



AAAC All Aluminum Alloy Conductor

CABLE STRUCTURE:

Conductor:

All aluminium alloy

CODE DESIGNATION:

AAAC

STANDARD:

ASTM B399 EN 51082 IEC 61089

APPLICATION:

AAAC is made by twisting alloy wires of high-purity aluminum and silicon. Due to its advantages of good conductivity and strong corrosion resistance, it is widely used in power transmission, distribution and municipal engineering.

CERTIFICATES:

We hold SAA, CE, TUV and CCC certifications for our product categories. Additionally, we possess other authoritative certifications recognized in various countries and regions. For further details on our certification portfolio, please do not hesitate to contact us.





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Specifications

ASTM B399

Code Name	Conductor Size	Stranding	Sectional Area	Diameter of Conductor	Linear Mass	Rated Strength	Max.D.C. Resistance at 20°C Q/km
	AWG(MCM)	No./mm	mm ²	mm	kg/km	daN	
Alton	4	7/1.96	21.14	5.89	57.89	685	1.5860
	48.69(4)	7/2.12	24.67	6.35	67.56	799	1.3557
Ames	2	7/2.47	33.65	7.42	92.14	1091	0.9987
	77.47(2)	7/2.67	39.26	8.02	107.50	1275	0.8547
Azusa	1/00	7/3.12	53.49	9.35	146.50	1733	0.6259
	123.3(1/0)	7/3.37	62.46	10.11	171.00	2019	0.5365
Anaheim	2/00	7/3.50	67.45	10.52	184.70	2090	0.4974
	155.4(2/0)	7/3.78	78.75	11.35	215.16	2447	0.4264
Amherst	3/00	7/3.93	85.00	11.79	232.70	2641	0.3945
	195.7(3/0)	7/4.25	99.20	12.75	271.50	3079	0.3373
Alliance	4/00	7/4.42	107.20	13.26	293.70	3334	0.3119
	246.9(4/0)	7/4.77	125.10	14.30	342.60	3885	0.2678
Butte	250	19/2.91	126.70	14.58	346.90	3977	0.2651
	300	19/3.19	152.10	15.89	418.60	4772	0.2206
Canton	312.8	19/3.26	158.50	16.31	434.00	4976	0.2112
	350.5	19/3.45	177.30	17.25	485.50	5333	0.1886
Cairo	394.5	19/3.66	199.00	18.31	547.40	6016	0.1676
	400	19/3.69	202.70	18.44	555.10	6098	0.1649
Darien	450	19/3.91	228.00	19.56	624.40	6862	0.1468
	465.4	19/3.98	235.80	19.89	645.70	7097	0.1431
Elgin	500	19/4.12	253.40	20.60	693.60	7617	0.1322
	550	37/3.10	278.70	21.67	762.90	8555	0.1200
Flint	559.5	19/4.36	283.50	21.79	776.30	8525	0.1181
	600	37/3.23	304.00	22.63	832.00	9330	0.1105
Greeley	650	37/3.37	329.40	23.57	909.80	10105	0.1015
	652.4	19/4.71	330.60	23.55	970.60	9942	0.1012
Greeley	700	37/3.49	354.50	24.46	910.60	10401	0.09464
	740.8	37/3.59	375.40	25.15	1028	11013	0.08944
Greeley	750	37/3.62	380.20	25.32	1041	11216	0.08796
	800	37/3.73	405.40	26.14	1109	11930	0.08285
Greeley	900	37/3.96	456.30	27.74	1249	13460	0.07351
	927.2	37/4.02	469.80	28.14	1287	13868	0.07133
Greeley	1000	37/4.18	506.70	29.24	1388	14887	0.06597
	1077.4	61/3.38	483.40	30.42	1496	15907	0.06120
Greeley	1165.1	61/3.51	523.70	31.59	1617	17233	0.05675
	1250	61/3.63	633.30	32.67	1733	18354	0.05306
Greeley	1259.6	61/3.65	564.00	32.85	1748	18558	0.05248
	1348.8	61/3.78	604.20	34.02	1872	19884	0.04893
Greeley	1438.2	61/3.90	644.50	35.10	1997	21209	0.04597
	1500	61/3.98	760.00	35.82	2081	22127	0.04414
Greeley	1750	61/4.30	886.70	38.70	2429	25798	0.03781



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Code Name	Area mm ²	No.of wires	EN 51082		Mass per unit length kg/km	Rated Strength kN	DC Resistance Ω/km
			Wire Diameter mm	Cond. mm			
Box	18.8	7	1.85	5.55	51.4	5.55	1.7480
Acacia	23.8	7	2.08	6.24	64.9	7.02	1.3828
Almond	30.1	7	2.34	7.02	82.2	8.88	1.0926
Cedar	35.5	7	2.54	7.62	96.8	10.46	0.9273
Deodar	42.2	7	2.77	8.31	115.2	12.44	0.7797
Fir	47.8	7	2.95	8.85	130.6	14.11	0.6875
Hazel	59.9	7	3.3	9.90	163.4	17.66	0.5494
Pine	71.6	7	3.61	10.8	195.6	21.14	0.4591
Holly	84.1	7	3.91	11.7	229.5	24.79	0.3913
Willow	89.7	7	4.04	12.1	245.0	26.47	0.3665
Oak	118.9	7	4.65	14.0	324.5	35.07	0.2767
Mulberry	150.9	19	3.18	15.9	414.3	44.52	0.2192
Ash	180.7	19	3.48	17.4	496.1	53.31	0.1830
Elm	211.0	19	3.76	18.8	579.2	62.24	0.1568
Poplar	239.4	37	2.87	20.1	659.4	70.61	0.1387
Sycamore	303.2	37	3.23	22.6	835.2	89.40	0.1095
Upas	362.1	37	3.53	24.7	997.5	106.82	0.0917
Yew	479.0	37	4.06	28.4	1319.6	141.31	0.0693
Totara	498.1	37	4.14	29.0	1372.1	146.93	0.0666
Rubus	586.9	61	3.5	31.5	1622	173.13	0.5670
Sorbus	659.4	61	3.71	33.4	1822.5	194.53	0.0505
Araucaria	821.1	61	4.14	37.3	2269.4	242.24	0.0406
Redwood	996.2	61	4.56	41.0	2753.2	293.88	0.0334



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IEC 61089							
Code Number	Area	No.of wires	Diameter		Linear Mass	Rated Strength	Max.D.C. Resistance at 20
			Wire	Cond.			
	mm²	mm	mm	kg/km	kN	Ω/km	
16	18.4	7	1.83	5.49	50.4	5.43	1.7896
25	28.8	7	2.29	6.87	78.7	8.49	1.1453
40	46.0	7	2.89	8.67	125.9	13.58	0.7158
63	72.5	7	3.63	10.80	198.3	21.39	0.4545
100	115	19	2.78	13.90	316.3	33.95	0.2877
125	144	19	3.10	15.50	395.4	42.44	0.2302
160	184	19	3.51	17.55	506.1	54.32	0.1798
200	230	19	3.93	19.65	632.7	67.91	0.1439
250	288	19	4.39	21.95	790.8	84.68	0.1151
315	363	37	3.53	24.71	998.9	106.95	0.0916
400	460	37	3.98	27.86	1268.4	135.81	0.0721
450	518	37	4.22	29.54	1426.9	152.79	0.0641
500	575	37	4.45	31.15	1585.5	169.76	0.0577
560	645	61	3.67	33.03	1778.4	190.14	0.0516
630	725	61	3.89	35.01	2000.7	213.9	0.0458
710	817	61	4.13	37.17	2254.8	241.07	0.0407
800	921	61	4.38	39.42	2540.6	271.62	0.0361
900	1036	91	3.81	41.91	2861.1	305.58	0.0632
1000	1151	91	4.01	44.11	3179	339.53	0.0289
1120	1289	91	4.25	46.75	3560.5	380.27	0.0258
1250	1439	91	4.49	49.39	3973.7	424.41	0.0231