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PRIORITY WIRE & CABLE, INC.

www.prioritywire.com

AAAC ALL ALUMINUM ALLOY (6201) CONDUCTOR

Applications: Bare overhead conductor used for primary and secondary distribution. Designed utilizing a high-strength aluminum alloy to achieve a high strength-to weight ratio; better sag characteristics. AAAC has higher resistance to corrosion than ACSR.

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 Aluminum Alloy 6201-T81 Conductors

Construction: 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. DC resistance at 20° C of the 6201-T81 alloys have a greater resistance to abrasion than conductors of 1350.

Code Word	Size (KCM)	Strand	Approx EC Cond. With Equivalent Resistance	Stranding	Diameter (in)		Cross Sectional Area (sq.in)	Weight Per 1000ft (lbs)	Rated Strength (LBS)	Resistance Ohms/ 1000ft		Rating (AMPS)
					Indiv. Wire OD	Comp. Cable				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	1 9/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	521.2	18,800	.0360	.0420	663
Elqin	652.4	19/w	556.5	26/7	.1853	.927	.5124	612.4	21,900	.0309	.0371	729
Flint	740.8	37lw	636.0	26/7	.1415	.991	.5818	695.5	24,400	.0272	.0327	790
Greenly	927.2	37lw	795.0	26/7	.1583	1.108	.7282	870.4	30,500	.0217	.0263	908

H 19 grade aluminum.

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 watt/sq/foot sun, .05 coefficients of emissivity and absorption .

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