

FMCA1706 DATA SHEET

Low Loss SMA Female Bulkhead to TNC Female **Bulkhead Cable LL160 Coax**

The SMA Female Bulkhead to TNC Female Bulkhead low loss cable using LL160 coax, part number FMCA1706, 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 Female Bulkhead to TNC Female Bulkhead low loss cable FMCA1706 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			1.33:1	
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:

- SMA Female Bulkhead
- TNC Female Bulkhead
- LL160

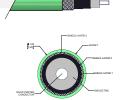
Features:

- Max Frequency 18 GHz
- Shielding Effectivity > -90 dB
- 82.5% Phase Velocity
- Triple Shielded
- FEP Jacket
- Low VSWR of 1.33:1 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 2 Shield Layer 3 Jacket Material Aluminum Polyester Silver Plated Copper

FEP

0.16 in [4.06 mm]

Repeated Minimum Bend Radius

0.8 in [20.32 mm]

Connectors

Jacket Diameter

Description	Connector 1	Connector 2
Туре	SMA Female	TNC 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 & Plat	ing Passivated Stainless S	Steel Passivated Stainless Steel
Body Material & Plating	Passivated Stainless S	Steel 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:

FMCA1706 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA1706-12 = 12 inches long cable FMCA1706-100cm = 100 cm long cable

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Low Loss SMA Female Bulkhead to TNC 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 SMA Female Bulkhead to TNC Female Bulkhead Cable LL160 Coax FMCA1706

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order

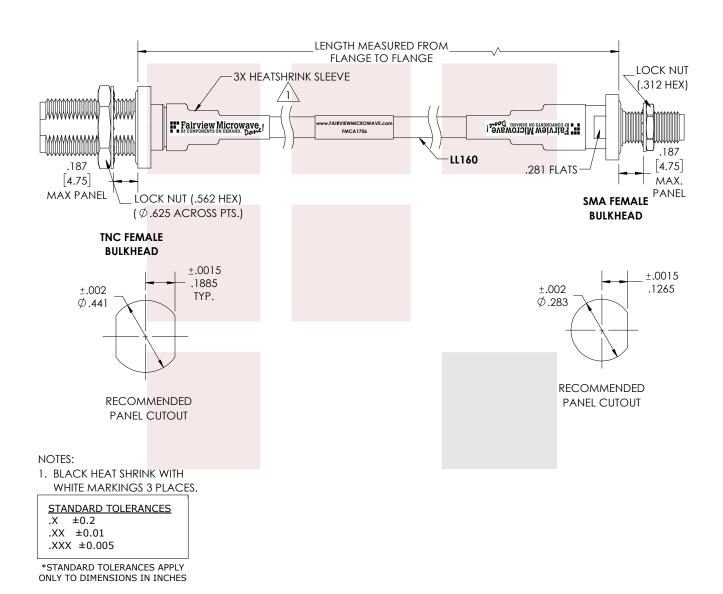
URL: https://www.fairviewmicrowave.com/low-loss-sma-female-tnc-female-cable-ll160-coax-fmca1706-p.aspx

to impleme	ent improvements.	Fairview	Microw	ave reserve	es the righ	nt to mak	e such	changes	as req	uired. I	Jnless	otherwise
	specifications are											
suitability	of the part describ	ed herein	for any	/ particular	purpose,	and Fair	view M	icrowave	does	not ass	ıme ar	ny liability
arising out	of the use of any	part or do	cument	ation.								

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Low Loss SMA Female Bulkhead to TNC Female

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Bulkhead Cable LL160 Coax

CAD FILE 07/18/18

FMCA1706

SHEET

DWG NO

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

SIZE A

SCALE N/A

3FKR5

CN2379