

Low Loss N Male to RA N Male Cable LMR-600-UF Coax With Times Microwave Components

The type N male to RA type N male cable using LMR-600-UF coax, part number FMCA3197, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-600-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3197 type N male to type N male cable assembly operates to 5.8 GHz. The right angle type N interface on the LMR-600-UF cable allows for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB.

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		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		87		%
RF Shielding	90			dB
Group Delay		1.17 [3.84]		ns/ft [ns/m]
Capacitance		23.4 [76.77]		pF/ft [pF/m]
Inductance		0.058 [0.19]		uH/ft [uH/m]
DC Resistance Inner Conductor		0.43 [1.41]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		1.2 [3.94]		Ω /1000ft [Ω /Km]
Jacket Spark			8,000	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.014	0.022	0.031	0.053	0.087	dB/ft
	0.05	0.07	0.1	0.17	0.29	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Weight 0.53 lbs [240.4 g]

Cable

Cable Type LMR-600-UF
 Impedance 50 Ohms



Configuration:

- N Male
- N Male Right Angle
- LMR-600-UF

Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- TPE Jacket

Applications:

- General Purpose
- Laboratory Use

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Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	Foam PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper
Jacket Material	TPE, Black
Jacket Diameter	0.59 in [14.99 mm]

One Time Minimum Bend Radius	1.5 in [38.1 mm]
Repeated Minimum Bend Radius	6 in [152.4 mm]
Bending Moment	1.75 lbs-ft [2.37 N-m]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]
Tensile Strength	350 lbs [158.76 Kg]

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Spec.	50μ in. minimum	50μ in. minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	100μ in. minimum	78μ in. minimum
Coupling Nut Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Spec.	100μ in. minimum	78μ in. minimum
Hex Size	20.57 mm	20.57 mm
Torque	44 in-lbs 4.97 Nm	44 in-lbs 4.97 Nm

Environmental Specifications

Temperature

Operating Range

Shock

Vibration

Thermal Shock

-40 to +85 deg C

MIL-STD-202G, Method 213, Condition I

MIL-STD-202G, Method 204, Condition B

MIL-STD-202G, Method 107, Condition B

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA3197 - xx uu

cm = Centimeters
 <blank> = Inches

Length

Example: FMCA3197-12 = 12 inches long cable
 FMCA3197-100cm = 100 cm long cable

Low Loss N Male to RA N Male Cable LMR-600-UF Coax With Times Microwave Components 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 Male to RA N Male Cable LMR-600-UF Coax With Times Microwave Components FMCA3197](https://www.fairviewmicrowave.com/low-loss-n-male-to-ra-n-male-cable-lmr-600-uf-coax-with-times-microwave-components-fmca3197-p.aspx)

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