



Smart, Sustainable, Energy Efficient

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL2

(Used in Finland)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
178-AL2	AAAC 178	178	19	3.45	17.3	487.6	57.73	0.1880	314	389
346-AL2	AAAC 346	346	37	3.45	24.2	952.8	112.41	0.0969	460	578
638-AL2	AAAC 638	638	61	3.65	32.9	1764.0	201.06	0.0527	646	830

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL3

(Used in Spain)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
VER	D 28	27.8	7	2.25	6.75	76.0	9.05	1.1930	105	127
43-AL2	D 40	43.1	7	2.80	8.40	117.7	14.01	0.7704	136	163
55-AL2	D 56	54.6	7	3.15	9.45	148.9	17.73	0.6087	159	191
76-AL2	D 80	75.5	19	2.25	11.3	207.4	24.55	0.4420	190	232
117-AL2	D 110	117.0	19	2.80	14.0	321.2	38.02	0.2854	248	301
148-AL2	D 145	148.1	19	3.15	15.8	406.5	48.12	0.2255	284	348
188-AL2	D 180	188.1	19	3.55	17.8	516.3	59.24	0.1776	325	401
279-AL2	D 280	279.3	37	3.10	21.7	769.3	90.76	0.1200	409	511
381-AL2	D 400	381.0	61	2.82	25.4	1053.0	123.82	0.0882	485	614
454-AL2	D 450	454.5	61	3.08	27.7	1256.1	147.71	0.0740	535	679
547-AL2	D 550	547.3	61	3.38	30.4	1512.7	177.88	0.0614	595	760
638-AL2	D 630	638.3	61	3.65	32.9	1764.0	201.06	0.0527	644	831

NOTE :
 current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C ambient temperature, 1045 W/m² Solar radiation customized conductor sizes based on customer's requirements can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL2

(Used in Austria)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(Ampere)
24-AL3	25	24.25	7	2.10	6.30	66.2	7.15	1.3566	97	117
34-AL3	35	34.36	7	2.50	7.50	93.8	10.14	0.9572	119	143
49-AL3	50	49.48	7	3.00	9.00	135.1	14.60	0.6647	151	181
66-AL3	70	65.81	19	2.10	10.5	180.7	19.41	0.5026	176	215
93-AL3	95	93.27	19	2.50	12.5	256.0	27.51	0.3546	218	263
117-AL3	120	116.99	19	2.80	14.0	321.2	34.51	0.2827	248	303
147-AL3	150	147.12	37	2.25	15.8	405.3	43.40	0.2256	283	347
182-AL3	185	181.62	37	2.50	17.5	500.3	53.58	0.1827	321	396
243-AL3	240	242.54	61	2.25	20.3	670.3	71.55	0.1373	377	471
299-AL3	300	299.43	61	2.50	22.5	827.5	88.33	0.1112	425	532
400-AL3	400	400.14	61	2.89	26.0	1105.9	118.04	0.0832	503	635
452-AL3	450	451.54	61	3.07	27.6	1247.9	133.20	0.0737	536	682
500-AL3	500	499.83	61	3.23	29.1	1381.4	147.45	0.0666	569	722
626-AL3	625	626.20	91	2.96	32.6	1737.7	184.73	0.0534	640	823
802-AL3	800	802.09	91	3.35	36.9	2225.8	236.62	0.0417	729	947
1000-AL3	1000	999.71	91	3.74	41.1	2774.3	294.91	0.0291	869	1142

NOTE :

current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C ambient temperature, 1045 W/m² Solar radiation customized conductor sizes based on customer's requirements can also be designed.



ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL3

(Used in Germany)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(Ampere)
16-AL3	16	15.9	7	1.70	5.10	43.4	4.69	2.0701	75	91
24-AL3	25	24.2	7	2.10	6.30	66.2	7.15	1.3566	97	115
34-AL3	35	34.4	7	2.50	7.50	93.8	10.14	0.9572	121	145
49-AL3	50	49.5	7	3.00	9.00	135.1	14.60	0.6647	149	181
48-AL3	50	48.3	19	1.80	9.00	132.7	14.26	0.6841	148	176
66-AL3	70	65.8	19	2.10	10.5	180.7	19.41	0.5026	177	214
93-AL3	95	93.3	19	2.50	12.5	256.0	27.51	0.3546	216	263
117-AL3	120	117.0	19	2.80	14.0	321.2	34.51	0.2827	249	304
147-AL3	150	147.1	37	2.25	15.8	405.3	43.40	0.2256	283	349
182-AL3	185	181.6	37	2.50	17.5	500.3	53.58	0.1827	319	394
243-AL3	240	242.5	61	2.25	20.3	670.3	71.55	0.1373	379	471
299-AL3	300	299.4	61	2.50	22.5	827.5	88.33	0.1112	425	534
400-AL3	400	400.1	61	2.89	26.0	1105.9	118.04	0.0832	503	633
500-AL3	500	499.8	61	3.23	29.1	1381.4	147.45	0.0666	568	723
626-AL3	625	626.2	91	2.96	32.6	1737.7	184.37	0.0534	639	822
802-AL3	800	802.1	91	3.35	36.9	2225.8	236.62	0.0417	731	949
1000-AL3	1000	999.7	91	3.74	41.1	2774.3	294.91	0.0334	815	1074

NOTE :
 current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C ambient temperature, 1045 W/m² Solar radiation customized conductor sizes based on customer's requirements can also be designed.



ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL3

(Used in Switzerland)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(Ampere)
16-AL3	16	15.9	7	1.70	5.10	43.4	4.69	2.0701	75	91
25-AL3	25	25.2	7	2.14	6.42	68.7	7.43	1.3064	99	118
35-AL3	35	34.9	7	2.52	7.56	95.3	10.30	0.9421	123	146
50-AL3	50	50.1	7	3.02	9.06	136.9	14.79	0.6660	149	181
50-AL3	50	50.0	19	1.83	9.15	137.2	14.74	0.6619	151	180
70-AL3	70	70.3	19	2.17	10.9	192.9	20.73	0.4707	184	223
95-AL3	95	94.8	19	2.52	12.6	260.2	27.96	0.3490	218	266
120-AL3	120	120.4	19	2.84	14.2	330.4	35.51	0.2748	254	309
150-AL3	150	149.7	37	2.27	15.9	412.5	44.17	0.2217	285	353
185-AL3	185	184.5	37	2.52	17.6	508.4	54.44	0.1799	322	398
239-AL3	240	239.4	37	2.87	20.1	659.4	70.61	0.1387	377	468
301-AL3	300	301.3	37	3.22	22.5	830.0	88.88	0.1102	427	537
299-AL3	300	299.4	61	2.50	22.5	827.5	88.33	0.1112	427	532
403-AL3	400	402.9	61	2.90	26.1	1113.6	118.86	0.0826	504	636
497-AL3	500	496.7	61	3.22	29.0	1372.9	146.54	0.0670	565	719
551-AL3	550	550.6	61	3.39	30.5	1521.6	162.42	0.0605	599	766
548-AL3	550	548.4	91	2.77	30.5	1521.8	161.78	0.0610	595	763
600-AL3	600	600.4	61	3.54	31.9	1659.3	177.11	0.0555	626	803
601-AL3	600	601.1	91	2.90	31.9	1668.0	177.32	0.0556	627	805
802-AL3	800	802.1	91	3.35	36.9	2225.8	236.62	0.0417	729	949

NOTE :
 current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C ambient temperature, 1045 W/m² Solar radiation customized conductor sizes based on customer's requirements can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL3

(Used in United Kingdom)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(Ampere)
19-AL3	BOX	18.8	7	1.85	5.55	51.4	5.55	1.7480	83	100
24-AL3	ACACIA	23.8	7	2.08	6.24	64.9	7.02	1.3828	96	114
30-AL3	ALMOND	30.1	7	2.34	7.02	82.2	8.88	1.0926	112	134
35-AL3	CEDAR	35.5	7	2.54	7.62	96.8	10.46	0.9273	122	148
42-AL3	DEODAR	42.2	7	2.77	8.31	115.2	12.44	0.7797	137	162
48-AL3	FIR	47.8	7	2.95	8.85	130.6	14.11	0.6875	147	176
60-AL3	HAZEL	59.9	7	3.30	9.90	163.4	17.66	0.5494	166	201
72-AL3	PINE	71.6	7	3.61	10.8	195.6	21.14	0.4591	187	226
84-AL3	HOLLY	84.1	7	3.91	11.7	229.5	24.79	0.3913	204	249
90-AL3	WILLOW	89.7	7	4.04	12.1	245.0	26.47	0.3665	212	257
119-AL3	OAK	118.9	7	4.65	14.0	324.5	35.07	0.2767	252	307
151-AL3	MULBERRY	150.9	19	3.18	15.9	414.3	44.52	0.2192	287	355
181-AL3	ASH	180.7	19	3.48	17.4	496.1	53.31	0.1830	321	393
211-AL3	ELM	211.0	19	3.76	18.8	579.2	62.24	0.1568	350	433
239-AL3	POPLAR	239.4	37	2.87	20.1	659.4	70.61	0.1387	375	466
303-AL3	SYCAMORE	303.2	37	3.23	22.6	835.2	89.40	0.1095	431	539
362-AL3	UPAS	362.1	37	3.53	24.7	997.5	106.82	0.0917	474	599
479-AL3	YEW	479.0	37	4.06	28.4	1319.6	141.31	0.0693	554	705
498-AL3	TOTARA	498.1	37	4.14	29.0	1372.1	146.93	0.0666	568	723
587-AL3	RUBUS	586.9	61	3.50	31.5	1622.0	173.13	0.0567	619	795
659-AL3	SORBUS	659.4	61	3.71	33.4	1822.5	194.53	0.0505	660	848
821-AL3	ARAUCARIA	821.1	61	4.14	37.3	2269.4	242.24	0.0406	740	962
996-AL3	REDWOOD	996.2	61	4.56	41.0	2753.2	293.88	0.0334	815	1071

NOTE :
 current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C ambient temperature, 1045 W/m² Solar radiation customized conductor sizes based on customer's requirements can also be designed.



Smart, Sustainable, Energy Efficient

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL3

(Used in Italy)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(Ampere)
35-AL3	35/7	34.9	7	2.52	7.56	95.30	10.30	0.9421	121	146
49-AL3	50/7	49.5	7	3.00	9.00	135.10	14.60	0.6647	149	179
68-AL3	70/19	68.3	19	2.14	10.70	187.60	20.16	0.4840	182	220
95-AL3	95/19	94.8	19	2.52	12.60	260.20	27.96	0.3490	218	268
125-AL3	120/19	125.5	19	2.90	14.50	344.50	37.02	0.2636	260	315
147-AL3	150/37	147.1	37	2.25	15.80	405.30	43.40	0.2256	284	348
185-AL3	185/37	184.5	37	2.52	17.60	508.40	54.44	0.1799	322	398
196-AL3	200/37	196.4	37	2.60	18.20	541.20	57.95	0.1690	336	415
244-AL3	240/37	244.4	37	2.90	20.30	673.30	72.10	0.1358	379	474
304-AL3	300/61	304.2	61	2.52	22.70	840.80	89.75	0.1094	429	537
403-AL3	400/61	402.9	61	2.90	26.10	1113.60	118.86	0.0826	505	637

NOTE :
current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C ambient temperature, 1045 W/m² Solar radiation customized conductor sizes based on customer's requirements can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL4

(Used in Belgium)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
34-AL4	35	34.4	7	2.50	7.50	93.8	11.17	0.9593	119	145
55-AL4	55	54.6	7	3.15	9.45	148.9	17.73	0.6042	157	189
93-AL4	95	93.3	19	2.50	12.5	256.0	30.31	0.3554	218	265
153-AL4	153	152.8	19	3.20	16.0	419.5	49.66	0.2169	289	357
210-AL4	210	210.3	37	2.69	18.8	579.3	68.34	0.1582	349	430
228-AL4	228	227.8	37	2.80	19.6	627.6	74.04	0.1460	365	453
248-AL4	248	247.8	37	2.92	20.4	682.6	80.53	0.1342	382	475
298-AL4	298	297.6	37	3.20	22.4	819.8	96.71	0.1118	426	532
313-AL4	313	312.6	37	3.28	23.0	861.3	101.61	0.1064	436	548
366-AL4	366	366.2	37	3.55	24.9	1008.9	115.36	0.0908	477	601
446-AL4	446	445.7	61	3.05	27.5	1231.7	144.84	0.0749	533	676
475-AL4	475	475.4	61	3.15	28.4	1313.8	154.50	0.0702	551	702
570-AL4	570	570.2	61	3.45	31.1	1576.0	185.33	0.0585	610	779
621-AL4	621	620.9	61	3.60	32.4	1716.0	195.58	0.0537	638	820
926-AL4	926	926.3	91	3.60	39.6	2570.4	291.77	0.0362	783	1026
117-AL4	117	117.0	19	2.80	14.0	321.2	38.02	0.2833	249	304
148-AL4	148	148.1	19	3.15	15.8	406.5	48.12	0.2239	284	350
182-AL4	182	181.6	37	2.50	17.5	500.3	59.03	0.1831	319	394
198-AL4	198	198.0	37	2.61	18.3	545.3	64.34	0.1680	338	417
265-AL4	265	265.0	37	3.02	21.1	730.1	86.14	0.1255	397	496
288-AL4	288	288.3	37	3.15	22.1	794.3	93.71	0.1154	418	520
318-AL4	318	318.4	37	3.31	23.2	877.1	103.47	0.1045	441	553
709-AL4	709	709.2	91	3.15	34.7	1968.0	230.48	0.0472	683	883
851-AL4	851	850.7	91	3.45	38.0	2360.7	276.47	0.0394	752	980

NOTE :
current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmisivity, 0.80 absorptivity, 45°C ambient temperature, 1045 W/m² Solar radiation customized conductor sizes based on customer's requirements can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL4
(Used in France)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(Kg/Km)
22-AL4	22	22.0	7	2.00	6.00	60.0	7.15	1.4989	91	110
34-AL4	34	34.4	7	2.50	7.50	93.8	11.17	0.9593	119	143
55-AL4	55	54.6	7	3.15	9.45	148.9	17.73	0.6042	159	191
76-AL4	76	75.5	19	2.25	11.3	207.4	24.55	0.4388	191	233
117-AL4	117	117.0	19	2.80	14.0	321.2	38.02	0.2833	249	302
148-AL4	148	148.1	19	3.15	15.8	406.5	48.12	0.2239	285	349
182-AL4	182	181.6	37	2.50	17.5	500.3	59.03	0.1831	319	394
228-AL4	228	227.8	37	2.80	19.6	627.6	74.04	0.1460	366	454
288-AL4	288	288.3	37	3.15	22.1	794.3	93.71	0.1154	416	522
366-AL4	366	366.2	37	3.55	24.9	1008.9	115.36	0.0908	477	601
570-AL4	570	570.2	61	3.45	31.1	1576.0	185.33	0.0585	610	781
851-AL4	851	850.7	91	3.45	38.0	2360.7	276.47	0.0394	750	980
1144-AL4	1144	1143.5	91	4.00	44.0	3173.4	360.22	0.0293	871	1151
1596-AL4	1600	1595.9	127	4.00	52.0	4427.5	502.72	0.0210	1010	1367

NOTE :
current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C ambient temperature, 1045 W/m² Solar radiation customized conductor sizes based on customer's requirements can also be designed.