KINGWIRE

(847) 688-1100

AAAC - ALLOY BARE ALUMINUM

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.

SPECIFICATIONS: 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

7 Strand | 19 Strand | 37 Strand | 61 Strand | 91 Strand

Note: All dimensions and weights are subject to industry standards and tolerance unless otherwise noted

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Code Word	Size (KCM)	Strand	ACSR Cond with Equivalent Resistance	Equivalent AL/ST Stranding	Diameter		Cross Sectional Area (sq. in.)	Weight per 1000 ft (Lbs)	Rated Strength (Lbs)	Resistance OHMS/1000 ft		Rating (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 using ASTM standard increments of stranding, and metal conductivity of 52.5% IACS AC resistance at 60 Hz.
2. Current ratings are based on 75°C conductor temperature, 25°C ambient, 2ft/s wine, 96/watts/sq. foot sun, 0.5 coefficients of emissivity and absorption.