

— APPLICATION

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 better sag characteristics. Aluminum alloy gives AAAC higher resistance to corrosion than ACSR.

— PRODUCT FEATURES

- Standard 6201-T81 high strength aluminum conductors, conforming to ASTM Specification B-399, are concentric-lay-stranded, similar in construction and appearance to 1350 grade aluminum conductors.
- Standard 6201 alloy conductors are similar to other alloy conductors commercially known as Ardival, Aldrey or Almelec.
- They were developed to fill the need for an economical conductor for overhead applications requiring higher strength that that obtainable by 1350 grade aluminum conductors, but without a steel core.

- The DC resistance at 20°C of the 6201-T81 conductors and the standard ACSRs of the same diameter are approximately the same.
- Conductors of the 6201-T81 allows are harder and, therefore, have greater resistance to abrasion than conductors of 1350-H19 grade aluminum.

— STANDARDS

AAAC bare conductor meets or exceeds the following ASTM specifications:

- B-398 Aluminum Alloy 6201-T81 Wire for Electrical Purposes
- B-399 Concentric-Lay-Stranded 6201-T81 Aluminum Alloy Conductors

— AAAC - ALUMINUM ALLOY CONDUCTOR

Bare Aluminum AAAC

Code Word	Size AWG/KCMIL	Strand #	ACSR Cond with Equivalent Resistance	Equivalent AL/ST Stranding	Diameter inch		Cross Sectional Area (sq. in.)	Weight lb/1000 ft	Rated Strength lb	Resistance1 Ω/1000ft		Ampacity Rating2 Amps
					Indiv. Wire	Complete Cable OD				DC @ 20°C	AC @ 75°C	
Akron	30.58	7/w	6	6/1	.0661	.198	.0240	28.7	1,110	.659	.785	107
Alton	48.69	7/w	4	6/1	.0834	.250	.0382	45.7	1,760	.414	.493	143
Ames	77.47	7/w	2	6/1	.1052	.316	.0608	72.7	2,800	.260	.310	191
Azusa	123.3	7/w	1/0	6/1	.1327	.398	.0968	115.7	4,460	.163	.195	256
Anaheim	155.4	7/w	2/0	6/1	.1490	.447	.1221	145.9	5,390	.130	.154	296
Amherst	195.7	7/w	3/0	6/1	.1672	.502	.1537	183.7	6,790	.103	.123	342
Alliance	246.9	7/w	4/0	6/1	.1878	.563	.1939	231.8	8,560	.0816	.0973	395
Butte	312.8	19/w	266.8	26/7	.1283	.642	.2456	293.6	11,000	.0644	.0769	460
Canton	394.5	19/w	336.4	26/7	.1441	.721	.3098	370.3	13,300	.0511	.0610	532
Cairo	465.4	19/w	397.5	26/7	.1565	.783	.3655	436.9	15,600	.0433	.0518	590
Darien	559.5	19/w	477.0	26/7	.1716	.858	.4394	521.7	18,800	.0360	.0420	663
Elgin	652.4	19/w	556.5	26/7	.1853	.927	.5124	612.4	21,900	.0309	.0371	729
Flint	740.8	19/w	636.0	26/7	.1415	.991	.5818	695.5	24,400	.0272	.0327	790
Greeley	927.2	19/w	795.0	26/7	.1583	1.108	.7282	870.4	30,500	.0217	.0263	908

1. Resistance is calculated based on aluminum alloy conductivity of 52.5% IACS.

2. Ampacity ratings are based on 75°C conductor temperature, 25°C ambient, 2 ft/sec wind, in sun (96 W/ft² heat), 0.5 coefficients of emissivity and absorption.

Specifications may be revised without prior notice. Contact Electro Cable to verify current availability and lead times.