

FMCA1710-12 DATA SHEET

Low Loss N Female Bulkhead to TNC Male Cable LL160 Coax in 12 Inch

The N Female Bulkhead to TNC Male low loss cable using LL160 coax, part number FMCA1710-12, from Fairview Microwave is in-stock and ships same day. This N 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 N Female Bulkhead to TNC Male low loss cable FMCA1710-12 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	ι	Jnits
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/f	t [pF/m]

Performance by Frequency

Description F1		F2	F3	F4	F5	Units	
Frequency	1	2	4.5	9	18	GHz	
Insertion Loss (Typ.)	0.18	0.26	0.39	0.56	0.8	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* 12 in [304.8 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:

- N Female Bulkhead
- TNC Male
- LL160

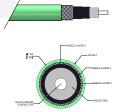
Features:

- Max Frequency 18 GHz
- Shielding Effectivity > -90 dB
- 82.5% Phase Velocity
- Triple Shielded
- FEP Jacket
- Low VSWR of 1.35:1 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:



Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689

www.fairviewmicrowave.com sales@fairviewmicrowave.com





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	Connector 1	Connector 2	Connector 2			
Туре	N Female	TNC Male				
Mount Method	Bulkhead					
Impedance	50 Ohms	50 Ohms				
Contact Material & Plating	Beryllium Copper, Go	ld Beryllium Copper, Go	ld			
Contact Plating Spec.	ASTM-B488	ASTM-B488				
Dielectric Type	PTFE	PTFE				
Outer Cond Material & Plati	ng Passivated Stainless St	teel				
Body Material & Plating	Passivated Stainless St	teel Passivated Stainless St	eel			
Coupling Nut Material & Pla	ting	Passivated Stainless 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:

FMCA1710 - xx uu cm = Centimeters

lank> = Inches Length

Example: FMCA1710-12 = 12 inches long cable

FMCA1710-100cm = 100 cm long cable

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

Copyright © 2020 REV 1.0 Page 2 of 4





Low Loss N Female Bulkhead to TNC Male Cable LL160 Coax in 12 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 N Female Bulkhead to TNC Male Cable LL160 Coax in 12 Inch FMCA1710-12

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

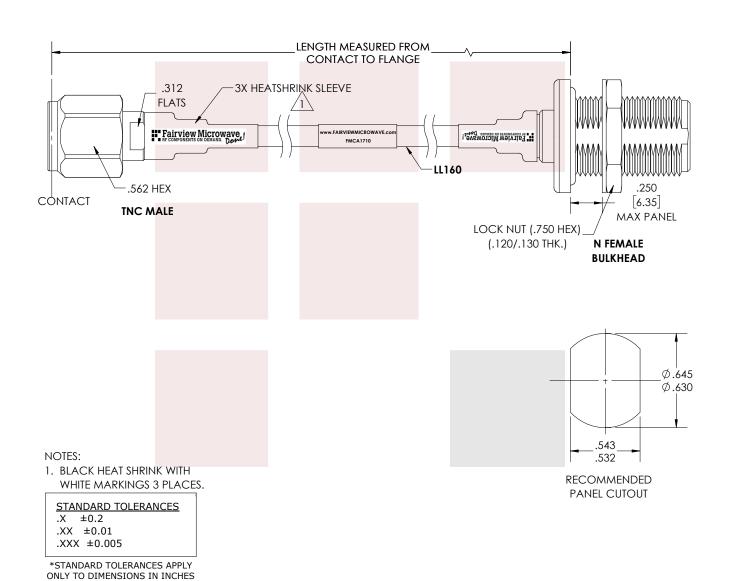
URL: https://www.fairviewmicrowave.com/low-loss-n-female-tnc-male-cable-ll160-coax-fmca1710-12-p.aspx

										. op. 000	o. dito part
described	herein.	It may b	e necessar	y to ma	ke modific	ations to t	he part a	nd/or tl	ne documen	itation of the p	art, in order
to implem	nent imp	rovement	s. Fairview	/ Microw	ave reserv	es the righ	it to mak	e such o	changes as i	required. Unles	s otherwise
stated, al	l specific	ations are	e nominal.	Fairvie	w Microwa	ve does n	ot make	any rep	resentation	or warranty re	garding the
suitability	of the p	art descr	ibed hereir	n for an	y particula	r purpose,	and Fair	view Mi	crowave do	es not assume	any liability
arising ou	it of the	use of any	part or do	ocumen	tation.						

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689







FAIRVIEW MICROWAVE INC.
ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM

TITLE

Low Loss N Female Bulkhead to TNC Male Cable LL160

Coax in 12 Inch

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

FMCA1710

CAGE CODE

FMCA1710

CAGE CODE

CAGE CODE

STKR5