated Stainless St	teel Passivated Stainless Steel
Body Material & Plating	Passivated Stainless St	teel Passivated Stainless Steel

**Environmental Specifications** 

Temperature

Operating Range -55 to +165 deg C

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

FMCA1718-100cm = 100 cm long cable

**Plotted and Other Data** 

Notes:

### **How to Order**

Part Number Configuration:

FMCA1718 - xx uu

cm = Centimeters
<br/>
<br/>
<br/>
clank> = Inches

Length

Example: FMCA1718-12 = 12 inches long cable

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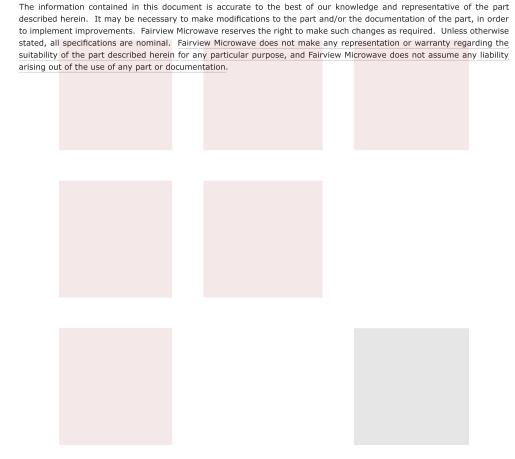




N Female Bulkhead to SMA Female Bulkhead Cable LL160 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

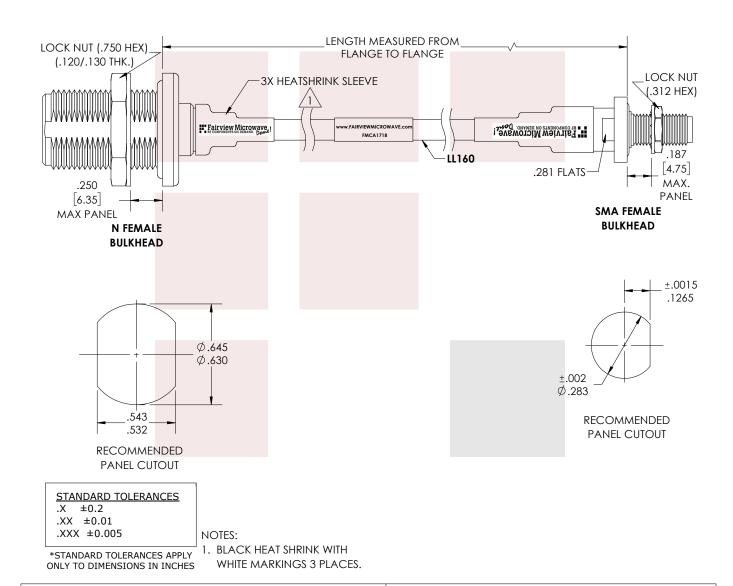
Click the following link to obtain additional part information: N Female Bulkhead to SMA Female Bulkhead Cable LL160 Coax FMCA1718-150CM

URL: https://www.fairviewmicrowave.com/n-female-sma-female-cable-ll160-coax-fmca1718-150cm-p.aspx



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TITLE

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LL160 Coax

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
FMCA1718

CAGE CODE
STKR5

CAD FILE 07/18/18

SHEET

SCALE N/A SIZE A CN2379