

FMCA1721-24 DATA SHEET

Low Loss RA N Male to RA SMA Male Cable LL160 Coax in 24 Inch

The RA N Male to RA SMA Male low loss cable using LL160 coax, part number FMCA1721-24, from Fairview Microwave is in-stock and ships same day. This N to SMA 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 N Male to RA SMA Male low loss cable FMCA1721-24 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				1.35:1		
Velocity of Propagation		82.5			%	
RF Shielding	-90					dB
Capacitance	itance 25		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.)	0.34	0.48	0.73	1.05	1.51	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 for the SMA right angle connector and 0.10*SQRT(F(GHz))dB maximum for the N right angle connector.

Mechanical Specifications

Cable Assembly

Length* 24 in [609.6 mm]

Cable

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

LL160 50 Ohms Solid Copper, Silver PTFE



Configuration:

- N Male Right Angle
- SMA Male Right Angle
- LL160

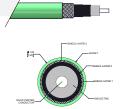
Features:

- 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

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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 Male	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	d Beryllium Copper, Gold
Contact Plating Spec.	ASTM-B488	ASTM-B488
Dielectric Type	PTFE	PTFE
Body Material & Plating	Passivated Stainless Ste	eel Passivated Stainless Steel
Coupling Nut Material & Pla	ting Passivated Stainless Ste	eel 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:



Example: FMCA1721-12 = 12 inches long cable

FMCA1721-100cm = 100 cm long cable

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Low Loss RA N Male to RA SMA Male Cable LL160 Coax in 24 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 RA N Male to RA SMA Male Cable LL160 Coax in 24 Inch FMCA1721-24

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order

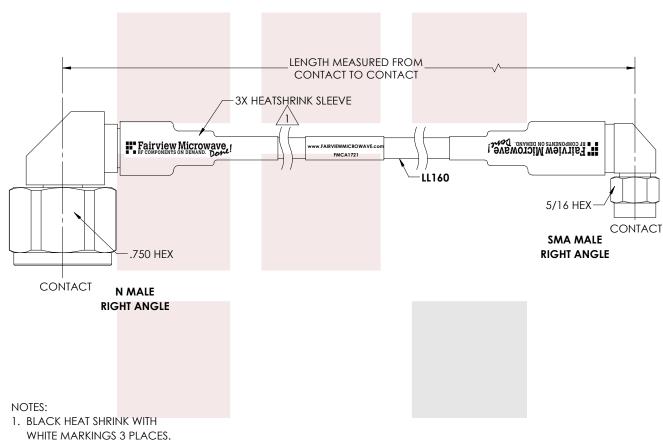
URL: https://www.fairviewmicrowave.com/low-loss-ra-n-male-ra-sma-male-cable-II160-coax-fmca1721-24-p.aspx

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stated, al	l specification	s are nominal.	Fairvie	w Microwa	ve does n	ot make	any re	presentat	ion or	warranty	regar	ding the
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arising ou	t of the use o	f any part or do	cument	ation.								

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STANDARD TOLERANCES
.X ±0.2

.XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	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].					
Low Loss RA N Male to RA SMA Male Cable LL160	DWG NO FMCA1721			CAGE CODE 3FKR5		
Coax in 24 Inch	CAD FILE 07/18/18	SHEET	SCAL	LE N/A SIZE A	CN2379	