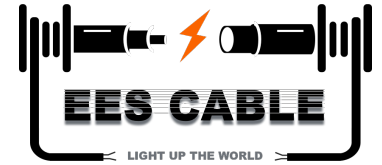


ASTM B524

Aluminium Conductor

Aluminium Alloy Reinforced(ACAR)



Conductor Size		Wire Diameter	Conductor diameter	Linear Density			Rated Strength	D.C. Resistance	Allowable Ampacity
Kcmil	mm ²	mm	mm	1350 kg/km	6201 kg/km	Total kg/km	KN	Ohm/km	Amperes

STRANDING 72/19

3000	1520	4.613	50.74	3343	878	4221	270.00	0.01966	1958
2750	1393	4.415	48.57	3063	808	3871	247.00	0.02147	1866
2500	1267	4.209	46.30	2784	731	3515	225.00	0.02362	1769
2493	1263	4.204	46.24	2785	731	3515	224.00	0.02367	1767
2250	1140	3.993	43.92	2506	658	3164	202.00	0.02624	1666
2000	1013	3.764	41.40	2206	579	2785	182.00	0.02924	1562

STRANDING 63/28

3000	1520	4.613	50.74	2926	1290	4216	287.00	0.01995	1948
2750	1393	4.415	48.57	2680	1180	3860	263.00	0.02178	1856
2500	1267	4.209	46.30	2436	1080	3516	239.00	0.02397	1759
2250	1140	3.993	43.92	2193	970	3163	215.00	0.02663	1657
2000	1013	3.764	41.40	1930	853	2783	193.00	0.02968	1553

STRANDING 54/37

3000	1520	4.613	50.74	2508	1710	4218	308.00	0.02025	1938
2750	1393	4.415	48.57	2297	1570	3867	282.00	0.02211	1846
2500	1267	4.209	46.30	2088	1420	3508	257.00	0.02432	1750
2493	1263	4.204	46.24	2089	1423	3512	256.00	0.02438	1748
2250	1140	3.993	43.92	1879	1280	3159	231.00	0.02703	1647
2000	1013	3.764	41.40	1654	1130	2784	207.00	0.03012	1544

STRANDING 54/7

2000	1013	4.600	41.40	2470	318	2788	169.00	0.02882	1571
1900	963	4.483	40.35	2346	303	2649	160.00	0.03034	1524
1800	912	4.364	39.28	2223	287	2510	152.00	0.03202	1476
1750	887	4.303	38.73	2161	288	2439	148.00	0.03293	1452
1700	861	4.239	38.15	2098	271	2369	143.00	0.03393	1426
1600	811	4.115	37.04	1976	255	2231	135.00	0.03601	1376
1500	760	3.983	35.85	1852	239	2090	127.00	0.03843	1323
1400	709	3.848	34.63	1729	223	1952	118.00	0.04118	1268
1361.5	690	3.795	34.16	1685	217	1902	117.00	0.04234	1247
1300	659	3.708	33.37	1605	207	1812	112.00	0.04435	1212
1227	647	3.675	33.08	1580	204	1784	110.00	0.04515	1199
1250	633	3.635	32.72	1542	199	1741	107.00	0.04615	1182
1200	608	3.564	32.08	1482	191	1673	104.00	0.04800	1154
1100	557	3.411	30.70	1358	176	1534	95.90	0.05241	1093
1000	507	3.251	29.26	1234	159	1393	87.90	0.05769	1029

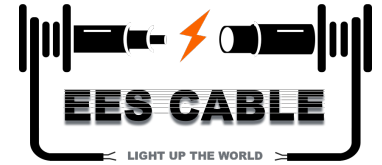
Note :

+ Ampacity calculated on : 25°C Ambient Temperature, 75°C conductor temperature, 0.61m/s wind speed, 900 W/m² Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.

ASTM B524

Aluminium Conductor

Aluminium Alloy Reinforced(ACAR)



Conductor Size		Wire Diameter	Conductor diameter	Linear Density			Rated Strength	D.C. Resistance	Allowable Ampacity
Kcmil	mm ²	mm	mm	1350 kg/km	6201 kg/km	Total kg/km	KN	Ohm/km	Amperes

STRANDING 48/13

2338	1185	4.973	44.76	2597	700	3297	211.00	0.02526	1703
2000	1013	4.600	41.40	2196	592	2788	181.00	0.02923	1562
1900	963	4.483	40.35	2086	562	2648	172.00	0.03078	1516
1800	912	4.364	39.28	1976	532	2508	163.00	0.03248	1468
1750	887	4.303	38.73	1921	516	2437	158.00	0.03341	1443
1703	863	4.244	38.20	1873	505	2378	154.00	0.03434	1420
1700	861	4.239	38.15	1865	502	2367	153.00	0.03442	1418
1600	811	4.115	37.04	1757	473	2230	145.00	0.03653	1368
1500	760	3.983	35.85	1646	443	2089	135.00	0.03899	1315
1400	709	3.848	34.63	1536	414	1950	126.00	0.04177	1261
1300	659	3.708	33.37	1427	384	1811	119.00	0.04499	1205
1250	633	3.635	32.72	1371	369	1740	114.00	0.04681	1175
1200	608	3.564	32.08	1318	355	1673	110.00	0.04869	1147
1100	557	3.411	30.70	1207	326	1533	102.00	0.05316	1086
1000	507	3.251	29.26	1097	296	1393	94.10	0.05852	1023

STRANDING 42/19

2338	1185	4.973	44.76	2273	1022	3295	229.00	0.02563	1693
2000	1013	4.600	41.40	1921	865	2786	196.00	0.02966	1553
1933	979	4.522	40.70	1861	837	2698	189.00	0.03069	1522
1900	963	4.483	40.35	1825	821	2646	186.00	0.03123	1507
1800	912	4.364	39.28	1729	778	2507	176.00	0.03295	1459
1798	911	4.361	39.25	1731	779	2509	176.00	0.03300	1458
1750	887	4.303	38.73	1681	757	2438	171.00	0.03389	1435
1700	861	4.239	38.15	1632	735	2367	166.00	0.03493	1409
1600	811	4.115	37.04	1537	692	2229	157.00	0.03706	1360
1534.4	777	4.028	36.25	1477	664	2141	150.00	0.03868	1325
1500	760	3.983	35.85	1440	649	2089	147.00	0.03956	1307
1400	709	3.848	34.63	1344	605	1950	137.00	0.04238	1253
1300	659	3.708	33.37	1249	562	1811	129.00	0.04564	1197
1277	647	3.675	33.08	1229	553	1782	126.00	0.04647	1184
1250	633	3.635	32.72	1199	540	1739	124.00	0.04750	1168
1200	608	3.564	32.08	1153	519	1672	119.00	0.04941	1140
1100	557	3.411	30.70	1056	475	1531	110.00	0.05394	1079
1000	507	3.251	29.26	960	431	1391	102.00	0.05938	1017

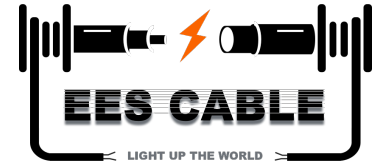
Note :

+ Ampacity calculated on : 25°C Ambient Temperature, 75°C conductor temperature, 0.61m/s wind speed, 900 W/m² Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.

ASTM B524

Aluminium Conductor

Aluminium Alloy Reinforced(ACAR)



Conductor Size		Wire Diameter	Conductor diameter	Linear Density			Rated Strength	D.C. Resistance	Allowable Ampacity
Kcmil	mm ²	mm	mm	1350 kg/km	6201 kg/km	Total kg/km	KN	Ohm/km	Amperes

STRANDING 33/28

2000	1013	4.600	41.40	1509	1274	2783	212.00	0.03032	1540
1900	963	4.483	40.35	1434	1210	2644	201.00	0.03193	1493
1800	912	4.364	39.28	1358	1147	2505	191.00	0.03369	1446
1750	887	4.303	38.73	1321	1115	2436	186.00	0.03465	1422
1700	861	4.239	38.15	1282	1082	2364	180.00	0.03571	1397
1600	811	4.115	37.04	1208	1020	2228	160.00	0.03789	1348
1500	760	3.983	35.85	1131	955	2086	159.00	0.04045	1295
1400	709	3.848	34.63	1056	892	1948	148.00	0.04333	1241
1300	659	3.708	33.37	981	828	1809	139.00	0.04667	1186
1250	633	3.635	32.72	942	796	1738	133.00	0.04856	1157
1200	608	3.564	32.08	906	765	1671	128.00	0.05052	1129
1100	557	3.411	30.70	830	701	1531	119.00	0.05515	1069
1000	507	3.251	29.26	754	657	1391	110.00	0.06071	1007

STRANDING 33/4

1300	659	4.760	33.32	1616	195	1811	109.00	0.04432	1211
1250	633	4.669	32.68	1555	187	1742	105.00	0.04607	1183
1200	608	4.575	32.03	1493	180	1673	101.00	0.04798	1154
1100	557	4.379	30.65	1367	165	1532	92.30	0.05237	1092
1000	507	4.176	29.23	1244	150	1394	83.90	0.05759	1030
950	481	4.069	28.48	1181	142	1323	79.70	0.06066	997
900	456	3.962	27.73	1120	135	1255	75.50	0.06398	964
850	431	3.851	26.96	1058	127	1185	71.30	0.06772	930
800	405	3.734	26.14	994	120	1114	68.20	0.07203	895
750	380	3.617	25.32	933	112	1045	64.00	0.07676	860
700	355	3.493	24.45	870	105	975	60.70	0.08231	823
650	329	3.366	23.56	808	97.4	905	56.30	0.08864	785
600	304	3.233	22.63	746	89.9	835	52.40	0.09608	746
550	279	3.096	21.67	684	82.6	767	48.10	0.10477	706
500	253	2.951	20.66	621	74.9	696	44.40	0.11532	665

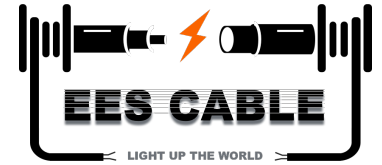
Note :

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ASTM B524

Aluminium Conductor

Aluminium Alloy Reinforced(ACAR)



Conductor Size		Wire Diameter	Conductor diameter	Linear Density			Rated Strength	D.C. Resistance	Allowable Ampacity
Kcmil	mm ²	mm	mm	1350 kg/km	6201 kg/km	Total kg/km	KN	Ohm/km	Amperes

STRANDING 30/7

1300	659	4.760	33.32	1469	341	1810	118.00	0.04485	1206
1250	633	4.669	32.68	1413	328	1741	114.00	0.04661	1177
1200	608	4.575	32.03	1357	315	1672	109.00	0.04855	1148
1198	607	4.570	31.99	1358	315	1673	109.00	0.04866	1146
1172	594	4.521	31.65	1329	308	1637	107.00	0.04972	1131
1109	562	4.397	30.78	1257	292	1549	101.00	0.05256	1093
1100	557	4.379	30.65	1244	289	1533	100.00	0.05299	1087
1024.5	519	4.227	29.59	1161	269	1431	93.20	0.05687	1040
1000	507	4.176	29.23	1131	262	1393	91.00	0.05827	1025
950	481	4.069	28.48	1074	249	1323	86.40	0.06137	992
900	456	3.962	27.73	1018	236	1254	81.90	0.06473	959
853.7	433	3.858	27.01	968	225	1192	77.60	0.06827	928
850	431	3.851	26.96	962	223	1185	77.30	0.06852	926
800	405	3.734	26.14	904	210	1114	73.80	0.07288	891
750	380	3.617	25.32	848	197	1045	69.20	0.07767	856
700	355	3.493	24.45	791	184	975	65.50	0.08329	819
650	329	3.366	23.56	735	171	906	60.80	0.08969	781
600	304	3.233	22.63	678	158	836	56.80	0.09722	742
550	279	3.096	21.67	622	144	766	52.10	0.10601	703
500	253	2.951	20.66	565	131	696	48.00	0.11669	661

STRANDING 24/13

1300	659	4.760	33.32	1176	633	1809	131.00	0.04594	1193
1250	633	4.669	32.68	1131	610	1741	126.00	0.04775	1165
1200	608	4.575	32.03	1086	585	1671	121.00	0.04973	1136
1198	607	4.570	31.99	1086	585	1672	120.00	0.04984	1135
1109	562	4.397	30.78	1006	542	1547	111.00	0.05384	1082
1100	557	4.379	30.65	995	536	1531	111.00	0.05428	1076
1080.6	548	4.341	30.39	980	528	1508	109.00	0.05523	1065
1024.5	519	4.227	29.59	929	500	1430	103.00	0.05825	1030
1000	507	4.176	29.23	905	488	1393	101.00	0.05968	1014
950	481	4.069	28.48	858	463	1321	95.40	0.06286	982
927.2	470	4.021	28.15	841	453	1294	93.20	0.06437	967
900	456	3.962	27.73	814	439	1253	90.50	0.06631	949
853.7	433	3.858	27.01	774	417	1191	85.80	0.06993	918
850	431	3.851	26.96	769	415	1184	85.40	0.07018	916
800	405	3.734	26.14	723	390	1113	81.20	0.07465	881
750	380	3.617	25.32	679	366	1045	76.20	0.07956	847
700	355	3.493	24.45	632	341	973	71.80	0.08531	810
650	329	3.366	23.56	588	317	905	66.60	0.09187	773
600	304	3.233	22.63	542	292	834	62.80	0.09958	735
550	279	3.096	21.67	497	268	765	57.60	0.10859	695
500	253	2.951	20.66	452	244	696	52.90	0.11952	654

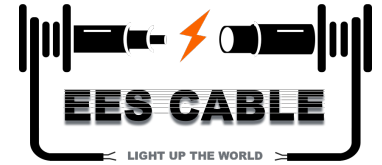
Note :

+ Ampacity calculated on : 25°C Ambient Temperature, 75°C conductor temperature, 0.61m/s wind speed, 900 W/m² Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.

ASTM B524

Aluminium Conductor

Aluminium Alloy Reinforced(ACAR)



Conductor Size		Wire Diameter	Conductor diameter	Linear Density			Rated Strength	D.C. Resistance	Allowable Ampacity
Kcmil	mm ²	mm	mm	1350 kg/km	6201 kg/km	Total kg/km	KN	Ohm/km	Amperes

STRANDING 18/19

1300	659	4.760	33.32	882	926	1808	146.00	0.04708	1181
1250	633	4.669	32.68	848	890	1738	140.00	0.04893	1154
1200	608	4.575	32.03	814	855	1669	135.00	0.05096	1125
1172	594	4.521	31.65	797	837	1634	131.00	0.05219	1108
1100	557	4.379	30.65	746	784	1530	123.00	0.05563	1065
1080.6	548	4.341	30.39	735	771	1506	121.00	0.05661	1054
1000	507	4.176	29.23	678	713	1391	112.00	0.06117	1004
950	481	4.069	28.48	644	677	1321	106.00	0.06443	972
900	456	3.962	27.73	611	642	1253	101.00	0.06795	940
850	431	3.851	26.96	577	606	1183	95.30	0.07193	907
800	405	3.734	26.14	543	570	1113	90.30	0.07651	872
750	380	3.617	25.32	509	534	1043	84.70	0.08154	838
739.8	375	3.592	25.14	503	528	1031	83.50	0.08268	830
700	355	3.493	24.45	475	498	973	79.50	0.08743	802
650	329	3.366	23.56	440	463	903	73.80	0.09415	765
649.5	329	3.365	23.56	442	464	905	73.80	0.09421	765
600	304	3.233	22.63	406	427	833	70.10	0.10206	727
550	279	3.096	21.67	373	392	765	64.30	0.11129	688
500	253	2.951	20.66	339	356	695	58.80	0.12249	647

STRANDING 15/4

600	304	4.513	22.57	661	175	836	55.40	0.09746	742
587.2	298	4.465	22.33	648	172	820	54.30	0.09957	732
550	279	4.321	21.61	606	161	767	50.80	0.10632	702
503.6	255	4.135	20.68	556	147	703	46.50	0.11610	664
500	263	4.120	20.60	550	146	696	46.20	0.11694	661
450	228	3.909	19.55	496	131	627	41.60	0.12991	618
400	203	3.685	18.43	440	117	557	37.50	0.14618	574
350	177	3.447	17.24	385	102	487	33.20	0.16707	527
300	152	3.193	15.97	331	87.7	418	28.90	0.19470	478
250	127	2.913	14.57	225	73	348	24.40	0.23393	426

STRANDING 12/7

653.1	331	4.709	23.55	577	335	911	68.50	0.09164	773
600	304	4.513	22.57	528	307	835	62.90	0.09977	732
550	279	4.321	21.61	483	281	764	57.60	0.10884	693
500	253	4.120	20.60	440	256	696	52.40	0.11971	652
450	228	3.909	19.55	396	230	626	47.20	0.13299	610
400	203	3.685	18.43	352	204	556	42.40	0.14965	566
350	177	3.447	17.24	308	179	487	37.40	0.17102	520
300	152	3.193	15.97	265	153	418	32.80	0.19932	472
250	127	2.913	14.57	220	128	348	27.60	0.23947	420

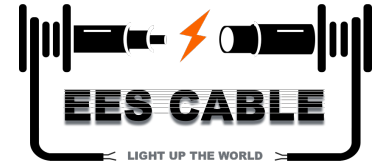
Note :

+ Ampacity calculated on : 25°C Ambient Temperature, 75°C conductor temperature, 0.61m/s wind speed, 900 W/m² Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.

ASTM B524

Aluminium Conductor

Aluminium Alloy Reinforced(ACAR)



Conductor Size		Wire Diameter	Conductor diameter	Linear Density			Rated Strength	D.C. Resistance	Allowable Ampacity
Kcmil	mm ²	mm	mm	1350 kg/km	6201 kg/km	Total kg/km	KN	Ohm/km	Amperes

STRANDING 4/3

246.9	125	4.770	14.31	197	147	344	26.90	0.24462	414
211.6	107	4.417	13.25	168	126	294	23.00	0.28528	376
195.7	99.1	4.247	12.74	156	116	272	21.30	0.30858	358
167.8	85	3.932	11.80	134	99.7	234	18.30	0.36000	324
155.4	78.7	3.785	11.36	124	92.4	216	17.10	0.38851	309
133.1	67.4	3.503	10.51	106	79.1	185	14.70	0.45358	280
123.3	62.5	3.371	10.11	98.2	73.3	171	13.65	0.48979	267
105.6	53.5	3.119	9.36	84.1	62.8	147	12.00	0.57214	242
77.47	39.3	2.672	8.02	61.7	46.1	108	8.94	0.77958	199
66.36	33.6	2.474	7.42	52.9	39.5	92.4	7.79	0.90935	180
48.69	24.7	2.118	6.35	38.8	29	67.8	5.76	1.24073	148
41.74	21.2	1.961	5.88	33.2	24.8	58	4.97	1.44736	135
30.59	15.5	1.679	5.04	24.4	18.2	42.6	3.67	1.97437	111

Note:

+ Ampacity calculated on : 25°C Ambient Temperature, 75°C conductor temperature, 0.61m/s wind speed, 900 W/m² Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.