

German Standards AAAC Conductor



APPLICATION

AAAC is used as a bare overhead conductor for power transmission and distribution lines, on aerial circuits that require a larger mechanical resistance than AAC, and a better corrosion resistance than ACSR. The sag characteristics and the strength-to-weight ratio of AAAC is better than both AAC / ACSR.

STANDARDS

German Standards DIN 48201 Part 6(1981)

CONSTRUCTION

Conductor

Aluminium alloy conductor

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

SUSTAINABILITY COMMITMENT

Guowang Cable actively implements the "carbon reduction" goal, strives to promote the green's low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company's healthy and sustainable development.

German Standards DIN 48201 Part 6(1981)

New Code	Old Code	Stranding&Wire Diameter	Overall Diameter	Sectional Area	Approximate Weight	Breaking Load	DC Resistance	Current Rating Capacity
		mm	mm	mm²	kg/km	kN	ohm/km	A
16-AL3	16	7/1.70	5.1	15.9	43.4	4.69	2.0701	105
24-AL3	25	7/2.10	6.3	24.2	66.2	7.15	1.3566	135
34-AL3	35	7/2.50	7.5	34.4	93.8	10.14	0.9572	170
49-AL3	50	7/3.00	9.0	49.5	135.1	14.60	0.6647	210
48-AL3	50	19/1.80	9.0	48.3	132.7	14.26	0.6841	210
66-AL3	70	18/2.10	10.5	65.8	180.7	19.41	0.5026	255
93-AL3	95	19/2.50	12.5	93.3	256.0	27.51	0.3546	320
117-AL3	120	19/2.80	14.0	117.0	321.2	34.51	0.2827	365
147-AL3	150	37/2.25	15.8	147.1	405.3	43.40	0.2256	425
182-AL3	185	37/2.50	17.5	181.6	500.3	53.58	0.1827	490
243-AL3	240	61/2.25	20.3	242.5	670.3	71.55	0.1373	585
299-AL3	300	61/2.50	22.5	299.4	827.5	88.33	0.1112	670
400-AL3	400	61/2.89	26.0	400.1	1105.9	118.04	0.0832	810
500-AL3	500	61/3.23	29.1	499.8	1381.4	147.45	0.0666	930
626-AL3	625	91/2.69	32.6	626.2	1737.7	184.73	0.0534	1075
802-AL3	800	91/3.35	36.9	802.1	2225.8	236.62	0.0417	1255
1000-AL3	1000	91/3.74	41.1	999.7	2774.3	294.91	0.0334	1450

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French Standards AAAC Conductor



APPLICATION

AAAC is used as a bare overhead conductor for power transmission and distribution lines, on aerial circuits that require a larger mechanical resistance than AAC, and a better corrosion resistance than ACSR. The sag characteristics and the strength-to-weight ratio of AAAC is better than both AAC / ACSR.

STANDARDS

French Standards NFC 34-125

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SUSTAINABILITY COMMITMENT

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French Standards NFC 34 -125

New Code	Old Code	Stranding&Wire Diameter	Overall Diameter	Sectional Area	Approximate Weight	Breaking Load	DC Resistance
		mm	mm	mm ²	kg/km	kN	ohm/km
22-AL4	ASTER 22	7/2.00	6.0	22.0	60.0	7.15	1.4989
34-AL4	ASTER34.4	7/2.50	7.5	34.4	93.8	11.17	0.9593
55-AL4	ASTER 54.6	7/3.15	9.45	54.6	148.9	17.73	0.6042
76-AL4	ASTER 75.5	19/2.25	11.3	75.5	207.4	24.55	0.4388
117-AL4	ASTER117	19/2.80	14.0	117.0	321.2	38.02	0.2833
148-AL4	ASTER148	19/3.15	15.8	148.1	406.5	48.12	0.2239
182-AL4	ASTER 181.6	37/2.50	17.5	181.6	500.3	59.03	0.1831
228-AL4	ASTER 228	37/2.80	19.6	227.8	627.6	74.04	0.1460
288-AL4	ASTER 288	37/3.15	22.1	288.3	794.3	93.71	0.1154
366-AL4	ASTER 366	37/3.55	24.9	366.2	1008.9	115.36	0.0908
570-AL4	ASTER 570	61/3.45	31.1	570.2	1576.0	185.33	0.0585
851-AL4	ASTER 851	91/3.45	38.0	850.7	2360.7	276.47	0.0394
1144-AL4	ASTER1144	91/4.00	44.0	1143.5	3173.4	360.22	0.0293

French Standards NFC 34 -125

Code Word	Stranding&Wire Diameter	Overall Diameter	Sectional Area	Approximate Weight	Breaking Load	DC Resistance
	mm	mm	mm ²	kg/km	kN	ohm/km
16	7/2.56	7.69	36.2	216.4	39.04	1.7896
25	7/3.21	9.62	56.5	338.2	61.00	1.1454
40	7/4.05	12.2	90	541.4	97.61	0.715
40	19/2.46	12.3	90.4	543.7	97.61	0.7193
63	19/3.09	15.4	142	856.4	153.73	0.4567
100	37/2.79	19.5	226	1362.6	244.02	0.2884
125	37/3.12	21.8	282	1703.2	305.02	0.2307
160	37/3.53	24.7	362	2180.1	390.43	0.1803
200	37/3.94	27.6	452	2725.1	488.03	0.1442
200	61/3.07	27.6	452	2729.1	488.03	0.1444

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Canadian Standards AAAC Conductor



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STANDARDS

Canadian Standards CSA C49.1, CAN/CSA C61089

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Canadian Standards CSA C49.1,CAN/CSA C61089

New Code	Stranding&Wire Diameter	Overall Diameter	Sectional Area	Approximate Weight	Breaking Load	DC Resistance	Current Rating Capacity
Code Word	Stranding&Wire Diameter	Overall Diameter	Sectional Area	Approximate Weight	Breaking Load	DC Resistance	Current Rating Capacity
	mm	mm	mm ²	kg/km	kN	ohm/km	A
Akron	7/1.68	5.03	15.5	42.41	4.94	2.1707	107
Alton	7/2.12	6.35	24.6	67.56	7.83	1.3637	143
Ames	7/2.67	8.03	39.2	107.45	12.46	0.8564	191
Azusa	7/3.37	10.11	62.4	171.14	19.85	0.5369	256
Anaheim	7/3.78	11.35	78.8	215.63	23.98	0.4282	296
Amherst	7/4.25	12.75	99.2	271.59	30.21	0.3393	342
Alliance	7/4.77	14.30	125.1	342.58	38.09	0.2688	395
Butte	19/3.26	16.31	158.4	434.10	48.95	0.2121	460
Canton	19/3.66	18.29	199.9	574.50	59.18	0.1683	532
Cairo	19/3.98	19.89	235.8	645.86	69.42	0.1426	590
Darien	19/4.36	21.79	283.5	776.83	83.66	0.1186	663
Elgin	19/4.71	23.55	330.6	905.40	97.45	0.1018	729
Flint	37/3.59	25.15	375.4	1028.02	108.58	0.0896	790
Greeley	37/4.02	28.14	469.8	1286.67	135.72	0.0175	908

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American Standards AAAC Conductor



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STANDARDS

American Standards ASTM B399-97

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American Standards ASTMB399 -97

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British Standards AAAC Conductor



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STANDARDS

British Standards BS EN 50182:2001(Old Standard BS 3242-1970)

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British Standards BS EN 50182:2001(Old Standard BS 3242 -1970)

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		mm	mm	mm ²	kg/km	kN	ohm/km	A
19-AL3	BOX	7/1.85	5.55	18.8	51.4	5.55	1.7480	96
24-AL3	Acacia	7/2.08	6.24	23.9	64.9	7.02	1.3828	110
30-AL3	Almond	7/2.34	7.02	30.1	82.2	8.88	1.0926	128
35-AL3	Cedar	7/2.54	7.62	35.5	96.8	10.46	0.9273	132
42-AL3	Deodar	7/2.77	8.31	42.2	115.2	12.44	0.7797	148
48-AL3	Fir	7/2.95	8.85	47.8	130.6	14.11	0.6875	161
60-AL3	Hazel	7/3.30	9.90	59.9	163.4	17.66	0.5494	184
72-AL3	Pine	7/3.61	10.80	71.6	195.6	21.14	0.4591	204
84-AL3	Holly	7/3.91	11.70	84.1	229.5	24.79	0.3913	222
90-AL3	Willow	7/4.04	12.10	89.7	245.0	26.47	0.3665	233
119-AL3	Oak	7/4.65	13.95	118.9	324.5	35.07	0.2767	272
151-AL3	Mulberry	19/3.18	15.90	150.9	414.3	44.52	0.2192	319
181-AL3	Ash	19/3.48	17.40	180.7	496.1	53.31	0.1830	354
211-AL3	Elm	19/3.76	18.80	211.0	579.2	62.24	0.1568	385
239-AL3	Poplar	37/2.87	20.10	239.4	659.4	70.61	0.138	414
303-AL3	Sycamor	37/23.23	22.60	303.2	835.2	89.40	0.1095	487
362-AL3	Upas	37/3.53	24.70	362.1	997.5	106.82	0.0917	527
479-AL3	Yew	37/4.06	28.40	479.0	1319.6	141.31	0.0693	629
498-AL3	Totara	37/4.14	29.42	498.1	1372.1	146.93	0.0666	640
587-AL3	Rubus	61/3.50	31.50	586.9	1622.0	173.13	0.0567	716
659-AL3	Sorbus	61/3.71	33.40	659.4	1822.5	194.53	0.0505	760
821-AL3	Araucaria	61/4.14	37.30	821.1	2269.5	242.24	0.0406	842
996-AL3	Redwood	61/4.56	41.00	996.2	2753.2	293.88	0.0334	920

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