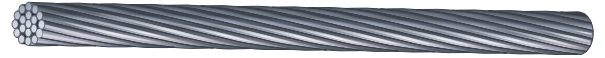


AAAC – All Aluminum Alloy 6201 Conductor



APPLICATION:

AAAC – All Aluminum Alloy Conductor is used for primary and secondary overhead transmission and distribution services. This has been designed utilizing a high-strength aluminum alloy to achieve a high strength-to-weight ratio and better sag characteristic. The conductor has a higher resistance to corrosion than ACSR.

CONDUCTORS:

- Stranded 6201-T81 high strength aluminum conductors, conforming to ASTM specifications B399 are concentric-lay-stranded, similar in construction and appearance to 1350 aluminum alloy grade aluminum conductors, and has a greater resistance to abrasion than conductors of 1350 aluminum alloy.

STANDARDS:

- ASTM B-398 Aluminum-Alloy 6201-T81 and 6201-T83 Wire for Electrical Purposes
- ASTM B-399 Concentric-Lay-Stranded Aluminum Alloy 6201-T81 Conductors
- Requirements of the National Electrical Code
- RUS accepted

Code Word	Conductor Size	No. of Strands	Equivalent ACSR		Diameter		Cross Sectional Area	Weight	Rated Breaking Strength	Resistance**		Ampacity*
			Size	Stranding	Indiv. Strand	Comp. Cable				DC @ 20°C	AC @ 75°C	
	kcmil		AWG/kcmil	AL/Steel	inches	inches	Sq. In.	lbs/kft	lbs	Ohms/kft	Ohms/kft	amps
Akron	30.58	7	6	6/1	0.0661	0.1980	0.0240	28.5	1,110	0.6588	0.7850	107
Alton	48.69	7	4	6/1	0.0834	0.2500	0.0382	45.4	1,760	0.4139	0.4930	143
Ames	77.47	7	2	6/1	0.1052	0.3160	0.0608	72.2	2,800	0.2601	0.3100	191
Azusa	123.3	7	1/0	6/1	0.1327	0.3980	0.0968	114.9	4,270	0.1635	0.1950	256
Anaheim	155.4	7	2/0	6/1	0.1490	0.4470	0.1221	144.9	5,390	0.1297	0.1540	296
Amherst	195.7	7	3/0	6/1	0.1672	0.5020	0.1537	182.5	6,790	0.1030	0.1230	342
Alliance	246.9	7	4/0	6/1	0.1878	0.5630	0.1939	230.2	8,560	0.0816	0.0973	395
Butte	312.8	19	266.8	26/7	0.1283	0.6420	0.2456	291.6	10,500	0.0644	0.0769	460
Canton	394.5	19	336.4	26/7	0.1441	0.7210	0.3098	367.9	13,300	0.0511	0.0610	532
Cairo	465.4	19	397.5	26/7	0.1565	0.7830	0.3655	433.9	15,600	0.0433	0.0518	590
Darien	559.5	19	477.0	26/7	0.1716	0.8580	0.4394	521.7	18,800	0.0360	0.0420	663
Elgin	652.4	19	556.5	26/7	0.1853	0.9270	0.5124	608.3	21,900	0.0309	0.0371	729
Flint	740.8	37	636.0	26/7	0.1414	0.9910	0.5818	690.8	24,400	0.0272	0.0327	790
Greely	927.2	37	795.0	26/7	0.1583	1.1080	0.7282	864.6	30,500	0.0217	0.0263	908

All values are nominal and subject to correction.

* Current ratings are based on 75°C conductor temperature, 25°C ambient, 2ft/s wind, in sun, .05 coefficients of emissivity and absorption.

** Resistance is calculated using ASTM standard increments of stranding and metal conductivity of 52.5% IACS, AC resistance at 60Hz.