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## All Aluminum Alloy (6201) Conductor

ASTM: B398, Specification for Aluminum Alloy 6201-T81 Wire for Electrical Purposes  
 B399, Specification for Concentric-Lay-Stranded Aluminum Alloy 6201-T81 Conductors

### Physical Properties

CODE WORD	CONDUCTOR SIZE		Conductor Diameter Strands, Inches)	ACSR With (Inches)	Rated Strength Equal Diameter		Weight (Lbs.)	(Lbs./1000 Ft.)
	Square KCMIL	Stranding (# & Dia. of Inches						
AKRON	30.58	0.0240	7 x 0.0661	0.198	6	6/1	1,110	28.5
ALTON	48.69	0.0382	7 x 0.0834	0.250	4	6/1	1,760	45.4
AMES	77.47	0.0608	7 x 0.1052	0.316	2	6/1	2,800	72.2
AZUSA	123.3	0.0968	7 x 0.1327	0.398	1/0	6/1	4,460	114.9
ANAHEIM	155.4	0.1221	7 x 0.1490	0.447	2/0	6/1	5,390	144.9
AMHERST	195.7	0.1537	7 x 0.1672	0.502	3/0	6/1	6,790	182.5
ALLIANCE	246.9	0.1939	7 x 0.1878	0.563	4/0	6/1	8,560	230.2
BUTTE	312.8	0.2457	19 x 0.1283	0.642	266.8	26/7	11,000	291.6
CANTON	394.5	0.3098	19 x 0.1441	0.721	336.4	26/7	13,300	367.9
CAIRO	465.4	0.3655	19 x 0.1565	0.783	397.5	26/7	15,600	433.9
DARIEN	559.5	0.4394	19 x 0.1716	0.858	477	26/7	18,800	521.7
ELGIN	652.4	0.5124	19 x 0.1853	0.927	556.5	26/7	21,900	608.3
FLINT	740.8	0.5818	37 x 0.1415	0.991	636	26/7	24,400	690.8
GREELEY	927.2	0.7282	37 x 0.1583	1.108	795	26/7	30,500	864.6

### Electrical Properties

	Conductor Size (KCMIL)	Stranding (# & Dia. of Strands, Inches)	Nearest AAC Size of Approx. Equal DC Resistance	RESISTANCE				GMR Ft.	NEUTRAL 60 HZ REACTANCE ONE FOOT SPACING	
				DC-20° C Ohms/ 1000 Ft.	AC-60 HZ				Inductive Ohms/ 1000 Ft.	Capacitive Megohms- 1000 Ft.
					25° C Ohms/ 1000 Ft.	50° C Ohms/ 1000 Ft.	75° C Ohms/ 1000 Ft.			
AKRON	30.58	7 x 0.0661	6	0.6589	0.670	0.727	0.784	0.00599	0.118	0.751
ALTON	48.69	7 x 0.0834	4	0.4138	0.420	0.456	0.492	0.00756	0.112	0.715
AMES	77.47	7 x 0.1052	2	0.2600	0.265	0.288	0.311	0.00954	0.107	0.678
AZUSA	123.3	7 x 0.1327	1/0	0.1635	0.166	0.180	0.195	0.0120	0.102	0.642
ANAHEIM	155.4	7 x 0.1490	2/0	0.1297	0.132	0.143	0.155	0.0135	0.0989	0.624
AMHERST	195.7	7 x 0.1672	3/0	0.1030	0.105	0.114	0.123	0.0152	0.0963	0.606
ALLIANCE	246.9	7 x 0.1878	4/0	0.0816	0.0831	0.0902	0.0973	0.0170	0.0936	0.588
BUTTE	312.8	19 x 0.1283	266.8	0.0644	0.0657	0.0712	0.0769	0.0202	0.0896	0.567
CANTON	394.5	19 x 0.1441	336.4	0.0511	0.0523	0.0566	0.0610	0.0227	0.0870	0.549
CAIRO	465.4	19 x 0.1565	397.5	0.0433	0.0443	0.0481	0.0517	0.0247	0.0851	0.536
DARIEN	559.5	19 x 0.1716	477.0	0.0360	0.0369	0.0400	0.0420	0.0271	0.0829	0.522
ELGIN	652.4	19 x 0.1853	556.5	0.0309	0.0318	0.0345	0.0371	0.0292	0.0812	0.510
FLINT	740.8	37 x 0.1415	636.0	0.0272	0.0280	0.0305	0.0328	0.0317	0.0793	0.499
GREELEY	927.2	37 x 0.1583	795.0	0.0217	0.0225	0.0244	0.0263	0.0354	0.0768	0.482

DC resistance is based on 19.755 ohm-cmil/ft. at 20° C (68° F), 52.5% IACS, with standard stranding increment of 2 percent.



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