

AAAC-6201

All Aluminum-Alloy Conductor. Bare.

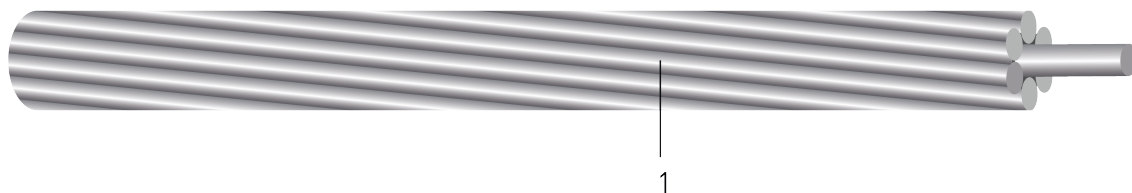


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Aluminum-alloy 6201-T81 wires, concentrically stranded.

APPLICATIONS AND FEATURES:

Used as bare overhead conductor for primary and secondary distribution. Designed utilizing a high-strength aluminum-alloy to achieve a high strength-to-weight ratio; affords good sag characteristics. Aluminum-alloy gives 6201-T81 gives AAAC higher resistance to corrosion than ACSR.

SPECIFICATIONS:

- ASTM B398 Standard Specification for Aluminum-Alloy 6201-T81 and 6201-T83 Wire for Electrical Purposes
- ASTM B400 Standard Specification for Compact Round Concentric-Lay-Stranded, Aluminum 1350 Conductors

Table 1 – Weights and Measurements

Stock Number	Code Word	Size	Stranding	Indiv. Strand Dia	Overall OD	Cross Sectional Area	Overall Weight	ACSR With Equiv. Diam.	ACSR With Equiv. Diam.	Approx. EC Cond. With Equivalent Resistance
		(AWG or kcmil)		inch	inch	Sq. inch	lbs/1,000'	Size	Stranding (AL/STL)	
	Akron	30.58	7	0.0661	0.198	0.024	28.5	6	6/1	6
102004	Alton	48.69	7	0.0834	0.25	0.0382	45.4	4	6/1	4
102012	Ames	77.47	7	0.1052	0.316	0.0608	72.2	2	6/1	2
102020	Azusa	123.3	7	0.1327	0.398	0.0968	115	1/0	6/1	1/0
102038	Anaheim	155.4	7	0.149	0.447	0.1221	144.9	2/0	6/1	2/0
102046	Amherst	195.7	7	0.1672	0.502	0.1537	182.5	3/0	6/1	3/0
102053	Alliance	246.9	7	0.1878	0.563	0.1939	230.2	4/0	6/1	4/0
168468	Butte	312.8	19	0.1283	0.642	0.2456	291.7	266.8	26/7	266.8
102061	Canton	394.5	19	0.1441	0.721	0.3099	367.9	363.4	26/7	336.4
102079	Cairo	465.4	19	0.1565	0.783	0.3655	434	397.5	26/7	397.5
102087	Darien	559.5	19	0.1716	0.858	0.4394	521.7	477	26/7	477
102095	Elgin	652.4	19	0.1853	0.927	0.5124	608.4	556.5	26/7	556.5
	Flint	740.8	37	0.1415	0.991	0.5818	690.8	636	26/7	636
	Greeley	927.2	37	0.1583	1.108	0.7282	864.6	795	26/7	795



Table 2 - Electrical and Engineering Data

Stock Number	Code Word	Size	Rated Strength	DC Resistance @ 20C	AC Resistance @ 75C	Allowable Ampacity+	ACSR With Equiv. Diam.	ACSR With Equiv. Diam.	Approx. EC Cond. With Equivalent Resistance
		(AWG or kcmil)	lbs	Ohms/1,000'	Ohms/1,000'	Amps	Size	Stranding (AL/STL)	
	Akron	30.58	1110	0.659	0.785	107	6	6/1	6
102004	Alton	48.69	1760	0.414	0.493	143	4	6/1	4
102012	Ames	77.47	2800	0.26	0.31	191	2	6/1	2
102020	Azusa	123.3	4280	0.163	0.195	256	1/0	6/1	1/0
102038	Anaheim	155.4	5390	0.13	0.154	296	2/0	6/1	2/0
102046	Amherst	195.7	6790	0.103	0.123	342	3/0	6/1	3/0
102053	Alliance	246.9	8560	0.0816	0.0973	395	4/0	6/1	4/0
168468	Butte	312.8	10500	0.0644	0.0769	460	266.8	26/7	266.8
102061	Canton	394.5	13300	0.0511	0.061	532	3636.4	26/7	336.4
102079	Cairo	465.4	15600	0.0433	0.0518	590	397.5	26/7	397.5
102087	Darien	559.5	18800	0.036	0.0431	663	477	26/7	477
102095	Elgin	652.4	21900	0.0309	0.0371	729	556.5	26/7	556.5
	Flint	740.8	24400	0.0272	0.0327	790	636	26/7	636
	Greeley	927.2	30500	0.0217	0.0263	908	795	26/7	795

+Ampacity based on 75°C conductor temperature, 25°C ambient temperature, 2 ft/sec. wind in sun, emissivity 0.5, 52.5% conductivity.

