



Low Loss SMA Female Bulkhead to TNC Male Cable LL160 Coax

The SMA Female Bulkhead to TNC Male low loss cable using LL160 coax, part number FMCA1704, 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 Male low loss cable FMCA1704 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 Male
- LL160

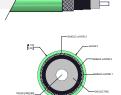
Features:

- 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 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

Description	Connector 1	Connector 2
Туре	SMA Female	TNC Male
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 S	Steel
Body Material & Plating	Passivated Stainless S	Steel Passivated Stainless Steel
Coupling Nut Material & Pla	ating	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:

FMCA1704 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA1704-12 = 12 inches long cable

FMCA1704-100cm = 100 cm long cable

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Low Loss SMA Female Bulkhead to TNC Male 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 Male Cable LL160 Coax FMCA1704

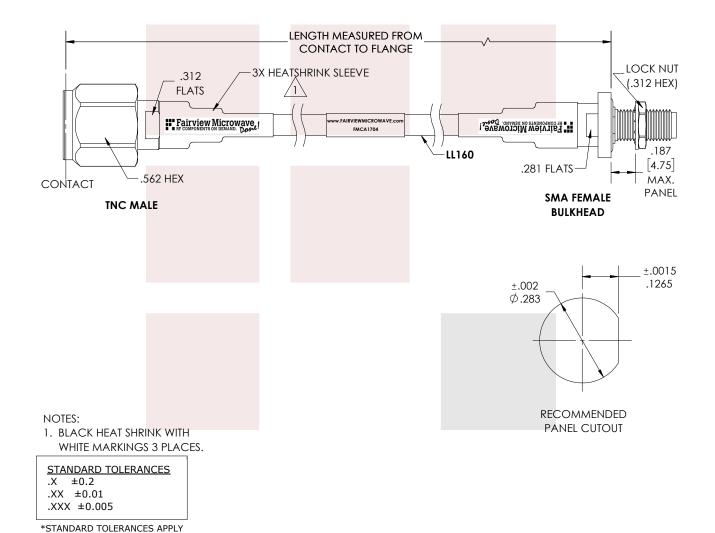
URL: https://www.fairviewmicrowave.com/low-loss-sma-female-tnc-male-cable-ll160-coax-fmca1704-p.aspx



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TITLE
LOW Loss SMA Female Bulkhead to TNC Male Cable
LL160 Coax

CAD FILE 07/18/18

NOTES:
1. UNLESS OTHERWISE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DWG NO
FMCA1704

CAGE CODE
3FKR5

CAD FILE 07/18/18

SHEET

SCALE N/A SIZE A CN2379

ONLY TO DIMENSIONS IN INCHES