# AAC

All Aluminum Conductor. Bare.

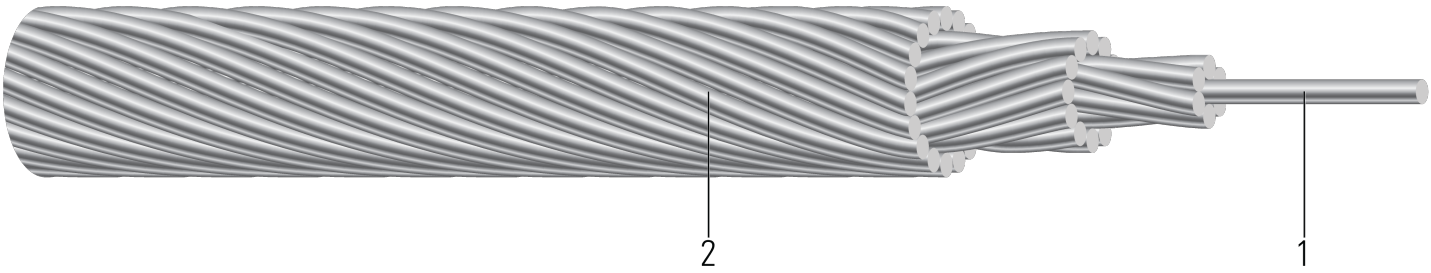



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Aluminum 1350-H19 wires, concentrically stranded.

## APPLICATIONS AND FEATURES:

Classes[1] AA and A are used primarily for overhead transmission and primary and secondary distribution, where ampacity must be maintained and a lighter conductor (compared to ACSR) is desired, and when conductor strength is not a critical factor. Classes B and C are used primarily as bus, apparatus connectors and jumpers, where additional flexibility is required.

[1]Classes refer to stranding and are an indication of relative conductor flexibility, AA being the least flexible, C the most flexible.

## SPECIFICATIONS:

- ASTM B230 Aluminum, 1350-H19 Wire for Electrical Purposes
- ASTM B231 Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors


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## Table 1 – Weights and Measurements

| Stock Number | Code Word | Conductor Size | No. of Wires | Stranding Class | Ind. Wire Dia | Comp Cable | Cross-Sectional Area | Overall Weight |
|---|---|---|---|---|---|---|---|---|
| | | AWG or kcmil | | | inch | inch | sq. inch | lb/1000ft |
| | Peachbell | 6 | 7 | A | 0.0612 | 0.184 | 0.0206 | 25 |
| | Rose | 4 | 7 | A | 0.0772 | 0.232 | 0.0328 | 39 |
| 100834 | Iris | 2 | 7 | AA, A | 0.0974 | 0.292 | 0.0522 | 62 |
| | Pansy | 1 | 7 | AA | 0.1093 | 0.328 | 0.0657 | 78 |
| 100859 | Poppy | 1/0 | 7 | AA, A | 0.1228 | 0.368 | 0.0829 | 99 |
| 100867 | Aster | 2/0 | 7 | AA, A | 0.1379 | 0.414 | 0.1045 | 125 |
| 100875 | Phlox | 3/0 | 7 | AA, A | 0.1548 | 0.464 | 0.1317 | 157 |
| 100883 | Oxlip | 4/0 | 7 | AA, A | 0.1739 | 0.522 | 0.1663 | 198 |
| | Sneezewort | 250 | 7 | AA | 0.189 | 0.567 | 0.1964 | 234 |
| | Valerian | 250 | 19 | A | 0.1147 | 0.574 | 0.1963 | 234 |
| 100891 | Daisy | 266.8 | 7 | AA | 0.1952 | 0.586 | 0.2095 | 250 |
| 100909 | Laurel | 266.8 | 19 | A | 0.1185 | 0.592 | 0.2095 | 250 |
| | Peony | 300 | 19 | A | 0.1257 | 0.628 | 0.2358 | 281 |
| 100917 | Tulip | 336.4 | 19 | A | 0.1331 | 0.665 | 0.2644 | 315 |
| 148122 | Daffodil | 350 | 19 | A | 0.1357 | 0.679 | 0.2748 | 328 |
| 100925 | Canna | 397.5 | 19 | AA, A | 0.1446 | 0.723 | 0.312 | 373 |
| | Goldentuft | 450 | 19 | AA | 0.1539 | 0.769 | 0.3534 | 422 |
| 100933 | Cosmos | 477 | 19 | AA | 0.1584 | 0.792 | 0.3744 | 447 |
| 100958 | Syringa | 477 | 37 | A | 0.1135 | 0.795 | 0.3744 | 447 |
| | Zinnia | 500 | 19 | AA | 0.1622 | 0.811 | 0.3926 | 469 |
| | Hyacinth | 500 | 37 | AA | 0.1162 | 0.814 | 0.3924 | 469 |
| 100941 | Dahlia | 556.5 | 19 | AA | 0.1711 | 0.856 | 0.4369 | 522 |
| 100966 | Mistletoe | 556.5 | 37 | AA | 0.1226 | 0.858 | 0.4368 | 522 |
| 157743 | Meadowsweet | 600 | 37 | AA | 0.1273 | 0.891 | 0.4709 | 562 |
| 100974 | Orchid | 636 | 37 | AA, A | 0.1311 | 0.918 | 0.4995 | 596 |
| | Heuchera | 650 | 37 | AA | 0.1325 | 0.928 | 0.5102 | 609 |
| | Verbena | 700 | 37 | AA | 0.1375 | 0.963 | 0.5494 | 656 |
| | Flag | 700 | 61 | A | 0.1071 | 0.964 | 0.5495 | 656 |
| | Violet | 715.5 | 37 | AA | 0.1391 | 0.973 | 0.5623 | 671 |
| | Nasturtium | 715.5 | 61 | AA | 0.1083 | 0.975 | 0.5619 | 671 |
| 182618 | Petunia | 750 | 37 | AA | 0.1424 | 0.997 | 0.5893 | 703 |
| | Cattail | 750 | 61 | AA | 0.1109 | 0.998 | 0.5892 | 703 |
| 100990 | Arbutus | 795 | 37 | AA | 0.1466 | 1.026 | 0.6245 | 745 |
| | Lilac | 795 | 61 | A | 0.1142 | 1.027 | 0.6248 | 745 |
| | Cockscomb | 900 | 37 | AA | 0.156 | 1.092 | 0.7072 | 844 |
| | Snapdragon | 900 | 61 | AA | 0.1215 | 1.093 | 0.7072 | 844 |
| 101014 | Magnolia | 954 | 37 | AA | 0.1606 | 1.124 | 0.7495 | 894 |
| 101063 | Goldenrod | 954 | 61 | A | 0.1251 | 1.125 | 0.7498 | 894 |
| | Hawkweed | 1000 | 37 | AA | 0.1644 | 1.151 | 0.7854 | 937 |
| | Camellia | 1000 | 61 | AA | 0.128 | 1.152 | 0.7849 | 937 |
| 101022 | Bluebell | 1033.5 | 37 | AA | 0.1671 | 1.17 | 0.8114 | 969 |


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| Stock Number | Code Word | Conductor Size | No. of Wires | Stranding Class | Ind. Wire Dia | Comp Cable | Cross-Sectional Area | Overall Weight |
|---|---|---|---|---|---|---|---|---|
| | | AWG or kcmil | | | inch | inch | sq. inch | lb/1000ft |
| | Larkspur | 1033.5 | 61 | AA | 0.1302 | 1.171 | 0.8122 | 969 |
| | Marigold | 1113 | 61 | AA, A | 0.1351 | 1.216 | 0.8744 | 1043 |
| | Hawthorn | 1192.5 | 61 | AA, A | 0.1398 | 1.258 | 0.9363 | 1118 |
| 101105 | Narcissus | 1272 | 61 | AA, A | 0.1444 | 1.3 | 0.999 | 1192 |
| | Columbine | 1351.5 | 61 | AA, A | 0.1488 | 1.34 | 1.0608 | 1267 |
| | Carnation | 1431 | 61 | AA, A | 0.1532 | 1.378 | 1.1244 | 1341 |
| | Gladiolus | 1510.5 | 61 | A | 0.1574 | 1.416 | 1.1869 | 1416 |
| 101147 | Coreopsis | 1590 | 61 | AA | 0.1614 | 1.453 | 1.248 | 1490 |
| 182634 | Jessamine | 1750 | 61 | AA | 0.1694 | 1.524 | 1.3748 | 1640 |
| | Cowslip | 2000 | 91 | A | 0.1482 | 1.631 | 1.5697 | 1875 |
| | Sagebrush | 2250 | 91 | A | 0.1572 | 1.73 | 1.7662 | 2130 |
| 182675 | Lupine | 2500 | 91 | A | 0.1657 | 1.823 | 1.9623 | 2366 |
| | Bitterroot | 2750 | 91 | A | 0.1738 | 1.912 | 2.1589 | 2603 |
| | Trillium | 3000 | 127 | A | 0.1537 | 1.998 | 2.3564 | 2839 |
| | Bluebonnet | 3500 | 127 | A | 0.166 | 2.158 | 2.7486 | 3345 |


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## Table 2 - Electrical and Engineering Data

| Stock Number | Code Word | Size | Rated Strength | DC Resistance @ 20°C | AC Resistance @ 75°C | Allowable Ampacity† |
|---|---|---|---|---|---|---|
| | | AWG or kcmil | lb | Ω/1000ft | Ω/1000ft | amp |
| | Peachbell | 6 | 563 | 0.658 | 0.805 | 103 |
| | Rose | 4 | 881 | 0.414 | 0.506 | 138 |
| 100834 | Iris | 2 | 1350 | 0.26 | 0.318 | 185 |
| | Pansy | 1 | 1640 | 0.207 | 0.252 | 214 |
| 100859 | Poppy | 1/0 | 1990 | 0.164 | 0.2 | 247 |
| 100867 | Aster | 2/0 | 2510 | 0.13 | 0.159 | 286 |
| 100875 | Phlox | 3/0 | 3040 | 0.103 | 0.126 | 331 |
| 100883 | Oxlip | 4/0 | 3830 | 0.0817 | 0.0999 | 383 |
| | Sneezewort | 250 | 4520 | 0.0691 | 0.0846 | 425 |
| | Valerian | 250 | 4660 | 0.0691 | 0.0846 | 426 |
| 100891 | Daisy | 266.8 | 4830 | 0.0648 | 0.0793 | 443 |
| 100909 | Laurel | 266.8 | 4970 | 0.0648 | 0.0793 | 444 |
| | Peony | 300 | 5480 | 0.0576 | 0.0706 | 478 |
| 100917 | Tulip | 336.4 | 6150 | 0.0514 | 0.063 | 513 |
| 148122 | Daffodil | 350 | 6390 | 0.0494 | 0.0605 | 526 |
| 100925 | Canna | 397.5 | 7110 | 0.0435 | 0.0534 | 570 |
| | Goldentuft | 450 | 7890 | 0.0384 | 0.0472 | 616 |
| 100933 | Cosmos | 477 | 8360 | 0.0362 | 0.0445 | 639 |
| 100958 | Syringa | 477 | 8690 | 0.0362 | 0.0445 | 639 |
| | Zinnia | 500 | 8760 | 0.0346 | 0.0425 | 658 |
| | Hyacinth | 500 | 9110 | 0.0346 | 0.0425 | 658 |
| 100941 | Dahlia | 556.5 | 9750 | 0.0311 | 0.0382 | 703 |
| 100966 | Mistletoe | 556.5 | 9940 | 0.0311 | 0.0382 | 704 |
| 157743 | Meadowsweet | 600 | 10700 | 0.0288 | 0.0355 | 738 |
| 100974 | Orchid | 636 | 11400 | 0.0272 | 0.0335 | 765 |
| | Heuchera | 650 | 11600 | 0.0266 | 0.0328 | 775 |
| | Verbena | 700 | 12500 | 0.0247 | 0.0305 | 812 |
| | Flag | 700 | 12900 | 0.0247 | 0.0305 | 812 |
| | Violet | 715.5 | 12800 | 0.0242 | 0.0299 | 823 |
| | Nasturtium | 715.5 | 13100 | 0.0242 | 0.0299 | 823 |
| 182618 | Petunia | 750 | 13100 | 0.023 | 0.0286 | 847 |
| | Cattail | 750 | 13500 | 0.023 | 0.0286 | 847 |
| 100990 | Arbutus | 795 | 13900 | 0.0217 | 0.027 | 878 |
| | Lilac | 795 | 14300 | 0.0217 | 0.027 | 879 |
| | Cockscomb | 900 | 15400 | 0.0192 | 0.0239 | 948 |
| | Snapdragon | 900 | 15900 | 0.0192 | 0.0239 | 948 |
| 101014 | Magnolia | 954 | 16400 | 0.0181 | 0.0226 | 982 |
| 101063 | Goldenrod | 954 | 16900 | 0.0181 | 0.0226 | 983 |
| | Hawkweed | 1000 | 17200 | 0.0173 | 0.0216 | 1010 |
| | Camellia | 1000 | 17700 | 0.0713 | 0.0216 | 1011 |
| 101022 | Bluebell | 1033.5 | 17700 | 0.0167 | 0.021 | 1031 |



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| Stock Number | Code Word | Size | Rated Strength | DC Resistance @ 20°C | AC Resistance @ 75°C | Allowable Ampacity† |
|---|---|---|---|---|---|---|
| | | AWG or kcmil | lb | Ω/1000ft | Ω/1000ft | amp |
| | Larkspur | 1033.5 | 18300 | 0.0167 | 0.021 | 1032 |
| | Marigold | 1113 | 19700 | 0.0155 | 0.0195 | 1079 |
| | Hawthorn | 1192.5 | 21100 | 0.0145 | 0.0183 | 1124 |
| 101105 | Narcissus | 1272 | 22000 | 0.0136 | 0.0173 | 1169 |
| | Columbine | 1351.5 | 23400 | 0.0128 | 0.0163 | 1212 |
| | Carnation | 1431 | 24300 | 0.0121 | 0.0155 | 1253 |
| | Gladiolus | 1510.5 | 25600 | 0.0114 | 0.0147 | 1294 |
| 101147 | Coreopsis | 1590 | 27000 | 0.0109 | 0.0141 | 1333 |
| 182634 | Jessamine | 1750 | 29700 | 0.00988 | 0.0129 | 1408 |
| | Cowslip | 2000 | 34200 | 0.00864 | 0.0115 | 1518 |
| | Sagebrush | 2250 | 37500 | 0.00776 | 0.0105 | 1612 |
| 182675 | Lupine | 2500 | 41900 | 0.00698 | 0.00969 | 1706 |
| | Bitterroot | 2750 | 46100 | 0.00635 | 0.009 | 1793 |
| | Trillium | 3000 | 50300 | 0.00582 | 0.00834 | 1874 |
| | Bluebonnet | 3500 | 58700 | 0.005 | 0.00756 | 2024 |

† Conductor temperature of 75°C, ambient temperature 25°C, emissivity 0.5, wind 2 ft./sec. in sun.


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