



Low Loss RA TNC Male to RA TNC Male Cable LL160 Coax

The RA TNC Male to RA TNC Male low loss cable using LL160 coax, part number FMCA1690, 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 RA TNC Male to RA TNC Male low loss cable FMCA1690 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	T	ур	Max	U	Inits
Frequency Range	DC			18		GHz
VSWR				1.5:1		
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.)	0.1	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 for the right angle connector is estimated as 0.10*SQRT(F(GHz))dB maximum.

Mechanical Specifications

Cable Assembly

Weight 0.19 lbs [86.18 q]

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:

- TNC Male Right Angle
- TNC Male Right Angle
- LL160

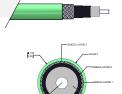
Features:

- Max Frequency 18 GHz
- Shielding Effectivity > -90 dB
- 82.5% Phase Velocity
- Triple Shielded
- FEP Jacket
- Low VSWR of 1.35:1 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 Aluminum Polyester Shield Layer 3 Silver Plated Copper **FEP**

Jacket Material

Jacket Diameter 0.16 in [4.06 mm]

Repeated Minimum Bend Radius 0.8 in [20.32 mm]

Connectors

Description		Connecto	Connector 2					
Туре		TNC Male Threaded			TNC Male Threaded			
Impedance		50 Ohm	ıs	50 Ohms				
Contact Material & Plating		Beryllium Copp	er, G	Gold Beryllium Copper, C			ld	
Contact Plating Spec.		ASTM-B48	88		ASTM-B48	38		
Dielectric Type		PTFE			PTFE			
Body Material & Plating		Passivated Stain	less S	Steel	Passivated Stainl	ess St	eel	
Coupling Nut Material & Pla	ting	Passivated Stain	less S	Steel	Passivated Stainl	ess St	eel	

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: FMCA1690 - xx uu cm = Centimeters <black> = Inches Length

Example: FMCA1690-12 = 12 inches long cable

FMCA1690-100cm = 100 cm long cable





Low Loss RA TNC Male to RA 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 RA TNC Male to RA TNC Male Cable LL160 Coax FMCA1690

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

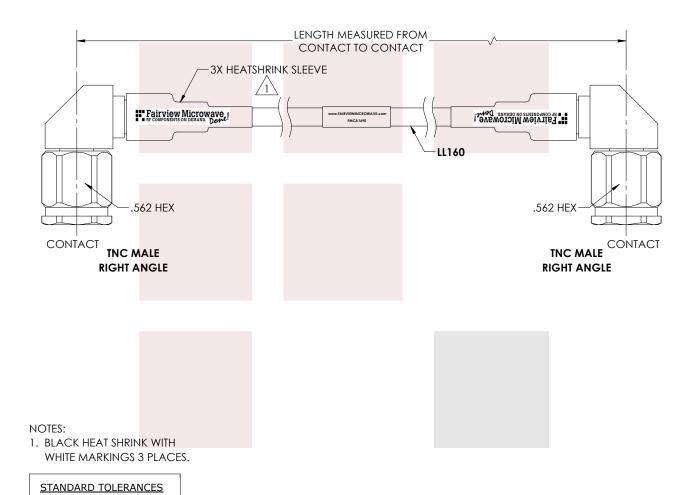
URL: https://www.fairviewmicrowave.com/low-loss-ra-tnc-male-ra-tnc-male-cable-ll160-coax-fmca1690-p.aspx

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to impleme	ent improve	ements.	Fairview	/ Microw	ave reserv	es the righ	nt to mak	e such o	changes as	required. U	Inless o	otherwise
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DWG NO

FMCA1690

CAD FILE 07/12/18 SHEET

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

3FKR5

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES