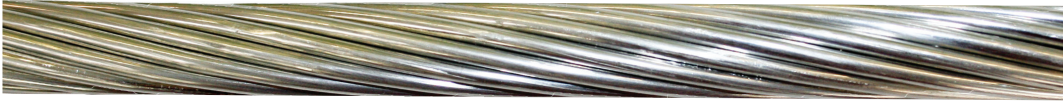


AAC Conductor

Eland Product Group **A4A**



Application

AAC conductor is also known as aluminium stranded conductor. It is manufactured from electrolytically refined aluminium, with a minimum purity of 99.7%. AAC is used mainly in urban areas where the spacing is short and the supports are close. All aluminium conductors are made up of one or more strands of aluminium wire depending on the end usage. AAC is also used extensively in coastal regions because it has a high degree of corrosion resistance.

Standards

ASTM - B 231 Metric Units, ASTM - B 231, TS IEC 1089, DIN 48201, BS 215, UNE 21.018

Technical Data

Conductor

All Aluminium Alloy

Dimensions

ASTM - B 231 Metric Units

| Code | Size AWG-MCM | Stranding N2 x Q mm | Section mm ² | Overall Diameter mm | Cable Weight Kg/Km | Rated Strength N | Electrical Resistance | | | Current Carrying Capacity (1) A |
|-------------|-----------------|------------------------|----------------------------|---------------------------|-----------------------|---------------------|-----------------------|------------------|------------------|--|
| | | | | | | | DC. 20°C / Km | A.C. | | |
| | | | | | | | | CC. 25°C / Km | CC. 25°C / Km | |
| PEACHBELL | 6 | 7 x 1.55 | 13.21 | 4.65 | 36.60 | 2.50 | 1.17020 | 2.21290 | 2.64990 | 110 |
| ROSE | 4 | 7 x 1.96 | 21.12 | 5.88 | 58.30 | 3.92 | 1.36380 | 1.39140 | 1.66630 | 145 |
| IRIS | 2 | 7 x 2.47 | 33.54 | 7.41 | 92.70 | 6.01 | 0.08570 | 0.85500 | 1.04860 | 195 |
| PANSY | 1 | 7 x 2.78 | 42.49 | 8.34 | 116.80 | 7.30 | 0.68010 | 0.69420 | 0.83100 | 225 |
| POPPY | 1/0 | 7 x 3.12 | 53.52 | 9.36 | 147.50 | 8.86 | 0.53900 | 0.54990 | 0.65880 | 260 |
| ASTER | 2/0 | 7 x 3.50 | 67.34 | 10.50 | 185.90 | 11.17 | 0.42750 | 0.43740 | 0.52260 | 305 |
| PHLOX | 3/0 | 7 x 3.93 | 84.91 | 11.79 | 234.40 | 13.35 | 0.33920 | 0.34680 | 0.41500 | 350 |
| OXLIP | 4/0 | 7 x 4.42 | 107.40 | 13.26 | 295.60 | 17.05 | 0.26890 | 0.27470 | 0.32880 | 410 |
| SNEEZEWORTH | 250.0 | 7 x 4.80 | 127.60 | 14.40 | 349.30 | 20.12 | 0.22730 | 0.23240 | 0.27840 | 455 |
| VALERIAN | 250.0 | 17 x 2.91 | 126.40 | 14.55 | 349.30 | 20.74 | 0.22730 | 0.23240 | 0.27840 | 455 |
| DAISY | 266.8 | 7 x 4.96 | 135.30 | 14.88 | 327.80 | 21.50 | 0.21330 | 0.21810 | 0.26100 | 475 |
| LAUREL | 266.8 | 19 x 3.01 | 135.20 | 15.05 | 327.80 | 22.12 | 0.21330 | 0.21810 | 0.26100 | 475 |
| PEONY | 300.0 | 19 x 3.19 | 151.90 | 15.95 | 419.10 | 24.38 | 0.18970 | 0.19450 | 0.23240 | 515 |
| TULIP | 336.4 | 19 x 3.38 | 170.50 | 16.90 | 470.00 | 27.37 | 0.16910 | 0.17340 | 0.20760 | 555 |
| DAFFODIL | 350.0 | 19 x 3.45 | 177.60 | 17.25 | 489.00 | 28.45 | 0.16260 | 0.16660 | 0.19950 | 565 |
| CANNA | 397.5 | 19 x 3.68 | 202.10 | 18.40 | 55.40 | 31.64 | 0.14310 | 0.14730 | 0.16590 | 615 |
| GOLDENTUFT | 450.0 | 19 x 3.91 | 228.10 | 19.55 | 682.60 | 35.11 | 0.12640 | 0.12990 | 0.15600 | 665 |
| COSMOS | 477.0 | 19 x 4.02 | 241.20 | 20.10 | 666.40 | 37.20 | 0.11930 | 0.12240 | 0.14670 | 690 |
| SYRINGA | 477.0 | 37 x 2.88 | 241.00 | 20.16 | 666.40 | 38.67 | 0.11930 | 0.12240 | 0.14670 | 690 |
| ZINNIA | 500.0 | 19 x 4.12 | 253.30 | 20.60 | 698.60 | 38.98 | 0.11380 | 0.11680 | 0.13980 | 715 |

ASTM - B 231 Metric Units

| | | | | | | | | | | |
|-------------|---------|------------|--------|-------|--------|--------|---------|---------|---------|------|
| HYACINTH | 500.0 | 37 x 2.95 | 252.90 | 20.65 | 698.60 | 40.54 | 0.11380 | 0.11680 | 0.13980 | 715 |
| DAHLIA | 556.5 | 19 x 4.35 | 282.40 | 21.75 | 777.40 | 43.39 | 0.10220 | 0.10890 | 0.12620 | 765 |
| MISTLETOE | 556.5 | 37 x 3.11 | 281.10 | 21.77 | 777.40 | 44.25 | 0.10220 | 0.10890 | 0.12620 | 765 |
| MEADOWSWEET | 600.0 | 37 x 3.23 | 303.20 | 22.61 | 838.10 | 47.62 | 0.09482 | 0.09820 | 0.01168 | 800 |
| ORCHID | 636.0 | 37 x 3.33 | 322.20 | 23.31 | 888.40 | 50.73 | 0.08947 | 0.09262 | 0.11063 | 835 |
| HEUCHERA | 650.0 | 37 x 3.37 | 330.00 | 23.59 | 908.10 | 51.84 | 0.08747 | 0.09098 | 0.10853 | 855 |
| VERBANA | 700.0 | 37 x 3.49 | 354.00 | 24.43 | 977.90 | 55.63 | 0.08123 | 0.08451 | 0.10069 | 880 |
| FLAG | 700.0 | 61 x 2.72 | 354.50 | 24.48 | 977.90 | 57.42 | 0.08123 | 0.08264 | 0.09820 | 900 |
| VIOLET | 715.0 | 37 x 3.53 | 362.10 | 24.71 | 999.60 | 56.96 | 0.07953 | 0.08264 | 0.09820 | 900 |
| NASTURTIUM | 715.5 | 61 x 2.75 | 362.35 | 24.73 | 999.60 | 58.30 | 0.07953 | 0.08264 | 0.09820 | 900 |
| PETUNIA | 750.0 | 37 x 3.62 | 380.8 | 25.34 | 1047.7 | 58.30 | 0.07587 | 0.07894 | 0.09446 | 922 |
| CATTAIL | 750.0 | 61 x 2.82 | 381.0 | 25.38 | 1047.7 | 60.08 | 0.07585 | 0.07894 | 0.09446 | 922 |
| ARBUTIUS | 795.0 | 37 x 3.72 | 402.1 | 26.04 | 1110.6 | 61.86 | 0.07156 | 0.07457 | 0.08888 | 960 |
| ULAC | 795.0 | 61 x 2.90 | 402.9 | 26.10 | 1110.6 | 63.65 | 0.07156 | 0.07457 | 0.08888 | 960 |
| FUCHSIA | 800.0 | 37 x 3.75 | 408.7 | 26.25 | 1115.2 | 62.30 | 0.07116 | 0.07421 | 0.08825 | 960 |
| HELIOTROPE | 800.0 | 61 x 2.92 | 408.7 | 26.28 | 1115.2 | 64.08 | 0.07116 | 0.07421 | 0.08825 | 960 |
| ANEMONE | 874.5 | 37 x 3.91 | 444.3 | 27.37 | 1221.8 | 66.75 | 0.06506 | 0.06837 | 0.08081 | 1020 |
| CROCUS | 874.5 | 61 x 3.04 | 442.8 | 27.36 | 1221.8 | 70.31 | 0.06506 | 0.06837 | 0.08081 | 1020 |
| COCKSCOMB | 900.0 | 37 x 3.96 | 455.7 | 27.72 | 1257.4 | 68.53 | 0.06332 | 0.06650 | 0.07894 | 1040 |
| SNAPDRAGON | 900.0 | 61 x 3.09 | 457.4 | 27.81 | 1257.4 | 70.76 | 0.06332 | 0.06650 | 0.07894 | 1040 |
| MAGNOLIA | 954.0 | 37 x 4.08 | 483.7 | 28.56 | 1332.8 | 75.22 | 0.05965 | 0.06276 | 0.07457 | 1080 |
| GOLDENROD | 954.0 | 61 x 3.18 | 484.5 | 28.62 | 1332.8 | 75.22 | 0.05965 | 0.06276 | 0.07457 | 1080 |
| HAWKWEED | 1000.0 | 37 x 4.17 | 505.3 | 29.19 | 1397.0 | 76.54 | 0.05689 | 0.06004 | 0.07146 | 1110 |
| CAMELLIA | 1000.0 | 61 x 3.25 | 506.0 | 29.25 | 1397.0 | 78.77 | 0.05689 | 0.06004 | 0.07146 | 1110 |
| BLUEBELL | 1033.5 | 37 x 4.24 | 522.4 | 29.68 | 1443.8 | 78.77 | 0.05505 | 0.05830 | 0.06906 | 1135 |
| LARKSPUR | 1035.5 | 61 x 3.31 | 524.9 | 29.79 | 1443.8 | 81.45 | 0.05505 | 0.05830 | 0.06906 | 1135 |
| MARIGOLD | 1272.0 | 61 x 3.43 | 563.6 | 30.87 | 1555.2 | 87.67 | 0.05112 | 0.05456 | 0.06437 | 1190 |
| HAWTHORN | 1192.5 | 61 x 3.55 | 603.8 | 31.95 | 1665.3 | 93.90 | 0.04770 | 0.05121 | 0.06033 | 1240 |
| NARCISSUS | 1272.0 | 61 x 3.67 | 645.3 | 33.03 | 1776.9 | 97.90 | 0.04472 | 0.04816 | 0.05673 | 1290 |
| COLIMBINE | 1351.5 | 61 x 3.78 | 684.5 | 34.02 | 1888.5 | 104.13 | 0.04209 | 0.04560 | 0.05377 | 1340 |
| CARNATION | 1431.0 | 61 x 3.89 | 725.0 | 35.01 | 1998.6 | 108.14 | 0.03976 | 0.04344 | 0.05102 | 1390 |
| GLADIOLUS | 1510.5 | 61 x 4.00 | 766.5 | 36.00 | 2110.3 | 113.92 | 0.03766 | 0.04134 | 0.04852 | 1430 |
| COREOPSIS | 1590.0 | 61 x 4.10 | 805.4 | 36.90 | 2222.0 | 120.15 | 0.03579 | 0.03960 | 0.04636 | 1480 |
| JESSANINE | 1750.0 | 61 x 4.30 | 885.8 | 38.70 | 2445.1 | 132.17 | 0.03251 | 0.03642 | 0.04262 | 1565 |
| COWSLIP | 2000.0 | 91 x 3.76 | 1010.4 | 41.36 | 2793.3 | 152.19 | 0.02845 | 0.03281 | 0.03803 | 1695 |
| SAGEBRUSH | 2250.0 | 91 x 3.99 | 1137.8 | 43.89 | 3174.3 | 167.77 | 0.02829 | 0.02987 | 0.03449 | 1810 |
| PIGWEEED | 2300.0 | 61 x 4.93 | 1164.4 | 44.37 | 3239.8 | 173.56 | 0.02473 | 0.02931 | 0.03386 | 1830 |
| LUPINE | 2500.0 | 91 x 4.21 | 1266.8 | 46.31 | 3527.0 | 186.46 | 0.02298 | 0.02791 | 0.03213 | 1920 |
| BITTERROOT | 2750.0 | 91 x 4.41 | 1390.0 | 48.51 | 3879.8 | 205.15 | 0.02070 | 0.02576 | 0.02937 | 2020 |
| TRILLIUM | 3000.0 | 127 x 3.90 | 1517.0 | 50.70 | 4232.4 | 223.84 | 0.01915 | 0.02461 | 0.02784 | 2120 |
| BLUEBONNET | 35000.0 | 127 x 4.22 | 1776.3 | 54.86 | 4985.4 | 261.22 | 0.01657 | 0.02231 | 0.02526 | 2295 |

ASTM - B 231

| Code Word | Size (AWG or Kcmil) | Stranding | | Diameter (ins) | | Cross Sectional Area T(Sq.ins) | Weight Per 1000ft (lbs) | Rated Strength (lbs) | Resistance OHMS/1000ft | | Allowable ampacity + (Amps) |
|-------------|---------------------------|-------------|-------|--------------------|-------------------|---|-------------------------------|----------------------------|---------------------------|------------|-----------------------------------|
| | | No of wires | Class | Individual Wire | Complete Cable | | | | DC @ 20° C | AC @ 75° C | |
| PEACHBELL | 6 | 7 | A | 0.0612 | 0.184 | 0.0206 | 25 | 563 | 0.6580 | 0.8050 | 103 |
| ROSE | 4 | 7 | A | 0.0772 | 0.232 | 0.0328 | 39 | 881 | 0.4140 | 0.5060 | 138 |
| IRIS | 2 | 7 | AA.A | 0.0974 | 0.292 | 0.0521 | 62 | 1350 | 0.2600 | 0.3180 | 185 |
| PANSY | 1 | 7 | AA.A | 0.1093 | 0.328 | 0.0657 | 78 | 1640 | 0.2070 | 0.2520 | 214 |
| POPPY | 1/0 | 7 | AA.A | 0.1228 | 0.368 | 0.0829 | 99 | 1990 | 0.1640 | 0.2000 | 247 |
| ASTER | 2/0 | 7 | AA.A | 0.1379 | 0.414 | 0.1045 | 125 | 2510 | 0.1300 | 0.1590 | 286 |
| PHOLOX | 3/0 | 7 | AA.A | 0.1548 | 0.464 | 0.1318 | 157 | 3040 | 0.1030 | 0.1260 | 331 |
| OXLIP | 4/0 | 7 | AA.A | 0.1739 | 0.522 | 0.1662 | 198 | 6830 | 0.0817 | 0.0999 | 393 |
| SNEEZEWORT | 250.0 | 7 | A | 0.1890 | 0.567 | 0.1964 | 234 | 4520 | 0.0691 | 0.8460 | 425 |
| VALERIAN | 250.0 | 19 | A | 0.1147 | 0.574 | 0.1964 | 234 | 4660 | 0.0691 | 0.0846 | 425 |
| DAISY | 266.8 | 7 | AA | 0.1953 | 0.586 | 0.2095 | 250 | 4830 | 0.0648 | 0.0793 | 443 |
| LAUREL | 266.8 | 19 | A | 0.1185 | 0.593 | 0.2095 | 250 | 4970 | 0.0648 | 0.0793 | 444 |
| PEONY | 300.0 | 19 | A | 0.1257 | 0.629 | 0.2356 | 281 | 5480 | 0.0576 | 0.0706 | 478 |
| TULIP | 336.4 | 19 | A | 0.1331 | 0.666 | 0.2642 | 316 | 6150 | 0.5140 | 0.0630 | 513 |
| DAFFODIL | 350.0 | 19 | A | 0.1357 | 0.679 | 0.2749 | 328 | 6390 | 0.4940 | 0.0605 | 526 |
| CANNA | 397.5 | 19 | AA.A | 0.1447 | 0.724 | 0.3122 | 373 | 7110 | 0.0435 | 0.0534 | 570 |
| GOLDENTUFT | 450.0 | 19 | AA | 0.1538 | 0.769 | 0.3534 | 422 | 7890 | 0.0384 | 0.0427 | 616 |
| COSMOS | 477.0 | 19 | AA | 0.1584 | 0.793 | 0.3746 | 447 | 8360 | 0.0362 | 0.0455 | 639 |
| SYRINGA | 477.0 | 37 | A | 0.1135 | 0.795 | 0.3746 | 447 | 8690 | 0.0362 | 0.0445 | 639 |
| ZINNIA | 500.0 | 19 | AA | 0.1622 | 0.811 | 0.3927 | 469 | 8760 | 0.0346 | 0.0425 | 658 |
| HYACINTH | 500.0 | 37 | A | 0.1162 | 0.813 | 0.3927 | 468 | 9110 | 0.0346 | 0.0425 | 958 |
| DAHLIA | 556.5 | 19 | AA | 0.1711 | 0.856 | 0.4371 | 521 | 9750 | 0.0311 | 0.0382 | 703 |
| MISTLETOE | 556.5 | 37 | AA.A | 0.1226 | 0.858 | 0.4372 | 521 | 9940 | 0.0311 | 0.0382 | 704 |
| MEADOWSWEET | 600.0 | 37 | AA.A | 0.1273 | 0.891 | 0.4712 | 562 | 10700 | 0.0288 | 0.0355 | 738 |
| ORCHID | 636.0 | 37 | AA.A | 0.1311 | 0.918 | 0.4995 | 596 | 11400 | 0.0272 | 0.0355 | 765 |
| HEUCHERA | 650.0 | 37 | AA | 0.1326 | 0.928 | 0.5105 | 610 | 11600 | 0.0266 | 0.0328 | 775 |
| VERBENA | 700.0 | 37 | AA | 0.1375 | 0.963 | 0.5498 | 656 | 12500 | 0.0247 | 0.0305 | 812 |
| FLAG | 700.0 | 61 | A | 0.1071 | 0.964 | 0.5499 | 656 | 12400 | 0.0247 | 0.0365 | 812 |
| VIOLET | 715.5 | 37 | AA | 0.1391 | 0.974 | 0.5620 | 671 | 12800 | 0.0242 | 0.0299 | 823 |
| NASTURTIUM | 715.5 | 61 | A | 0.1083 | 0.975 | 0.5621 | 671 | 13100 | 0.0242 | 0.0299 | 823 |
| PETUNIA | 750.0 | 37 | AA | 0.1424 | 0.997 | 0.5891 | 703 | 13100 | 0.0230 | 0.0286 | 847 |
| CATTAIL | 750.0 | 61 | A | 0.1109 | 0.998 | 0.5891 | 703 | 13500 | 0.0230 | 0.0286 | 847 |
| ARBUTUS | 795.0 | 37 | AA | 0.1466 | 1.026 | 0.6244 | 745 | 13900 | 0.0217 | 0.0270 | 878 |
| ULAC | 795.0 | 61 | A | 0.1142 | 1.028 | 0.6244 | 746 | 14300 | 0.0217 | 0.0270 | 879 |
| COCKSCOMB | 900.0 | 37 | AA | 0.1560 | 1.093 | 0.7069 | 844 | 15400 | 0.0192 | 0.0239 | 948 |
| SNAPDRAGON | 900.0 | 61 | A | 0.1215 | 1.094 | 0.7069 | 844 | 15900 | 0.0192 | 0.0239 | 948 |

ASTM - B 231

| Code Word | Size (AWG or Kcmil) | Stranding | | Diameter (ins) | | Cross Sectional Area (Sq.ins) | Weight Per 1000ft (lbs) | Rated Strength (lbs) | Resistance 0HMS/1000ft | | Allowable ampacity + (Amps) |
|------------|---------------------|-------------|-------|-----------------|----------------|-------------------------------|-------------------------|----------------------|------------------------|------------|-----------------------------|
| | | No of wires | Class | Individual Wire | Complete Cable | | | | DC @ 20° C | AC @ 75° C | |
| MAGNOLIA | 954.0 | 37 | AA | 0.1606 | 1.124 | 0.7493 | 895 | 16400 | 0.01810 | 0.0226 | 982 |
| GOLDENROD | 954.0 | 61 | A | 0.1251 | 1.126 | 0.7493 | 895 | 16900 | 0.01810 | 0.02260 | 983 |
| HAWKWEED | 1000.0 | 37 | AA | 0.1644 | 1.150 | 0.7854 | 937 | 17200 | 0.01730 | 0.02160 | 1010 |
| CAMELIA | 1000.0 | 61 | A | 0.1280 | 1.152 | 0.7854 | 937 | 17700 | 0.01730 | 0.02160 | 1011 |
| BLUEBELL | 1033.5 | 37 | AA | 0.1671 | 1.170 | 0.8117 | 968 | 17700 | 0.01670 | 0.02100 | 1031 |
| LARKSPUR | 1033.5 | 61 | A | 0.1302 | 1.172 | 0.8117 | 969 | 18300 | 0.01670 | 0.02100 | 1032 |
| MARIGOLD | 1113.0 | 61 | AA.A | 0.1351 | 1.216 | 0.8742 | 1044 | 19700 | 0.01550 | 0.01950 | 1079 |
| HAWTHORN | 1192.5 | 61 | AA.A | 0.1398 | 1.258 | 0.9366 | 1117 | 21100 | 0.01450 | 0.01830 | 1124 |
| NARCISSUS | 1272.0 | 61 | AA.A | 0.1444 | 1.300 | 0.9990 | 1192 | 22000 | 0.01360 | 0.01730 | 1169 |
| COLUMBINE | 1351.5 | 61 | AA.A | 0.1489 | 1.340 | 1.0610 | 1266 | 23400 | 0.01280 | 0.01630 | 1212 |
| CARNATION | 1431.0 | 61 | AA.A | 0.1532 | 1.379 | 1.1240 | 1342 | 24300 | 0.01210 | 0.01550 | 1253 |
| GLADIOLUS | 1510.5 | 61 | AA.A | 0.1574 | 1.417 | 1.1860 | 1416 | 25600 | 0.01440 | 0.01470 | 1294 |
| COREOPSIS | 1590.0 | 61 | AA | 0.1614 | 1.454 | 1.2490 | 1489 | 27000 | 0.01090 | 0.01410 | 1333 |
| JESSAMINE | 1750.0 | 61 | AA | 0.1694 | 1.525 | 1.3740 | 1641 | 29700 | 0.09880 | 0.01290 | 1408 |
| COWSLIP | 2000.0 | 91 | A | 0.1482 | 1.630 | 1.5710 | 1873 | 34200 | 0.00864 | 0.01150 | 1518 |
| SAGEBRUSH | 2250.0 | 91 | A | 0.1572 | 1.729 | 1.7670 | 2128 | 37500 | 0.00776 | 0.01050 | 1612 |
| LUPINE | 2500.0 | 91 | A | 0.1657 | 1.823 | 1.9640 | 2365 | 41900 | 0.00698 | 0.00969 | 1706 |
| BITTERROOT | 2750.0 | 91 | A | 0.1739 | 1.913 | 2.1600 | 2602 | 46100 | 0.00635 | 0.00900 | 1793 |
| TRILLIUM | 3000.0 | 127 | A | 0.1537 | 1.996 | 2.3560 | 2687 | 50300 | 0.00582 | 0.00834 | 1874 |
| BLUEBONNET | 3500.0 | 127 | A | 0.1660 | 2.158 | 2.7490 | 3344 | 58700 | 0.00499 | 0.00756 | 2024 |

ASTM - B 231

| Size (AWG or Kcmil) | Stranding | | Diameter (ins) | | Cross Sectional Area (Sq.ins) | Weight Per 1000ft (lbs) | Rated Strength (lbs) | Resistance 0HMS/1000ft | | Allowable ampacity + (Amps) |
|---------------------|-------------|-------|-----------------|----------------|-------------------------------|-------------------------|----------------------|------------------------|------------|-----------------------------|
| | No of wires | Class | Individual Wire | Complete Cable | | | | DC @ 20° C | AC @ 75° C | |
| 6 | 7 | B | 0.0612 | 0.184 | 0.0206 | 25 | 583 | 0.6580 | 0.8050 | 103 |
| 4 | 7 | B | 0.0772 | 0.232 | 0.3280 | 39 | 881 | 0.4140 | 0.5060 | 138 |
| 3 | 7 | B | 0.0867 | 0.260 | 0.0413 | 49 | 1.090 | 0.3280 | 0.4010 | 160 |
| 2 | 7 | B | 0.0974 | 0.292 | 0.0521 | 62 | 1.350 | 0.2600 | 0.3180 | 185 |
| 1 | 19 | B | 0.0664 | 0.332 | 0.0657 | 79 | 1.740 | 0.2070 | 0.2520 | 214 |
| 1/0 | 19 | B | 0.0745 | 0.373 | 0.0829 | 99 | 2.160 | 0.1640 | 0.2000 | 248 |
| 2/0 | 19 | B | 0.0837 | 0.419 | 0.1045 | 125 | 2.670 | 0.1300 | 0.1590 | 287 |
| 3/0 | 19 | B | 0.0940 | 0.470 | 0.1318 | 157 | 3.310 | 0.1030 | 0.1260 | 332 |
| 4/0 | 19 | B | 0.1055 | 0.528 | 0.1662 | 198 | 4.020 | 0.0817 | 0.0999 | 384 |
| 250 | 37 | B | 0.0822 | 0.575 | 0.1964 | 234 | 4.910 | 0.0691 | 0.0846 | 426 |
| 300 | 37 | B | 0.0900 | 0.630 | 0.2356 | 281 | 5.890 | 0.0576 | 0.0706 | 478 |
| 350 | 37 | B | 0.0973 | 0.681 | 0.2749 | 328 | 6.760 | 0.0494 | 0.0605 | 527 |

ASTM - B 231

| Size (AWG or Kcmil) | Stranding | | Diameter (ins) | | Cross Sec- tional Area (Sq.ins) | Weight Per 1000ft (lbs) | Rated Strength (lbs) | Resistance OHMS/1000ft | | Allowable ampacity + (Amps) |
|------------------------|-------------|-------|-----------------|-------------------|---------------------------------------|----------------------------|-------------------------|------------------------|-----------|-----------------------------------|
| | No of wires | Class | Individual Wire | Complete Cable | | | | DC @ 20° C | AC @ 75°C | |
| 400 | 37 | B | 0.1040 | 0.728 | 0.3142 | 375 | 7.440 | 0.0432 | 0.0530 | 573 |
| 450 | 37 | B | 0.1103 | 0.772 | 0.3524 | 422 | 8.200 | 0.0384 | 0.0472 | 616 |
| 500 | 37 | B | 0.1162 | 0.813 | 0.3927 | 468 | 9.110 | 0.0346 | 0.0125 | 658 |
| 550 | 61 | B | 0.0950 | 0.855 | 0.4320 | 516 | 10.500 | 0.0314 | 0.0387 | 699 |
| 600 | 61 | B | 0.0992 | 0.893 | 0.4721 | 563 | 11.500 | 0.0288 | 0.0355 | 738 |
| 650 | 61 | B | 0.1032 | 0.929 | 0.5105 | 609 | 11.900 | 0.0266 | 0.0328 | 776 |
| 700 | 61 | B | 0.1071 | 0.964 | 0.5498 | 656 | 12.900 | 0.0247 | 0.0305 | 812 |
| 750 | 61 | B | 0.1109 | 0.998 | 0.5891 | 703 | 13.500 | 0.0230 | 0.0286 | 847 |
| 800 | 61 | B | 0.1145 | 1.031 | 0.6283 | 750 | 14.400 | 0.0216 | 0.0268 | 882 |
| 900 | 61 | B | 0.1215 | 1.094 | 0.7069 | 844 | 15.900 | 0.0192 | 0.0239 | 948 |
| 1000 | 61 | B | 0.1280 | 1.154 | 0.7854 | 937 | 17.700 | 0.0173 | 0.0216 | 1011 |
| 1100 | 61 | B | 0.1099 | 1.209 | 0.8669 | 1030 | 20.000 | 0.0157 | 0.0198 | 1071 |
| 1200 | 91 | B | 0.1148 | 1.263 | 0.9425 | 1124 | 21.400 | 0.0144 | 0.0182 | 1129 |
| 1250 | 91 | B | 0.1172 | 1.289 | 0.9818 | 1172 | 22.300 | 0.0138 | 0.0175 | 1557 |
| 1300 | 91 | B | 0.1195 | 1.315 | 1.0210 | 1218 | 23.200 | 0.0133 | 0.0169 | 1184 |
| 1400 | 91 | B | 0.1240 | 1.364 | 1.1000 | 1311 | 24.500 | 0.0123 | 0.0158 | 1237 |
| 1500 | 91 | B | 0.1284 | 1.412 | 1.1780 | 1406 | 26.200 | 0.0155 | 0.0148 | 1288 |
| 2 | 19 | C | 0.0591 | 0.296 | 0.0521 | 62 | 1.410 | 0.2600 | 0.3180 | 185 |
| 2/0 | 37 | C | 0.0600 | 0.420 | 0.1045 | 125 | 2.760 | 0.1300 | 0.1590 | 287 |
| 3/0 | 37 | C | 0.0673 | 0.471 | 0.1318 | 157 | 3.410 | 0.1030 | 0.1260 | 332 |
| 4/0 | 37 | C | 0.0756 | 0.529 | 0.1662 | 198 | 4.230 | 0.0817 | 0.0999 | 384 |
| 250 | 61 | C | 0.0640 | 0.576 | 0.1964 | 234 | 5.030 | 0.0691 | 0.0846 | 427 |
| 300 | 61 | C | 0.0701 | 0.631 | 0.2356 | 281 | 5.930 | 0.0576 | 0.0706 | 478 |
| 350 | 61 | C | 0.0757 | 0.681 | 0.2749 | 328 | 6.920 | 0.0494 | 0.0605 | 527 |
| 400 | 61 | C | 0.0810 | 0.729 | 0.3142 | 375 | 7.780 | 0.0432 | 0.0530 | 573 |
| 450 | 61 | C | 0.0859 | 0.773 | 0.3534 | 422 | 8.750 | 0.0384 | 0.0472 | 617 |
| 500 | 61 | C | 0.0905 | 0.815 | 0.3927 | 468 | 9.540 | 0.0346 | 0.0425 | 659 |
| 550 | 91 | C | 0.0777 | 0.855 | 0.4320 | 515 | 10.800 | 0.0314 | 0.0387 | 699 |
| 600 | 91 | C | 0.0812 | 0.893 | 0.4712 | 562 | 11.500 | 0.0288 | 0.0355 | 738 |
| 650 | 91 | C | 0.0845 | 0.930 | 0.5105 | 609 | 12.500 | 0.0266 | 0.0328 | 776 |
| 700 | 91 | C | 0.0877 | 0.964 | 0.5498 | 656 | 13.500 | 0.0247 | 0.0305 | 812 |
| 750 | 91 | C | 0.0908 | 0.999 | 0.5891 | 703 | 14.200 | 0.0230 | 0.0286 | 848 |
| 800 | 91 | C | 0.0938 | 1.032 | 0.6283 | 750 | 15.100 | 0.0216 | 0.0247 | 882 |
| 900 | 91 | C | 0.0994 | 1.093 | 0.7069 | 843 | 17.100 | 0.0192 | 0.0239 | 948 |
| 1000 | 91 | C | 0.1048 | 1.153 | 0.7854 | 937 | 18.200 | 0.0173 | 0.0216 | 1011 |

TS IEC 1089

| Code Al mm ² | Canada Standard | | Areas | | Number of Wires | | Conductor Diameter mm | Rated Strength kg | D.C. Resistance at 20°C 0hm/km | Unit Weight kg/km | Packing of reels | | |
|-------------------------------|-----------------|----------------|--------------------------|---|--------------------|----------------|-----------------------------|-------------------------|---|----------------------|------------------|--------------|------------------|
| | Type | Section AWG | Total mm ² | Copper Equivalent mm ² | Number of Wires | Diameter mm | | | | | Reel Type | In one reel | |
| | | | | | | | | | | | | Lengths m | Net Weight kg |
| 21 | ROSE | 4 | 21.14 | 13.30 | 7 | 1.96 | 5.88 | 416 | 1.3558 | 57.8 | R-100 | 10000 | 578 |
| 27 | LILY | 3 | 26.60 | 16.73 | 7 | 2.20 | 6.60 | 514 | 1.0776 | 72.8 | R-100 | 8000 | 583 |
| 34 | IRIS | 2 | 33.53 | 21.09 | 7 | 2.47 | 7.41 | 637 | 0.8537 | 91.8 | R-100 | 6400 | 588 |
| 42 | PANSY | 1 | 42.49 | 26.72 | 7 | 2.78 | 8.34 | 777 | 0.6743 | 116.8 | R-100 | 5000 | 582 |
| 53 | POPPY | 1/0 | 53.48 | 33.63 | 7 | 3.12 | 9.36 | 941 | 0.5354 | 146.4 | R-100 | 4000 | 586 |
| 67 | ASTER | 2/0 | 67.14 | 42.22 | 7 | 3.50 | 10.50 | 1185 | 0.4254 | 184.4 | R-100 | 3000 | 554 |
| 85 | PHLOX | 3/0 | 84.91 | 53.40 | 7 | 3.93 | 11.79 | 1435 | 0.3372 | 232.5 | R-100 | 2400 | 558 |
| 107 | OXLIP | 4/0 | 107.38 | 67.53 | 7 | 4.42 | 13.26 | 1814 | 0.2662 | 294.0 | R-100 | 1900 | 559 |
| 126 | VALERIAN | 250000 | 126.38 | 79.46 | 19 | 2.91 | 14.55 | 2261 | 0.2277 | 347.5 | R-100 | 1600 | 556 |
| 135 | DAISY | 266800 | 135.28 | 85.07 | 19 | 3.01 | 15.05 | 2421 | 0.2127 | 372.1 | R-100 | 1500 | 556 |
| 152 | PEONY | 300000 | 151.28 | 95.47 | 19 | 3.19 | 15.95 | 2671 | 0.1896 | 417.7 | R-120 | 1750 | 731 |

DIN 48201

| Code | Section mm ² | Stranding | | Overall Diameter mm | Rated Strength N | Electrical Resistance Ohms/Km | Cable Weight kg/km | Current Carrying Capacity (1) A |
|------|----------------------------|-----------|------|------------------------|---------------------|-------------------------------------|-----------------------|---------------------------------------|
| | | N° | Q mm | | | | | |
| 16 | 15.89 | 7 | 1.70 | 5.1 | 2.840 | 1.8018 | 44 | 110 |
| 25 | 24.25 | 7 | 2.10 | 6.3 | 4.170 | 1.1808 | 67 | 145 |
| 35 | 34.46 | 7 | 2.50 | 7.5 | 5.740 | 0.8332 | 94 | 180 |
| 50 | 49.48 | 7 | 3.00 | 9.0 | 7.950 | 0.5786 | 135 | 225 |
| 50 | 48.36 | 19 | 1.80 | 9.0 | 8.440 | 0.5950 | 133 | 225 |
| 70 | 65.82 | 19 | 2.10 | 10.5 | 11.250 | 0.4371 | 181 | 270 |
| 95 | 93.27 | 19 | 2.50 | 12.5 | 15.650 | 0.3085 | 256 | 340 |
| 120 | 117.00 | 19 | 2.80 | 14.0 | 18.750 | 0.2459 | 322 | 390 |
| 150 | 147.10 | 37 | 2.25 | 15.7 | 25.250 | 0.1961 | 406 | 455 |
| 185 | 181.60 | 37 | 2.50 | 17.5 | 30.450 | 0.1587 | 501 | 520 |
| 240 | 242.50 | 61 | 2.25 | 20.2 | 39.350 | 0.1192 | 670 | 625 |
| 300 | 299.40 | 61 | 2.50 | 22.5 | 47.550 | 0.0965 | 827 | 710 |
| 400 | 400.10 | 61 | 2.89 | 26.0 | 60.700 | 0.0722 | 1105 | 855 |
| 500 | 499.80 | 61 | 3.23 | 29.1 | 74.500 | 0.0578 | 1381 | 990 |
| 625 | 626.30 | 91 | 2.96 | 32.6 | 95.000 | 0.0462 | 1733 | 1140 |
| 800 | 802.10 | 91 | 3.35 | 36.8 | 118.200 | 0.0361 | 2219 | 1340 |
| 1000 | 999.70 | 91 | 3.74 | 41.1 | 145.500 | 0.0290 | 2766 | 1540 |

BS 215

| Code | Section mm ² | | Stranding | | Overall Diameter mm | Rated Strength N | Electrical Resistance Ohms/Km | Conductor Weight kg/km |
|-----------|-------------------------|----------|-----------|------|---------------------|------------------|-------------------------------|------------------------|
| | Nominal | Teorical | N° | Q mm | | | | |
| MIDGE | 22 | 23.33 | 7 | 2.06 | 6.18 | 3.990 | 1.22700 | 64 |
| ANT | 50 | 52.83 | 7 | 3.10 | 9.30 | 8.280 | 0.54190 | 145 |
| FLY | 60 | 63.55 | 7 | 3.40 | 10.20 | 9.900 | 0.45050 | 174 |
| WASP | 100 | 106.00 | 7 | 4.39 | 13.17 | 16.000 | 0.27020 | 290 |
| HORNET | 150 | 157.60 | 19 | 3.25 | 16.25 | 25.700 | 0.18250 | 434 |
| CHARFER | 200 | 213.20 | 19 | 3.78 | 18.90 | 35.400 | 0.13490 | 587 |
| COCKROACH | 250 | 265.70 | 19 | 4.22 | 21.10 | 40.400 | 0.10830 | 731 |
| BUTTERFLY | 300 | 322.70 | 19 | 4.65 | 23.25 | 48.750 | 0.08916 | 888 |
| CENTIPEDE | 400 | 415.20 | 37 | 3.78 | 26.46 | 63.100 | 0.06944 | 1145 |

UNE 21.018

| Code | Section mm ² | Stranding | | Overall Diameter mm | Rated Strength N | Electrical Resistance Ohms/Km | Conductor Weight kg/km |
|-------|-------------------------|-----------|------|---------------------|------------------|-------------------------------|------------------------|
| | | N° | Q mm | | | | |
| L-28 | 27.8 | 7 | 2.25 | 6.45 | 5.000 | 1.0285 | 76.2 |
| L-40 | 43.1 | 7 | 2.80 | 8.40 | 7.300 | 0.6641 | 118.0 |
| L-56 | 54.6 | 7 | 3.15 | 9.45 | 9.000 | 0.5247 | 149.3 |
| L-80 | 75.5 | 19 | 2.25 | 11.25 | 13.600 | 0.3807 | 208.0 |
| L-110 | 117.0 | 19 | 2.80 | 14.00 | 19.700 | 0.2458 | 322.0 |
| L-145 | 148.1 | 19 | 3.15 | 15.75 | 24.500 | 0.1942 | 407.0 |
| L-180 | 188.1 | 19 | 3.55 | 17.75 | 30.400 | 0.1529 | 517.0 |
| L-280 | 279.3 | 37 | 3.10 | 21.70 | 46.100 | 0.1032 | 770.0 |
| L-400 | 381.4 | 61 | 2.82 | 25.38 | 64.200 | 0.0758 | 1053.0 |
| L-450 | 454.5 | 61 | 3.08 | 27.72 | 75.500 | 0.0635 | 1256.0 |
| L-550 | 547.3 | 61 | 3.38 | 30.42 | 89.700 | 0.0527 | 1512.0 |
| L-630 | 638.3 | 61 | 3.65 | 32.85 | 103.500 | 0.0452 | 1763.0 |

Basic Technical Data of Stranded Conductors

| Number of Wires AL | Final Modules of Elasticity | | Coefficient of Linear Expansion | |
|--------------------|-----------------------------|-----------------------|---------------------------------|--------------------------|
| | Kg/mm ² | Lb/in ² | 1/C° | 1/F° |
| 7 | 6000 | 8.5 x 10 ⁶ | 23.0 x 10 ⁻⁶ | 12.8 x 10 ^{-6P} |
| 19 | 5700 | 8.1 x 10 ⁶ | | |
| 37 | 5700 | 8.1 x 10 ⁶ | | |
| 61 | 5500 | 7.8 x 10 ⁶ | | |
| 91 | 5500 | 7.8 x 10 ⁶ | | |

The information contained within this datasheet is for guidance only. When selecting accessories such as cleats, glands, etc please note that actual cable dimensions may vary due to manufacturing tolerances.