

# Low Loss N Female Bulkhead to TNC Male Cable LL160 Coax in 50 CM

The N Female Bulkhead to TNC Male low loss cable using LL160 coax, part number FMCA1710-50CM, from Fairview Microwave is in-stock and ships same day. This N 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 N Female Bulkhead to TNC Male low loss cable FMCA1710-50CM 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**

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Description	Min	Т	ур	Max	U	Inits
Frequency Range	DC			18		GHz
VSWR				1.35:1		
Velocity of Propagation		82	2.5			%
RF Shielding	-90					dB
Capacitance		25 [8	32.02	]	pF/fl	: [pF/m]

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.24	0.35	0.53	0.76	1.09	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\*

#### Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 19.69 in [500.13 mm]

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



FMCA1710-50CM

**DATA SHEET** 

# **Configuration:**

- N Female Bulkhead
- TNC Male
- LL160

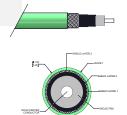
## **Features:**

- 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:**



Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com Fairview Microwave

## an INFINIT<sup>C</sup> brand



Aluminum Polyester
Silver Plated Copper
FEP
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	TNC Male	
Mount Method	Bulkhead		
Impedance	50 Ohms	50 Ohms	
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Contact Plating Spec.	ASTM-B488	ASTM-B488	
Dielectric Type	PTFE	PTFE	
Outer Cond Material & Platin	ng Passivated Stainless Stee	1	
Body Material & Plating	Passivated Stainless Stee	Passivated Stainless Steel	
Coupling Nut Material & Plat	ting	Passivated Stainless Steel	

## **Environmental Specifications**

Temperature Operating Range

-55 to +165 deg C

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

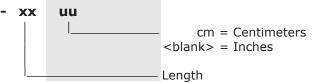
## Plotted and Other Data

Notes:

### **How to Order**

Part Number Configuration:

FMCA1710 - xx



Example: FMCA1710-12 = 12 inches long cable FMCA1710-100 cm = 100 cm long cable

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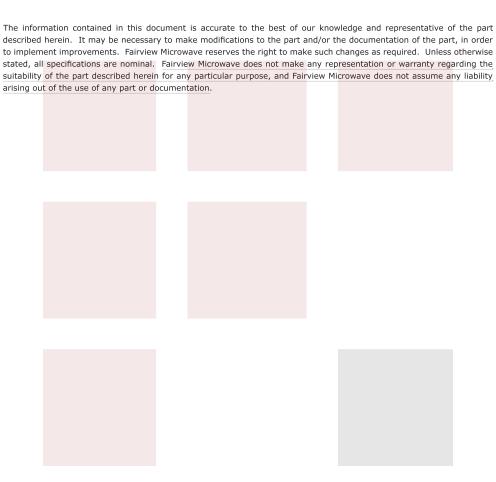


# FMCA1710-50CM DATA SHEET

Low Loss N Female Bulkhead to TNC Male Cable LL160 Coax in 50 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.

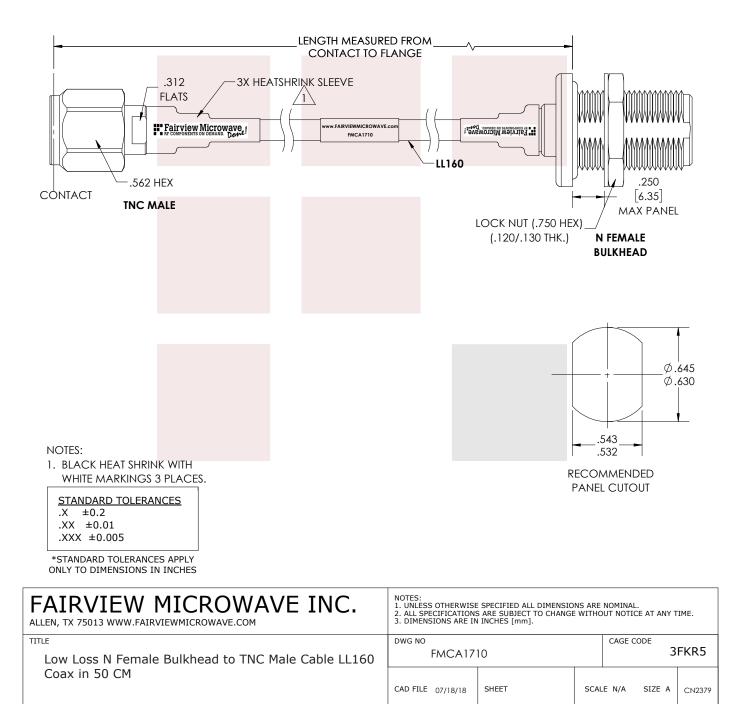
Click the following link to obtain additional part information: Low Loss N Female Bulkhead to TNC Male Cable LL160 Coax in 50 CM FMCA1710-50CM

URL: https://www.fairviewmicrowave.com/low-loss-n-female-tnc-male-cable-ll160-coax-fmca1710-50cm-p.aspx









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