



**APAR INDUSTRIES LIMITED  
CONDUCTORS DIVISION  
AN ISO 9001:2008 COMPANY**



**POWERLINE®**

**OVERHEAD ELECTRICAL  
ALUMINUM CONDUCTORS**

**Pioneers in overhead Transmission and Distribution Conductors  
50 Years .... Serving Customer and Community**

**- Tomorrow's Progress Today**

# AAAC

Stranded Aluminum-Alloy 6201-T81 Conductors  
(ASTM B 399/B 399M - 04)



Code Word	Conductor Size		Stranding (No of wires)	Diameter (mm)		Standard weight (Kg/Km)	Rated Strength (KN)	DC Resistance at 20°C (Ω/Km)	Allowable Ampacity (amperes)
	Kcmil	mm <sup>2</sup>		Individual wires	Complete Conductor				
-	1750	886	61	4.30	38.70	2431	251.0	0.03781	1372
-	1500	759	61	3.98	35.82	2082	215.0	0.04414	1248
-	1439.2	729	61	3.90	35.10	1999	207.0	0.04597	1218
-	1348.8	685	61	3.78	34.02	1878	194.0	0.04893	1172
-	1259.6	638	61	3.65	32.85	1751	181.0	0.05248	1122
-	1250	631	61	3.63	32.67	1732	179.0	0.05306	1114
-	1165.1	590	61	3.51	31.59	1620	167.0	0.05675	1068
-	1077.4	547	61	3.38	30.42	1502	156.0	0.06120	1019
-	-	630	37	4.66	32.62	1731	181.0	0.05308	1113
-	-	560	37	4.39	30.73	1537	161.0	0.05981	1034
-	1000	508	37	4.18	29.26	1393	146.0	0.06597	972
-	-	500	37	4.15	29.05	1373	143.0	0.06693	963
Greeley	927.2	470	37	4.02	28.14	1289	135.0	0.07133	925
-	900	456	37	3.96	27.72	1250	131.0	0.07351	908
-	-	450	37	3.94	27.58	1238	129.0	0.07426	902
-	800	404	37	3.73	26.11	1109	116.0	0.08285	842
-	-	400	37	3.71	25.97	1097	115.0	0.08375	836
-	750	381	37	3.62	25.34	1045	109.0	0.08796	811
Flint	740.8	375	37	3.59	25.13	1028	107.0	0.08944	802
-	-	355	37	3.50	24.50	976.7	102.0	0.09410	777
-	700	354	37	3.49	24.43	971.2	101.0	0.09464	774
-	650	330	37	3.37	23.59	905.5	94.9	0.1015	740
-	-	315	37	3.29	23.03	863	90.2	0.1065	718
-	600	303	37	3.23	22.61	831.9	91.0	0.1105	702
-	550	279	37	3.10	21.70	766.2	83.9	0.1200	666
-	-	280	37	3.10	21.70	766.2	83.9	0.1200	666
Elgin	652.4	331	19	4.71	23.55	908.3	97.0	0.1012	741
Darien	559.5	284	19	4.36	21.80	778.3	83.1	0.1181	672
-	500	253	19	4.12	20.60	695	74.2	0.1322	625
-	-	250	19	4.09	20.45	684.9	73.1	0.1342	620
Cairo	465.4	236	19	3.98	19.90	648.6	69.2	0.1417	599
-	450	228	19	3.91	19.55	626	66.8	0.1468	585
-	-	224	19	3.87	19.35	613.2	65.5	0.1499	578
-	400	203	19	3.69	18.45	557.5	59.5	0.1649	544
Canton	394.5	200	19	3.66	18.30	548.5	58.6	0.1676	538
-	-	200	19	3.66	18.30	548.5	58.6	0.1676	538
-	-	180	19	3.47	17.35	493	52.6	0.1864	503
-	-	160	19	3.27	16.35	437.8	46.7	0.2099	466
Butte	312.8	159	19	3.26	16.30	435.1	46.5	0.2112	464
-	-	140	19	3.06	15.30	383.4	42.9	0.2397	429
-	-	125	19	2.89	14.45	342	38.3	0.2688	399
Alliance	246.9	125	7	4.77	14.31	343.2	37.8	0.2678	398
-	-	112	7	4.51	13.53	306.8	33.8	0.2996	371
-	211.6	107	7	4.42	13.26	294.7	32.5	0.3119	361

**Note :**

+ Ampacity calculated on : 25°C Ambient Temperature, 75°C conductor temperature, 0.61m/s wind speed, 900 W/m<sup>2</sup> Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.

# AAAC

Stranded Aluminum-Alloy 6201-T81 Conductors  
(ASTM B 399/B 399M - 04)



Code Word	Conductor Size		Stranding (No of wires)	Diameter (mm)		Standard weight (Kg/Km)	Rated Strength (KN)	DC Resistance at 20°C (Ω/Km)	Allowable Ampacity (amperes)
	Kcmil	mm <sup>2</sup>		Individual wires	Complete Conductor				
–	–	100	7	4.26	12.78	273.8	30.2	0.3357	345
Amherst	195.7	99.3	7	4.25	12.75	272.5	30.0	0.3373	344
–	167.8	84.9	7	3.93	11.79	233	25.7	0.3945	311
–	–	80.0	7	3.81	11.43	219	24.1	0.4197	299
Anaheim	155.4	78.6	7	3.78	11.34	215.6	23.8	0.4264	296
–	133.1	67.3	7	3.50	10.50	184.8	20.4	0.4974	269
–	–	63.0	7	3.39	10.17	173.4	19.1	0.5302	258
Azusa	123.3	62.4	7	3.37	10.11	171.3	18.9	0.5365	256
–	105.6	53.5	7	3.12	9.36	146.8	17.0	0.6259	232
–	–	50.0	7	3.02	9.06	137.6	15.9	0.6681	223
–	–	40.0	7	2.70	8.10	110	12.7	0.8358	194
Ames	77.47	39.2	7	2.67	8.01	107.5	12.4	0.8547	191
–	66.36	33.5	7	2.47	7.41	92	10.6	0.9987	173
Alton	48.69	24.7	7	2.12	6.36	67.8	7.83	1.3560	143
Akron	30.58	15.5	7	1.68	5.04	42.58	4.92	2.1590	107

**Note :**

+ Ampacity calculated on : 25°C Ambient Temperature, 75°C conductor temperature, 0.61m/s wind speed, 900 W/m<sup>2</sup> Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.

# ACAR

Stranded Aluminum Conductors, Aluminum-Alloy Reinforced  
(ACAR, 1350/6201) (ASTM B 524/B 524M - 99 (Reapproved 2005))



Conductor Size		Wire Diameter	Conductor diameter	Linear Density			Rated Strength	D.C. Resistance	Allowable Ampacity
Kcmil	mm <sup>2</sup>	mm	mm	1350 kg/km	6201 kg/km	Total kg/km	KN	Ohm/km	Amperes
<b>STRANDING 72/19</b>									
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
<b>STRANDING 63/28</b>									
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
<b>STRANDING 54/37</b>									
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
<b>STRANDING 54/7</b>									
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/m<sup>2</sup> Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.

# ACAR

Stranded Aluminum Conductors, Aluminum-Alloy Reinforced  
(ACAR, 1350/6201) (ASTM B 524/B 524M - 99 (Reapproved 2005))



Conductor Size		Wire Diameter	Conductor diameter	Linear Density			Rated Strength	D.C. Resistance	Allowable Ampacity
Kcmil	mm <sup>2</sup>	mm	mm	1350 kg/km	6201 kg/km	Total kg/km	KN	Ohm/km	Amperes
<b>STRANDING 48/13</b>									
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
<b>STRANDING 42/19</b>									
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/m<sup>2</sup> Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.

# ACAR

Stranded Aluminum Conductors, Aluminum-Alloy Reinforced  
(ACAR, 1350/6201) (ASTM B 524/B 524M - 99 (Reapproved 2005))



Conductor Size		Wire Diameter	Conductor diameter	Linear Density			Rated Strength	D.C. Resistance	Allowable Ampacity
Kcmil	mm <sup>2</sup>	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 :**

+ Ampacity calculated on : 25°C Ambient Temperature, 75°C conductor temperature, 0.61m/s wind speed, 900 W/m<sup>2</sup> Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.



# ACAR

Stranded Aluminum Conductors, Aluminum-Alloy Reinforced  
(ACAR, 1350/6201) (ASTM B 524/B 524M - 99 (Reapproved 2005))



Conductor Size		Wire Diameter	Conductor diameter	Linear Density			Rated Strength	D.C. Resistance	Allowable Ampacity
Kcmil	mm <sup>2</sup>	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/m<sup>2</sup> Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.

# ACAR

Stranded Aluminum Conductors, Aluminum-Alloy Reinforced  
(ACAR, 1350/6201) (ASTM B 524/B 524M - 99 (Reapproved 2005))



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

### STRANDING 1 B/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 1 5/4

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 1 2/7

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/m<sup>2</sup> Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.



# ACAR

Stranded Aluminum Conductors, Aluminum-Alloy Reinforced  
(ACAR, 1350/6201) (ASTM B 524/B 524M - 99 (Reapproved 2005))



Conductor Size		Wire Diameter	Conductor diameter	Linear Density			Rated Strength	D.C. Resistance	Allowable Ampacity
Kcmil	mm <sup>2</sup>	mm	mm	1350 kg/km	6201 kg/km	Total kg/km	KN	Ohm/km	Amperes
<b>STRANDING 4/3</b>									
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/m<sup>2</sup> Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.

# ACAR

Stranded Aluminum Conductors, Aluminum-Alloy Reinforced  
(ACAR, 1350/6201) (ASTM B 524/B 524M - 99 (Reapproved 2005))



Conductor Size		Wire Diameter	Conductor diameter	Linear Density			Rated Strength	D.C. Resistance	Allowable Ampacity
Kcmil	mm <sup>2</sup>	mm	mm	1350 kg/km	6201 kg/km	Total kg/km	KN	Ohm/km	Amperes
<b>STRANDING 72/19</b>									
1600	3158	4.73	52.03	3559	934	4493	283.00	0.01888	2003
1400	2763	4.43	48.73	3092	812	3904	248.00	0.02130	1874
1250	2467	4.18	45.98	2753	723	3476	221.00	0.02390	1757
1120	2210	3.96	43.56	2471	648	3119	198.00	0.02667	1650
1000	1974	3.74	41.14	2204	578	2782	180.00	0.02990	1544
<b>STRANDING 63/28</b>									
1600	3158	4.73	52.03	3114	1377	4491	300.00	0.01916	1993
1400	2763	4.43	48.73	2705	1196	3901	263.00	0.02160	1865
1250	2467	4.18	45.98	2409	1065	3474	234.00	0.02430	1746
1120	2210	3.96	43.56	2162	956	3118	210.00	0.02707	1641
1000	1974	3.74	41.14	1928	852	2780	190.00	0.03030	1536
<b>STRANDING 54/37</b>									
1600	3158	4.73	52.03	2669	1819	4488	323.00	0.01944	1983
1400	2763	4.43	48.73	2319	1580	3899	283.00	0.02196	1853
1250	2467	4.18	45.98	2065	1407	3472	253.00	0.02466	1736
1120	2210	3.96	43.56	1853	1263	3116	226.00	0.02747	1632
1000	1974	3.74	41.14	1653	1126	2779	204.00	0.03080	1526
<b>STRANDING 54/7</b>									
1000	1974	4.57	41.13	2468	318	2786	166.00	0.02950	1552
900	1776	4.33	38.97	2194	214	2478	148.00	0.03250	1463
800	1579	4.09	36.81	1957	252	2209	133.00	0.03640	1367
710	1401	3.85	34.64	1734	224	1958	118.00	0.04110	1269
630	1243	3.63	32.67	1542	199	1741	107.00	0.04627	1180
560	1105	3.42	30.78	1369	176	1545	96.10	0.05213	1096
500	987	3.23	29.07	1221	157	1378	86.50	0.05844	1021
<b>STRANDING 48/13</b>									
1000	1974	4.57	41.13	2194	591	2786	178.00	0.02990	1544
900	1776	4.33	38.97	1950	525	2475	159.00	0.03298	1455
800	1579	4.09	36.81	1740	469	2209	142.00	0.03696	1358
710	1401	3.85	34.65	1542	415	1957	126.00	0.04170	1262
630	1243	3.63	32.67	1371	369	1740	114.00	0.04693	1174
560	1105	3.42	30.78	1217	328	1545	102.00	0.05288	1090
500	987	3.23	29.07	1085	292	1377	93.60	0.05928	1015
<b>STRANDING 42/19</b>									
1000	1974	4.57	41.13	1919	864	2783	192.00	0.03030	1536
900	1776	4.33	38.97	1706	768	2474	173.00	0.03374	1440
800	1579	4.09	36.81	1522	685	2207	154.00	0.03751	1350
710	1401	3.85	34.65	1349	607	1956	137.00	0.04230	1254
630	1243	3.63	32.67	1199	540	1739	123.00	0.04762	1166
560	1105	3.42	30.78	1065	479	1544	110.00	0.05365	1083
500	987	3.23	29.07	950	427	1377	100.00	0.06015	1008

**Note :**

+ Ampacity calculated on : 25°C Ambient Temperature, 75°C conductor temperature, 0.61m/s wind speed, 900 W/m<sup>2</sup> Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.

# ACAR

Stranded Aluminum Conductors, Aluminum-Alloy Reinforced  
(ACAR, 1350/6201) (ASTM B 524/B 524M - 99 (Reapproved 2005))



Conductor Size		Wire Diameter	Conductor diameter	Linear Density			Rated Strength	D.C. Resistance	Allowable Ampacity
Kcmil	mm <sup>2</sup>	mm	mm	1350 kg/km	6201 kg/km	Total kg/km	KN	Ohm/km	Amperes
<b>STRANDING 33/28</b>									
1000	1974	4.57	41.13	1508	1273	2781	208.00	0.03100	1522
900	1776	4.33	38.97	1341	1131	2472	187.00	0.03420	1433
800	1579	4.09	36.81	1196	1009	2205	167.00	0.03830	1338
710	1401	3.85	34.65	1060	894	1954	148.00	0.04330	1242
630	1243	3.63	32.67	942	795	1737	133.00	0.04869	1155
560	1105	3.42	30.78	836	706	1542	119.00	0.05486	1073
500	987	3.23	29.07	746	630	1376	109.00	0.06150	999
<b>STRANDING 33/4</b>									
630	1243	4.66	32.62	1553	187	1740	104.00	0.04620	1181
560	1105	4.39	30.73	1378	166	1544	92.40	0.05210	1096
500	987	4.15	29.05	1232	148	1380	82.60	0.05830	1022
450	888	3.94	27.58	1110	134	1244	74.40	0.06460	958
400	789	3.71	25.97	984	119	1103	67.30	0.07296	888
355	701	3.50	24.50	876	106	982	60.80	0.08190	825
315	622	3.29	23.03	774	93	867	53.70	0.09270	763
280	553	3.10	21.70	687	83	770	48.10	0.10450	707
250	493	2.93	20.51	614	74	688	42.90	0.11690	659
<b>STRANDING 30/7</b>									
630	1243	4.66	32.62	1412	328	1740	113.00	0.04680	1174
560	1105	4.39	30.73	1253	291	1544	100.00	0.05270	1091
500	987	4.15	29.05	1119	260	1379	89.50	0.05900	1017
450	888	3.94	27.58	1009	234	1243	80.60	0.06540	953
400	789	3.71	25.97	895	208	1103	72.70	0.07380	884
355	701	3.50	24.50	796	185	981	65.50	0.08290	821
315	622	3.29	23.03	704	163	867	57.90	0.09380	759
280	553	3.10	21.70	625	145	770	52.10	0.10570	704
250	493	2.93	20.51	558	130	688	46.60	0.11830	655
<b>STRANDING 24/13</b>									
630	1243	4.66	32.62	1129	608	1737	125.00	0.04790	1163
560	1105	4.39	30.73	1002	540	1542	111.00	0.05400	1080
500	987	4.15	29.05	896	483	1379	98.80	0.06040	1007
450	888	3.94	27.58	807	435	1242	89.00	0.06700	943
400	789	3.71	25.97	716	386	1102	79.90	0.07560	874
355	701	3.50	24.50	637	343	980	71.70	0.08490	813
315	622	3.29	23.03	563	303	866	63.40	0.09612	751
280	553	3.10	21.70	500	269	769	57.60	0.10830	697
250	493	2.93	20.51	446	240	686	51.40	0.12120	649

**Note :**

+ Ampacity calculated on : 25°C Ambient Temperature, 75°C conductor temperature, 0.61m/s wind speed, 900 W/m<sup>2</sup> Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.

# ACAR

Stranded Aluminum Conductors, Aluminum-Alloy Reinforced  
(ACAR, 1350/6201) (ASTM B 524/B 524M - 99 (Reapproved 2005))



Conductor Size		Wire Diameter	Conductor diameter	Linear Density			Rated Strength	D.C. Resistance	Allowable Ampacity
Kcmil	mm <sup>2</sup>	mm	mm	1350 kg/km	6201 kg/km	Total kg/km	KN	Ohm/km	Amperes
<b>STRANDING 18/19</b>									
630	1243	4.66	32.62	847	889	1736	139.00	0.04910	1151
560	1105	4.39	30.73	752	789	1541	123.00	0.05530	1069
500	987	4.15	29.05	672	705	1377	110.00	0.06190	996
450	888	3.94	27.58	606	636	1242	99.20	0.06870	933
400	789	3.71	25.97	537	563	1100	88.70	0.07750	865
355	701	3.50	24.50	478	501	979	79.50	0.08710	804
315	622	3.29	23.03	422	443	865	70.20	0.09850	743
280	553	3.10	21.70	375	393	768	64.20	0.11100	689
250	493	2.93	20.51	335	352	687	57.40	0.12420	642
<b>STRANDING 12/7</b>									
280	553	4.33	21.65	488	283	771	57.60	0.10840	696
250	493	4.09	20.46	435	252	687	51.40	0.12140	648
224	442	3.87	19.35	389	226	615	46.00	0.13570	603
200	395	3.66	18.30	348	202	550	41.60	0.15170	562
180	355	3.47	17.35	313	182	495	37.80	0.16870	525
160	316	3.27	16.35	278	161	439	33.50	0.19000	487
140	276	3.06	15.30	242	141	384	30.10	0.21700	448
<b>STRANDING 15/4</b>									
280	553	4.33	21.65	609	162	771	50.80	0.10590	703
250	493	4.09	20.46	544	144	688	45.30	0.11860	654
224	442	3.87	19.35	487	129	616	40.60	0.13250	610
200	395	3.66	18.30	435	115	550	36.90	0.14820	568
180	355	3.47	17.35	391	104	495	33.60	0.16480	531
160	316	3.27	16.35	348	92	440	29.80	0.18560	492
140	276	3.06	15.30	340	81	385	26.50	0.21190	452
<b>STRANDING 4/3</b>									
125	247	4.77	14.31	197.2	147.1	344.3	26.70	0.24460	414
112	221	4.51	13.53	176.3	131.5	307.8	23.90	0.27360	386
100	197	4.26	12.78	157.3	117.3	274.6	17.20	0.30670	359
80	158	3.81	11.43	125.8	93.9	219.7	17.20	0.38340	312
63	124	3.39	10.17	99.6	74.3	173.9	13.70	0.48430	269
50	99	3.02	9.06	79.1	59	138.1	11.20	0.61030	232
40	79	2.70	8.10	63.2	47.1	110.3	8.95	0.76350	202
31.5	62	2.39	7.17	49.5	36.9	86.4	7.01	0.97440	173
25	49	2.13	6.39	39.3	29.3	68.6	5.57	1.22680	149
20	39	1.91	5.73	31.6	23.6	55.2	4.48	1.52570	130
16	32	1.71	5.13	25.3	18.9	44.2	3.59	1.90340	113

**Note :**

+ Ampacity calculated on : 25°C Ambient Temperature, 75°C conductor temperature, 0.61m/s wind speed, 900 W/m<sup>2</sup> Intensity of Solar Radiation, 0.6 Solar Radiation Absorption Coefficient, 0.5 Emissivity Coefficient.



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