Charlotte™ Wire & Cable Company Inc.

"Taking Care of Business"

toll free: 800-929-9473

AAAC - ALL ALUMINUM ALLOY 6201 CONDUCTOR

CONSTRUCTION:

CONDUCTOR ALUMINUM ALLOY 6201 WIRES, CONCENTRICALLY STRANDED.

Code Word	Size MCM	Number Of Strands	Approx. ACSR Conductor With Equivalent Resistance	Diameter in inches		Cross Sectional Area Sq In (in^2)	Rated Strength (lbs)	Resistance Ohms/1000Feet*		Current Rating (Amps)**	Net Weight (lbs/mft)
				Each Strand	Complete Cable			DC at 20Deg C	AC at 75Deg C		
Akron	30.58	7	6	.0661"	.199"	.0240	1,110	.659	.785	107	29
Alton	48.69	7	4	.0834"	.250"	.0382	1,760	.414	.493	143	45
Ames	77.47	7	2	.1052"	.316"	.0608	2,800	.260	.310	191	72
Azusa	123.3	7	1/0	.1327"	.398"	.0968	4,460	.163	.195	256	115
Anaheim	155.4	7	2/0	.1490"	.447"	.1221	5,390	.130	.154	296	145
Amherst	195.7	7	3/0	.1672"	.502"	.1537	6,790	.103	.123	342	183
Alliance	246.9	7	4/0	.1878"	.563"	.1939	8,560	.0816	.0973	395	230
Butte	312.8	19	266.8MCM	.1283"	.642"	.2456	11,000	.0644	.0769	460	292
Canton	394.5	19	336.4MCM	.1441"	.721"	.3098	13,300	.0511	.0610	532	368
Cairo	465.4	19	397.5MCM	.1565"	.783"	.3655	15,600	.0433	.0518	590	434
Darien	559.5	19	477.0MCM	.1716"	.858"	.4394	18,800	.0360	.0431	663	522
Elgin	652.4	19	556.5MCM	.1853"	.927"	.5124	21,900	.0309	.0371	729	608
Flint	740.8	37	636.0MCM	.1415"	.991"	.5818	24,400	.0272	.0327	790	691
Greely	927.2	37	795.0MCM	.1583"	1.108"	.7282	30,500	.0217	.0263	908	865

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

**Ampacity based on 75Deg C Conductor Temperature, 25Deg C Ambient Temperature, 2 ft/sec. wind in sun, emissivity 0.5, 52.5% conductivity.

Application: For use as a bare overhead conductor for primary and secondary distribution of electrical power. The high strength 6201 Aluminum alloy, which has a higher strength to weight ratio, provides for better sag characteristics, while also having higher corrosion resistance than ACSR.

Standards:

ASTM B-398: Aluminum Alloy 6201T81 Wire for Electrical Purposes.

ASTM B-399: Concentric Lay Stranded 6201-T81 Aluminum Alloy Conductors.