

FMCA1711 DATA SHEET

Low Loss N Female Bulkhead to RA TNC Male Cable LL160 Coax

The N Female Bulkhead to RA TNC Male low loss cable using LL160 coax, part number FMCA1711, 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 RA TNC Male low loss cable FMCA1711 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/fl	[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 straight connector is estimated as 0.04*SQRT(F(GHz))dB maximum. Insertion Loss for the right angle connector is estimated as 0.10*SQRT(F(GHz))dB maximum.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type

LL160
50 Ohms
Solid
Copper, Silver
PTFE



Configuration:

- N Female Bulkhead
- TNC Male Right Angle
- LL160

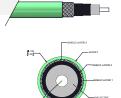
Features:

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

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





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	N Female		TNC Male			
Mount Method	Bulkhead					
Impedance	50 Ohms		50 Ohms	S		
Contact Material & Plating	Beryllium Copper, G	old	Beryllium Coppe	er, Go	ld	
Contact Plating Spec.	ASTM-B488		ASTM-B48	38		
Dielectric Type	PTFE		PTFE			
Outer Cond Material & Plat	ing Passivated Stainless	Steel				
Body Material & Plating	Passivated Stainless	Passivated Stainless Steel		Passivated Stainless Steel		
Coupling Nut Material & Pla	t Material & Plating Passivated Stainless Stee			eel		

Environmental Specifications

Temperature

Operating Range -55 to +165 deg C

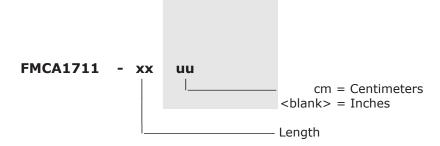
Compliance Certifications (see product page for current document)



Notes:

How to Order

Part Number Configuration:



Example: FMCA1711-12 = 12 inches long cable

FMCA1711-100cm = 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 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 N Female Bulkhead to RA TNC Male Cable LL160 Coax FMCA1711

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

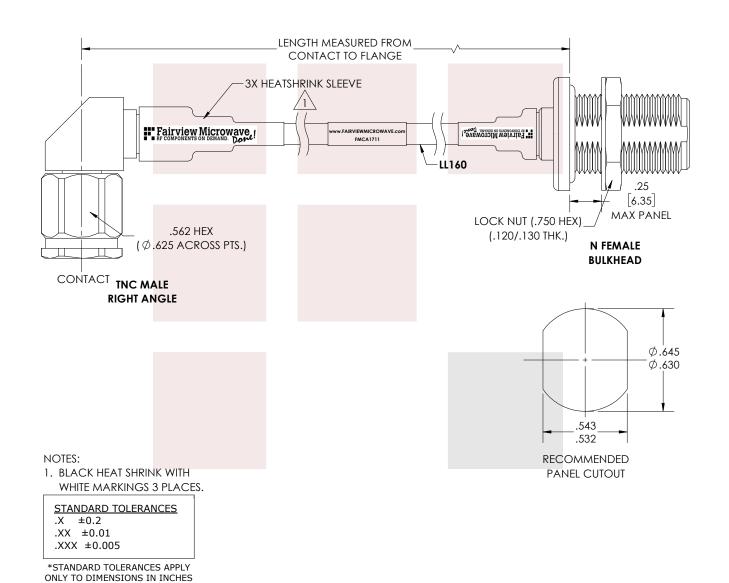
URL: https://www.fairviewmicrowave.com/low-loss-n-female-ra-tnc-male-cable-ll160-coax-fmca1711-p.aspx

described	herein. It	may be i	necessar	y to ma	ke modifica	ations to tl	ne part a	nd/or tl	ne documer	itation of the p	art, in order
to impleme	ent improv	ements.	Fairview	/ Microw	ave reserv	es the righ	t to mak	e such o	changes as	required. Unle	ss otherwise
stated, all	specification	ons are r	nominal.	Fairvie	w Microwa	ve does no	ot make	any rep	resentation	or warranty r	egarding the
						r purpose,	and Fair	view Mi	crowave do	es not assume	any liability
arising out	t of the use	of any p	art or do	ocument	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 RA TNC Male Cable
LL160 Coax

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

FMCA1711

CAGE CODE

STKR5