

Low Loss SMA Female Bulkhead to RA TNC Male Cable LL160 Coax in 100 CM

The SMA Female Bulkhead to RA TNC Male low loss cable using LL160 coax, part number FMCA1705-100CM, 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 RA TNC Male low loss cable FMCA1705-100CM 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			1.5:1	
Velocity of Propagation		82.5		%
RF Shielding	-90			dB
Capacitance		25 [82.02	<u>!</u>]	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.)	0.47	0.67	1.01	1.46	2.1	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 for the straight connector and 0.10*SQRT(F(GHz))dB maximum for the right angle connector.

Mechanical Specifications

Cable Assembly

Length* 39.37 in [100 cm]

Cable

Cable Type LL160 50 Ohms **Impedance** Inner Conductor Type Solid Inner Conductor Material and Plating Copper, Silver Dielectric Type PTFE

FMCA1705-100CM **DATA SHEET**



Configuration:

- SMA Female Bulkhead
- TNC Male Right Angle
- LL160

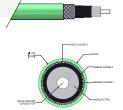
Features:

- Max Frequency 18 GHz
- Shielding Effectivity > -90 dB
- 82.5% Phase Velocity
- Triple Shielded
- FEP Jacket
- Low VSWR of 1.5:1 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

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Number of Shields

Shield Layer 1 Silver Plated Copper 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, G	Gold Beryllium Copper, Gold	
Contact Plating Spec.	ASTM-B488	ASTM-B488	
Dielectric Type	PTFE	PTFE	
Outer Cond Material & Plati	ng Passivated Stainless	Steel	
Body Material & Plating	Passivated Stainless	Steel Passivated Stainless Steel	
Coupling Nut Material & Pla	ting	Passivated Stainless Steel	

Environmental Specifications

Temperature

Operating Range -55 to +165 deg C

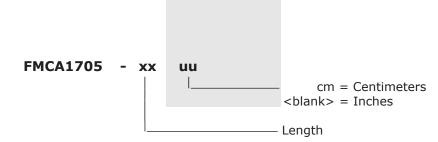
Compliance Certifications (see product page for current document)



Notes:

How to Order

Part Number Configuration:



Example: FMCA1705-12 = 12 inches long cable

FMCA1705-100cm = 100 cm long cable





Low Loss SMA Female Bulkhead to RA TNC Male Cable LL160 Coax in 100 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 Female Bulkhead to RA TNC Male Cable LL160 Coax in 100 CM FMCA1705-100CM

The information contained in this document is accurate to the best of our knowledge and representative of the part

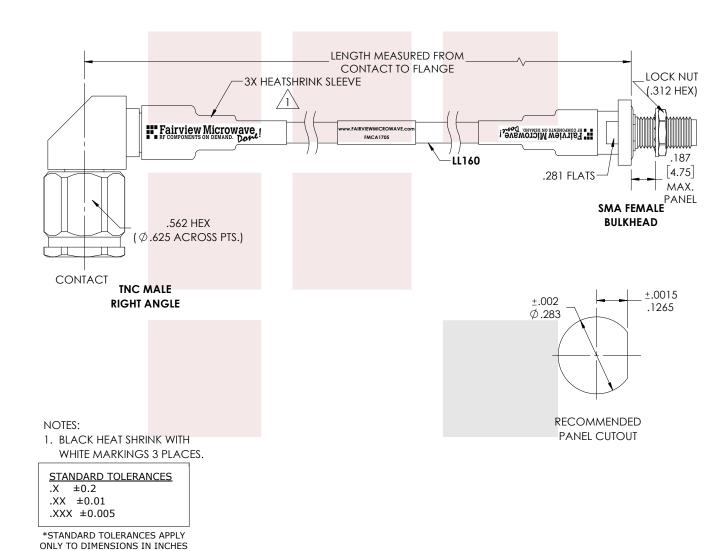
URL: https://www.fairviewmicrowave.com/low-loss-sma-female-ra-tnc-male-cable-ll160-coax-fmca1705-100cm-p.aspx

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FMCA1705-100CM DATA SHEET



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TITLE

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LL160 Coax in 100 CM

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

FMCA1705

CAGE CODE

STKR5

CAD FILE 07/18/18

SHEET

SCALE N/A SIZE A CN2379