

FMCA1691-36 DATA SHEET

Low Loss TNC Female Bulkhead to TNC Female Bulkhead Cable LL160 Coax in 36 Inch

The TNC Female Bulkhead to TNC Female Bulkhead low loss cable using LL160 coax, part number FMCA1691-36, from Fairview Microwave is in-stock and ships same day. This TNC 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 TNC Female Bulkhead to TNC Female Bulkhead low loss cable FMCA1691-36 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.)	0.38	0.54	0.83	1.19	1.72	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* 36 in [914.4 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

3

Silver Plated Copper



Configuration:

- TNC Female Bulkhead
- TNC Female Bulkhead
- LL160

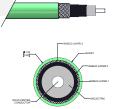
Features:

- Max Frequency 18 GHz
- Shielding Effectivity > -90 dB
- 82.5% Phase Velocity
- Triple Shielded
- FEP Jacket
- Low VSWR of 1.35:1 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 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	TNC Female Thread	ed TNC Female Threaded
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 & Plati	ng Passivated Stainless S	teel Passivated Stainless Steel
Body Material & Plating	Passivated Stainless S	teel 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:

FMCA1691 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA1691-12 = 12 inches long cable FMCA1691-100cm = 100 cm long cable

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Low Loss TNC Female Bulkhead to TNC Female Bulkhead Cable LL160 Coax in 36 Inch 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 TNC Female Bulkhead to TNC Female Bulkhead Cable LL160 Coax in 36 Inch FMCA1691-36

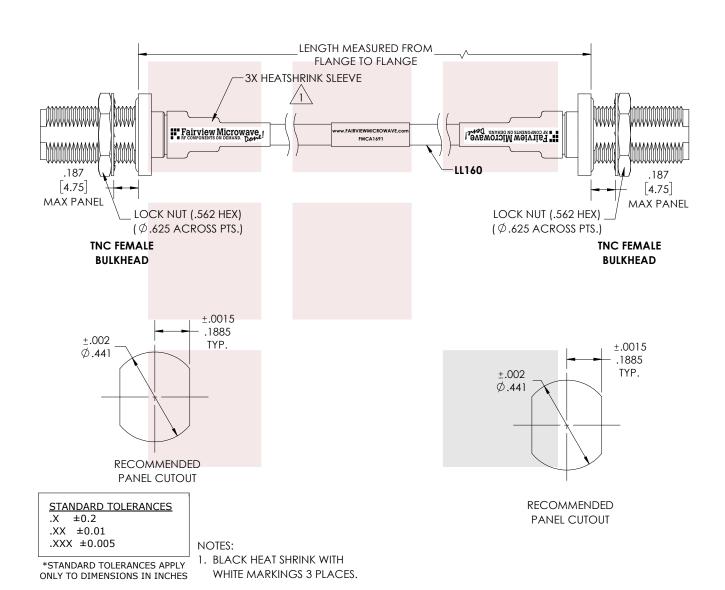
URL: https://www.fairviewmicrowave.com/low-loss-tnc-female-tnc-female-cable-ll160-coax-fmca1691-36-p.aspx



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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
FMCA1691

CAGE CODE
TABLE 07/12/18

SHEET

SCALE N/A SIZE A CN2379