



6201 Aluminum
Alloy Wires

Detail Description or Construction

Conductor

This bare concentric-lay-stranded conductor, made from round aluminum alloy 6201-T81 wires, is constructed with a central core surrounded by one or more layers of helically laid wires.

Application

On aerial circuit that require a larger mechanical resistance than AAC, and a better corrosion resistance than the one produced by the ACSR.

Standards / Testing Specifications

- ASTM specifications: B-398, B-399.

Installation

AAAC cable can be installed in air. It is recommended that the installation instructions indicated by the Local Electric Code, or any equivalent, be followed, so that the safeguarding of persons and the integrity of the product will not be affected by deficiencies in the installation.

Standard Packaging

As provided by NEMA WC 26 and the Aluminum Association.



AAAC

All Aluminum Alloy Conductor

Code of 6201 Cable	Size of 6201 Cable MCM	Section	ACSR Cable, same Diameter			N° of Strands	Diameter of Strands	Total Diameter	Total Weight	Rated Strength	Maximum Resistance @ 20°C
			Size Stranding								
			in ²	AWG or MCM	Al		Steel	in	in	lb/1000ft	lbs
Akron	30.58	0.0240	6	6	1	7	0.0661	0.198	28.5	1,109	0.659
Alton	48.69	0.0383	4	6	1	7	0.0835	0.250	45.4	1,766	0.414
Ames	77.47	0.0609	2	6	1	7	0.105	0.316	72.2	2,800	0.260
Azusa	123.3	0.0969	1/0	6	1	7	0.133	0.398	114.9	4,460	0.163
Anaheim	155.4	0.122	2/0	6	1	7	0.149	0.447	144.9	5,406	0.130
Amherst	195.7	0.154	3/0	6	1	7	0.167	0.502	182.5	6,797	0.103
Alliance	246.9	0.194	4/0	6	1	7	0.188	0.563	230.2	8,563	0.0810
Butte	312.8	0.246	266.8	26	7	19	0.128	0.642	291.7	10,974	0.0644
Canton	394.5	0.310	336.4	26	7	19	0.144	0.720	367.9	13,256	0.0511
Cairo	465.4	0.365	397.5	26	7	19	0.157	0.783	433.9	15,648	0.0433
Darien	559.5	0.439	477	26	7	19	0.172	0.858	521.7	18,794	0.0360
Elgin	652.4	0.512	556.5	26	7	19	0.185	0.926	608.3	21,920	0.0309
Flint	740.8	0.582	636	26	7	37	0.141	0.991	690.9	21,920	0.0272
Greeley	927.2	0.728	795	26	7	37	0.158	1.108	864.9	24,281	0.0217



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Code of 6201 Cable	Size of 6201 Cable	Section	ACSR Cable, same Diameter		No. of Strands x Diameter	Total Diameter	Total Weight	Rated Strength	Maximum Resistance @ 20°C
			Size Stranding						
			MCM	mm ²					
Akron	30.58	15.5	6	6/1	7x1.68	5.04	42.44	503	2.161
Alton	48.69	24.7	4	6/1	7x2.12	6.36	67.56	801	1.357
Ames	77.47	39.3	2	6/1	7x2.67	8.02	107.5	1,270	0.853
Azusa	123.3	62.5	1/0	6/1	7x3.37	10.11	171	2,023	0.536
Anaheim	155.4	78.7	2/0	6/1	7x3.78	11.35	215.6	2,452	0.425
Amherst	195.7	99.2	3/0	6/1	7x4.25	12.74	271.5	3,083	0.337
Alliance	246.9	125.1	4/0	6/1	7x4.77	14.31	342.6	3,884	0.265
Butte	312.8	158,5	266.8	26/7	19x3.26	16.3	434.9	4,978	0.211
Canton	394.5	199,9	336.4	26/7	19x3.66	18.3	547.4	6,013	0.167
Cairo	465.4	235,8	397.5	26/7	19x3.98	19.88	645.7	7,098	0.142
Darien	559.5	283,5	477	26/7	19x4.36	21.79	776.3	8,525	0.118
Elgin	652.4	330,6	556.5	26/7	19x4.71	23.53	905.2	9,943	0.101
Flint	740.8	375,4	636	26/7	37x3.59	25.16	1,028	9,943	0.0892
Greeley	927.2	469,8	795	26/7	37x4.02	28.15	1,287	11,014	0.0713



AAAC

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Size	Alloy Area	Number of Strands	Diameter	Overall Diameter of Conductor	Lineal Weight	Rated Strength	Maximum Resistance @ 20°C
mm ²	mm ²		mm	mm	kg / km	kg	Ω / km
16	16.07	7	1.71	5.13	44.1	519	2.094
25	24.95	7	2.13	6.39	68.5	805	1.340
35	34.91	7	2.52	7.56	95.8	1,127	0.957
50	50.14	7	3.02	9.06	140.3	1,620	0.670
50	49.97	19	1.83	9.15	137.1	1,563	0.670
70	70.26	19	2.17	10.5	192.7	2,198	0.478
95	94.76	19	2.52	12.6	260	2,965	0.352
120	119.51	19	2.83	14.15	327.9	3,740	0.279
150	150.01	37	2.27	15.75	411.6	4,593	0.223
185	184.54	37	2.52	17.5	506	5,650	0.181
240	240.4	61	2.24	20.25	659.6	7,280	0.139
300	299.43	61	2.50	22.5	821.6	9,068	0.111
400	400.14	61	2.89	26.01	1,098	11,727	0.0837
500	499.83	61	3.23	29.07	1,371	14,582	0.0670
625	630.4	91	2.97	32.56	1,730	18,456	0.0532
800	802.09	91	3.35	36.85	2,200	23,180	0.0419
1000	999.71	91	3.74	41.14	2,743	28,890	0.0335