

Low Loss 4.3-10 Male to 4.3-10 Male Cable LMR-400 Coax With Times Microwave Components

The 4.3-10 male to 4.3-10 male cable using LMR-400 coax, part number FMCA3194, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to 4.3-10 cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3194 4.3-10 male to 4.3-10 male cable assembly operates to 6 GHz. 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		6	GHz
VSWR			1.5:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.39 [4.56]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		1.65 [5.41]		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.)	0.02	0.028	0.041	0.068	0.111	dB/ft
	0.07	0.09	0.13	0.22	0.36	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.26 lbs [117.93 g]

Cable

Cable Type LMR-400
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Aluminum



Configuration:

- 4.3-10 Male
- 4.3-10 Male
- LMR-400

Features:

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket
- 500 Mating Cycles

Applications:

- General Purpose
- Laboratory Use

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Dielectric Type PE (F)
 Number of Shields 2
 Shield Layer 1 Aluminum Tape
 Shield Layer 2 Tinned Copper Braid
 Jacket Material PE, Black
 Jacket Diameter 0.405 in [10.29 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]
 Repeated Minimum Bend Radius 4 in [101.6 mm]
 Bending Moment 0.5 lbs-ft [0.68 N-m]
 Flat Plate Crush 40 lbs/in [0.71 Kg/mm]
 Tensile Strength 160 lbs [72.57 Kg]

Connectors

Description	Connector 1	Connector 2
Type	4.3-10 Male	4.3-10 Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material & Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C
 Shock MIL-STD-202G, Meth 204, Cond. B
 Vibration MIL-STD-202G, Meth 213, Cond. I
 Thermal Shock MIL-STD-202G, Meth 107, Cond. B

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

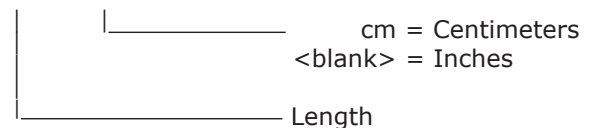
Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA3194 - xx uu



Example: FMCA3194-12 = 12 inches long cable
 FMCA3194-100cm = 100 cm long cable

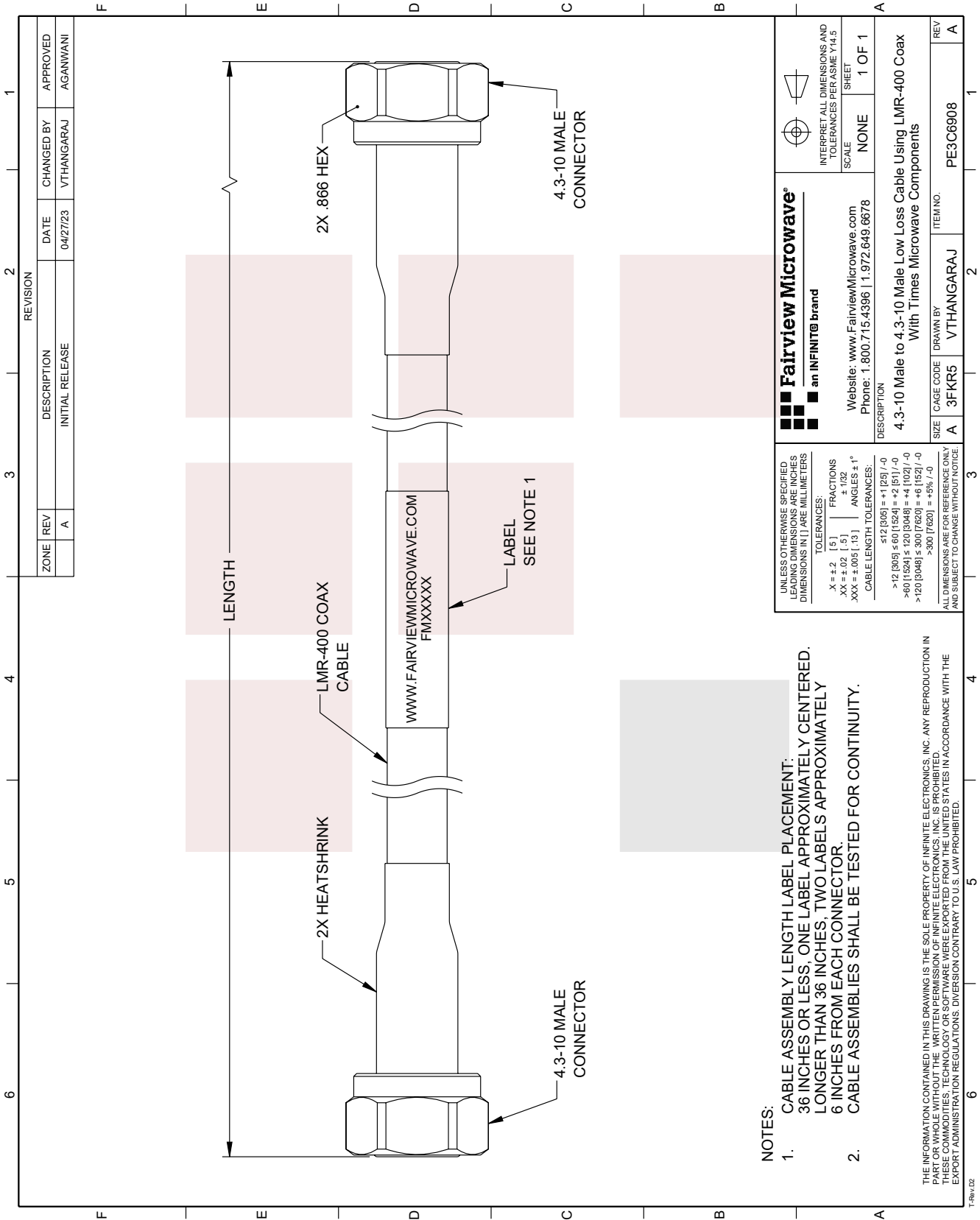
Low Loss 4.3-10 Male to 4.3-10 Male Cable LMR-400 Coax With Times Microwave Components from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss 4.3-10 Male to 4.3-10 Male Cable LMR-400 Coax With Times Microwave Components FMCA3194](#)

URL: <https://www.fairviewmicrowave.com/low-loss-4.3-10-male-to-4.3-10-male-cable-lmr-400-coax-with-times-microwave-components-fmca3194-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.





NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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<p>Fairview Microwave[®] an INFINIT[®] brand</p> <p>Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE SHEET: 1 OF 1</p>		
<p>UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS IN LARGE MILLIMETERS</p> <p>TOLERANCES: .X = ±.2 [.5] FRACTIONS .XX = ±.02 [.5] ± .032 .XXX = ±.005 [.13] ANGLES ± 1°</p> <p>CABLE LENGTH TOLERANCES: ≤12 [305] = ±1 [25] / -0 >12 [305] ≤ 60 [1524] = +2 [51] / -0 >60 [1524] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +6 [152] / -0 >300 [7620] = +5% / -0</p>		<p>DESCRIPTION: 4.3-10 Male to 4.3-10 Male Low Loss Cable Using LMR-400 Coax With Times Microwave Components</p>		
<p>ZONE</p>	<p>REV</p>	<p>DATE</p>	<p>CHANGED BY</p>	<p>APPROVED</p>
	A	04/27/23	VTHANGARAJ	AGANWANI
<p>REVISION</p>		<p>DESCRIPTION</p>		<p>DATE</p>
		<p>INITIAL RELEASE</p>		<p>04/27/23</p>
<p>SIZE</p>	<p>CAGE CODE</p>	<p>DRAWN BY</p>	<p>ITEM NO.</p>	<p>REV</p>
A	3FKR5	VTHANGARAJ	PE3C6908	A