

# Low Loss SMA Male to TNC Female Bulkhead Cable LL160 Coax in 150 CM

The SMA Male to TNC Female Bulkhead low loss cable using LL160 coax, part number FMCA1700-150CM, from Fairview Microwave is in-stock and ships same day. This SMA to TNC 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 SMA Male to TNC Female Bulkhead low loss cable FMCA1700-150CM 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**

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.)	0.57	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**

Length\* 59.06 in [150.01 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

## FMCA1700-150CM DATA SHEET



## **Configuration:**

- SMA Male
- TNC Female Bulkhead
- LL160

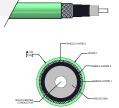
## **Features:**

- 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 **FEP** 

Jacket Material

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	SMA Male	TNC Female
Mount Method		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 & Plat	ing	Passivated Stainless Steel
Body Material & Plating	Passivated Stainless S	teel Passivated Stainless Steel
Coupling Nut Material & Pla	ating Passivated Stainless S	teel

## **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:

FMCA1700 - xx uu cm = Centimeters <br/>
<br/>
dank> = Inches Length

Example: FMCA1700-12 = 12 inches long cable

FMCA1700-100cm = 100 cm long cable

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Low Loss SMA Male to TNC Female Bulkhead Cable LL160 Coax in 150 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.

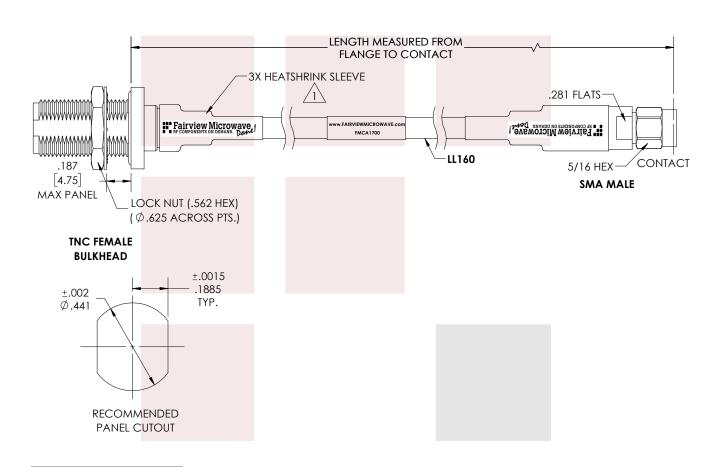
Click the following link to obtain additional part information: Low Loss SMA Male to TNC Female Bulkhead Cable LL160 Coax in 150 CM FMCA1700-150CM

URL: https://www.fairviewmicrowave.com/low-loss-sma-male-tnc-female-cable-II160-coax-fmca1700-150cm-p.aspx



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STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

NOTES:

1. BLACK HEAT SHRINK WITH WHITE MARKINGS 3 PLACES.

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 SMA Male to TNC Female Bulkhead Cable	DWG NO FMCA1700			CAGE CODE 3FKR5		
LL160 Coax in 150 CM	CAD FILE 07/17/18	SHEET	SCAL	LE N/A SIZE	A CN2379	