

## Low Loss N Male to SMA Male Cable Armored 0.32 Coax in 120 Inch

The type N male to SMA male 120 inch cable using armored 0.32 coax, part number FMCA1953-120, from Fairview Microwave is in-stock and ships same day. This Fairview type N to SMA cable assembly has a male to male gender configuration with 50 ohm flexible armored 0.32 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1953-120 type N male to SMA male cable assembly operates to 18 GHz. The triple shielding of this Fairview cable assembly provides excellent shielding effectiveness.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		18	GHz
VSWR		1.25:1	1.35:1	
Velocity of Propagation		80		%

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	3	5	10	18	GHz
Insertion Loss (Typ.)	0.8	1.4	1.8	2.5	3.6	dB
Power Handling (Max.)				220		W

#### Electrical Specification Notes:

Insertion loss does not include the loss of the connectors.  
Insertion loss is estimated as  $0.05 \times \sqrt{f\text{GHz}}$  dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length*	120 in [304.8 cm]
Weight	1.076 lbs [488.07 g]

#### Cable

Cable Type	Armored 0.32
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	3
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Aluminum Polyester
Shield Layer 3	Silver Plated Copper Braid
Jacket Material	Passivated Stainless Steel



### Configuration:

- N Male
- SMA Male
- Armored 0.32

### Features:

- Max Frequency 18 GHz
- 80% Phase Velocity
- Triple Shielded
- Passivated Stainless Steel Jacket
- Type N Male to N Male and SMA Male to SMA Male Configurations Available
- Robust Connector/Armor Interface
- Low Loss Flexible Armored LL142 Coax with Expanded PTFE Tape Dielectric
- Custom lengths available, call for pricing and lead time

### Applications:

- General Purpose
- Laboratory Use

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Jacket Diameter 0.32 in [8.13 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm]

### Connectors

Description	Connector 1	Connector 2
Type	N Male	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel

### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

### Environmental Specifications

#### Temperature

Operating Range -55 to +200 deg C

### Compliance Certifications

(see [product page](#) for current document)

### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

### How to Order

Part Number Configuration:

**FMCA1953 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

Example: FMCA1953-12 = 12 inches long cable  
FMCA1953-100cm = 100 cm long cable

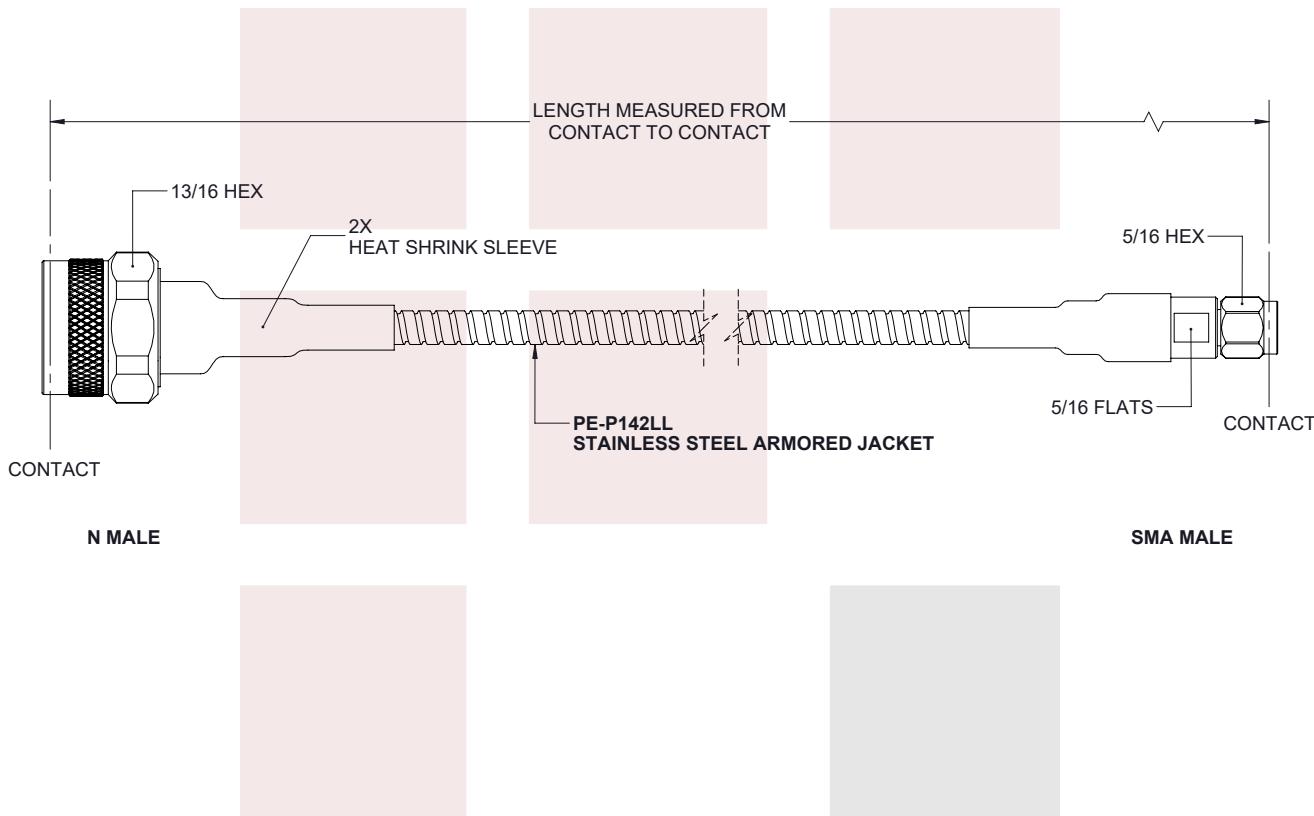
Low Loss N Male to SMA Male Cable Armored 0.32 Coax in 120 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss N Male to SMA Male Cable Armored 0.32 Coax in 120 Inch FMCA1953-120](#)

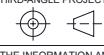
URL: <https://www.fairviewmicrowave.com/low-loss-n-male-sma-male-cable-armored-0.32-coax-fmca1953-120-p.aspx>

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 to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	2/7/2020	S.ELLIS



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	TOLERANCES:	CABLE LENGTH (L) TOLERANCES:	
TITLE  Low Loss N Male to SMA Male Cable Armored 0.32 Coax in 120 Inch	.X = ± 2 [5.08] FRACTIONS .XX = ± .02 [.51] ± 1/32 .XXX = ± .005 [.13] ANGLES ± 1°	L ≤ 12 [305] = +1 [25] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0	ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMCA1953 REV A

T-Rev.D