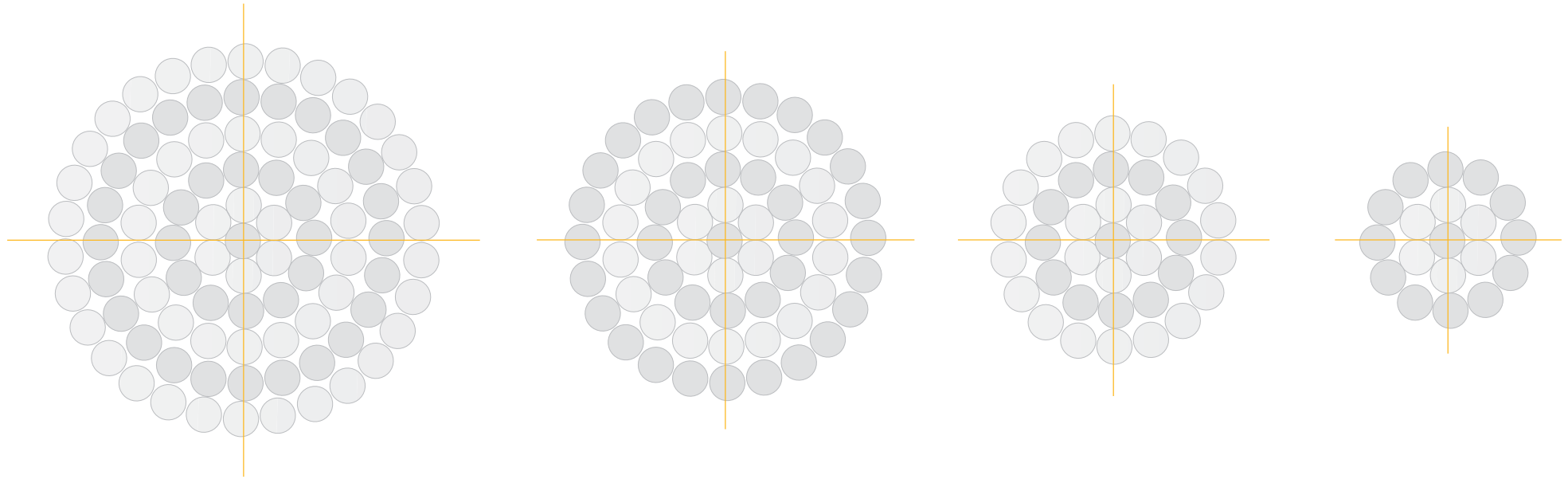




All Aluminium Conductors

This conductor is also known as aluminium stranded conductor. It is manufactured from electrolytically refined aluminium, having a purity of minimum 99.7% AAC is used mainly in urban areas and 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. These conductors are also used extensively in costal areas as it has a very high degree of corrosion resistance.







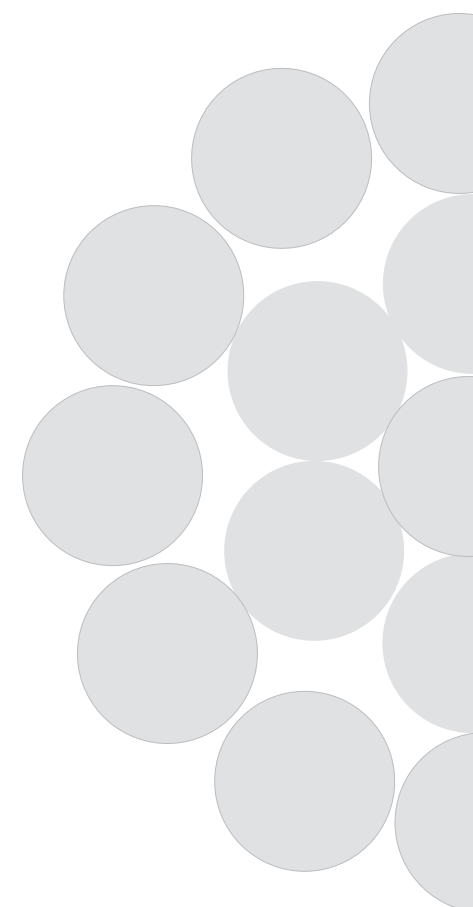
All Aluminium Conductors

TS EN 50182 Type AL1 Turkey / TS IEC 61089

| Conductor Size | | Code Words | No. of Wires | Diameter | | Mass per Unit Length kg/km | Rated Strength kg | DC Resistance Ω / km | Current Carrying Capacity A | Packing | |
|----------------|-----------------|------------|--------------|----------|-----------|-------------------------------|----------------------|--------------------------------|--------------------------------|-----------|--------|
| Kcmil or AWG | mm ² | | | Wire | Conductor | | | | | Reel Type | Length |
| | | | | mm | mm | | | | | | |
| 4 | 21,14 | Rose | 7 | 1,96 | 5,88 | 57,8 | 403 | 1,356 | 145 | R-100 | 10.000 |
| 3 | 26,6 | Lily | 7 | 2,2 | 6,6 | 72,8 | 495 | 1,077 | 160 | R-100 | 8.000 |
| 1 | 42,49 | Pansy | 7 | 2,78 | 8,34 | 116,4 | 725 | 0,674 | 225 | R-100 | 5.000 |
| 1/0 | 53,48 | Poppy | 7 | 3,12 | 9,36 | 146,4 | 888 | 0,535 | 260 | R-100 | 4.000 |
| 2/0 | 67,14 | Aster | 7 | 3,5 | 10,5 | 184,4 | 1115 | 0,425 | 305 | R-100 | 3.000 |
| 3/0 | 84,91 | Phlox | 7 | 3,93 | 11,79 | 232,5 | 1369 | 0,337 | 350 | R-100 | 2.400 |
| 4/0 | 107,38 | Oxlip | 7 | 4,42 | 13,26 | 294 | 1732 | 0,266 | 410 | R-100 | 1.900 |

ASTM - B 231 METRIC UNITS

| Conductor Size | | Code Words | No. of Wires | Diameter | | Mass per Unit Length kg/km | Rated Strength kN | DC Resistance Ω / km |
|----------------|-----------------|-------------|--------------|----------|-----------|-------------------------------|----------------------|-------------------------|
| Kcmil or AWG | mm ² | | | Wire | Conductor | | | |
| | | | | mm | mm | | | |
| 4 | 21,1 | Rose | 7 | 1,96 | 5,88 | 58,2 | 3,91 | 1,364 |
| 2 | 33,6 | Iris | 7 | 2,47 | 7,41 | 92,6 | 5,99 | 0,858 |
| 1 | 42,4 | Pansy | 7 | 2,78 | 8,34 | 116,6 | 7,3 | 0,680 |
| 1/0 | 53,5 | Poppy | 7 | 3,12 | 9,36 | 147,2 | 8,84 | 0,539 |
| 2/0 | 67,4 | Aster | 7 | 3,5 | 10,5 | 185,7 | 11,1 | 0,428 |
| 3/0 | 85 | Phlox | 7 | 3,93 | 11,79 | 233,9 | 13,5 | 0,339 |
| 4/0 | 107,2 | Oxlip | 7 | 4,42 | 13,26 | 295,2 | 17 | 0,269 |
| 250 | 126,7 | Valerian | 19 | 2,91 | 14,55 | 348,6 | 20,7 | 0,228 |
| 250 | 126,7 | Sneezewort | 7 | 4,8 | 14,4 | 348,8 | 20,1 | 0,228 |
| 266,8 | 135,2 | Laurel | 19 | 3,01 | 15,05 | 372,2 | 22,1 | 0,213 |
| 266,8 | 135,2 | Daisy | 7 | 4,96 | 14,88 | 372,3 | 21,4 | 0,213 |
| 300 | 152 | Peony | 19 | 3,19 | 15,95 | 418,3 | 24,3 | 0,190 |
| 336,4 | 170,5 | Tulip | 19 | 3,38 | 16,9 | 469,5 | 27,3 | 0,169 |
| 350 | 177,3 | Daffodil | 19 | 3,45 | 17,25 | 487,9 | 28,4 | 0,163 |
| 397,5 | 201,4 | Canna | 19 | 3,67 | 18,35 | 554,9 | 31,6 | 0,143 |
| 450 | 228 | Goldentuft | 19 | 3,91 | 19,55 | 627,6 | 35 | 0,126 |
| 477 | 241,7 | Syringa | 37 | 2,88 | 20,16 | 664,8 | 38,6 | 0,119 |
| 477 | 241,7 | Cosmos | 19 | 4,02 | 20,1 | 664,8 | 37 | 0,119 |
| 500 | 253,3 | Hyacinth | 37 | 2,95 | 20,65 | 696,8 | 40,5 | 0,114 |
| 500 | 253,3 | Zinnia | 19 | 4,12 | 20,6 | 697,1 | 38,9 | 0,114 |
| 556,5 | 282 | Mistletoe | 37 | 3,12 | 21,84 | 775,7 | 44,3 | 0,102 |
| 556,5 | 282 | Dahlia | 19 | 4,35 | 21,75 | 775,8 | 43,3 | 0,102 |
| 600 | 304 | Meadowsweet | 37 | 3,23 | 22,61 | 836,3 | 47,5 | 0,095 |
| 636 | 322,3 | Orchid | 37 | 3,33 | 23,31 | 886,9 | 50,4 | 0,089 |





AAC All Aluminium Conductors

ASTM - B 231 METRIC UNITS

| Conductor Size | | Code Words | No. of Wires | Diameter | | Mass per Unit Length | Rated Strength | DC Resistance |
|----------------|-----------------|------------|--------------|----------|-----------|----------------------|----------------|---------------|
| Kcmil or AWG | mm ² | | | Wire | Conductor | | | |
| | | | | mm | mm | kg/km | kN | Ω / km |
| 650 | 329,4 | Heuchera | 37 | 3,37 | 23,59 | 907,4 | 51,7 | 0,088 |
| 700 | 354,7 | Flag | 61 | 2,72 | 24,48 | 975,8 | 57,1 | 0,081 |
| 700 | 354,7 | Verbena | 37 | 3,49 | 24,43 | 975,7 | 55,4 | 0,081 |
| 715,5 | 362,6 | Nasturtium | 61 | 2,75 | 24,75 | 998,5 | 58,4 | 0,080 |
| 715,5 | 362,6 | Violet | 37 | 3,53 | 24,71 | 998,5 | 56,7 | 0,080 |
| 750 | 380 | Cattail | 61 | 2,82 | 25,38 | 1046 | 60,3 | 0,076 |
| 750 | 380 | Petunia | 37 | 3,62 | 25,34 | 1046 | 58,6 | 0,076 |
| 795 | 402,8 | Lilac | 61 | 2,9 | 26,1 | 1110 | 63,8 | 0,072 |
| 795 | 402,8 | Arbutus | 37 | 3,72 | 26,04 | 1109 | 61,8 | 0,072 |
| 900 | 456 | Snapdragon | 61 | 3,09 | 27,81 | 1256 | 70,8 | 0,063 |
| 900 | 456 | Cockscomb | 37 | 3,96 | 27,72 | 1256 | 68,4 | 0,063 |
| 954 | 483,4 | Goldenrod | 61 | 3,18 | 28,62 | 1331 | 75 | 0,060 |
| 954 | 483,4 | Magnolia | 37 | 4,08 | 28,56 | 1331 | 72,6 | 0,060 |
| 1000 | 506,7 | Camellia | 61 | 3,25 | 29,25 | 1394 | 78,3 | 0,057 |
| 1000 | 506,7 | Hawkweed | 37 | 4,18 | 29,26 | 1395 | 76,2 | 0,057 |
| 1033,5 | 523,7 | Larkspur | 61 | 3,31 | 29,79 | 1442 | 81,3 | 0,055 |
| 1033,5 | 523,7 | Bluebell | 37 | 4,25 | 29,75 | 1441 | 78,8 | 0,055 |
| 1113 | 564 | Marigold | 61 | 3,43 | 30,87 | 1553 | 87,3 | 0,051 |
| 1192,5 | 604,2 | Hawthorn | 61 | 3,55 | 31,95 | 1662 | 93,5 | 0,048 |
| 1272 | 644,5 | Narcissus | 61 | 3,67 | 33,03 | 1774 | 98,1 | 0,045 |
| 1351 | 694,8 | Columbine | 61 | 3,78 | 34,02 | 1884 | 104 | 0,041 |
| 1431 | 725,1 | Carnation | 61 | 3,89 | 35,01 | 1997 | 108 | 0,040 |
| 1510,5 | 765,4 | Gladiolus | 61 | 4 | 36 | 2108 | 114 | 0,038 |
| 1590 | 805,7 | Coreopsis | 61 | 4,1 | 36,9 | 2216 | 120 | 0,036 |
| 1750 | 886,7 | Jessamine | 61 | 4,3 | 38,7 | 2442 | 132 | 0,033 |
| 2000 | 1013 | Cowslip | 91 | 3,77 | 41,47 | 2787 | 153 | 0,028 |
| 2250 | 1140 | Sagebrush | 91 | 3,99 | 43,89 | 3166 | 167 | 0,026 |
| 2500 | 1267 | Lupine | 91 | 4,21 | 46,31 | 3519 | 186 | 0,023 |
| 2750 | 1393 | Bitterroot | 91 | 4,42 | 48,62 | 3872 | 205 | 0,021 |

ASTM - B 231

| Code | Size (AWG/ Kcmil) | Stranding | | Diameter (ins.) | | Cross Sectional Area (Sq. ins.) | Weight per 1000 ft.(lbs.) | Rated Strength (lbs.) | Resistance OHMS / 1000 ft. | | Allowable Ampacity +(Amps) |
|------------|-------------------|-------------|-------|-----------------|------------------|---------------------------------|---------------------------|-----------------------|----------------------------|------------|----------------------------|
| | | No.of Wires | Class | Individual Wire | Overall Diameter | | | | D.C.@ 20°C | A.C.@ 75°C | |
| Rose | 4 | 7 | A | 0,077 | 0,232 | 0,033 | 39 | 881 | 0,414 | 0,506 | 138 |
| Iris | 2 | 7 | AAA | 0,097 | 0,292 | 0,052 | 62 | 1.350 | 0,26 | 0,318 | 185 |
| Pansy | 1 | 7 | AAA | 0,109 | 0,328 | 0,066 | 78 | 1.640 | 0,207 | 0,252 | 214 |
| Poppy | 1/0 | 7 | AAA | 0,123 | 0,368 | 0,083 | 99 | 1.990 | 0,164 | 0,2 | 247 |
| Aster | 2/0 | 7 | AAA | 0,138 | 0,414 | 0,105 | 125 | 2.510 | 0,13 | 0,159 | 286 |
| Pholox | 3/0 | 7 | AAA | 0,155 | 0,464 | 0,132 | 157 | 3.040 | 0,103 | 0,126 | 331 |
| Oxlip | 4/0 | 7 | AAA | 0,174 | 0,522 | 0,166 | 198 | 6.830 | 0,082 | 0,100 | 393 |
| Sneezewort | 250 | 7 | A | 0,189 | 0,567 | 0,196 | 234 | 4.520 | 0,069 | 0,085 | 425 |
| Valerian | 250 | 19 | A | 0,115 | 0,574 | 0,196 | 234 | 4.660 | 0,069 | 0,085 | 425 |
| Daisy | 266,8 | 7 | AA | 0,195 | 0,586 | 0,210 | 250 | 4.830 | 0,065 | 0,079 | 443 |
| Laurel | 266,8 | 19 | A | 0,119 | 0,593 | 0,210 | 250 | 4.970 | 0,065 | 0,079 | 444 |
| Peony | 300 | 19 | A | 0,126 | 0,629 | 0,233 | 281 | 5.480 | 0,058 | 0,071 | 478 |
| Tulip | 336,4 | 19 | A | 0,133 | 0,666 | 0,264 | 316 | 6.150 | 0,514 | 0,063 | 513 |
| Daffrodil | 350 | 19 | A | 0,136 | 0,679 | 0,275 | 328 | 6.390 | 0,494 | 0,061 | 526 |
| Canna | 397,5 | 19 | AAA | 0,145 | 0,724 | 0,312 | 373 | 7.110 | 0,044 | 0,053 | 570 |
| Goldentuft | 450 | 19 | AA | 0,154 | 0,769 | 0,353 | 422 | 7.890 | 0,038 | 0,043 | 616 |



AAC All Aluminium Conductors

ASTM - B 231

| Code | Size (AWG/ Kcmil) | Stranding | | Diameter (ins.) | | Cross Sectional Area (Sq. ins.) | Weight per 1000 ft.(lbs.) | Rated Strength (lbs.) | Resistance OHMS / 1000 ft. | | Allowable Ampacity +(Amps) |
|-------------|-------------------|--------------|-------|-----------------|------------------|---------------------------------|---------------------------|-----------------------|----------------------------|------------|----------------------------|
| | | No. of Wires | Class | Individual Wire | Overall Diameter | | | | D.C.@ 20°C | A.C.@ 75°C | |
| Cosmos | 477 | 19 | AA | 0,158 | 0,793 | 0,375 | 447 | 8.360 | 0,036 | 0,045 | 639 |
| Syringa | 477 | 37 | A | 0,114 | 0,795 | 0,375 | 447 | 8.690 | 0,036 | 0,045 | 639 |
| Zinnia | 500 | 19 | AA | 0,162 | 0,811 | 0,393 | 469 | 8.760 | 0,035 | 0,043 | 658 |
| Hyacinith | 500 | 37 | A | 0,116 | 0,813 | 0,393 | 468 | 9,110 | 0,035 | 0,043 | 958 |
| Dahlia | 556,5 | 19 | AA | 0,171 | 0,856 | 0,437 | 521 | 9,750 | 0,031 | 0,038 | 703 |
| Misteltoe | 556,5 | 37 | AAA | 0,123 | 0,858 | 0,437 | 521 | 9,940 | 0,031 | 0,308 | 704 |
| Meadowsweet | 600 | 37 | AAA | 0,127 | 0,891 | 0,471 | 562 | 10,700 | 0,029 | 0,036 | 738 |
| Orchid | 636 | 37 | AAA | 0,131 | 0,918 | 0,500 | 596 | 11,400 | 0,027 | 0,036 | 765 |
| Heuchera | 650 | 37 | AA | 0,133 | 0,928 | 0,510 | 610 | 11,600 | 0,027 | 0,033 | 775 |
| Verbena | 700 | 37 | AA | 0,138 | 0,963 | 0,550 | 656 | 12,500 | 0,025 | 0,031 | 812 |
| Flag | 700 | 61 | A | 0,107 | 0,964 | 0,550 | 656 | 12,400 | 0,025 | 0,031 | 812 |
| Violet | 715,5 | 37 | AA | 0,139 | 0,974 | 0,562 | 671 | 12,800 | 0,024 | 0,030 | 823 |
| Nasturtium | 715,5 | 61 | A | 0,108 | 0,975 | 0,562 | 671 | 13,100 | 0,024 | 0,030 | 823 |

ASTM - B 231

| Code | Size (AWG/ Kcmil) | Stranding | | Diameter (ins.) | | Cross Sectional Area (Sq. ins.) | Weight per 1000 ft.(lbs.) | Rated Strength (lbs.) | Resistance OHMS / 1000 ft. | | Allowable Ampacity +(Amps) |
|------------|-------------------------|-------------|-------|--------------------|---------------------|---------------------------------------|---------------------------------|--------------------------|-------------------------------|---------------|----------------------------------|
| | | No.of Wires | Class | Individual Wire | Overall Diameter | | | | D.C.@ 20°C | A.C.@ 75°C | |
| Petuna | 750 | 37 | AA | 0,142 | 0,997 | 0,589 | 703 | 13.100 | 0,023 | 0,029 | 847 |
| Cattair | 750 | 61 | A | 0,111 | 0,998 | 0,589 | 703 | 13.500 | 0,023 | 0,029 | 847 |
| Arbutus | 795 | 37 | AA | 0,147 | 1,026 | 0,624 | 745 | 13.900 | 0,022 | 0,027 | 878 |
| Lilac | 795 | 61 | A | 0,114 | 1,028 | 0,624 | 746 | 14.300 | 0,022 | 0,027 | 879 |
| Cockscomb | 900 | 37 | AA | 0,156 | 1,093 | 0,707 | 844 | 15.400 | 0,019 | 0,024 | 948 |
| Snapdragon | 900 | 61 | A | 0,122 | 1,094 | 0,707 | 844 | 15.900 | 0,019 | 0,024 | 948 |
| Magnolia | 954 | 37 | AA | 0,161 | 1,124 | 0,749 | 895 | 16.400 | 0,018 | 0,023 | 982 |
| Goldenrod | 954 | 61 | A | 0,125 | 1,126 | 0,749 | 895 | 16.900 | 0,018 | 0,023 | 983 |
| Hawkweed | 1000 | 37 | AA | 0,164 | 1,15 | 0,785 | 937 | 17.200 | 0,017 | 0,022 | 1010 |
| Camelia | 1000 | 61 | A | 0,128 | 1,152 | 0,785 | 937 | 17.700 | 0,017 | 0,022 | 1011 |
| Bluebell | 1033,5 | 37 | AA | 0,167 | 1,17 | 0,812 | 968 | 17.700 | 0,017 | 0,021 | 1031 |
| Larkspur | 1033,5 | 61 | A | 0,130 | 1,172 | 0,812 | 969 | 18.300 | 0,017 | 0,021 | 1032 |
| Marigold | 1113 | 61 | AAA | 0,135 | 1,216 | 0,874 | 1044 | 19.700 | 0,016 | 0,020 | 1079 |
| Hawthorn | 1192,5 | 61 | AAA | 0,140 | 1,258 | 0,937 | 1117 | 21.100 | 0,015 | 0,018 | 1124 |
| Naricssus | 1272 | 61 | AAA | 0,144 | 1,3 | 0,999 | 1192 | 22.000 | 0,014 | 0,017 | 1169 |
| Columbune | 1351,5 | 61 | AAA | 0,149 | 1,34 | 1 061 | 1266 | 23.400 | 0,013 | 0,016 | 1212 |



AAC All Aluminium Conductors

ASTM - B 231

| Code | Size (AWG/ Kcmil) | Stranding | | Diameter (ins.) | | Cross Sectional Area (Sq. ins.) | Weight per 1000 ft.(lbs.) | Rated Strength (lbs.) | Resistance OHMS / 1000 ft. | | Allowable Ampacity +(Amps) |
|------------|-------------------|--------------|-------|-----------------|------------------|---------------------------------|---------------------------|-----------------------|----------------------------|------------|----------------------------|
| | | No. of Wires | Class | Individual Wire | Overall Diameter | | | | D.C.@ 20°C | A.C.@ 75°C | |
| Carnation | 1431 | 61 | AAA | 0,153 | 1,379 | 1,124 | 1342 | 24.300 | 0,012 | 0,016 | 1253 |
| Gladiolus | 1510,5 | 61 | AAA | 0,157 | 1,417 | 1,186 | 1416 | 25.600 | 0,014 | 0,015 | 1294 |
| Coreopsis | 1590 | 61 | AA | 0,161 | 1,454 | 1,249 | 1489 | 27.000 | 0,011 | 0,014 | 1333 |
| Jessamine | 1750 | 61 | AA | 0,169 | 1,525 | 1,374 | 1641 | 29.700 | 0,010 | 0,013 | 1408 |
| Cowslip | 2000 | 91 | A | 0,148 | 1,63 | 1,271 | 1873 | 34.200 | 0,009 | 0,012 | 1518 |
| Sagebrush | 2250 | 91 | A | 0,157 | 1,729 | 1,767 | 2138 | 37.500 | 0,008 | 0,011 | 1612 |
| Lupine | 2500 | 91 | A | 0,166 | 1,823 | 1,964 | 2365 | 41.900 | 0,007 | 0,010 | 1706 |
| Bitterroot | 2750 | 91 | A | 0,174 | 1,913 | 2,16 | 2602 | 46.100 | 0,006 | 0,009 | 1793 |
| Trilulium | 3000 | 127 | A | 0,154 | 1,996 | 2,356 | 2687 | 50.300 | 0,006 | 0,008 | 1874 |
| Bluebonnet | 3500 | 127 | A | 0,166 | 2,158 | 2,749 | 3344 | 58.700 | 0,005 | 0,008 | 2024 |

EN 50182 Type AL1 Germany / Din 48201

| Old Code | Code | Area | No. of Wires | Diameter | | Mass per Unit Length | Rated Strength | DC Resistance | Final Modulus of Elasticity | Coefficient of Linear Expansion | Current Carrying Capacity |
|----------|----------|-----------------|--------------|----------|-----------|----------------------|----------------|---------------|-----------------------------|---------------------------------|---------------------------|
| | | | | Wire | Conductor | | | | | | |
| | | mm ² | | mm | mm | kg/km | kN | Ω / km | N/mm ² | 1/k | A |
| 16 | 16-AL1 | 15,9 | 7 | 1,7 | 5,1 | 43,4 | 3,02 | 1,799 | 60000 | 2.30E-05 | 110 |
| 25 | 24-AL1 | 24,2 | 7 | 2,1 | 6,3 | 66,3 | 4,36 | 1,179 | 60000 | 2.30E-05 | 145 |
| 35 | 34-AL1 | 34,4 | 7 | 2,5 | 7,5 | 93,9 | 6,01 | 0,832 | 60000 | 2.30E-05 | 180 |
| 50 | 49-AL1 | 49,5 | 7 | 3 | 9 | 135,2 | 8,41 | 0,578 | 60000 | 2.30E-05 | 225 |
| 50 | 48-AL1 | 48,3 | 19 | 1,8 | 9 | 132,9 | 8,94 | 0,594 | 57000 | 2.30E-05 | 225 |
| 70 | 66-AL1 | 65,8 | 19 | 2,1 | 10,5 | 180,9 | 11,85 | 0,437 | 57000 | 2.30E-05 | 270 |
| 95 | 93-AL1 | 93,3 | 19 | 2,5 | 12,5 | 256,3 | 16,32 | 0,308 | 57000 | 2.30E-05 | 340 |
| 120 | 117-AL1 | 117 | 19 | 2,8 | 14 | 321,5 | 19,89 | 0,246 | 57000 | 2.30E-05 | 390 |
| 150 | 147-AL1 | 147,1 | 37 | 2,25 | 15,8 | 405,7 | 26,48 | 0,196 | 57000 | 2.30E-05 | 455 |
| 185 | 182-AL1 | 181,6 | 37 | 2,5 | 17,5 | 500,9 | 31,78 | 0,159 | 57000 | 2.30E-05 | 520 |
| 240 | 243-AL1 | 242,5 | 61 | 2,25 | 20,3 | 671,1 | 43,66 | 0,119 | 55000 | 2.30E-05 | 625 |
| 300 | 299-AL1 | 299,4 | 61 | 2,5 | 22,5 | 828,5 | 52,4 | 0,097 | 55000 | 2.30E-05 | 710 |
| 400 | 400-AL1 | 400,1 | 61 | 2,89 | 26 | 1107,1 | 68,02 | 0,072 | 55000 | 2.30E-05 | 855 |
| 500 | 500-AL1 | 499,8 | 61 | 3,23 | 29,1 | 1382,9 | 82,47 | 0,058 | 55000 | 2.30E-05 | 990 |
| 625 | 626-AL1 | 626,2 | 91 | 2,96 | 32,6 | 1739,7 | 106,45 | 0,046 | 55000 | 2.30E-05 | 1140 |
| 800 | 802-AL1 | 802,1 | 91 | 3,35 | 36,9 | 2228,3 | 132,34 | 0,036 | 55000 | 2.30E-05 | 1340 |
| 1000 | 1000-AL1 | 999,7 | 91 | 3,74 | 41,1 | 2777,3 | 159,95 | 0,029 | 55000 | 2.30E-05 | 1540 |



AAC All Aluminium Conductors

EN 50182 Type AL1 Finland

| Old Code | Code | Area | No. of Wires | Diameter | | Mass per Unit Length | Rated Strength | DC Resistance |
|----------|----------|-----------------|--------------|----------|-----------|----------------------|----------------|---------------|
| | | mm ² | | Wire | Conductor | | | |
| | | | | mm | mm | | | |
| AAC107 | 107-AL1 | 107,4 | 7 | 4,42 | 13,3 | 293,5 | 17,19 | 0,266 |
| AAC132 | 132-AL1 | 131,6 | 19 | 2,97 | 14,9 | 361,8 | 22,38 | 0,218 |
| AAC201 | 201-AL1 | 201 | 19 | 3,67 | 18,4 | 552,4 | 32,16 | 0,143 |
| AAC638 | 638-AL1 | 368,3 | 61 | 3,65 | 32,9 | 1766 | 102,12 | 0,045 |
| AAC1095 | 1095-AL1 | 1094,7 | 61 | 4,78 | 43 | 3028,7 | 175,14 | 0,026 |

Note: Direction of lay of external layers is right-hand

EN 50182 Type AL1 Norway

| Old Code | Code | Area | No. of Wires | Diameter | | Mass per Unit Length | Rated Strength | DC Resistance |
|------------------|---------|-----------------|--------------|----------|-----------|----------------------|----------------|---------------|
| | | | | Wire | Conductor | | | |
| | | mm ² | | mm | mm | kg/km | kN | Ω / km |
| AL 16 | 25-AL1 | 25,4 | 7 | 2,15 | 6,45 | 69,5 | 4,57 | 1,125 |
| AL 25 | 40-AL1 | 39,8 | 7 | 2,69 | 8,07 | 108,7 | 6,76 | 0,718 |
| AL 35 | 55-AL1 | 55,6 | 7 | 3,18 | 9,54 | 151,9 | 9,17 | 0,514 |
| AL 50 | 79-AL1 | 79,4 | 7 | 3,8 | 11,4 | 217 | 12,7 | 0,36 |
| AL 70 | 111-AL1 | 111,3 | 7 | 4,5 | 13,5 | 304,3 | 17,81 | 0,257 |
| AL 95 | 151-AL1 | 150,9 | 19 | 3,18 | 15,9 | 414,7 | 24,9 | 0,190 |
| AL 120 | 191-AL1 | 191,3 | 19 | 3,58 | 17,9 | 525,6 | 30,6 | 0,150 |
| AL 150 | 239-AL1 | 238,8 | 19 | 4 | 20 | 656,2 | 38,2 | 0,120 |
| AL 185 | 294-AL1 | 293,9 | 37 | 3,18 | 22,3 | 810,4 | 48,49 | 0,098 |
| AL 240 | 381-AL1 | 380,8 | 37 | 3,62 | 25,3 | 1050,2 | 60,93 | 0,076 |
| AL 286 | 454-AL1 | 454,5 | 61 | 3,08 | 27,7 | 1257,5 | 74,99 | 0,064 |
| AL 300 | 477-AL1 | 476,7 | 37 | 4,05 | 28,4 | 1314,5 | 76,26 | 0,061 |
| AL 329 Bluebell | 525-AL1 | 524,9 | 37 | 4,25 | 29,4 | 1447,6 | 83,98 | 0,055 |
| AL 354 Marigold | 564-AL1 | 563,6 | 61 | 3,43 | 30,9 | 1559,5 | 93 | 0,051 |
| AL 380 Hawthorn | 604-AL1 | 603,8 | 61 | 3,55 | 32 | 1670,5 | 96,6 | 0,048 |
| AL 405 Narcissus | 645-AL1 | 645,3 | 61 | 3,67 | 33 | 1785,4 | 103,25 | 0,045 |
| AL 430 Columbine | 685-AL1 | 684,5 | 61 | 3,78 | 34 | 1294 | 109,53 | 0,042 |
| AL 456 Carnation | 725-AL1 | 725 | 61 | 3,89 | 35 | 2005,8 | 115,99 | 0,040 |
| AL 481 Gladiolus | 767-AL1 | 766,5 | 61 | 4 | 36 | 2120,9 | 122,65 | 0,038 |
| AL 506 Coreopsis | 805-AL1 | 805,4 | 61 | 4,1 | 36,9 | 2228,2 | 128,86 | 0,036 |
| AL 573 Solros | 911-AL1 | 910,7 | 61 | 4,36 | 39,2 | 2519,8 | 145,72 | 0,032 |

Note : Direction of lay of external layers is right-hand



AAC All Aluminium Conductors

EN 50182:2001 Type AL1 Spain / UNE 21018

| Old Code | Code | Area | No. of Wires | Diameter | | Mass per Unit Length | Rated Strength | DC Resistance |
|----------|---------|-----------------|--------------|----------|-----------|----------------------|----------------|---------------|
| | | | | Wire | Conductor | | | |
| | | mm ² | | mm | mm | kg/km | kN | Ω / km |
| L28 | 28-AL1 | 27,8 | 7 | 2,25 | 6,75 | 76,1 | 5,01 | 1,027 |
| L40 | 43-AL1 | 43,1 | 7 | 2,8 | 8,4 | 117,8 | 7,33 | 0,663 |
| L56 | 55-AL1 | 54,6 | 7 | 3,15 | 9,45 | 149,1 | 9 | 0,524 |
| L80 | 76-AL1 | 75,5 | 19 | 2,25 | 11,3 | 207,6 | 13,6 | 0,380 |
| L110 | 117-AL1 | 117 | 19 | 2,8 | 14 | 321,5 | 19,89 | 0,246 |
| L145 | 148-AL1 | 148,1 | 19 | 3,15 | 15,8 | 407 | 24,43 | 0,194 |
| L180 | 188-AL1 | 188,1 | 19 | 3,55 | 17,8 | 516,9 | 30,09 | 0,153 |
| L280 | 279-AL1 | 279,3 | 37 | 3,1 | 21,7 | 770,2 | 46,08 | 0,103 |
| L400 | 381-AL1 | 381 | 61 | 2,82 | 25,4 | 1054,1 | 64,77 | 0,076 |
| L450 | 454-AL1 | 454,5 | 61 | 3,08 | 27,7 | 1257,5 | 74,99 | 0,064 |
| L550 | 547-AL1 | 547,3 | 61 | 3,38 | 30,4 | 1514,4 | 90,31 | 0,053 |
| L630 | 638-AL1 | 683,3 | 61 | 3,65 | 32,9 | 1766 | 102,12 | 0,045 |

Note : Direction of lay of external layers is right-hand

EN 50182 Type AL1 United Kingdom / BS-215-Part 1

| Old Code | Code | Area | No. of Wires | Diameter | | Mass per Unit Length | Rated Strength | DC Resistance |
|-------------|---------|-----------------|--------------|----------|-----------|----------------------|----------------|---------------|
| | | | | Wire | Conductor | | | |
| | | mm ² | | mm | mm | kg/km | kN | Ω / km |
| Midge | 23-AL1 | 23,3 | 7 | 2,06 | 6,18 | 63,8 | 4,2 | 1,225 |
| Gnat | 27-AL1 | 26,9 | 7 | 2,21 | 6,63 | 73,4 | 4,83 | 1,064 |
| Mosquito | 37-AL1 | 36,9 | 7 | 2,59 | 7,77 | 100,8 | 6,27 | 0,775 |
| Ladybird | 43-AL1 | 42,8 | 7 | 2,79 | 8,37 | 117 | 7,28 | 0,668 |
| Ant | 53-AL1 | 52,8 | 7 | 3,1 | 9,3 | 144,4 | 8,72 | 0,541 |
| Fly | 64-AL1 | 63,6 | 7 | 3,4 | 10,2 | 173,7 | 10,49 | 0,450 |
| Bluebottle | 74-AL1 | 73,6 | 7 | 3,66 | 11 | 201,3 | 11,78 | 0,388 |
| Earwig | 79-AL1 | 78,6 | 7 | 3,78 | 11,3 | 214,7 | 15,57 | 0,364 |
| Grasshopper | 84-AL1 | 84,1 | 7 | 3,91 | 11,7 | 229,7 | 13,45 | 0,34 |
| Clegg | 96-AL1 | 95,6 | 7 | 4,17 | 12,5 | 261,3 | 15,3 | 0,290 |
| Wasp | 106-AL1 | 106 | 19 | 4,39 | 13,2 | 289,6 | 16,95 | 0,270 |
| Beetle | 106-AL1 | 106,4 | 7 | 2,67 | 13,4 | 292,4 | 18,08 | 0,270 |
| Bee | 132-AL1 | 132 | 19 | 4,9 | 14,7 | 360,8 | 21,12 | 0,217 |
| Hornet | 158-AL1 | 157,6 | 19 | 3,25 | 16,3 | 433,2 | 26,01 | 0,182 |
| Caterpillar | 186-AL1 | 185,9 | 19 | 3,53 | 17,7 | 511,1 | 29,75 | 0,155 |
| Chafer | 213-AL1 | 213,2 | 19 | 3,78 | 18,9 | 586 | 34,12 | 0,135 |
| Spider | 238-AL1 | 237,6 | 19 | 3,99 | 20 | 652,9 | 38,01 | 0,121 |
| Cockroach | 266-AL1 | 265,7 | 19 | 4,22 | 21,1 | 730,4 | 42,52 | 0,108 |
| Butterfly | 323-AL1 | 322,7 | 19 | 4,65 | 23,3 | 886,8 | 51,63 | 0,089 |
| Moth | 373-AL1 | 373,1 | 19 | 5 | 25 | 1025,3 | 59,69 | 0,077 |
| Drone | 372-AL1 | 372,4 | 37 | 3,58 | 25,1 | 1027,1 | 59,59 | 0,077 |
| Centipede | 415-AL1 | 415,2 | 37 | 3,78 | 26,5 | 1045,1 | 66,43 | 0,070 |
| Maybug | 486-AL1 | 486,1 | 37 | 4,09 | 28,6 | 1340,6 | 77,78 | 0,059 |
| Scorpion | 530-AL1 | 529,8 | 37 | 4,27 | 29,9 | 1461,2 | 84,77 | 0,054 |
| Cicada | 628-AL1 | 628,3 | 37 | 4,65 | 32,6 | 1732,9 | 100,54 | 0,046 |

Note: Direction of lay of external layer is right-hand(Z).



AAC All Aluminium Conductors

EN 50182:2001 Type AL1 Sweden

| Old Code | Code | Area | No. of Wires | Diameter | | Mass per Unit Length | Rated Strength | DC Resistance |
|-----------|---------|-----------------|--------------|----------|-----------|----------------------|----------------|---------------|
| | | | | Wire | Conductor | | | |
| | | mm ² | | mm | mm | kg/km | kN | Ω / km |
| Vitsippa | 62-AL1 | 62,4 | 7 | 3,37 | 10,1 | 170,6 | 10,3 | 0,458 |
| Kattfot | 99-AL1 | 99,3 | 7 | 4,25 | 12,8 | 271,4 | 15,89 | 0,288 |
| Gullviva | 159-AL1 | 158,6 | 19 | 3,26 | 16,3 | 435,9 | 26,17 | 0,181 |
| Vallmo | 241-AL1 | 241,2 | 19 | 4,02 | 20,1 | 662,8 | 38,58 | 0,119 |
| Renfana | 330-AL1 | 330 | 37 | 3,37 | 23,6 | 910,2 | 54,45 | 0,087 |
| Akleja | 454-AL1 | 454,5 | 61 | 3,08 | 27,7 | 1257,5 | 74,99 | 0,064 |
| Hampdan | 594-AL1 | 593,6 | 61 | 3,52 | 31,7 | 1624,4 | 94,98 | 0,049 |
| Stormhatt | 774-AL1 | 774,2 | 61 | 4,02 | 36,2 | 2142,1 | 123,88 | 0,037 |
| Solros | 911-AL1 | 910,7 | 61 | 4,36 | 39,2 | 2519,8 | 145,72 | 0,032 |

Note: Direction of lay of external layer is right-hand(Z)

GOST/ГОСТ-839-80 Grade A

| Code | Area | No. of Wires | Diameter | | DC Resistance | Rated Strength | Mass per Unit Length |
|-------|-----------------|--------------|----------|-----------|---------------|----------------|----------------------|
| | mm ² | | Wire | Conductor | | | |
| | | | mm | mm | | | |
| (16) | 15,9 | 7 | 1,7 | 5,1 | 1,801 | 3021 | 43 |
| (25) | 24,9 | 7 | 2,13 | 6,4 | 1,150 | 4500 | 68 |
| (35) | 34,3 | 7 | 2,5 | 7,5 | 0,835 | 5913 | 94 |
| 40 | 40 | 7 | 2,7 | 8,09 | 0,716 | 6800 | 109 |
| (50) | 49,5 | 7 | 3 | 9 | 0,578 | 8198 | 135 |
| 63 | 63 | 7 | 3,39 | 10,16 | 0,454 | 10390 | 172,3 |
| (70) | 69,3 | 7 | 3,55 | 10,7 | 0,413 | 11288 | 189 |
| (95) | 92,4 | 7 | 4,1 | 12,3 | 0,311 | 14784 | 252 |
| 100 | 100 | 19 | 2,59 | 12,94 | 0,288 | 17000 | 274,9 |
| (120) | 117 | 19 | 2,8 | 14 | 0,246 | 19890 | 321 |
| 125 | 125 | 19 | 2,89 | 14,47 | 0,230 | 21250 | 343,6 |
| (150) | 148 | 19 | 3,15 | 15,8 | 0,194 | 24420 | 406 |
| 160 | 160 | 19 | 3,27 | 16,37 | 0,180 | 26400 | 439,8 |
| (185) | 182,8 | 19 | 3,5 | 17,5 | 0,157 | 29832 | 502 |
| 200 | 200 | 19 | 3,66 | 18,3 | 0,144 | 32000 | 549,7 |
| (240) | 238,7 | 19 | 4 | 20 | 0,121 | 38192 | 655 |

Note : Direction of lay of external layer is right-hand(Z)



AAC All Aluminium Conductors

GOST/ГОСТ-839-80 Grade A

| Code | Area | No. of Wires | Diameter | | DC Resistance | Rated Strength | Mass per Unit Length |
|-------|-----------------|--------------|----------|-----------|---------------|----------------|----------------------|
| | mm ² | | Wire | Conductor | | | |
| | | | mm | mm | | | |
| 250 | 250 | 19 | 4,09 | 20,47 | 0,115 | 40000 | 687,1 |
| (300) | 288,3 | 37 | 3,15 | 22,1 | 0,1 | 47569 | 794 |
| 315 | 315 | 37 | 3,29 | 23,05 | 0,092 | 51970 | 867,5 |
| (350) | 345,8 | 37 | 3,45 | 24,2 | 0,083 | 57057 | 952 |
| (400) | 389,2 | 37 | 3,66 | 25,6 | 0,074 | 63420 | 1072 |
| (450) | 449,1 | 37 | 3,9 | 27,3 | 0,064 | 71856 | 12060 |
| (500) | 500,4 | 37 | 4,15 | 29,1 | 0,058 | 80000 | 1378 |
| (550) | 544 | 61 | 3,37 | 30,3 | 0,053 | 89760 | 1500 |
| 560 | 560 | 37 | 4,39 | 30,73 | 0,053 | 89600 | 1542,2 |
| (600) | 586,8 | 61 | 3,5 | 31,5 | 0,049 | 95632 | 1618 |
| 630 | 630 | 61 | 3,63 | 32,64 | 0,046 | 100800 | 1738,4 |
| (650) | 641,7 | 61 | 3,66 | 32,9 | 0,045 | 104575 | 1771 |
| (700) | 691,7 | 61 | 3,8 | 34,2 | 0,042 | 112725 | 1902 |
| 710 | 710 | 61 | 3,85 | 34,65 | 0,041 | 113600 | 1959,2 |
| (750) | 747,4 | 61 | 3,95 | 35,6 | 0,039 | 119584 | 2062 |