

FMCA1689-150CM DATA SHEET

Low Loss TNC Male to TNC Male Cable LL160 Coax in 150 CM

The TNC Male to TNC Male low loss cable using LL160 coax, part number FMCA1689-150CM, 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 Male to TNC Male low loss cable FMCA1689-150CM 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	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/ft	: [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.57	0.82	1.25	1.79	2.6	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*

Weight

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields 59.06 in [150.01 cm] 0.21 lbs [95.25 g]

LL160 50 Ohms Solid Copper, Silver PTFE 3



Configuration:

- TNC Male
- TNC Male
- LL160

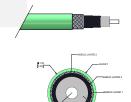
Features:

- 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:



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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

Connector 1	Connector 2		
TNC Male Threaded	TNC Male Threaded		
50 Ohms	50 Ohms		
Beryllium Copper, Gold	Beryllium Copper, Gold		
ASTM-B488	ASTM-B488		
PTFE	PTFE		
Passivated Stainless Stee	Passivated Stainless Steel		
ting Passivated Stainless Stee	Passivated Stainless Steel		
	TNC Male Threaded 50 Ohms Beryllium Copper, Gold ASTM-B488 PTFE Passivated Stainless Stee		

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:

FMCA1689 - xx



Example: FMCA1689-12 = 12 inches long cable FMCA1689-100cm = 100 cm long cable

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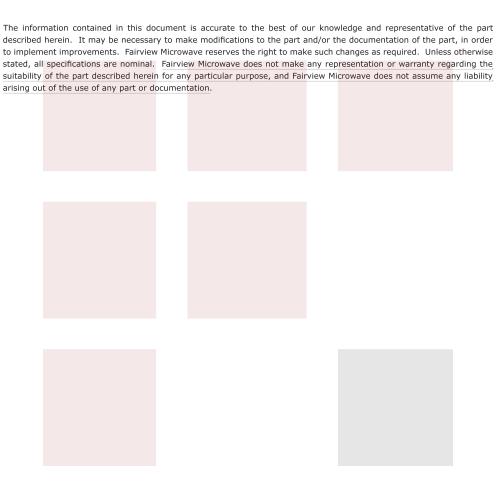


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Low Loss TNC Male to TNC Male Cable LL160 Coax in 150 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

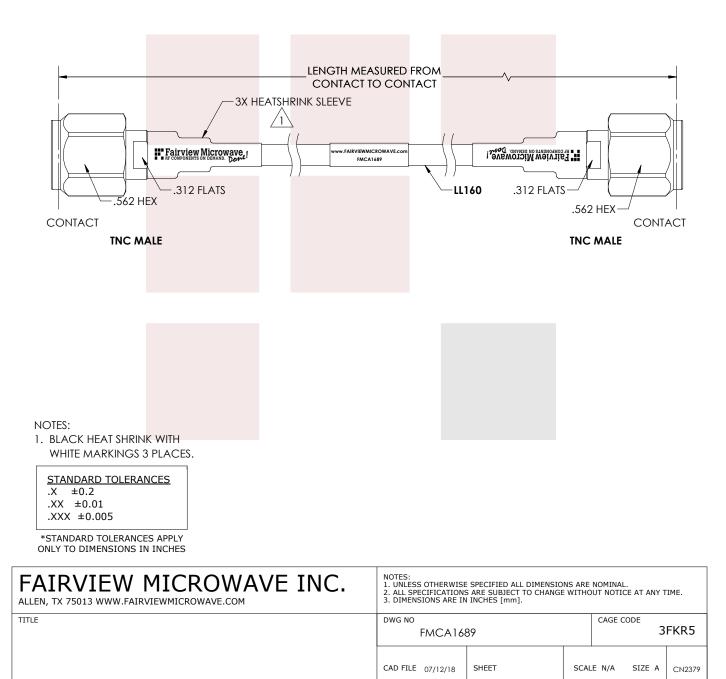
Click the following link to obtain additional part information: Low Loss TNC Male to TNC Male Cable LL160 Coax in 150 CM FMCA1689-150CM

URL: https://www.fairviewmicrowave.com/low-loss-tnc-male-tnc-male-cable-ll160-coax-fmca1689-150cm-p.aspx









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