



AAC All Aluminum Stranded Conductor

CABLE STRUCTURE:

Conductor:

All aluminium

CODE DESIGNATION:

AAC

STANDARD:

ASTM B231 EN 51082 IEC 61089

APPLICATION:

AAC aluminum stranded wire is usually used in low-voltage transmission lines, medium and low-voltage distribution lines, overhead lines and other occasions. AAC aluminum stranded wire is characterized by light weight, excellent conductivity and low cost, but the stress strength is relatively low, so it is only suitable for occasions with small span and no large tension.

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

Code Name	Total Area		ASTM B231		Linear Mass	Nominal Breaking Load	Max.D.C. Resistance
			Stranding and Wire	Overall Diameter			
	AWG or MCM	mm ²	mm	mm	kg/km	daN	Ω/km
Peachbell	6	13.29	7/1.554	4.67	37	249	2.1692
Rose	4	21.16	7/1.961	5.89	58	396	1.3624
Iris	2	33.61	7/2.474	7.42	93	597	0.8577
Pansy	1	42.39	7/2.776	8.33	117	732	0.6801
Poppy	1/00	53.48	7/3.119	9.36	147	873	0.5390
Aster	2/00	67.42	7/3.503	10.51	186	1100	0.4276
Phlox	3/00	85.03	7/3.932	11.8	234	1347	0.3390
Oxlip	4/00	107.23	7/4.417	13.26	296	1698	0.2688
Valerian	250	126.71	19/2.913	14.57	349	2062	0.2275
Sneezewort	250	126.71	7/4.80	14.4	349	2007	0.2275
Laurell	266.8	135.16	19/3.01	15.05	373	2200	0.2133
Daisy	266.8	135.16	7/4.96	14.9	373	2141	0.2133
Peony	300	152	19/3.193	15.97	419	2403	0.1896
Tulip	336.4	170.45	19/3.381	16.91	470	2695	0.1691
Daffodil	350	177.35	19/3.447	17.24	489	2804	0.1625
Canna	397.5	201.42	19/3.673	18.36	555	3184	0.1431
Goldentuft	450	228	19/3.909	19.55	629	3499	0.1264
Syringa	477	241.68	37/2.882	20.19	666	3849	0.1193
Cosmos	477	241.68	19/4.023	20.12	666	3708	0.1193
Hyacinth	500	253.35	37/2.951	20.65	698	4035	0.1138
Zinnia	500	253.35	19/4.21	20.6	698	3888	0.1138
Dahlia	556.5	282	19/4.346	21.73	777	4327	0.1022
Mistletoe	556.5	282	37/3.114	21.79	777	4362	0.1022
Meadowsweet	600	304	37/3.233	22.63	838	4703	0.0948
Orchid	636	322.25	37/3.33	23.31	888	4985	0.0894
Heuchera	650	329.35	37/3.366	23.56	908	5095	0.0875
Flag	700	354.71	61/2.72	24.48	978	5146	0.0813
Verbena	700	354.71	37/3.493	24.45	978	5487	0.0813
Nasturtium	715.5	362.58	61/2.75	24.76	1000	5874	0.0795
Violet	715.5	362.85	37/3.533	24.74	1000	5609	0.0795
Cattail	750	380	61/2.817	25.35	1048	5985	0.0795
Petunia	750	380	37/3.617	25.32	1048	5875	0.0795
Lilac	795	402.84	61/2.90	26.11	1111	6345	0.0715
Arbutus	795	402.84	37/3.724	26.06	1111	6232	0.0715
Snapdragon	900	456.06	61/3.086	27.78	1257	6978	0.0632
Cockscomb	900	456.06	37/3.962	27.73	1257	6848	0.0632
Goldenrod	954	483.42	61/3.177	28.6	1333	7896	0.0596
Magnolia	954	483.42	37/4.079	28.55	1333	7258	0.0596
Camellia	1000	506.71	61/3.251	29.36	1397	7753	0.0595
Hawkweed	1000	506.71	37/4.176	29.23	1397	7608	0.0596



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Specifications

Code Name	ASTM B23						
	Total Area		Stranding and Wire	Overall Diameter	Linear Mass	Nominal Breaking Load	Max.D.C. Resistance
	AWG or MCM	mm²	mm	mm	kg/km	daN	Ω/km
Larkspur	1033.5	523.68	61/3.307	29.76	1444	8012	0.0550
Bluebell	1033.5	523.68	37/4.244	29.72	1444	7863	0.0550
Marigold	1113	563.93	61/3.432	30.89	1555	8628	0.0511
Hawthorn	1192.5	604.26	61/3.551	31.05	1666	9245	0.0477
Narcissus	1272	644.51	61/3.668	33.02	1777	9861	0.0477
Columbine	1351.5	684.84	61/3.78	34.01	1888	10478	0.0421
Carnation	1431	725.1	61/3.89	35.03	1999	10768	0.0398



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Specifications

EN 51082							
Code Name	Area mm ²	No.of wires	Diameter		Mass per unit length kg/km	Rated strength kN	DC Resistance Ω/km
			Wire mm	Cond. mm			
Midge	23.3	7	2.06	6.18	63.8	4.20	1.2249
Gnat	26.9	7	2.21	6.63	73.4	4.83	1.0643
Mosquito	36.9	7	2.59	7.77	100.8	6.27	0.7749
Ladybird	42.8	7	2.79	8.37	117.0	7.28	0.6678
Ant	52.8	7	3.1	9.30	144.4	8.72	0.5409
Fly	63.6	7	3.4	10.2	173.7	10.49	0.4497
Bluebottle	73.6	7	3.66	11.0	201.3	11.78	0.3880
Earwig	78.6	7	3.78	11.3	214.7	12.57	0.3638
Grasshopper	84.1	7	3.91	11.7	229.7	13.45	0.3400
Clegg	95.6	7	4.17	12.5	261.3	15.30	0.2989
Wasp	106.0	7	4.39	13.2	289.6	16.95	0.2697
Beetle	106.4	19	2.67	13.4	292.4	18.08	0.2701
Bee	132.0	7	4.9	14.7	360.8	21.12	0.2165
Hornet	157.6	19	3.25	16.3	433.2	26.01	0.1823
Caterpillar	185.9	19	3.53	17.7	511.1	29.75	0.1546
Chafer	213.2	19	3.78	18.9	586.0	34.12	0.1348
Spider	237.6	19	3.99	20.0	652.9	38.01	0.1210
Cockroach	265.7	19	4.22	21.1	730.4	42.52	0.1081
Butterfly	322.7	19	4.65	23.3	886.8	51.63	0.0891
Moth	373.1	19	5	25.0	1025.3	59.69	0.0770
Drone	372.4	37	3.58	25.1	1027.1	59.59	0.0774
Centipede	415.2	37	3.78	26.5	1145.1	66.43	0.0695
Maybug	486.1	37	4.09	28.6	1340.6	77.78	0.0593
Scorpion	529.8	37	4.27	29.9	1461.2	84.77	0.0544
Cicada	628.3	37	4.65	32.6	1732.9	100.54	0.0459



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Code Number	Area mm ²	No.of wires	IEC61089 Diameter		Linear Mass kg/km	Rated strength kN	Max.D.C. Resistance at 20°C Ω/km
			Wire	Cond.			
			mm	mm			
10	10	7	1.35	4.05	27.4	1.95	2.8633
16	16	7	1.71	5.12	43.8	3.04	1.7896
25	25	7	2.13	6.40	68.4	4.50	1.1453
40	40	7	2.70	8.09	109.4	6.80	0.7158
63	63	7	3.39	10.2	172.3	10.39	0.4545
100	100	19	2.59	12.9	274.8	17.00	0.2877
125	125	19	2.89	14.5	343.6	21.25	0.2302
160	160	19	3.27	16.4	439.8	26.40	0.1798
200	200	19	3.66	18.3	549.7	32.00	0.1439
250	250	19	4.09	20.5	687.1	40.00	0.1151
315	315	37	3.29	23.0	867.9	51.97	0.0916
400	400	37	3.71	26.0	1102.0	64.00	0.0721
450	450	37	3.94	27.5	1239.8	72.00	0.0641
500	500	37	4.15	29.0	1377.6	80.00	0.0577
560	560	37	4.39	30.7	1542.9	89.60	0.0515
630	630	61	3.63	32.6	1738.3	100.80	0.0458
710	710	61	3.85	34.6	1959.1	113.60	0.0407
800	800	61	4.09	36.8	2207.4	128.00	0.0361
900	900	61	4.33	39.0	2483.3	144.00	0.0321
1000	1000	61	4.57	41.1	2759.2	160.00	0.0289
1120	1120	91	3.96	43.5	3093.5	179.20	0.0258
1250	1250	91	4.18	46.0	3452.6	200.00	0.0231
1400	1400	91	4.43	48.7	3866.9	224.00	0.0207
1500	1500	91	4.58	50.4	4143.1	240.00	0.0193