

Low Loss RA N Male to RA N Male Cable LMR-195 Coax with Times Microwave Components with LF Solder, 180 Degree Clocking

The RA type N male to RA type N male cable using LMR-195 coax, part number FMCA3180/0401, 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-195 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3180/0401 type N male to type N male cable assembly operates to 5.8 GHz. The right angle type N interfaces on the LMR-195 cable allow 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	Т	ур	Max	ι	Jnits	
Frequency Range	DC			5.8		GHz	
VSWR				1.4:1			
Velocity of Propagation		8	30			%	
RF Shielding	90					dB	
Group Delay		1.27	[4.17]		ns/f	t [ns/n	n]
Capacitance		25.4	[83.33]		pF/f	t [pF/n	n]
Inductance		0.064	[0.21]		uH/f	t [uH/r	n]
DC Resistance Inner Cor	nductor	7.6 [24.93]		Ω/100	Oft [Ω/I	Km]
DC Resistance Outer Cor	nductor	4.9 [16.08]		Ω/100	Oft [Ω/I	Km]
Jacket Spark				3,000	١	/rms	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.057	0.081	0.115	0.19	0.299	dB/ft
	0.19	0.27	0.38	0.62	0.98	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.21 lbs [95.25 g]

Cable

Cable Type LMR-195
Impedance 50 Ohms
Inner Conductor Type Solid

FMCA3180/0401 DATA SHEET



Configuration:

- N Male Right Angle
- N Male Right Angle
- LMR-195

Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket

Applications:

- General Purpose
- Laboratory Use

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Inner Conductor Material and Plating

Dielectric Type Number of Shields

Shield Layer 1 Shield Layer 2 Jacket Material

Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment

Flat Plate Crush Tensile Strength Copper PE (F) 2

Aluminum Tape Tinned Copper Braid

PE, Black

0.195 in [4.95 mm]

0.5 in [12.7 mm] 2 in [50.8 mm]

0.2 lbs-ft [0.27 N-m] 15 lbs/in [0.27 Kg/mm] 40 lbs [18.14 Kg]

Connectors

Description	Connector 1	Connector 2
Туре	N Male	N Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Contact Plating Spec.	50 μin minimum	50 μin minimum
Dielectric Type	Teflon	Teflon
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	80 μin minimum	80 µin minimum
Coupling Nut Material & Pla	ting Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Spec.	80 μin minimum	80 µin minimum

Environmental Specifications

Temperature

Operating Range

-40 to +155 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:

Example: FMCA3180/0401-12 = 12 inches long cable

FMCA3180/0401-100cm = 100 cm long cable

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Low Loss RA N Male to RA N Male Cable LMR-195 Coax with Times Microwave Components with LF Solder, 180 Degree Clocking 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 N Male Cable LMR-195 Coax with Times Microwave Components with LF Solder, 180 Degree Clocking FMCA3180/0401

URL: https://www.fairviewmicrowave.com/low-loss-ra-n-male-to-ra-n-male-cable-lmr-195-coax-with-times-microwave-components-with-lf-solder-180-degree-clocking-fmca3180-0401-p.aspx







