

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 7 2 / 1 9 | | | | | | | | | |
| 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 6 3 / 2 8 | | | | | | | | | |
| 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 5 4 / 3 7 | | | | | | | | | |
| 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 5 4 / 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.

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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.

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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 :

+ 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.

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| 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.

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| 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.

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| 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.