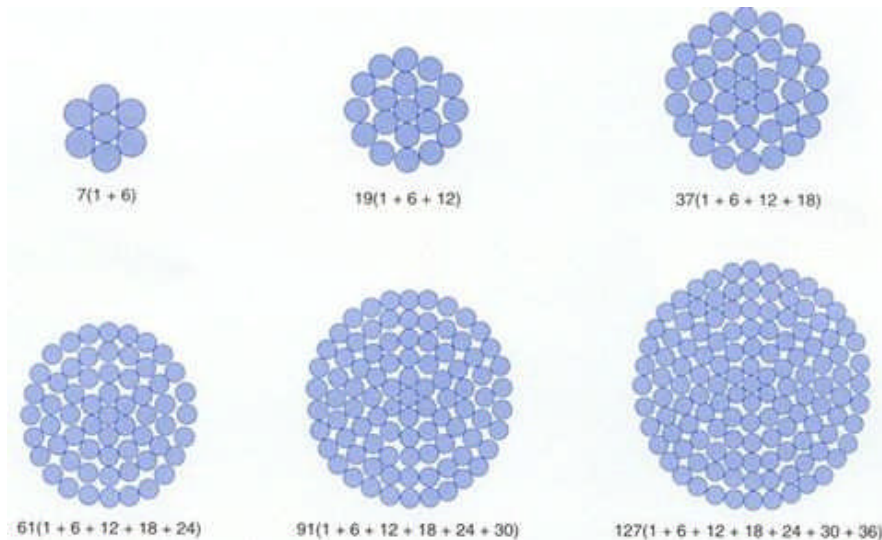




# Bare Overhead Conductors All Aluminum Alloy Conductor AAAC



## **APPLICATIONS**

Used as bare overhead conductor for primary and secondary distribution.

## **SPECIFICATIONS**

AAAC, All Aluminum Conductor, meets or exceeds all applicable requirements of the following standards:

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

## **CONSTRUCTION**

Conductor: Aluminum alloy 6201 wires, concentric lay stranded.

## **FEATURES & BENEFITS, OPTIONS**

- Designed utilizing a high-strength aluminum alloy to achieve a high strength-to-weight ratio; affords better sag characteristics.
- Aluminum alloy AAAC-6201 offers higher resistance to corrosion than ACSR.
- Aluminum alloy (AAAC) contains a small percentage of silicon and magnesium elements. It provides several benefits for overhead lines.

### **Phoenix Wire and Cable Corp.**

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# Bare Overhead Conductors All Aluminum Alloy Conductor AAAC

Code Word	Size (AWG / cmil)	Stranding		Diameter (in)		Cross-Sectional Area (Sq.In)	Net Weight (Lbs/ 1000 ft)	Rated Strength (Lbs)	Resistance (Ohms/1000FT)		Allowable Ampacity (Amps)
		Number Wires	Class	Individual Wires	Complete Cable				DC @20°C	AC @75°C	
AKRON	30,580	7	A	0.0661	0.198	0.0240	28.5	1110	0.6590	0.7850	107
ALTON	48,690	7	A	0.0834	0.250	0.0382	45.4	1760	0.4140	0.4930	143
AMES	77,470	7	A,AA	0.1052	0.316	0.0608	72.2	2800	0.2600	0.3100	191
AZUSA	123,300	7	A,AA	0.1327	0.398	0.0968	115.0	4460	0.1630	0.1950	256
ANAHEIM	155,400	7	A,AA	0.1490	0.447	0.1221	144.9	5390	0.1300	0.1540	296
AMHERST	195,700	7	A,AA	0.1672	0.502	0.1537	182.5	6790	0.1030	0.1230	342
ALLIANCE	246,900	7	AA	0.1878	0.563	0.1939	230.2	8560	0.0816	0.0973	395
BUTTE	312,800	19	A	0.1283	0.642	0.2456	291.7	11000	0.0644	0.0769	460
CANTON	394,500	19	A,AA	0.1441	0.720	0.3099	367.9	13300	0.0511	0.0610	532
CAIRO	465,400	19	AA	0.1565	0.783	0.3655	434.0	15600	0.0433	0.0518	590
DARIEN	559,500	19	AA	0.1716	0.858	0.4394	521.7	18800	0.0360	0.0431	663
ELGIN	652,400	19	AA	0.1853	0.927	0.5124	608.4	21900	0.0309	0.0371	729
FLINT	740,800	37	AA	0.1415	0.990	0.5818	690.8	24400	0.0272	0.0327	790
GREELEY	927,200	37	AA	0.1583	1.108	0.7282	864.6	30500	0.0217	0.0263	908

\*Based on conductor temperature of 75°C; ambient temperature of 25°C; 2 ft/sec wind, in sun.

### Notes:

- Conductors shown in this section of data are classified as follows:
  - Class AA For bare conductors usually used in overhead lines.
  - Class A For conductors to be covered with weather-resistant material and for bare conductors where greater flexibility is required.
- Cable can be manufactured to various international standards.