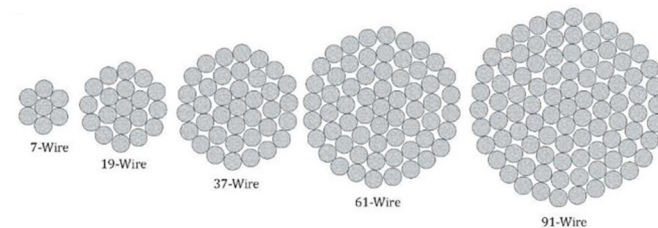


## ALL ALUMINIUM STRANDED CONDUCTOR

### AAC



#### Cable Structure

Conductor:All aluminium

#### Standard

ASTM B231 EN 51082 IEC 61089

#### Applications

AAC aluminum stranded wire is usually used in low-voltage transmission lines, medium and low-voltage distribution lines, overhead lines and other occasions.

AAC aluminum stranded wire is characterized by light weight, excellent conductivity and low cost, but the stress strength is relatively low,so it is only suitable for occasions with small span and no large tension.

#### Specifications

| Code Name   | Total Area |                 | Stranding and Wire | Overall Diameter | Linear Mass | Nominal Breaking Load | Max. D.C. Resistance |
|-------------|------------|-----------------|--------------------|------------------|-------------|-----------------------|----------------------|
|             | AWG or MCM | mm <sup>2</sup> | mm                 | mm               | kg/km       | daN                   | Ω/km                 |
|             | ASTM B231  |                 |                    |                  |             |                       |                      |
| Peachbell   | 6          | 13.29           | 7/1.554            | 4.67             | 37          | 249                   | 2.1692               |
| Rose        | 4          | 21.16           | 7/1.961            | 5.89             | 58          | 396                   | 1.3624               |
| Iris        | 2          | 33.61           | 7/2.474            | 7.42             | 93          | 597                   | 0.8577               |
| Pansy       | 1          | 42.39           | 7/2.776            | 8.33             | 117         | 732                   | 0.6801               |
| Poppy       | 1/0        | 53.48           | 7/3.119            | 9.36             | 147         | 873                   | 0.5390               |
| Aster       | 2/0        | 67.42           | 7/3.503            | 10.51            | 186         | 1100                  | 0.4276               |
| Phlox       | 3/0        | 85.03           | 7/3.932            | 11.8             | 234         | 1347                  | 0.3390               |
| Oxlip       | 4/0        | 107.23          | 7/4.417            | 13.26            | 296         | 1698                  | 0.2688               |
| Valerian    | 250        | 126.71          | 19/2.913           | 14.57            | 349         | 2062                  | 0.2275               |
| Sneezewort  | 250        | 126.71          | 7/4.80             | 14.4             | 349         | 2007                  | 0.2275               |
| Laurel      | 266.8      | 135.16          | 19/3.01            | 15.05            | 373         | 2200                  | 0.2133               |
| Daisy       | 266.8      | 135.16          | 7/4.96             | 14.9             | 373         | 2141                  | 0.2133               |
| Peony       | 300        | 152             | 19/3.193           | 15.97            | 419         | 2403                  | 0.1896               |
| Tulip       | 336.4      | 170.45          | 19/3.381           | 16.91            | 470         | 2695                  | 0.1691               |
| Daffodil    | 350        | 177.35          | 19/3.447           | 17.24            | 489         | 2804                  | 0.1625               |
| Canna       | 397.5      | 201.42          | 19/3.673           | 18.36            | 555         | 3184                  | 0.1431               |
| Goldentuft  | 450        | 228             | 19/3.909           | 19.55            | 629         | 3499                  | 0.1264               |
| Syringa     | 477        | 241.68          | 37/2.882           | 20.19            | 666         | 3849                  | 0.1193               |
| Cosmos      | 477        | 241.68          | 19/4.023           | 20.12            | 666         | 3708                  | 0.1193               |
| Hyacinth    | 500        | 253.35          | 37/2.951           | 20.65            | 698         | 4035                  | 0.1138               |
| Zinnia      | 500        | 253.35          | 19/4.21            | 20.6             | 698         | 3888                  | 0.1138               |
| Dahlia      | 556.5      | 282             | 19/4.346           | 21.73            | 777         | 4327                  | 0.1022               |
| Mistletoe   | 556.5      | 282             | 37/3.114           | 21.79            | 777         | 4362                  | 0.1022               |
| Meadowsweet | 600        | 304             | 37/3.233           | 22.63            | 838         | 4703                  | 0.0948               |
| Orchid      | 636        | 322.25          | 37/3.33            | 23.31            | 888         | 4985                  | 0.0894               |
| Heuchera    | 650        | 329.35          | 37/3.366           | 23.56            | 908         | 5095                  | 0.0875               |
| Flag        | 700        | 354.71          | 61/2.72            | 24.48            | 978         | 5146                  | 0.0813               |
| Verbena     | 700        | 354.71          | 37/3.493           | 24.45            | 978         | 5487                  | 0.0813               |
| Nasturtium  | 715.5      | 362.58          | 61/2.75            | 24.76            | 1000        | 5874                  | 0.0795               |
| Violet      | 715.5      | 362.85          | 37/3.533           | 24.74            | 1000        | 5609                  | 0.0795               |
| Cattail     | 750        | 380             | 61/2.817           | 25.35            | 1048        | 5985                  | 0.0795               |
| Petunia     | 750        | 380             | 37/3.617           | 25.32            | 1048        | 5875                  | 0.0795               |
| Lilac       | 795        | 402.84          | 61/2.90            | 26.11            | 1111        | 6345                  | 0.0715               |
| Arbutus     | 795        | 402.84          | 37/3.724           | 26.06            | 1111        | 6232                  | 0.0715               |
| Snapdragon  | 900        | 456.06          | 61/3.086           | 27.78            | 1257        | 6978                  | 0.0632               |
| Cockscomb   | 900        | 456.06          | 37/3.962           | 27.73            | 1257        | 6848                  | 0.0632               |
| Goldenrod   | 954        | 483.42          | 61/3.177           | 28.6             | 1333        | 7896                  | 0.0596               |
| Magnolia    | 954        | 483.42          | 37/4.079           | 28.55            | 1333        | 7258                  | 0.0596               |
| Camellia    | 1000       | 506.71          | 61/3.251           | 29.36            | 1397        | 7753                  | 0.0595               |
| Hawkweed    | 1000       | 506.71          | 37/4.176           | 29.23            | 1397        | 7608                  | 0.0596               |

Specifications

| ASTM B231 |            |        |                    |                  |             |                       |                      |
|-----------|------------|--------|--------------------|------------------|-------------|-----------------------|----------------------|
| Code Name | Total Area |        | Stranding and Wire | Overall Diameter | Linear Mass | Nominal Breaking Load | Max. D.C. Resistance |
|           | AWG or MCM | mm²    | mm                 | mm               | kg/km       | daN                   | Ω/km                 |
| Larkspur  | 1033.5     | 523.68 | 61/3.307           | 29.76            | 1444        | 8012                  | 0.0550               |
| Bluebell  | 1033.5     | 523.68 | 37/4.244           | 29.72            | 1444        | 7863                  | 0.0550               |
| Marigold  | 1113       | 563.93 | 61/3.432           | 30.89            | 1555        | 8628                  | 0.0511               |
| Hawthorn  | 1192.5     | 604.26 | 61/3.551           | 31.05            | 1666        | 9245                  | 0.0477               |
| Narcissus | 1272       | 644.51 | 61/3.668           | 33.02            | 1777        | 9861                  | 0.0477               |
| Columbine | 1351.5     | 684.84 | 61/3.78            | 34.01            | 1888        | 10478                 | 0.0421               |
| Carnation | 1431       | 725.1  | 61/3.89            | 35.03            | 1999        | 10768                 | 0.0398               |

Specifications

| EN 51082    |       |             |          |       |                      |                |               |
|-------------|-------|-------------|----------|-------|----------------------|----------------|---------------|
| Code Name   | Area  | No.of wires | Diameter |       | Mass per unit length | Rated strength | DC Resistance |
|             | mm²   |             | Wire     | Cond. |                      |                |               |
| Midge       | 23.3  | 7           | 2.06     | 6.18  | 63.8                 | 4.20           | 1.2249        |
| Gnat        | 26.9  | 7           | 2.21     | 6.63  | 73.4                 | 4.83           | 1.0643        |
| Mosquito    | 36.9  | 7           | 2.59     | 7.77  | 100.8                | 6.27           | 0.7749        |
| Ladybird    | 42.8  | 7           | 2.79     | 8.37  | 117.0                | 7.28           | 0.6678        |
| Ant         | 52.8  | 7           | 3.1      | 9.30  | 144.4                | 8.72           | 0.5409        |
| Fly         | 63.6  | 7           | 3.4      | 10.2  | 173.7                | 10.49          | 0.4497        |
| Bluebottle  | 73.6  | 7           | 3.66     | 11.0  | 201.3                | 11.78          | 0.3880        |
| Earwig      | 78.6  | 7           | 3.78     | 11.3  | 214.7                | 12.57          | 0.3638        |
| Grasshopper | 84.1  | 7           | 3.91     | 11.7  | 229.7                | 13.45          | 0.3400        |
| Clegg       | 95.6  | 7           | 4.17     | 12.5  | 261.3                | 15.30          | 0.2989        |
| Wasp        | 106.0 | 7           | 4.39     | 13.2  | 289.6                | 16.95          | 0.2697        |
| Beetle      | 106.4 | 19          | 2.67     | 13.4  | 292.4                | 18.08          | 0.2701        |
| Bee         | 132.0 | 7           | 4.9      | 14.7  | 360.8                | 21.12          | 0.2165        |
| Hornet      | 157.6 | 19          | 3.25     | 16.3  | 433.2                | 26.01          | 0.1823        |
| Caterpillar | 185.9 | 19          | 3.53     | 17.7  | 511.1                | 29.75          | 0.1546        |
| Chafer      | 213.2 | 19          | 3.78     | 18.9  | 586.0                | 34.12          | 0.1348        |
| Spider      | 237.6 | 19          | 3.99     | 20.0  | 652.9                | 38.01          | 0.1210        |
| Cockroach   | 265.7 | 19          | 4.22     | 21.1  | 730.4                | 42.52          | 0.1081        |
| Butterfly   | 322.7 | 19          | 4.65     | 23.3  | 886.8                | 51.63          | 0.0891        |
| Moth        | 373.1 | 19          | 5        | 25.0  | 1025.3               | 59.69          | 0.0770        |
| Drone       | 372.4 | 37          | 3.58     | 25.1  | 1027.1               | 59.59          | 0.0774        |
| Centipede   | 415.2 | 37          | 3.78     | 26.5  | 1145.1               | 66.43          | 0.0695        |
| Maybug      | 486.1 | 37          | 4.09     | 28.6  | 1340.6               | 77.78          | 0.0593        |
| Scorpion    | 529.8 | 37          | 4.27     | 29.9  | 1461.2               | 84.77          | 0.0544        |
| Cicada      | 628.3 | 37          | 4.65     | 32.6  | 1732.9               | 100.54         | 0.0459        |

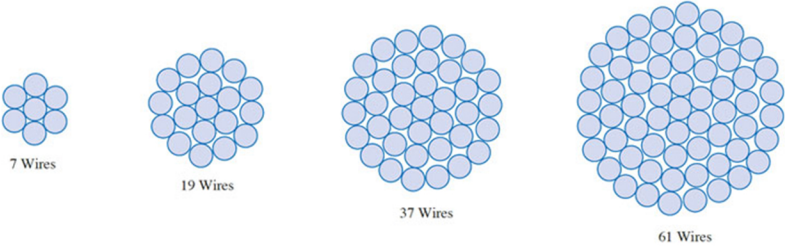


Specifications

| IEC 61089   |      |             |          |       |             |                |                              |
|-------------|------|-------------|----------|-------|-------------|----------------|------------------------------|
| Code Number | Area | No.of wires | Diameter |       | Linear Mass | Rated strength | Max. D.C. Resistance at 20°C |
|             |      |             | Wire     | Cond. |             |                |                              |
|             | mm²  |             | mm       | mm    | kg/km       | kN             | Ω/km                         |
| 10          | 10   | 7           | 1.35     | 4.05  | 27.4        | 1.95           | 2.8633                       |
| 16          | 16   | 7           | 1.71     | 5.12  | 43.8        | 3.04           | 1.7896                       |
| 25          | 25   | 7           | 2.13     | 6.40  | 68.4        | 4.50           | 1.1453                       |
| 40          | 40   | 7           | 2.70     | 8.09  | 109.4       | 6.80           | 0.7158                       |
| 63          | 63   | 7           | 3.39     | 10.2  | 172.3       | 10.39          | 0.4545                       |
| 100         | 100  | 19          | 2.59     | 12.9  | 274.8       | 17.00          | 0.2877                       |
| 125         | 125  | 19          | 2.89     | 14.5  | 343.6       | 21.25          | 0.2302                       |
| 160         | 160  | 19          | 3.27     | 16.4  | 439.8       | 26.40          | 0.1798                       |
| 200         | 200  | 19          | 3.66     | 18.3  | 549.7       | 32.00          | 0.1439                       |
| 250         | 250  | 19          | 4.09     | 20.5  | 687.1       | 40.00          | 0.1151                       |
| 315         | 315  | 37          | 3.29     | 23.0  | 867.9       | 51.97          | 0.0916                       |
| 400         | 400  | 37          | 3.71     | 26.0  | 1102.0      | 64.00          | 0.0721                       |
| 450         | 450  | 37          | 3.94     | 27.5  | 1239.8      | 72.00          | 0.0641                       |
| 500         | 500  | 37          | 4.15     | 29.0  | 1377.6      | 80.00          | 0.0577                       |
| 560         | 560  | 37          | 4.39     | 30.7  | 1542.9      | 89.60          | 0.0515                       |
| 630         | 630  | 61          | 3.63     | 32.6  | 1738.3      | 100.80         | 0.0458                       |
| 710         | 710  | 61          | 3.85     | 34.6  | 1959.1      | 113.60         | 0.0407                       |
| 800         | 800  | 61          | 4.09     | 36.8  | 2207.4      | 128.00         | 0.0361                       |
| 900         | 900  | 61          | 4.33     | 39.0  | 2483.3      | 144.00         | 0.0321                       |
| 1000        | 1000 | 61          | 4.57     | 41.1  | 2759.2      | 160.00         | 0.0289                       |
| 1120        | 1120 | 91          | 3.96     | 43.5  | 3093.5      | 179.20         | 0.0258                       |
| 1250        | 1250 | 91          | 4.18     | 46.0  | 3452.6      | 200.00         | 0.0231                       |
| 1400        | 1400 | 91          | 4.43     | 48.7  | 3866.9      | 224.00         | 0.0207                       |
| 1500        | 1500 | 91          | 4.58     | 50.4  | 4143.1      | 240.00         | 0.0193                       |

ALL ALUMINIUM ALLOY CONDUCTOR

AAAC



Cable Structure

Conductor:All aluminium alloy

Standard

ASTM B399 EN 51082 IEC 61089

Applications

AAAC is made by twisting alloy wires of high-purity aluminum and silicon. Due to its advantages of good conductivity and strong corrosion resistance, it is widely used in power transmission, distribution and municipal engineering.

Specifications

| ASTM B399 |                |           |                |                       |             |                |                              |
|-----------|----------------|-----------|----------------|-----------------------|-------------|----------------|------------------------------|
| Code Name | Conductor Size | Stranding | Sectional Area | Diameter of Conductor | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|           | AWG(MCM)       | No./mm    | mm²            | mm                    | kg/km       | daN            | Ω/km                         |
| Alton     | 4              | 7/1.96    | 21.14          | 5.89                  | 57.89       | 685            | 1.5860                       |
|           | 48.69(4)       | 7/2.12    | 24.67          | 6.35                  | 67.56       | 799            | 1.3557                       |
| Ames      | 2              | 7/2.47    | 33.65          | 7.42                  | 92.14       | 1091           | 0.9987                       |
|           | 77.47(2)       | 7/2.67    | 39.26          | 8.02                  | 107.50      | 1275           | 0.8547                       |
| Azusa     | 1/0            | 7/3.12    | 53.49          | 9.35                  | 146.50      | 1733           | 0.6259                       |
|           | 123.3(1/0)     | 7/3.37    | 62.46          | 10.11                 | 171.00      | 2019           | 0.5365                       |
| Anaheim   | 2/0            | 7/3.50    | 67.45          | 10.52                 | 184.70      | 2090           | 0.4974                       |
|           | 155.4(2/0)     | 7/3.78    | 78.75          | 11.35                 | 215.16      | 2447           | 0.4264                       |
| Amherst   | 3/0            | 7/3.93    | 85.00          | 11.79                 | 232.70      | 2641           | 0.3945                       |
|           | 195.7(3/0)     | 7/4.25    | 99.20          | 12.75                 | 271.50      | 3079           | 0.3373                       |
| Alliance  | 4/0            | 7/4.42    | 107.20         | 13.26                 | 293.70      | 3334           | 0.3119                       |
|           | 246.9(4/0)     | 7/4.77    | 125.10         | 14.30                 | 342.60      | 3885           | 0.2678                       |
|           | 250            | 19/2.91   | 126.70         | 14.58                 | 346.90      | 3977           | 0.2651                       |
| Butte     | 300            | 19/3.19   | 152.10         | 15.89                 | 418.60      | 4772           | 0.2206                       |
|           | 312.8          | 19/3.26   | 158.50         | 16.31                 | 434.00      | 4976           | 0.2112                       |
| Canton    | 350.5          | 19/3.45   | 177.30         | 17.25                 | 485.50      | 5333           | 0.1886                       |
|           | 394.5          | 19/3.66   | 199.00         | 18.31                 | 547.40      | 6016           | 0.1676                       |
| Cairo     | 400            | 19/3.69   | 202.70         | 18.44                 | 555.10      | 6098           | 0.1649                       |
|           | 450            | 19/3.91   | 228.00         | 19.56                 | 624.40      | 6862           | 0.1468                       |
|           | 465.4          | 19/3.98   | 235.80         | 19.89                 | 645.70      | 7097           | 0.1431                       |
| Darlen    | 500            | 19/4.12   | 253.40         | 20.60                 | 693.60      | 7617           | 0.1322                       |
|           | 550            | 37/3.10   | 278.70         | 21.67                 | 762.90      | 8555           | 0.1200                       |
|           | 559.5          | 19/4.36   | 283.50         | 21.79                 | 776.30      | 8525           | 0.1181                       |
| Elgin     | 600            | 37/3.23   | 304.00         | 22.63                 | 832.00      | 9330           | 0.1105                       |
|           | 650            | 37/3.37   | 329.40         | 23.57                 | 909.80      | 10105          | 0.1015                       |
| Flint     | 652.4          | 19/4.71   | 330.60         | 23.55                 | 970.60      | 9942           | 0.1012                       |
|           | 700            | 37/3.49   | 354.50         | 24.46                 | 910.60      | 10401          | 0.09464                      |
|           | 740.8          | 37/3.59   | 375.40         | 25.15                 | 1028        | 11013          | 0.08944                      |
|           | 750            | 37/3.62   | 380.20         | 25.32                 | 1041        | 11216          | 0.08796                      |
| Greeley   | 800            | 37/3.73   | 405.40         | 26.14                 | 1109        | 11930          | 0.08285                      |
|           | 900            | 37/3.96   | 456.30         | 27.74                 | 1249        | 13460          | 0.07351                      |
|           | 927.2          | 37/4.02   | 469.80         | 28.14                 | 1287        | 13868          | 0.07133                      |
|           | 1000           | 37/4.18   | 506.70         | 29.24                 | 1388        | 14887          | 0.06597                      |
|           | 1077.4         | 61/3.38   | 483.40         | 30.42                 | 1496        | 15907          | 0.06120                      |
|           | 1165.1         | 61/3.51   | 523.70         | 31.59                 | 1617        | 17233          | 0.05675                      |
|           | 1250           | 61/3.63   | 633.30         | 32.67                 | 1733        | 18354          | 0.05306                      |
|           | 1259.6         | 61/3.65   | 564.00         | 32.85                 | 1748        | 18558          | 0.05248                      |
|           | 1348.8         | 61/3.78   | 604.20         | 34.02                 | 1872        | 19884          | 0.04893                      |
|           | 1438.2         | 61/3.90   | 644.50         | 35.10                 | 1997        | 21209          | 0.04597                      |
|           | 1500           | 61/3.98   | 760.00         | 35.82                 | 2081        | 22127          | 0.04414                      |
|           | 1750           | 61/4.30   | 886.70         | 38.70                 | 2429        | 25798          | 0.03781                      |

Specifications

| EN 51082  |       |                 |          |       |                      |                |               |
|-----------|-------|-----------------|----------|-------|----------------------|----------------|---------------|
| Code Name | Area  | No. of wires    | Diameter |       | Mass per unit length | Rated Strength | DC Resistance |
|           |       |                 | Wire     | Cond. |                      |                |               |
|           |       | mm <sup>2</sup> |          | mm    | mm                   | kg/km          | kN            |
| Box       | 18.8  | 7               | 1.85     | 5.55  | 51.4                 | 5.55           | 1.7480        |
| Acacia    | 23.8  | 7               | 2.08     | 6.24  | 64.9                 | 7.02           | 1.3828        |
| Almond    | 30.1  | 7               | 2.34     | 7.02  | 82.2                 | 8.88           | 1.0926        |
| Cedar     | 35.5  | 7               | 2.54     | 7.62  | 96.8                 | 10.46          | 0.9273        |
| Deodar    | 42.2  | 7               | 2.77     | 8.31  | 115.2                | 12.44          | 0.7797        |
| Fir       | 47.8  | 7               | 2.95     | 8.85  | 130.6                | 14.11          | 0.6875        |
| Hazel     | 59.9  | 7               | 3.3      | 9.90  | 163.4                | 17.66          | 0.5494        |
| Pine      | 71.6  | 7               | 3.61     | 10.8  | 195.6                | 21.14          | 0.4591        |
| Holly     | 84.1  | 7               | 3.91     | 11.7  | 229.5                | 24.79          | 0.3913        |
| Willow    | 89.7  | 7               | 4.04     | 12.1  | 245.0                | 26.47          | 0.3665        |
| Oak       | 118.9 | 7               | 4.65     | 14.0  | 324.5                | 35.07          | 0.2767        |
| Mulberry  | 150.9 | 19              | 3.18     | 15.9  | 414.3                | 44.52          | 0.2192        |
| Ash       | 180.7 | 19              | 3.48     | 17.4  | 496.1                | 53.31          | 0.1830        |
| Elm       | 211.0 | 19              | 3.76     | 18.8  | 579.2                | 62.24          | 0.1568        |
| Poplar    | 239.4 | 37              | 2.87     | 20.1  | 659.4                | 70.61          | 0.1387        |
| Sycamore  | 303.2 | 37              | 3.23     | 22.6  | 835.2                | 89.40          | 0.1095        |
| Upas      | 362.1 | 37              | 3.53     | 24.7  | 997.5                | 106.82         | 0.0917        |
| Yew       | 479.0 | 37              | 4.06     | 28.4  | 1319.6               | 141.31         | 0.0693        |
| Totara    | 498.1 | 37              | 4.14     | 29.0  | 1372.1               | 146.93         | 0.0666        |
| Rubus     | 586.9 | 61              | 3.5      | 31.5  | 1622                 | 173.13         | 0.5670        |
| Sorbus    | 659.4 | 61              | 3.71     | 33.4  | 1822.5               | 194.53         | 0.0505        |
| Araucaria | 821.1 | 61              | 4.14     | 37.3  | 2269.4               | 242.24         | 0.0406        |
| Redwood   | 996.2 | 61              | 4.56     | 41.0  | 2753.2               | 293.88         | 0.0334        |

Specifications

| IEC 61089   |      |              |          |       |             |                |                                     |
|-------------|------|--------------|----------|-------|-------------|----------------|-------------------------------------|
| Code Number | Area | No. of wires | Diameter |       | Linear Mass | Rated Strength | Max. D.C.<br>Resistance at 20<br>°C |
|             |      |              | Wire     | Cond. |             |                |                                     |
|             | mm²  |              | mm       | mm    | kg/km       | kN             | Ω/km                                |
| 16          | 18.4 | 7            | 1.83     | 5.49  | 50.4        | 5.43           | 1.7896                              |
| 25          | 28.8 | 7            | 2.29     | 6.87  | 78.7        | 8.49           | 1.1453                              |
| 40          | 46.0 | 7            | 2.89     | 8.67  | 125.9       | 13.58          | 0.7158                              |
| 63          | 72.5 | 7            | 3.63     | 10.80 | 198.3       | 21.39          | 0.4545                              |
| 100         | 115  | 19           | 2.78     | 13.90 | 316.3       | 33.95          | 0.2877                              |
| 125         | 144  | 19           | 3.10     | 15.50 | 395.4       | 42.44          | 0.2302                              |
| 160         | 184  | 19           | 3.51     | 17.55 | 506.1       | 54.32          | 0.1798                              |
| 200         | 230  | 19           | 3.93     | 19.65 | 632.7       | 67.91          | 0.1439                              |
| 250         | 288  | 19           | 4.39     | 21.95 | 790.8       | 84.68          | 0.1151                              |
| 315         | 363  | 37           | 3.53     | 24.71 | 998.9       | 106.95         | 0.0916                              |
| 400         | 460  | 37           | 3.98     | 27.86 | 1268.4      | 135.81         | 0.0721                              |
| 450         | 518  | 37           | 4.22     | 29.54 | 1426.9      | 152.79         | 0.0641                              |
| 500         | 575  | 37           | 4.45     | 31.15 | 1585.5      | 169.76         | 0.0577                              |
| 560         | 645  | 61           | 3.67     | 33.03 | 1778.4      | 190.14         | 0.0516                              |
| 630         | 725  | 61           | 3.89     | 35.01 | 2000.7      | 213.9          | 0.0458                              |
| 710         | 817  | 61           | 4.13     | 37.17 | 2254.8      | 241.07         | 0.0407                              |
| 800         | 921  | 61           | 4.38     | 39.42 | 2540.6      | 271.62         | 0.0361                              |
| 900         | 1036 | 91           | 3.81     | 41.91 | 2861.1      | 305.58         | 0.0632                              |
| 1000        | 1151 | 91           | 4.01     | 44.11 | 3179        | 339.53         | 0.0289                              |
| 1120        | 1289 | 91           | 4.25     | 46.75 | 3560.5      | 380.27         | 0.0258                              |
| 1250        | 1439 | 91           | 4.49     | 49.39 | 3973.7      | 424.41         | 0.0231                              |

ALUMINIUM CONDUCTOR STEEL REINFORCED

ACSR



Cable Structure

Steel core and Aluminium strand

Standard

ASTM B232 EN 51082 IEC 61089

Applications

Aluminum conductor steel reinforced is mainly used in some power industry and transmission lines (high-voltage lines) of the industry, its structure is the use of a single layer of alumium wire through a number of special processes to be precessed. if the length of the route is very limited, and there's no way to separate a lot of routes, then we can use this product, and can play a line to act as a means of many lines



Specifications

| ASTM B232 |            |        |       |        |                             |         |                         |        |       |       |                       |                              |                 |
|-----------|------------|--------|-------|--------|-----------------------------|---------|-------------------------|--------|-------|-------|-----------------------|------------------------------|-----------------|
| Code Name | Total Area |        |       |        | Stranding and Wire Diameter |         | Approx Overall Diameter | Weight |       |       | Nominal Breaking Load | Max. D.C. Resistance at 20°C | Standard Length |
|           | Nominal    | Al.    | St.   | Total  | Al.                         | St.     |                         | Al.    | St.   | Total |                       |                              |                 |
|           | AWG or MCM | mm²    | mm²   | mm²    | mm                          | mm      | mm                      | kg/km  | kg/km | kg/km | kN                    | Ω/km                         | m±5%            |
| Turkey    | 6          | 13.29  | 2.19  | 15.48  | 6/1.68                      | 1/1.68  | 5.04                    | 37     | 17    | 54    | 5.24                  | 2.1586                       | 3000            |
| Swan      | 4          | 21.16  | 3.55  | 24.71  | 3/2.12                      | 1/2.12  | 6.36                    | 58     | 27    | 85    | 8.32                  | 1.3557                       | 3000            |
| Swanate   | 4          | 21.16  | 5.35  | 26.51  | 7/1.96                      | 1/2.61  | 6.53                    | 58     | 42    | 100   | 10.53                 | 1.3557                       | 3000            |
| Sparrow   | 2          | 33.61  | 5.61  | 39.22  | 6/2.67                      | 1/2.67  | 8.01                    | 92     | 44    | 136   | 12.7                  | 0.8535                       | 3000            |
| Sparate   | 2          | 33.61  | 8.52  | 42.13  | 7/2.47                      | 1/3.30  | 8.24                    | 92     | 67    | 159   | 16.11                 | 0.8535                       | 2500            |
| Robin     | 1          | 42.39  | 7.1   | 49.49  | 6/3.00                      | 1/3.00  | 9.00                    | 116    | 55    | 171   | 15.85                 | 0.6767                       | 2500            |
| Raven     | 1/0        | 53.48  | 8.9   | 62.38  | 6/3.37                      | 1/3.37  | 10.11                   | 147    | 69    | 216   | 19.32                 | 0.5364                       | 2000            |
| Quail     | 2/0        | 67.42  | 11.23 | 78.65  | 6/3.78                      | 1/3.78  | 11.34                   | 185    | 88    | 273   | 23.62                 | 0.4255                       | 3000            |
| Pigeon    | 3/0        | 85.03  | 14.19 | 99.22  | 6/4.25                      | 1/4.25  | 12.75                   | 233    | 110   | 343   | 29.41                 | 0.3373                       | 2500            |
| Penguin   | 4/0        | 107.23 | 17.87 | 125.1  | 6/4.77                      | 1/4.77  | 14.31                   | 294    | 139   | 433   | 37.06                 | 0.2675                       | 2000            |
| Waxwing   | 266.8      | 135.16 | 7.48  | 142.64 | 18/3.09                     | 1/3.09  | 15.45                   | 373    | 58    | 431   | 30.27                 | 0.2133                       | 3500            |
| Partridge | 266.8      | 135.16 | 22    | 157.16 | 26/2.57                     | 7/2.00  | 16.28                   | 374    | 172   | 546   | 50.29                 | 0.2143                       | 2500            |
| Ostrich   | 300        | 152    | 24.71 | 176.71 | 26/2.73                     | 7/2.12  | 17.28                   | 421    | 193   | 614   | 56.52                 | 0.1906                       | 3000            |
| Merlin    | 336.4      | 170.45 | 9.48  | 179.93 | 18/3.47                     | 1/3.47  | 17.50                   | 470    | 74    | 544   | 38.23                 | 0.1691                       | 2000            |
| Linnet    | 336.4      | 170.45 | 27.81 | 198.23 | 26/2.89                     | 7/2.25  | 18.31                   | 472    | 217   | 689   | 62.71                 | 0.1699                       | 2500            |
| Oriole    | 336.4      | 170.45 | 39.81 | 21.026 | 30/2.69                     | 7/2.69  | 18.83                   | 473    | 311   | 784   | 77.27                 | 0.1704                       | 3000            |
| Chickadee | 397.5      | 201.42 | 11.16 | 212.58 | 18/3.77                     | 1/3.77  | 18.85                   | 555    | 87    | 642   | 43.99                 | 0.1431                       | 2500            |
| Brant     | 397.5      | 201.42 | 26.13 | 227.55 | 24/3.27                     | 7/2.18  | 19.61                   | 558    | 204   | 762   | 64.69                 | 0.1438                       | 2000            |
| Ibis      | 397.5      | 201.42 | 32.77 | 234.19 | 26/3.14                     | 7/2.44  | 19.88                   | 558    | 256   | 814   | 72.11                 | 0.1438                       | 2500            |
| Lark      | 397.5      | 201.42 | 46.97 | 248.39 | 30/2.92                     | 7/2.92  | 20.44                   | 560    | 367   | 927   | 88.69                 | 0.1442                       | 2500            |
| Pelican   | 477        | 241.68 | 13.42 | 255.1  | 18/4.14                     | 1/4.14  | 20.70                   | 666    | 105   | 771   | 52.16                 | 0.1193                       | 2000            |
| Flicker   | 477        | 241.68 | 31.29 | 272.97 | 24/3.58                     | 7/2.39  | 21.49                   | 670    | 245   | 915   | 76.66                 | 0.1199                       | 3000            |
| Hawk      | 477        | 241.68 | 39.42 | 281.1  | 26/3.44                     | 7/2.67  | 21.79                   | 670    | 308   | 978   | 86.65                 | 0.1199                       | 2000            |
| Hen       | 477        | 241.68 | 56.39 | 298.07 | 30/3.20                     | 7/3.20  | 22.40                   | 671    | 441   | 1112  | 105.34                | 0.1201                       | 2000            |
| Osprey    | 556.5      | 282    | 15.68 | 297.68 | 18/4.47                     | 1/4.47  | 22.35                   | 777    | 122   | 899   | 60.88                 | 0.1022                       | 2000            |
| Parakeet  | 556.5      | 282    | 36.58 | 318.58 | 24/3.87                     | 7/2.58  | 23.22                   | 781    | 286   | 1067  | 88.22                 | 0.1027                       | 3000            |
| Dove      | 556.5      | 282    | 45.94 | 327.94 | 26/3.72                     | 7/2.89  | 23.55                   | 781    | 359   | 1140  | 101.03                | 0.1027                       | 3000            |
| Eagle     | 556.5      | 282    | 65.81 | 347.81 | 30/3.46                     | 7/3.46  | 24.21                   | 783    | 515   | 1298  | 122.92                | 0.1030                       | 3500            |
| Peacock   | 605        | 306.58 | 39.74 | 346.32 | 24/4.03                     | 7/2.69  | 24.20                   | 849    | 311   | 1160  | 95.88                 | 0.0945                       | 3000            |
| Squab     | 605        | 306.58 | 49.94 | 356.52 | 26/3.87                     | 7/3.01  | 24.51                   | 850    | 390   | 1240  | 108.14                | 0.0945                       | 3000            |
| Wood Duck | 605        | 306.58 | 71.55 | 378.13 | 30/3.61                     | 7/3.61  | 25.25                   | 851    | 560   | 1411  | 128.84                | 0.0947                       | 3000            |
| Teal      | 605        | 306.58 | 69.87 | 376.45 | 30/3.61                     | 19/2.16 | 25.24                   | 851    | 548   | 1399  | 133.59                | 0.0947                       | 2000            |
| Kingbird  | 636        | 322.26 | 17.9  | 340.16 | 18/4.78                     | 1/4.78  | 23.88                   | 889    | 139   | 1028  | 69.55                 | 0.08945                      | 2000            |
| Rook      | 636        | 322.26 | 41.81 | 364.07 | 24/4.14                     | 7/2.76  | 24.84                   | 893    | 326   | 1219  | 100.83                | 0.08989                      | 2500            |
| Grosbeak  | 636        | 322.26 | 52.45 | 374.71 | 26/3.97                     | 7/3.09  | 25.15                   | 893    | 409   | 1302  | 111.8                 | 0.08989                      | 3000            |
| Scoter    | 636        | 322.26 | 75.22 | 397.48 | 30/3.70                     | 7/3.70  | 25.88                   | 895    | 589   | 1484  | 135.44                | 0.09011                      | 3000            |
| Egret     | 636        | 322.26 | 73.55 | 395.81 | 30/3.70                     | 19/2.22 | 25.90                   | 894    | 576   | 1470  | 140.3                 | 0.09011                      | 3000            |
| Swift     | 636        | 322.26 | 8.96  | 331.22 | 36/3.38                     | 1/3.38  | 23.62                   | 888    | 70    | 958   | 60.52                 | 0.08945                      | 2000            |
| Flamingo  | 666.6      | 337.34 | 43.81 | 381.55 | 24/4.23                     | 7/2.82  | 25.40                   | 936    | 342   | 1278  | 105.66                | 0.08577                      | 2500            |
| Gannet    | 666.6      | 337.34 | 55.03 | 392.77 | 26/4.07                     | 7/3.16  | 25.76                   | 936    | 429   | 1365  | 117.33                | 0.08577                      | 2500            |
| Stilt     | 715.5      | 362.58 | 46.97 | 409.55 | 24/4.39                     | 7/2.92  | 26.31                   | 1005   | 367   | 1372  | 113.35                | 0.07989                      | 2000            |
| Starling  | 715.5      | 362.58 | 59.03 | 421.61 | 26/4.21                     | 7/3.28  | 26.68                   | 1005   | 461   | 1466  | 125.91                | 0.07989                      | 2500            |

Specifications

| ASTM B232 |            |        |        |        |                             |         |                         |        |       |       |                       |                              |                 |
|-----------|------------|--------|--------|--------|-----------------------------|---------|-------------------------|--------|-------|-------|-----------------------|------------------------------|-----------------|
| Code Name | Total Area |        |        |        | Stranding and Wire Diameter |         | Approx Overall Diameter | Weight |       |       | Nominal Breaking Load | Max. D.C. Resistance at 20°C | Standard Length |
|           | Nominal    | Al.    | St.    | Total  | Al.                         | St.     |                         | Al.    | St.   | Total |                       |                              |                 |
|           | AWG or MCM | mm²    | mm²    | mm²    | mm                          | mm      | mm                      | kg/km  | kg/km | kg/km | kN                    | Ω/km                         | m±5%            |
| Redwing   | 715.5      | 362.58 | 82.58  | 445.16 | 30/3.92                     | 19/2.35 | 27.43                   | 1006   | 647   | 1653  | 153.94                | 0.08009                      | 2000            |
| Tern      | 795        | 402.84 | 27.87  | 430.71 | 45/3.38                     | 7/2.25  | 27.03                   | 1116   | 217   | 1333  | 97.37                 | 0.07191                      | 2500            |
| Condor    | 795        | 402.84 | 52.19  | 455.03 | 54/3.08                     | 7/3.08  | 27.72                   | 1116   | 408   | 1524  | 124.45                | 0.07191                      | 3000            |
| Cuckoo    | 795        | 402.84 | 52.19  | 455.03 | 24/4.62                     | 7/3.08  | 27.74                   | 1116   | 408   | 1524  | 123.94                | 0.07191                      | 2000            |
| Drake     | 795        | 402.84 | 65.61  | 468.35 | 26/4.44                     | 7/3.45  | 28.11                   | 1116   | 512   | 1628  | 139.92                | 0.07191                      | 2000            |
| Coot      | 795        | 402.84 | 11.16  | 414    | 36/3.77                     | 1/3.77  | 26.41                   | 1110   | 88    | 1198  | 74.34                 | 0.07156                      | 3000            |
| Mallard   | 795        | 402.84 | 91.87  | 494.71 | 30/4.14                     | 19/2.48 | 28.96                   | 1119   | 719   | 1838  | 171.18                | 0.07208                      | 2500            |
| Ruddy     | 900        | 456.06 | 34.54  | 487.6  | 45/3.59                     | 7/2.40  | 28.73                   | 1263   | 247   | 1510  | 108.96                | 0.06351                      | 2000            |
| Canary    | 900        | 456.06 | 59.1   | 515.16 | 54/3.28                     | 7/3.28  | 29.52                   | 1263   | 461   | 1724  | 140.95                | 0.06351                      | 2000            |
| Rail      | 954        | 483.42 | 33.42  | 816.84 | 45/3.70                     | 7/2.47  | 29.61                   | 1339   | 262   | 1601  | 115.63                | 0.05992                      | 2000            |
| Catbird   | 954        | 483.42 | 13.42  | 496.84 | 36/4.14                     | 1/4.14  | 28.95                   | 1333   | 105   | 1438  | 87.66                 | 0.05962                      | 2500            |
| Cardinal  | 954        | 483.42 | 62.65  | 546.07 | 54/3.38                     | 7/3.38  | 30.42                   | 1339   | 490   | 1829  | 149.36                | 0.05992                      | 2500            |
| Ortlan    | 1033.5     | 523.68 | 36.19  | 559.87 | 45/3.85                     | 7/2.57  | 30.81                   | 1451   | 283   | 1734  | 123.1                 | 0.05531                      | 2000            |
| Tanger    | 1033.5     | 523.68 | 14.51  | 538.2  | 36/4.30                     | 1/4.30  | 30.12                   | 1443   | 113   | 1556  | 94.93                 | 0.05504                      | 2000            |
| Curlew    | 1033.5     | 523.68 | 67.87  | 91.55  | 54/3.52                     | 7/3.52  | 31.68                   | 1451   | 530   | 1981  | 161.8                 | 0.05531                      | 2000            |
| Bluejay   | 1113       | 563.93 | 39.03  | 602.96 | 45/4.00                     | 7/2.66  | 31.98                   | 1563   | 385   | 1868  | 132.63                | 0.05136                      | 2500            |
| Finch     | 1113       | 563.93 | 71.55  | 635.48 | 54/3.65                     | 19/2.19 | 32.85                   | 1570   | 580   | 2130  | 174.41                | 0.05161                      | 2000            |
| Bunting   | 1192.5     | 604.26 | 41.55  | 645.81 | 45/4.14                     | 7/2.76  | 33.12                   | 1674   | 327   | 2001  | 141.79                | 0.04793                      | 2500            |
| Grackle   | 1192.5     | 604.26 | 76.58  | 680.84 | 54/3.77                     | 19/2.27 | 33.97                   | 1682   | 600   | 2282  | 186.38                | 0.04817                      | 2000            |
| Bittern   | 1272       | 644.51 | 44.52  | 689.03 | 45/4.27                     | 7/2.85  | 34.17                   | 1785   | 349   | 2134  | 151.48                | 0.04494                      | 2500            |
| Pheasant  | 1272       | 644.51 | 81.68  | 726.19 | 54/3.90                     | 19/2.34 | 35.1                    | 1795   | 638   | 2433  | 194                   | 0.04516                      | 2000            |
| Skylark   | 1272       | 644.51 | 17.87  | 662.38 | 36/4.78                     | 1/4.78  | 33.42                   | 1777   | 140   | 1917  | 115.85                | 0.04472                      | 2000            |
| Dipper    | 1351.5     | 684.84 | 47.1   | 731.94 | 45/4.40                     | 7/2.92  | 35.16                   | 1898   | 368   | 2266  | 160.7                 | 0.04230                      | 2000            |
| Martin    | 1351.5     | 684.84 | 86.71  | 771.55 | 54/4.02                     | 19/2.41 | 36.17                   | 1906   | 679   | 2585  | 206.05                | 0.04250                      | 2000            |
| Bobolink  | 1431       | 725.1  | 50.32  | 775.42 | 45/4.53                     | 7/3.02  | 36.24                   | 2009   | 393   | 2402  | 170.71                | 0.03994                      | 2000            |
| Plover    | 1431       | 725.1  | 91.87  | 816.97 | 54/4.14                     | 19/2.48 | 37.24                   | 2019   | 719   | 2738  | 218.24                | 0.04013                      | 2500            |
| Nuthatch  | 1510.5     | 765.35 | 52.9   | 818.25 | 45/4.65                     | 7/3.10  | 37.2                    | 2120   | 414   | 2534  | 177.89                | 0.03784                      | 2000            |
| Parrot    | 1510.5     | 765.35 | 86.84  | 862.19 | 54/4.25                     | 19/2.55 | 38.25                   | 2131   | 759   | 2890  | 230.2                 | 0.03802                      | 2000            |
| Lapwing   | 1590       | 805.68 | 55.48  | 861.16 | 45/4.77                     | 7/3.18  | 38.16                   | 2232   | 435   | 2667  | 187.02                | 0.03595                      | 2000            |
| Falcon    | 1590       | 805.68 | 102.13 | 907.81 | 54/4.36                     | 19/2.62 | 39.26                   | 2243   | 799   | 3042  | 242.55                | 0.03613                      | 2000            |



Specifications

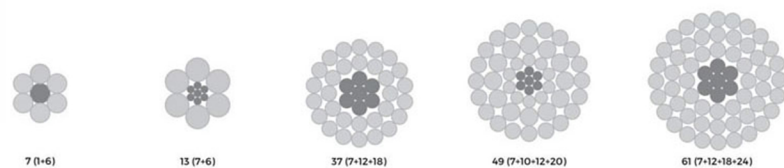
| EN 51082  |       |        |       |                             |        |                         |                      |                |                           |
|-----------|-------|--------|-------|-----------------------------|--------|-------------------------|----------------------|----------------|---------------------------|
| Code Name | Area  |        |       | Stranding and Wire Diameter |        | Approx Overall Diameter | Mass per unit length | Rated strength | Max DC Resistance at 20°C |
|           | Al.   | St.    | Total | Al.                         | St.    |                         |                      |                |                           |
|           | mm²   | mm²    | mm²   | mm                          | mm     |                         |                      |                |                           |
| Mole      | 10.6  | 1.77   | 12.4  | 6/1.50                      | 1/1.50 | 4.50                    | 42.8                 | 4.14           | 2.7027                    |
| Squirrel  | 21.0  | 3.50   | 24.5  | 6/2.11                      | 1/2.11 | 6.33                    | 84.7                 | 7.87           | 1.3659                    |
| Gopher    | 26.2  | 4.37   | 30.6  | 6/2.36                      | 1/2.36 | 7.08                    | 106.0                | 9.58           | 1.0919                    |
| Weasel    | 31.6  | 5.27   | 36.9  | 6/2.59                      | 1/2.59 | 7.77                    | 127.6                | 11.38          | 0.9065                    |
| Fox       | 36.7  | 6.11   | 42.8  | 6/2.79                      | 1/2.79 | 8.37                    | 148.1                | 13.21          | 0.7812                    |
| Ferret    | 42.4  | 7.07   | 49.5  | 6/3.00                      | 1/3.00 | 9.00                    | 171.2                | 15.27          | 0.6757                    |
| Rabbit    | 52.9  | 8.81   | 61.7  | 6/3.35                      | 1/3.35 | 10.1                    | 213.5                | 18.42          | 0.5419                    |
| Mink      | 63.1  | 10.50  | 73.6  | 6/3.66                      | 1/3.66 | 11.0                    | 254.9                | 21.67          | 0.4540                    |
| Skunk     | 63.2  | 36.90  | 100.1 | 12/2.59                     | 7/2.59 | 13.0                    | 463.0                | 52.79          | 0.4568                    |
| Beaver    | 75.0  | 12.50  | 87.5  | 6/3.99                      | 1/3.99 | 12.0                    | 302.9                | 25.76          | 0.3820                    |
| Horse     | 73.4  | 42.80  | 116.2 | 12/2.79                     | 7/2.79 | 14.0                    | 537.3                | 61.26          | 0.3936                    |
| Racoon    | 78.8  | 13.10  | 92.0  | 6/4.09                      | 1/4.09 | 12.3                    | 318.3                | 27.06          | 0.3635                    |
| Otter     | 83.9  | 14.00  | 97.9  | 6/4.22                      | 1/4.22 | 12.7                    | 338.8                | 28.81          | 0.3415                    |
| Cat       | 95.4  | 15.90  | 111.3 | 6/4.50                      | 1/4.50 | 13.5                    | 385.3                | 32.76          | 0.3003                    |
| Hare      | 105.0 | 17.50  | 122.5 | 6/4.72                      | 1/4.72 | 14.2                    | 423.8                | 36.04          | 0.2730                    |
| Dog       | 105.0 | 13.60  | 118.5 | 6/4.72                      | 7/1.57 | 14.2                    | 394.0                | 32.65          | 0.2733                    |
| Coyote    | 131.7 | 20.10  | 151.8 | 26/2.54                     | 7/1.91 | 15.9                    | 520.7                | 45.86          | 0.2192                    |
| Cougar    | 131.5 | 7.31   | 138.8 | 18/3.05                     | 1/3.05 | 15.3                    | 418.8                | 29.74          | 0.2188                    |
| Tiger     | 131.2 | 30.60  | 161.9 | 30/2.36                     | 7/2.36 | 16.5                    | 602.2                | 57.87          | 0.2202                    |
| Wolf      | 158.1 | 36.90  | 194.9 | 30/2.59                     | 7/2.59 | 18.1                    | 725.3                | 68.91          | 0.1829                    |
| Dingo     | 158.7 | 8.81   | 167.5 | 18/3.35                     | 1/3.35 | 16.8                    | 505.2                | 35.87          | 0.1814                    |
| Lynx      | 183.4 | 42.80  | 226.2 | 30/2.79                     | 7/2.79 | 19.5                    | 841.6                | 79.97          | 0.1576                    |
| Caracal   | 184.2 | 10.20  | 194.5 | 18/3.61                     | 1/3.61 | 18.1                    | 586.7                | 40.74          | 0.1562                    |
| Panther   | 212.1 | 49.50  | 261.5 | 30/3.00                     | 7/3.00 | 21.0                    | 973.1                | 92.46          | 0.1363                    |
| Lion      | 210.6 | 11.70  | 222.3 | 18/3.86                     | 1/3.86 | 19.3                    | 670.8                | 46.57          | 0.1366                    |
| Bear      | 238.3 | 55.60  | 293.9 | 30/3.18                     | 7/3.18 | 22.3                    | 1093.4               | 100.47         | 0.1213                    |
| Goat      | 264.4 | 61.70  | 326.1 | 30/3.35                     | 7/3.35 | 23.5                    | 1213.4               | 111.50         | 0.1093                    |
| Sheep     | 324.3 | 75.70  | 400.0 | 30/3.71                     | 7/3.71 | 26.0                    | 1488.2               | 135.13         | 0.0891                    |
| Antelope  | 375.1 | 87.50  | 462.6 | 30/3.99                     | 7/3.99 | 27.9                    | 1721.3               | 156.30         | 0.0771                    |
| Bison     | 374.1 | 48.50  | 422.6 | 54/2.97                     | 7/2.97 | 26.7                    | 1413.8               | 118.88         | 0.0773                    |
| Jaguar    | 381.7 | 49.50  | 431.2 | 54/3.00                     | 7/3.00 | 27.0                    | 1442.5               | 121.30         | 0.0758                    |
| Deer      | 429.6 | 100.20 | 529.8 | 30/4.27                     | 7/4.27 | 29.9                    | 1971.4               | 179.00         | 0.0673                    |
| Zebra     | 428.9 | 55.60  | 484.5 | 54/3.18                     | 7/3.18 | 28.6                    | 1620.8               | 131.92         | 0.0674                    |
| Elk       | 477.1 | 111.30 | 588.5 | 30/4.50                     | 7/4.50 | 31.5                    | 2189.5               | 198.80         | 0.0606                    |
| Camel     | 476.0 | 61.70  | 537.7 | 54/3.35                     | 7/3.35 | 30.2                    | 1798.8               | 146.40         | 0.0608                    |
| Moose     | 528.5 | 68.50  | 597.0 | 54/3.53                     | 7/3.53 | 31.8                    | 1997.3               | 159.92         | 0.0547                    |

Specifications

| IEC 61089   |      |      |       |                             |         |          |       |             |                |                           |
|-------------|------|------|-------|-----------------------------|---------|----------|-------|-------------|----------------|---------------------------|
| Code Number | Area |      |       | Stranding and Wire Diameter |         | Diameter |       | Linear Mass | Rated strength | Max DC Resistance at 20°C |
|             | Al.  | St.  | Total | Al.                         | St.     | Core     | Cond. |             |                |                           |
|             | mm²  | mm²  | mm²   | mm                          | mm      | mm       | mm    |             |                |                           |
| 16          | 16   | 2.67 | 18.7  | 6/1.84                      | 1/1.84  | 1.84     | 5.53  | 64.6        | 6.08           | 1.7934                    |
| 25          | 25   | 4.17 | 29.2  | 6/2.30                      | 1/2.30  | 2.3      | 6.91  | 100.9       | 9.13           | 1.1478                    |
| 40          | 40   | 6.67 | 46.7  | 6/2.91                      | 1/2.91  | 2.91     | 8.74  | 161.5       | 14.4           | 0.7174                    |
| 63          | 63   | 10.5 | 73.5  | 6/3.66                      | 1/3.66  | 3.66     | 11.0  | 254.4       | 21.63          | 0.4555                    |
| 100         | 100  | 16.7 | 117   | 6/4.61                      | 1/4.61  | 4.61     | 13.8  | 403.8       | 34.33          | 0.2869                    |
| 125         | 125  | 6.94 | 132   | 18/2.97                     | 1/2.97  | 2.97     | 14.9  | 397.9       | 29.17          | 0.2304                    |
| 125         | 125  | 20.4 | 145   | 26/2.47                     | 7/1.92  | 5.77     | 15.7  | 503.9       | 45.69          | 0.2310                    |
| 160         | 160  | 8.89 | 169   | 18/3.36                     | 1/3.36  | 3.36     | 16.8  | 509.3       | 36.18          | 0.1800                    |
| 160         | 160  | 26.1 | 186   | 26/2.80                     | 7/2.18  | 6.53     | 17.7  | 644.9       | 57.69          | 0.1805                    |
| 200         | 200  | 11.1 | 211   | 18/3.76                     | 1/3.76  | 3.76     | 18.8  | 636.7       | 44.22          | 0.1440                    |
| 200         | 200  | 32.6 | 233   | 26/3.13                     | 7/2.43  | 7.3      | 19.8  | 806.2       | 70.13          | 0.1444                    |
| 250         | 250  | 24.6 | 275   | 22/3.80                     | 7/2.11  | 6.34     | 21.6  | 880.6       | 68.72          | 0.1154                    |
| 250         | 250  | 40.7 | 291   | 26/3.50                     | 7/2.72  | 8.16     | 22.2  | 1007.7      | 87.67          | 0.1155                    |
| 315         | 315  | 21.8 | 37    | 45/2.99                     | 7/1.99  | 5.97     | 23.9  | 1039.3      | 79.03          | 0.0917                    |
| 315         | 315  | 51.3 | 366   | 26/3.93                     | 7/3.05  | 9.16     | 24.9  | 1269.7      | 106.83         | 0.0917                    |
| 400         | 400  | 27.7 | 428   | 45/3.36                     | 7/2.24  | 6.73     | 26.9  | 1320.1      | 98.36          | 0.0722                    |
| 400         | 400  | 51.9 | 452   | 54/3.07                     | 7/3.07  | 9.21     | 27.6  | 1510.3      | 123.04         | 0.0723                    |
| 450         | 450  | 31.1 | 481   | 45/3.57                     | 7/2.38  | 7.14     | 28.5  | 1485.2      | 107.47         | 0.0642                    |
| 450         | 450  | 58.3 | 508   | 54/3.26                     | 7/3.26  | 9.77     | 29.3  | 1699.1      | 138.42         | 0.0643                    |
| 500         | 500  | 34.6 | 535   | 45/3.76                     | 7/2.51  | 7.52     | 30.1  | 1652.2      | 199.41         | 0.0578                    |
| 500         | 500  | 64.8 | 565   | 54/3.43                     | 7/3.43  | 10.3     | 30.9  | 1887.9      | 153.8          | 0.0578                    |
| 560         | 560  | 38.7 | 599   | 45/3.98                     | 7/2.65  | 7.96     | 31.8  | 1848.2      | 133.74         | 0.0516                    |
| 560         | 560  | 70.9 | 631   | 54/3.63                     | 19/2.18 | 10.9     | 32.7  | 2103.4      | 172.59         | 0.0516                    |
| 630         | 630  | 43.6 | 674   | 45/4.22                     | 7/2.81  | 8.44     | 33.8  | 2079.2      | 150.45         | 0.0459                    |
| 630         | 630  | 79.8 | 710   | 54/3.85                     | 19/2.31 | 11.6     | 34.7  | 2366.3      | 191.77         | 0.0459                    |
| 710         | 710  | 49.1 | 759   | 45/4.48                     | 7/2.99  | 8.96     | 35.9  | 2343.2      | 169.56         | 0.0407                    |
| 710         | 710  | 89.9 | 800   | 54/4.09                     | 19/2.45 | 12.3     | 36.8  | 2666.8      | 216.12         | 0.0407                    |
| 800         | 800  | 34.6 | 835   | 72/3.76                     | 7/2.51  | 7.52     | 37.6  | 2480.2      | 167.41         | 0.0361                    |
| 800         | 800  | 66.7 | 867   | 84/3.48                     | 7/3.48  | 10.4     | 38.3  | 2732.7      | 205.33         | 0.0362                    |
| 800         | 800  | 101  | 901   | 54/4.44                     | 19/2.61 | 13       | 39.1  | 3004.9      | 243.52         | 0.0362                    |
| 900         | 900  | 38.9 | 939   | 72/3.99                     | 7/2.66  | 7.98     | 39.9  | 2790.2      | 188.33         | 0.0321                    |
| 900         | 900  | 75   | 975   | 84/3.69                     | 7/3.69  | 11.1     | 40.6  | 3074.2      | 226.5          | 0.0322                    |
| 1000        | 1000 | 43.2 | 1043  | 72/4.21                     | 7/2.80  | 8.41     | 42.1  | 3100.3      | 209.26         | 0.0289                    |
| 1120        | 1120 | 47.3 | 1167  | 72/4.45                     | 19/1.78 | 8.9      | 44.5  | 3464.9      | 234.53         | 0.0258                    |
| 1120        | 1120 | 91.2 | 1211  | 84/4.12                     | 19/2.47 | 12.4     | 45.3  | 3811.5      | 283.17         | 0.0258                    |
| 1250        | 1250 | 102  | 1352  | 84/4.35                     | 19/2.61 | 13.1     | 47.9  | 4253.9      | 316.04         | 0.0232                    |
| 1250        | 1250 | 52.8 | 1303  | 72/4.70                     | 19/1.88 | 9.4      | 47.0  | 3867.1      | 261.75         | 0.0231                    |

ALUMINIUM ALLOY CONDUCTOR STEEL REINFORCED

AACSR



Cable Structure

Steel core

Aluminium alloy strand

Standard

ASTM B711 DIN 48206 IEC 61089

Applications

AACSR is suitable for long-span medium-voltage, high-voltage and ultra-high-voltage overhead lines.

For example, transmitting electricieity in mountains, hills, or severely frozen areas.

AACSR is highly strong, and is ideal for transmitting power over long spans or under very demanding mechanical conditions.

Specifications

| ASTM B711    |            |            |                       |                         |                       |                         |                  |             |                |                           |
|--------------|------------|------------|-----------------------|-------------------------|-----------------------|-------------------------|------------------|-------------|----------------|---------------------------|
| Nominal Area | Alloy Aera | Steel Area | Number of Alloy Wires | Diameter of Alloy wires | Number of Steel Wires | Diameter of Steel Wires | Overall Diameter | Linear Mass | Rated strength | Max DC Resistance at 20°C |
| mm²          | mm²        | mm²        |                       |                         | mm                    |                         | mm               | kg/km       | daN            | Ω/km                      |
| 163          | 140        | 23         | 26                    | 2.62                    | 7                     | 2.04                    | 16.6             | 560         | 7500           | 0.240                     |
| 173          | 140        | 33         | 30                    | 2.44                    | 7                     | 2.44                    | 17.1             | 650         | 8740           | 0.240                     |
| 186          | 160        | 26         | 26                    | 2.80                    | 7                     | 2.18                    | 17.1             | 645         | 8560           | 0.210                     |
| 198          | 160        | 38         | 30                    | 2.61                    | 7                     | 2.61                    | 18.3             | 740         | 10600          | 0.210                     |
| 209          | 180        | 29         | 26                    | 2.97                    | 7                     | 2.31                    | 18.8             | 725         | 9510           | 0.187                     |
| 222          | 180        | 42         | 30                    | 2.76                    | 7                     | 2.76                    | 19.3             | 825         | 11200          | 0.187                     |
| 232          | 200        | 32         | 26                    | 3.13                    | 7                     | 2.43                    | 19.8             | 800         | 10600          | 0.168                     |
| 247          | 200        | 47         | 30                    | 2.91                    | 7                     | 2.91                    | 20.4             | 920         | 12400          | 0.168                     |
| 260          | 224        | 36         | 26                    | 3.31                    | 7                     | 2.57                    | 21.0             | 900         | 11800          | 0.150                     |
| 276          | 224        | 52         | 30                    | 3.08                    | 7                     | 3.08                    | 21.6             | 1025        | 13900          | 0.150                     |
| 291          | 250        | 41         | 26                    | 3.50                    | 7                     | 2.72                    | 22.2             | 1010        | 12900          | 0.135                     |
| 308          | 250        | 58         | 30                    | 3.26                    | 7                     | 3.26                    | 22.8             | 1145        | 15600          | 0.135                     |
| 326          | 280        | 46         | 26                    | 3.70                    | 7                     | 2.88                    | 23.4             | 1140        | 14400          | 0.120                     |
| 345          | 280        | 65         | 30                    | 3.45                    | 7                     | 3.45                    | 24.2             | 1280        | 17100          | 0.120                     |
| 367          | 315        | 52         | 26                    | 3.93                    | 7                     | 3.06                    | 24.9             | 1276        | 16300          | 0.107                     |
| 387          | 315        | 72         | 30                    | 3.66                    | 19                    | 2.20                    | 25.6             | 1433        | 19000          | 0.107                     |
| 413          | 355        | 58         | 26                    | 4.17                    | 7                     | 3.24                    | 26.4             | 1433        | 18300          | 0.095                     |
| 436          | 355        | 81         | 30                    | 3.88                    | 19                    | 2.33                    | 27.2             | 1614        | 21100          | 0.095                     |
| 465          | 400        | 65         | 26                    | 4.43                    | 7                     | 3.45                    | 28.1             | 1612        | 20700          | 0.0842                    |
| 491          | 400        | 91         | 30                    | 4.12                    | 19                    | 2.47                    | 28.8             | 1816        | 23700          | 0.0842                    |
| 509          | 450        | 59         | 54                    | 3.26                    | 19                    | 1.98                    | 29.5             | 1703        | 21500          | 0.0748                    |
| 563          | 500        | 63         | 54                    | 3.43                    | 19                    | 2.06                    | 30.9             | 1873        | 22900          | 0.0673                    |
| 631          | 560        | 71         | 54                    | 3.63                    | 19                    | 2.18                    | 32.7             | 2101        | 25700          | 0.0601                    |
| 710          | 630        | 80         | 54                    | 3.85                    | 19                    | 2.31                    | 34.6             | 2365        | 28600          | 0.0534                    |
| 800          | 710        | 90         | 54                    | 4.09                    | 19                    | 2.45                    | 36.8             | 2665        | 32200          | 0.0474                    |
| 901          | 800        | 101        | 54                    | 4.34                    | 19                    | 2.60                    | 39.0             | 3000        | 36300          | 0.0420                    |
| 973          | 900        | 73         | 84                    | 3.69                    | 19                    | 2.21                    | 40.6             | 3062        | 35500          | 0.0374                    |
| 1081         | 1000       | 81         | 84                    | 3.89                    | 19                    | 2.33                    | 42.8             | 3395        | 39100          | 0.0337                    |
| 1211         | 1120       | 91         | 84                    | 4.12                    | 19                    | 2.47                    | 45.3             | 3803        | 43900          | 0.0300                    |
| 1352         | 1250       | 102        | 84                    | 4.35                    | 19                    | 2.61                    | 47.8             | 4250        | 49000          | 0.0270                    |

Specifications

| DIN 48206    |            |            |                       |                         |                       |                         |                  |             |                |                           |
|--------------|------------|------------|-----------------------|-------------------------|-----------------------|-------------------------|------------------|-------------|----------------|---------------------------|
| Nominal Area | Alloy Aera | Steel Area | Number of Alloy Wires | Diameter of Alloy wires | Number of Steel Wires | Diameter of Steel Wires | Overall Diameter | Linear Mass | Rated strength | Max DC Resistance at 20°C |
| mm²          | mm²        | mm²        |                       |                         | mm                    |                         | mm               | kg/km       | daN            | Ω/km                      |
| 16/2.5       | 15.27      | 2.54       | 6                     | 1.80                    | 1                     | 1.80                    | 5.4              | 62          | 748            | 2.1800                    |
| 25/4         | 23.86      | 3.98       | 6                     | 2.25                    | 1                     | 2.25                    | 6.8              | 97          | 1171           | 1.3952                    |
| 35/6         | 34.35      | 5.73       | 6                     | 2.70                    | 1                     | 2.70                    | 8.1              | 140         | 1685           | 0.9689                    |
| 44/32        | 43.98      | 31.67      | 14                    | 2.00                    | 7                     | 2.40                    | 11.2             | 373         | 5027           | 0.7625                    |
| 50/8         | 48.25      | 8.04       | 6                     | 3.20                    | 1                     | 3.20                    | 9.6              | 196         | 2366           | 0.6898                    |
| 50/30        | 51.17      | 29.85      | 12                    | 2.33                    | 7                     | 2.33                    | 11.7             | 378         | 5024           | 0.6547                    |
| 70/12        | 69.89      | 11.4       | 26                    | 1.85                    | 7                     | 1.44                    | 11.7             | 284         | 3399           | 0.4791                    |
| 95/15        | 94.39      | 15.33      | 26                    | 2.15                    | 7                     | 1.67                    | 13.6             | 383         | 4582           | 0.3547                    |
| 95/55        | 96.51      | 56.3       | 12                    | 3.20                    | 7                     | 3.20                    | 16.0             | 714         | 9475           | 0.3471                    |
| 105/75       | 105.67     | 75.55      | 14                    | 3.10                    | 19                    | 2.25                    | 17.5             | 899         | 12014          | 0.3174                    |
| 120/20       | 121.57     | 19.85      | 26                    | 2.44                    | 7                     | 1.90                    | 15.5             | 494         | 5914           | 0.2754                    |
| 120/70       | 122.15     | 71.25      | 12                    | 3.60                    | 7                     | 3.60                    | 18.0             | 904         | 11912          | 0.2742                    |
| 125/30       | 127.92     | 29.85      | 30                    | 2.33                    | 7                     | 2.33                    | 16.3             | 590         | 7280           | 0.2621                    |
| 150/25       | 148.86     | 24.25      | 26                    | 2.70                    | 7                     | 2.10                    | 17.1             | 604         | 7236           | 0.2249                    |
| 170/40       | 171.77     | 40.08      | 30                    | 2.70                    | 7                     | 2.70                    | 18.9             | 794         | 9775           | 0.1952                    |
| 185/30       | 183.78     | 29.85      | 26                    | 3.00                    | 7                     | 2.33                    | 19.0             | 744         | 8922           | 0.1822                    |
| 210/35       | 209.1      | 34.09      | 26                    | 3.20                    | 7                     | 2.49                    | 20.3             | 848         | 10167          | 0.1601                    |
| 210/50       | 212.06     | 49.48      | 30                    | 3.00                    | 7                     | 3.00                    | 21.0             | 979         | 12068          | 0.1581                    |
| 230/30       | 230.91     | 29.85      | 24                    | 3.50                    | 7                     | 2.33                    | 21.0             | 874         | 10308          | 0.1449                    |
| 240/40       | 243.05     | 39.49      | 26                    | 3.45                    | 7                     | 2.68                    | 21.8             | 985         | 11802          | 0.1378                    |
| 265/35       | 263.66     | 34.09      | 24                    | 3.74                    | 7                     | 2.49                    | 22.4             | 998         | 11771          | 0.1269                    |
| 300/50       | 304.26     | 49.48      | 26                    | 3.86                    | 7                     | 3.00                    | 24.5             | 1233        | 14779          | 0.1101                    |
| 305/40       | 304.62     | 39.49      | 54                    | 2.68                    | 7                     | 2.68                    | 24.1             | 1155        | 13612          | 0.1101                    |
| 340/30       | 339.29     | 29.85      | 48                    | 3.00                    | 7                     | 2.33                    | 25.0             | 1174        | 13494          | 0.0988                    |
| 380/50       | 381.7      | 49.48      | 54                    | 3.00                    | 7                     | 3.00                    | 27.0             | 1448        | 17056          | 0.0879                    |
| 385/35       | 386.04     | 34.09      | 48                    | 3.2                     | 7                     | 2.49                    | 26.7             | 1336        | 15369          | 0.0868                    |
| 435/55       | 434.29     | 56.3       | 54                    | 3.2                     | 7                     | 3.20                    | 28.8             | 1647        | 19406          | 0.0772                    |
| 450/40       | 448.71     | 39.49      | 48                    | 3.45                    | 7                     | 2.68                    | 28.7             | 1553        | 17848          | 0.0747                    |
| 490/65       | 490.28     | 63.55      | 54                    | 3.4                     | 7                     | 3.40                    | 30.6             | 1860        | 21907          | 0.0684                    |
| 550/70       | 549.65     | 71.25      | 54                    | 3.6                     | 7                     | 3.60                    | 32.4             | 2085        | 24560          | 0.0610                    |
| 560/50       | 561.7      | 49.48      | 48                    | 3.86                    | 7                     | 3.00                    | 32.2             | 1943        | 22348          | 0.0597                    |
| 680/85       | 678.58     | 85.95      | 54                    | 4                       | 7                     | 2.40                    | 36.0             | 2564        | 30084          | 0.0494                    |

Specifications

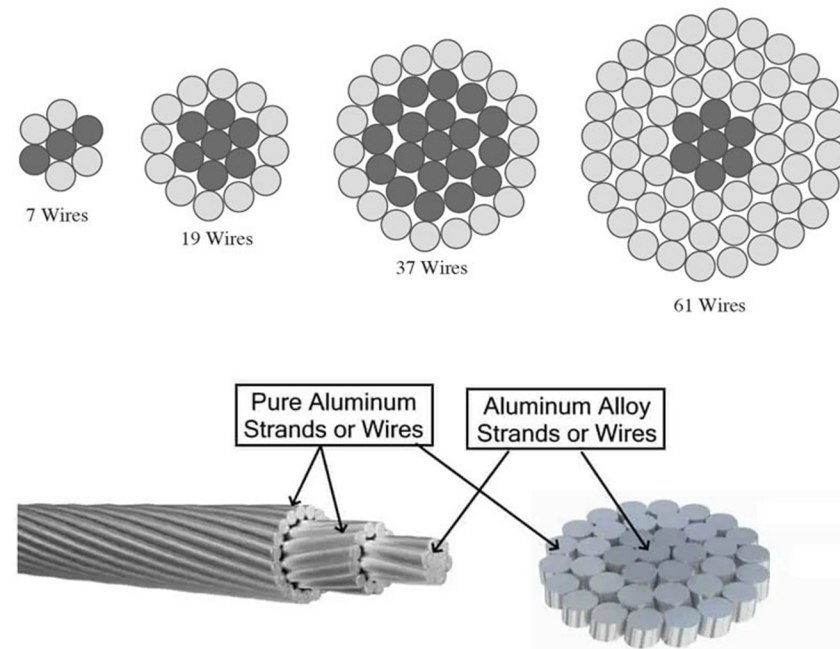
| IEC 61089   |       |      |       |                             |         |          |       |             |                |                           |
|-------------|-------|------|-------|-----------------------------|---------|----------|-------|-------------|----------------|---------------------------|
| Code Number | Area  |      |       | Stranding and Wire Diameter |         | Diameter |       | Linear Mass | Rated strength | Max DC Resistance at 20°C |
|             | Alloy | St.  | Total | Alloy                       | St.     | Core     | Cond. |             |                |                           |
|             | mm²   | mm²  | mm²   | mm                          | mm      | mm       | mm    |             |                |                           |
| 16          | 18.4  | 3.07 | 21.5  | 6/1.98                      | 1/1.98  | 1.98     | 5.93  | 74.4        | 9.02           | 1.7934                    |
| 25          | 28.8  | 4.8  | 33.6  | 6/2.47                      | 1/2.47  | 2.47     | 7.41  | 116.2       | 13.96          | 1.1478                    |
| 40          | 46    | 7.67 | 53.7  | 6/3.13                      | 1/3.13  | 3.13     | 9.38  | 185.9       | 22.02          | 0.7174                    |
| 63          | 72.5  | 12.1 | 84.6  | 6/3.92                      | 1/3.92  | 3.92     | 11.8  | 292.8       | 34.68          | 0.4555                    |
| 100         | 115   | 6.39 | 121   | 18/2.85                     | 1/2.85  | 2.85     | 14.3  | 366.4       | 41.24          | 0.2880                    |
| 125         | 144   | 7.99 | 152   | 18/3.19                     | 1/3.19  | 3.19     | 16    | 458.0       | 51.23          | 0.2304                    |
| 125         | 144   | 23.4 | 167   | 26/2.65                     | 7/2.06  | 6.19     | 16.8  | 579.9       | 69.86          | 0.2310                    |
| 160         | 184   | 10.2 | 194   | 18/3.61                     | 1/3.61  | 3.61     | 18    | 586.2       | 65.58          | 0.1800                    |
| 160         | 184   | 30   | 214   | 26/3.00                     | 7/2.34  | 7.01     | 19    | 742.3       | 88.52          | 0.1805                    |
| 200         | 230   | 12.8 | 243   | 18/4.04                     | 1/4.04  | 4.04     | 20.2  | 732.8       | 81.97          | 0.1440                    |
| 200         | 230   | 37.5 | 268   | 26/3.36                     | 7/2.61  | 7.83     | 21.3  | 927.9       | 110.64         | 0.1444                    |
| 250         | 288   | 28.3 | 316   | 22/4.08                     | 7/2.27  | 6.8      | 23.1  | 1013.5      | 117.09         | 0.1154                    |
| 250         | 288   | 46.9 | 335   | 26/3.75                     | 7/2.92  | 8.76     | 23.8  | 1159.6      | 138.31         | 0.1155                    |
| 315         | 363   | 25.1 | 388   | 45/3.20                     | 7/2.14  | 6.41     | 25.8  | 1196.5      | 136.28         | 0.0917                    |
| 315         | 363   | 59   | 422   | 26/4.21                     | 7/3.28  | 9.83     | 26.7  | 1461.4      | 171.90         | 0.0917                    |
| 400         | 460   | 31.8 | 492   | 45/3.61                     | 7/2.41  | 7.22     | 28.9  | 1519.4      | 172.10         | 0.0722                    |
| 400         | 460   | 59.7 | 520   | 54/3.29                     | 7/3.29  | 9.88     | 29.7  | 1738.3      | 201.46         | 0.0723                    |
| 450         | 518   | 35.8 | 554   | 45/3.83                     | 7/2.55  | 7.66     | 30.6  | 1709.3      | 193.61         | 0.0642                    |
| 450         | 518   | 67.1 | 585   | 54/3.49                     | 7/3.49  | 10.2     | 31.5  | 1955.6      | 226.64         | 0.0643                    |
| 500         | 575   | 39.8 | 615   | 45/4.04                     | 7/2.69  | 8.07     | 32.3  | 1899.3      | 215.12         | 0.0578                    |
| 500         | 575   | 74.6 | 650   | 54/3.68                     | 7/3.68  | 11.1     | 33.2  | 2172.9      | 251.82         | 0.0578                    |
| 560         | 645   | 44.6 | 689   | 45/4.27                     | 7/2.85  | 8.54     | 34.2  | 2127.2      | 240.93         | 0.0516                    |
| 560         | 645   | 81.6 | 726   | 54/3.90                     | 19/2.34 | 11.7     | 35.1  | 2420.9      | 283.21         | 0.0516                    |
| 630         | 725   | 31.3 | 756   | 72/3.58                     | 7/2.39  | 7.16     | 35.8  | 2248.0      | 249.62         | 0.0459                    |
| 630         | 725   | 91.8 | 817   | 54/4.13                     | 19/2.48 | 12.4     | 37.2  | 2723.5      | 318.61         | 0.0459                    |
| 710         | 817   | 35.3 | 852   | 72/3.80                     | 7/2.53  | 7.6      | 38    | 2533.4      | 281.32         | 0.0407                    |
| 710         | 817   | 104  | 921   | 54/4.39                     | 19/2.63 | 13.2     | 39.5  | 3069.4      | 359.06         | 0.0407                    |
| 800         | 921   | 39.8 | 961   | 72/4.04                     | 7/2.69  | 8.07     | 40.4  | 2854.6      | 316.98         | 0.0361                    |
| 800         | 921   | 76.7 | 997   | 84/3.74                     | 7/3.74  | 11.2     | 41.1  | 3145.1      | 356.03         | 0.0362                    |
| 900         | 1036  | 44.8 | 1081  | 72/4.28                     | 7/2.85  | 8.56     | 42.8  | 3211.4      | 356.60         | 0.0321                    |
| 900         | 1036  | 86.3 | 1122  | 84/3.96                     | 7/3.96  | 11.9     | 43.6  | 3538.3      | 400.53         | 0.0322                    |
| 1000        | 1151  | 93.7 | 1245  | 84/4.18                     | 19/2.61 | 12.5     | 45.9  | 3916.8      | 446.37         | 0.0289                    |
| 1120        | 1289  | 105  | 1394  | 84/4.42                     | 19/2.65 | 13.3     | 48.6  | 4386.8      | 499.93         | 0.0258                    |



## ALUMINIUM CONDUCTOR ALUMINIUM ALLOY

### REINFORCED

### ACAR



**ACAR Aluminum Conductor Aluminum-alloy Reinforced**

### Cable Structure

Aluminium alloy core

Aluminium strand

### Standard

IEC 61089

### Applications

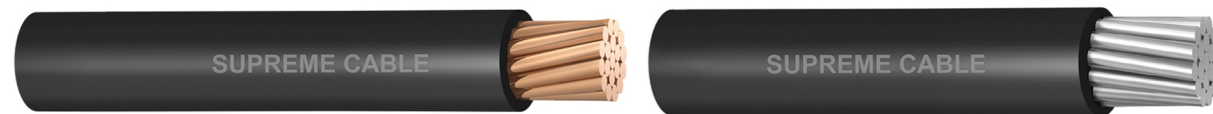
The advantages of ACAR are wide adaptability, strong bearing capacity and good corrosion resistance.

It is often used in high-temperature areas, high-altitude areas and other high-intensity occasions.

### Specifications

| Code Number | Diameter |       | Number of Wires |       | Area            |                 |                 | Linear Mass<br>kg/km | Rated Strength<br>kN | Max D.C. Resistance<br>at 20°C<br>Ω/km |
|-------------|----------|-------|-----------------|-------|-----------------|-----------------|-----------------|----------------------|----------------------|--|
|             | Wire     | Cond. | Al.             | Alloy | Al.             | Alloy           | Total           |                      |                      |  |
|             | mm       | mm    | mm              | mm    | mm <sup>2</sup> | mm <sup>2</sup> | mm <sup>2</sup> |                      |                      |  |
| 16          | 1.76     | 5.28  | 4               | 3     | 9.73            | 7.3             | 17              | 46.6                 | 3.85                 | 1.7896                                 |
| 25          | 2.2      | 6.6   | 4               | 3     | 15.2            | 11.4            | 26.6            | 72.8                 | 5.93                 | 1.1453                                 |
| 40          | 2.78     | 8.35  | 4               | 3     | 24.3            | 18.3            | 42.6            | 116.5                | 9.25                 | 0.7158                                 |
| 63          | 3.49     | 10.5  | 4               | 3     | 38.3            | 28.7            | 67.1            | 183.5                | 14.38                | 0.4545                                 |
| 100         | 4.4      | 13.2  | 4               | 3     | 60.8            | 45.6            | 106             | 291.2                | 22.52                | 0.2863                                 |
| 125         | 2.97     | 14.9  | 12              | 7     | 83.3            | 48.6            | 132             | 362.7                | 27.79                | 0.2302                                 |
| 160         | 3.36     | 16.8  | 12              | 7     | 107             | 62.2            | 169             | 464.2                | 35.04                | 0.1798                                 |
| 200         | 3.76     | 18.8  | 12              | 7     | 133             | 77.8            | 211             | 580.3                | 43.13                | 0.1439                                 |
| 250         | 4.21     | 21    | 12              | 7     | 167             | 97.2            | 264             | 725.3                | 53.92                | 0.1151                                 |
| 250         | 3.04     | 21.3  | 18              | 19    | 131             | 138             | 269             | 742.2                | 60.39                | 0.1154                                 |
| 315         | 3.34     | 23.4  | 30              | 7     | 263             | 61.3            | 324             | 892.6                | 60.52                | 0.0916                                 |
| 315         | 3.42     | 23.9  | 18              | 19    | 165             | 174             | 339             | 935.1                | 76.09                | 0.0916                                 |
| 400         | 3.76     | 26.3  | 30              | 7     | 334             | 77.8            | 411             | 1133.5               | 75.19                | 0.0721                                 |
| 400         | 3.85     | 27    | 18              | 19    | 210             | 221             | 431             | 1187.5               | 95.58                | 0.0721                                 |
| 450         | 3.99     | 27.9  | 30              | 7     | 375             | 87.6            | 463             | 1275.2               | 84.59                | 0.0641                                 |
| 450         | 4.08     | 28.6  | 18              | 19    | 236             | 249             | 485             | 1335.9               | 107.52               | 0.0641                                 |
| 500         | 4.21     | 29.4  | 30              | 7     | 417             | 97.3            | 514             | 1416.9               | 93.98                | 0.0577                                 |
| 500         | 4.31     | 30.1  | 18              | 19    | 262             | 277             | 539             | 1484.3               | 119.47               | 0.0577                                 |
| 560         | 4.45     | 31.2  | 30              | 7     | 467             | 109             | 576             | 1586.9               | 105.26               | 0.0515                                 |
| 560         | 3.45     | 31    | 54              | 7     | 504             | 65.4            | 570             | 1571.9               | 101.54               | 0.0516                                 |
| 630         | 3.71     | 33.4  | 42              | 19    | 454             | 205             | 660             | 1820                 | 130.25               | 0.0458                                 |
| 630         | 3.79     | 34.1  | 24              | 37    | 271             | 417             | 688             | 1897.5               | 160.19               | 0.0458                                 |
| 710         | 3.94     | 35.5  | 42              | 19    | 512             | 232             | 743             | 2051.2               | 146.78               | 0.0407                                 |
| 710         | 4.02     | 36.2  | 24              | 37    | 305             | 470             | 775             | 2138.4               | 180.53               | 0.0407                                 |
| 800         | 4.18     | 37.6  | 42              | 19    | 577             | 261             | 838             | 2311.2               | 165.39               | 0.0361                                 |
| 800         | 4.27     | 38.4  | 24              | 37    | 344             | 530             | 873             | 2409.5               | 203.41               | 0.0361                                 |
| 900         | 4.43     | 39.9  | 42              | 19    | 649             | 294             | 942             | 2600.1               | 186.06               | 0.0321                                 |
| 900         | 3.66     | 40.2  | 54              | 37    | 567             | 388             | 955             | 2638.4               | 199.54               | 0.0321                                 |
| 1000        | 3.8      | 41.8  | 72              | 19    | 816             | 215             | 1032            | 2849.1               | 190.94               | 0.0289                                 |
| 1000        | 3.85     | 42.4  | 54              | 37    | 630             | 432             | 1061            | 2931.6               | 221.71               | 0.0289                                 |
| 1120        | 4.02     | 44.2  | 72              | 19    | 914             | 241             | 1155            | 3191                 | 213.85               | 0.0258                                 |
| 1120        | 4.08     | 44.9  | 54              | 37    | 705             | 483             | 1189            | 3283.4               | 248.32               | 0.0258                                 |
| 1250        | 4.25     | 46.7  | 72              | 19    | 1020            | 269             | 1289            | 3561.4               | 238.68               | 0.0231                                 |
| 1250        | 4.31     | 47.4  | 54              | 37    | 787             | 539             | 1327            | 3664.5               | 277.14               | 0.0231                                 |
| 1400        | 4.5      | 49.4  | 72              | 19    | 1143            | 302             | 1444            | 3988.8               | 267.32               | 0.0207                                 |





0.6/1 (1.2) kV, NF2X / NFA2X

## Aerial Bundled Conductor, Twisted Cable

### Construction

Conductor: NF2X: Stranded Copper Conductor

NFA2X: Stranded All Aluminium Conductor (AAC)

Insulation: Extrude of XLPE.

**Application:** Bundle conductor for overhead distribution network without and with public lighting.  
(between pole to pole)

### Standard

**European standard:** HD 626 S1, VDE 0276-626

**Indonesia Standard:** SPLN D3.010-1 ; 2014, SPLN 42-10, SNI 04-1906:1990

(Other specifications are available upon request)

### Technical data:

Nominal voltage:  $U_0/U = 0,6/1$  kV

Test voltage: 3.5 kV

Temperature range: during installation: -5 °C

operating temperature: -30 °C up to +90 °C

at short circuit of max. 5 s: 250 °C

Minimum Bending Radius  $12 \times$  overall diameter

**Certificates:** CE,CCC,RoHS, KEMA and more others at request.

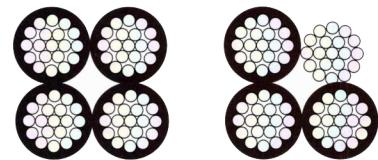
### Specifications

| Nom.Cross-section Area | Nominal Thickness Insulation | Approx. Twisted Diameter | cable Weight | Max. Conductor Resistance at 20°C | Current Carrying Capacity at 35°C |
|------------------------|------------------------------|--------------------------|--------------|-----------------------------------|-----------------------------------|
| mm <sup>2</sup>        | mm                           | mm                       | km/kg        | Ω/km                              | A                                 |
| NF2X                   |                              |                          |              |                                   |                                   |
| 2 × 6 rm               | 1.2                          | 13.0                     | 136          | 3.080                             | 54                                |
| 2 × 10 rm              | 1.2                          | 14.0                     | 211          | 1.830                             | 73                                |
| 2 × 16 rm              | 1.2                          | 16.0                     | 334          | 1.150                             | 97                                |
| 4 × 6 rm               | 1.2                          | 15,7                     | 258          | 3.080                             | 54                                |
| 4 × 10 rm              | 1.2                          | 17.0                     | 422          | 1.830                             | 73                                |
| 4 × 16 rm              | 1.2                          | 19.0                     | 664          | 1.150                             | 97                                |
| 4 × 25 rm              | 1.4                          | 24.0                     | 1008         | 0.727                             | 133                               |
| NFA2X                  |                              |                          |              |                                   |                                   |
| 2 × 10 rm              | 1.2                          | 14.0                     | 94           | 3.080                             | 54                                |
| 2 × 16 rm              | 1.2                          | 16.0                     | 138          | 1.910                             | 72                                |
| 4 × 10 rm              | 1.2                          | 17.0                     | 187          | 3.080                             | 54                                |
| 4 × 16 rm              | 1.2                          | 19.0                     | 272          | 1.910                             | 72                                |
| 4 × 25 rm              | 1.4                          | 24.0                     | 423          | 1200                              | 102                               |
| 4 × 35 rm              | 1.6                          | 27.0                     | 564          | 0.868                             | 125                               |

## 0.6/1(1.2)kV AL/XLPE(PE) Insulated NFA2X-T/NFA2X Aerial Bundled Cables without Street Lighting Conductor



1 Phase conductor + Messenger conductor



3 Phase conductors + 1 Messenger conductor

### Description

The aerial Bundled cables designed for overhead distribution lines have an insulated neutral messenger made of AAAC, which the insulated aluminium phase conductor are helically wound over it. Cables are rated at 0.6/1(1.2)kV and conform to IEC60502.

### Cable Structure

1 Conductor:

(a)Phase - The phase conductor shall be of H68 Condition aluminium conductor and compacted circular stranded.

(b)Neutral or messenger - The Neutral or messenger conductor shall be of aluminium alloy conductor and compacted circular stranded.

2 Insulation:

The phase, neutral conductors shall be extruded with polyethylene(PE) as insulation.

**European standard:** HD 626 S1, VDE 0276-626

**Indonesia Standard:**SPLN 42-10:1993 & SNI 04-1906:1990

(Other specifications are available upon request)

Phase conductor

| Number of cores | Nom.Cross-section Area | Minimum number of wires | Insulation Thickness | Diameter of insulated core | Conductor Max. Resistance at 20°C | Current rating at still wind, ambient temperature=30°C<br>Conductor temperature=75°C |
|-----------------|------------------------|-------------------------|----------------------|----------------------------|-----------------------------------|--|
|                 | mm <sup>2</sup>        |                         | mm                   | mm                         | Ω/km                              | A  |
| 1               | 16                     | 6                       | 1                    | 6.8                        | 1.91                              | 61   |
| 3               | 16                     | 6                       | 1.2                  | 8.5                        | 1.20                              | 61   |
| 3               | 25                     | 6                       | 1.2                  | 6.8                        | 0.868                             | 84   |
| 3               | 35                     | 6                       | 1.6                  | 9.5                        | 0.320                             | 104  |
| 3               | 50                     | 6                       | 2.0                  | 11.2                       | 0.253                             | 129  |
| 3               | 70                     | 12                      | 1                    | 13.0                       | 0.206                             | 167  |
| 3               | 95                     | 15                      | 1.4                  | 15.1                       | 1.91                              | 209  |
| 3               | 120                    | 15                      | 1.4                  | 16.6                       | 0.641                             | 246  |
| 3               | 150                    | 30                      | 1.6                  | 18.4                       | 0.443                             | 283  |
| 3               | 185                    | 30                      | 1.8                  | 20.6                       | 0.164                             | 332  |

Messenger conductor

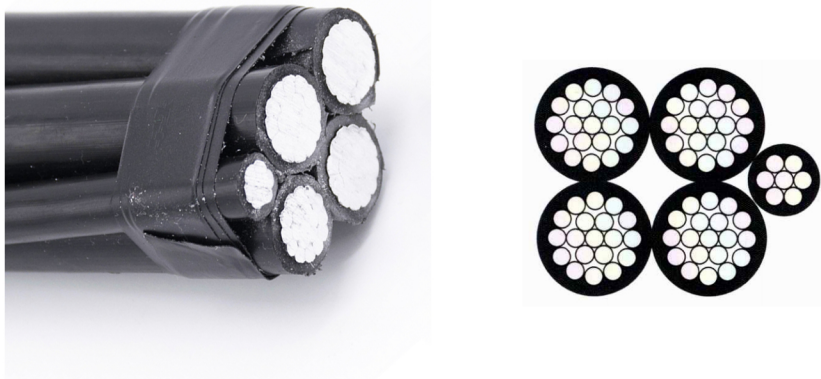
| Number of cores | Nom.Cross-section Area | Minimum number of wires | Insulation Thickness | Diameter of insulated core | Conductor Max. Resistance at 20°C | Calculated breaking load |
|-----------------|------------------------|-------------------------|----------------------|----------------------------|-----------------------------------|--------------------------|
|                 | mm <sup>2</sup>        |                         | mm                   | mm                         | Ω/km                              | kN                       |
| 6               | 25                     | 1.2                     | 1.2                  | 8.5                        | 1.312                             | 6.4                      |
| 6               | 25                     | 1.2                     | 1.2                  | 8.5                        | 1.312                             | 6.4                      |
| 6               | 25                     | 1.2                     | 1.2                  | 8.5                        | 1.312                             | 6.4                      |
| 6               | 25                     | 1.2                     | 1.2                  | 13.1                       | 1.312                             | 6.4                      |
| 6               | 35                     | 1.2                     | 1.2                  | 8.5                        | 0.943                             | 8.9                      |
| 6               | 50                     | 1.4                     | 1.4                  | 9.5                        | 0.693                             | 12.1                     |
| 12              | 70                     | 1.4                     | 1.4                  | 11.2                       | 0.469                             | 18.0                     |
| 12              | 70                     | 1.6                     | 1.4                  | 13.1                       | 0.469                             | 18.0                     |
| 15              | 95                     | 1.6                     | 1.6                  | 15.1                       | 0.349                             | 24.2                     |
| 15              | 120                    | 1.4                     | 1.6                  | 16.6                       | 0.273                             | 30.8                     |

Completed cable

| Approx. overall diameter | Approx. weight of cable | Packing length |
|--------------------------|-------------------------|----------------|
| mm                       | kg/km                   | m/drum         |
| 15.3                     | 400                     | 1000           |
| 19.0                     | 500                     | 1000           |
| 23.2                     | 160                     | 1000           |
| 25.6                     | 290                     | 1000           |
| 30.0                     | 680                     | 1000           |
| 34.9                     | 920                     | 1000           |
| 40.6                     | 1270                    | 500            |
| 44.1                     | 1510                    | 500            |
| 49.2                     | 1870                    | 500            |
| 54.9                     | 2340                    | 500            |

0.6/1(1.2)kV AL/XLPE(PE) Insulated

Aerial Bundled Cables with Street Lighting Conductor



3 Phase conductors + 1 Messenger conductor + 1 Street lighting conductor

Description

The aerial Bundled cables designed for overhead distribution lines have an insulated neutral messenger made of AAAC, which the insulated aluminium phase conductor are helically wound over it. Cables are rated at 0.6/1(1.2)kV and conform to IEC60502.

Cable Structure

1 Conductor:

- a)Phase - The phase conductor shall be of H68 Condition aluminium conductor and compacted circular stranded.
- b)Neutral or messenger - The Neutral or messenger conductor shall be of aluminium alloy conductor and compacted circular stranded
- c)Street Lighting- The street lighting conductors shall be of H68 condition aluminium conductor and compacted circular stranded..

2 Insulation:

The phase, neutral conductors shall be extruded with polyethylene(PE) as insulation.

Phase conductor

| Number of cores | Nom.Cross-section Area | Minimum number of wires | Insulation Thickness | Diameter of insulated core | Conductor Max. Resistance at 20°C | Current rating at still wind, ambient temperature=30°C<br>Conductor temperature=75°C |
|-----------------|------------------------|-------------------------|----------------------|----------------------------|-----------------------------------|--|
|                 | mm <sup>2</sup>        |                         | mm                   | mm                         | Ω/km                              | A  |
| 3               | 25                     | 6                       | 1.2                  | 8.5                        | 1.2                               | 84   |
| 3               | 35                     | 6                       | 1.2                  | 9.5                        | 0.868                             | 104  |
| 3               | 50                     | 6                       | 1.4                  | 11.2                       | 0.641                             | 129  |
| 3               | 70                     | 12                      | 1.4                  | 13.0                       | 0.443                             | 167  |
| 3               | 95                     | 15                      | 1.6                  | 15.1                       | 0.320                             | 209  |
| 3               | 120                    | 15                      | 1.6                  | 16.6                       | 0.253                             | 246  |
| 3               | 150                    | 30                      | 1.8                  | 18.4                       | 0.206                             | 283  |
| 3               | 185                    | 30                      | 2.0                  | 20.6                       | 0.164                             | 332  |

Messenger conductor

| Nom.Cross-section Area | Minimum number of wires | Insulation Thickness | Diameter of insulated core | Conductor Max. Resistance at 20°C | Calculated breaking load |
|------------------------|-------------------------|----------------------|----------------------------|-----------------------------------|--------------------------|
| mm <sup>2</sup>        |                         | mm                   | mm                         | Ω/km                              | kN                       |
| 25                     | 6                       | 1.2                  | 8.5                        | 1.312                             | 6.4                      |
| 25                     | 6                       | 1.2                  | 8.5                        | 1.312                             | 6.4                      |
| 35                     | 6                       | 1.2                  | 9.5                        | 0.943                             | 8.9                      |
| 50                     | 6                       | 1.4                  | 11.2                       | 0.693                             | 12.1                     |
| 70                     | 12                      | 1.4                  | 13.1                       | 0.469                             | 18.0                     |
| 70                     | 12                      | 1.4                  | 13.1                       | 0.469                             | 18.0                     |
| 95                     | 15                      | 1.6                  | 15.1                       | 0.349                             | 24.2                     |
| 120                    | 15                      | 1.6                  | 16.6                       | 0.273                             | 30.8                     |

Street lighting conductor

| Nom.Cross-section Area | Minimum number of wires | Insulation Thickness | Diameter of insulated core | Conductor Max. Resistance at 20°C |
|------------------------|-------------------------|----------------------|----------------------------|-----------------------------------|
| mm <sup>2</sup>        |                         | mm                   | mm                         | Ω/km                              |
| 25                     | 6                       | 1.2                  | 8.5                        | 1.312                             |
| 25                     | 6                       | 1.2                  | 8.5                        | 1.312                             |
| 35                     | 6                       | 1.2                  | 9.5                        | 0.943                             |
| 50                     | 6                       | 1.4                  | 11.2                       | 0.693                             |
| 70                     | 12                      | 1.4                  | 13.1                       | 0.469                             |
| 70                     | 12                      | 1.4                  | 13.1                       | 0.469                             |
| 95                     | 15                      | 1.6                  | 15.1                       | 0.349                             |
| 120                    | 15                      | 1.6                  | 16.6                       | 0.273                             |

Completed cable

| Approx. overall diameter | Approx. weight of cable | Packing length |
|--------------------------|-------------------------|----------------|
| mm                       | kg/km                   | m/drum         |
| 23.2                     | 470                     | 1000           |
| 25.6                     | 560                     | 1000           |
| 30.0                     | 740                     | 1000           |
| 34.9                     | 980                     | 1000           |
| 40.6                     | 1330                    | 500            |
| 44.1                     | 1580                    | 500            |
| 49.2                     | 1940                    | 500            |
| 54.9                     | 2410                    | 500            |

STANDARD NFC 33-209 NFA

Specifications

| Cable type     | Phases             |                |                  |                    |                     |                |                     | Neutral/Messenger |                |                    | Completed cable         |               |
|----------------|--------------------|----------------|------------------|--------------------|---------------------|----------------|---------------------|-------------------|----------------|--------------------|-------------------------|---------------|
|                | Distribution Lines |                |                  |                    |                     | Pub. Lighting  |                     |                   |                |                    |                         |               |
|                | Number of core     | Number of wire | Average diameter | Resistance at 20°C | Conductance at 30°C | Number of core | Conductance at 30°C | Average diameter  | Rated Strength | Resistance at 20°C | Approx Average Diameter | Approx weight |
| mm²            | mm²                | PCS            | mm               | Ω/km               | A                   | mm²            | A                   | mm                | kN             | Ω/km               | mm                      | kg/km         |
| 2×16           | 2×16               | 7              | 4.6              | 1.91               | 93                  |                |                     |                   |                |                    | 15                      | 132           |
| 2×35           | 2×35               | 7              | 5.9              | 1.20               | 122                 |                |                     |                   |                |                    | 18.5                    | 200           |
| 2×35           | 2×35               | 7              | 6.9              | 0.868              | 129                 |                |                     |                   |                |                    | 22                      | 280           |
| 2×50           | 2×50               | 7              | 8.1              | 0.641              | 158                 |                |                     |                   |                |                    | 24                      | 370           |
| 4×16           | 4×16               | 7              | 4.6              | 1.91               | 83                  |                |                     |                   |                |                    | 18                      | 265           |
| 4×25           | 4×25               | 7              | 5.9              | 1.20               | 111                 |                |                     |                   |                |                    | 22                      | 400           |
| 4×35           | 4×35               | 7              | 6.9              | 0.868              | 131                 |                |                     |                   |                |                    | 26                      | 550           |
| 3×25+54.6      | 3×25               | 7              | 5.9              | 1.20               | 112                 |                |                     | 9.6               | 16.0           | 0.63               | 30                      | 470           |
| 3×25+1×16+54.6 | 3×25               | 7              | 5.9              | 1.20               | 112                 | 1×16           | 60                  | 9.6               | 16.0           | 0.63               | 30                      | 570           |
| 3×25+2×16+54.6 | 3×25               | 7              | 5.9              | 1.20               | 112                 | 2×16           |                     | 9.6               | 16.0           | 0.63               | 30                      | 640           |
| 3×35+54.6      | 3×35               | 7              | 6.9              | 0.868              | 138                 |                |                     | 9.6               | 16.0           | 0.63               | 33                      | 580           |
| 3×35+1×16+54.6 | 3×35               | 7              | 6.9              | 0.868              | 138                 | 1×16           | 60                  | 9.6               | 16.0           | 0.63               | 33                      | 690           |
| 3×35+2×16+54.6 | 3×35               | 7              | 6.9              | 0.868              | 138                 | 2×16           |                     | 9.6               | 16.0           | 0.63               | 33                      | 750           |
| 3×50+54.6      | 3×50               | 7              | 8.1              | 0.641              | 168                 |                |                     | 9.6               | 16.0           | 0.63               | 36                      | 720           |
| 3×50+1×16+54.6 | 3×50               | 7              | 8.1              | 0.641              | 168                 | 1×16           | 60                  | 9.6               | 16.0           | 0.63               | 36                      | 820           |
| 3×50+2×16+54.6 | 3×50               | 7              | 8.1              | 0.641              | 168                 | 2×16           |                     | 9.6               | 16.0           | 0.63               | 36                      | 890           |
| 3×70+54.6      | 3×70               | 12             | 9.7              | 0.443              | 213                 |                |                     | 9.6               | 16.0           | 0.63               | 38                      | 930           |
| 3×70+1×16+54.6 | 3×70               | 12             | 9.7              | 0.443              | 213                 | 1×16           | 60                  | 9.6               | 16.0           | 0.63               | 38                      | 1030          |
| 3×70+2×16+54.6 | 3×70               | 12             | 9.7              | 0.443              | 213                 | 2×16           |                     | 9.6               | 16.0           | 0.63               | 38                      | 1100          |
| 3×70+1×25+54.6 | 3×70               | 12             | 9.7              | 0.443              | 213                 | 1×25           |                     | 9.6               | 16.0           | 0.63               | 40                      | 1070          |
| 3×70+2×25+54.6 | 3×70               | 12             | 9.7              | 0.443              | 213                 | 2×25           |                     | 9.6               | 16.0           | 0.50               | 40                      | 1170          |
| 3×70+70        | 3×70               | 12             | 9.7              | 0.443              | 213                 |                |                     | 10.2              | 20.6           | 0.50               | 41                      | 970           |
| 3×70+1×16+70   | 3×70               | 12             | 9.7              | 0.443              | 213                 | 1×16           | 60                  | 10.2              | 20.6           | 0.50               | 41                      | 1080          |
| 3×70+2×16+70   | 3×70               | 12             | 9.7              | 0.443              | 213                 | 2×16           |                     | 10.2              | 20.6           | 0.50               | 41                      | 1150          |
| 3×95+70        | 3×95               | 12             | 11.5             | 0.320              | 258                 |                |                     | 10.2              | 20.6           | 0.50               | 44                      | 1200          |
| 3×95+1×16+70   | 3×95               | 12             | 11.5             | 0.320              | 258                 | 1×16           | 60                  | 10.2              | 20.6           | 0.50               | 44                      | 1300          |
| 3×95+2×16+70   | 3×95               | 12             | 11.5             | 0.320              | 258                 | 2×16           |                     | 10.2              | 20.6           | 0.50               | 44                      | 1380          |
| 3×120+70       | 3×120              | 12             | 12.8             | 0.253              | 300                 |                |                     | 10.2              | 20.6           | 0.50               | 46                      | 1430          |
| 3×120+1×16+70  | 3×120              | 19             | 12.8             | 0.253              | 300                 | 1×16           |                     | 10.2              | 20.6           | 0.50               | 46                      | 1540          |
| 3×120+2×16+70  | 3×120              | 19             | 12.8             | 0.253              | 300                 | 2×16           | 60                  | 10.2              | 20.6           | 0.50               | 46                      | 1600          |
| 3×150+70       | 3×150              | 19             | 14.5             | 0.206              | 344                 |                |                     | 10.2              | 20.6           | 0.50               | 48                      | 1680          |
| 3×150+1×16+70  | 3×150              | 19             | 14.5             | 0.206              | 344                 | 1×16           |                     | 10.2              | 20.6           | 0.50               | 48                      | 1780          |
| 3×150+2×16+70  | 3×150              | 19             | 14.5             | 0.206              | 344                 | 2×16           | 60                  | 10.2              | 20.6           | 0.50               | 48                      | 1850          |
| 3×120+95       | 3×120              | 19             | 12.8             | 0.253              | 300                 |                |                     | 12.9              | 27.9           | 0.343              | 47                      | 1500          |
| 3×120+1×16+95  | 3×120              | 19             | 12.8             | 0.253              | 300                 | 1×16           |                     | 12.9              | 27.9           | 0.343              | 47                      | 1620          |
| 3×120+2×16+95  | 3×120              | 19             | 12.8             | 0.253              | 300                 | 2×16           | 60                  | 12.9              | 27.9           | 0.343              | 47                      | 1680          |
| 3×150+95       | 3×150              | 19             | 14.5             | 0.206              | 344                 |                |                     | 12.9              | 27.9           | 0.343              | 49                      | 1740          |
| 3×150+1×16+95  | 3×150              | 19             | 14.5             | 0.206              | 344                 | 1×16           |                     | 12.9              | 27.9           | 0.343              | 49                      | 1880          |
| 3×150+2×16+95  | 3×150              | 19             | 14.5             | 0.206              | 344                 | 2×16           | 60                  | 12.9              | 27.9           | 0.343              | 49                      | 1940          |

STANDARD TS 11654 AER

Specifications

| Cable type   | Phases             |                |                  |                    |                     |                |                     | Neutral/Messenger |                |                    | Completed cable         |               |
|--------------|--------------------|----------------|------------------|--------------------|---------------------|----------------|---------------------|-------------------|----------------|--------------------|-------------------------|---------------|
|              | Distribution Lines |                |                  |                    |                     | Pub. Lighting  |                     |                   |                |                    |                         |               |
|              | Number of core     | Number of wire | Average diameter | Resistance at 20°C | Conductance at 30°C | Number of core | Conductance at 30°C | Average diameter  | Rated Strength | Resistance at 20°C | Approx Average Diameter | Approx weight |
| mm²          | mm²                | PCS            | mm               | Ω/km               | A                   | mm²            | A                   | mm                | kN             | Ω/km               | mm                      | kg/km         |
| 1×16+25      | 1×16               | 1              | 4.4              | 1.91               | 75                  |                |                     | 5.9               | 7.4            | 1.380              | 15                      | 140           |
| 1×25+35      | 1×25               | 7              | 5.9              | 1.20               | 100                 |                |                     | 6.9               | 10.3           | 0.986              | 17                      | 200           |
| 1×35+50      | 1×35               | 7              | 6.9              | 0.868              | 125                 |                |                     | 8.1               | 14.2           | 0.720              | 20                      | 275           |
| 3x16+25      | 3×16               | 7              | 4.4              | 1.91               | 70                  |                |                     | 5.9               | 7.4            | 1.380              | 22                      | 275           |
| 3×25+35      | 3×25               | 7              | 5.9              | 1.20               | 90                  |                |                     | 6.9               | 10.3           | 0.986              | 26                      | 400           |
| 3×35+50      | 3×35               | 7              | 6.9              | 0.868              | 115                 |                |                     | 8.1               | 14.2           | 0.720              | 30                      | 575           |
| 3×50+70      | 3×50               | 7              | 8.1              | 0.641              | 140                 |                |                     | 9.6               | 20.6           | 0.493              | 35                      | 750           |
| 3×70+95      | 3×70               | 7              | 9.6              | 0.443              | 180                 |                |                     | 11.4              | 27.9           | 0.363              | 41                      | 1050          |
| 3×120+95     | 3×120              | 19             | 12.8             | 0.253              | 250                 |                |                     | 11.4              | 27.9           | 0.363              | 47                      | 1550          |
| 4×16+25      | 4×16               | 1              | 4.4              | 1.91               | 70                  |                |                     | 5.9               | 7.4            | 1.380              | 24                      | 375           |
| 4×25+35      | 4×25               | 7              | 5.9              | 0.868              | 90                  |                |                     | 6.9               | 10.3           | 0.986              | 28                      | 550           |
| 4×35+50      | 4×35               | 7              | 6.9              | 0.868              | 115                 |                |                     | 8.1               | 14.2           | 0.720              | 32                      | 750           |
| 4×50+70      | 4×50               | 7              | 8.1              | 0.641              | 140                 |                |                     | 9.6               | 20.6           | 0.493              | 38                      | 1000          |
| 4×70+95      | 4×70               | 7              | 9.6              | 0.443              | 180                 |                |                     | 11.4              | 27.9           | 0.363              | 45                      | 1350          |
| 1×16+25      |                    |                |                  |                    |                     | 1x16           | 75                  | 5.9               | 7.4            | 1.380              | 14                      | 140           |
| 1×16+1×16+25 | 1×16               | 1              | 4.4              | 1.91               | 70                  | 1×16           | 60                  | 5.9               | 7.4            | 1.380              | 15                      | 225           |
| 3×16+1×16+25 | 3×16               | 1              | 4.4              | 1.91               | 60                  | 1×16           | 60                  | 5.9               | 7.4            | 1.380              | 22                      | 350           |
| 3×25+1×16+35 | 3×25               | 7              | 5.9              | 1.20               | 80                  | 1×16           | 60                  | 6.9               | 10.3           | 0.986              | 26                      | 475           |
| 3×35+1×16+35 | 3×35               | 7              | 6.9              | 0.868              | 95                  | 1×16           | 60                  | 8.1               | 14.2           | 0.720              | 30                      | 625           |
| 3×50+1×16+70 | 3×50               | 7              | 8.1              | 0.641              | 120                 | 1×16           | 60                  | 9.6               | 20.6           | 0.493              | 35                      | 800           |
| 3×70+1×16+95 | 3×70               | 7              | 9.6              | 0.443              | 150                 | 1×16           | 60                  | 11.4              | 27.9           | 0.363              | 41                      | 1100          |
| 4×16+1×16+25 | 4×16               | 1              | 4.4              | 1.91               | 60                  | 1×16           | 60                  | 5.9               | 7.4            | 1.380              | 25                      | 450           |
| 4×25+1×16+35 | 45×25              | 7              | 5.9              | 1.20               | 80                  | 1×16           | 60                  | 6.9               | 10.3           | 0.986              | 30                      | 610           |
| 4×35+1×16+50 | 4×35               | 7              | 6.9              | 0.868              | 95                  | 1×16           | 60                  | 8.1               | 14.2           | 0.720              | 34                      | 800           |
| 4×50+1×16+70 | 4×50               | 7              | 8.1              | 0.641              | 120                 | 1×16           | 60                  | 9.6               | 20.6           | 0.493              | 40                      | 1060          |
| 4×70+1×16+95 | 4×70               | 7              | 9.6              | 0.443              | 180                 | 1×16           | 60                  | 11.4              | 27.9           | 0.363              | 47                      | 1420          |



DUPEX SERVICE DROP-ALUMINUM CONDUCTOR

ASTM B-231. B-232 and B-399. ICEA S-76-474

Specifications

| Name       | Phase Conductors    |                      |                  |      | Bare Natural        |                | Weight |          |       | Ampacity |
|------------|---------------------|----------------------|------------------|------|---------------------|----------------|--------|----------|-------|----------|
|            | Size & No. of Wires | Insulation Thickness | Nominal Diameter |      |                     |                |        |          |       |          |
|            |                     |                      | Bare             | OD   | Size & No. of Wires | Rated Strength | XLPE   | Aluminum | Total |          |
|            |                     |                      |                  | mm   | mm                  | mm             |        | kg       | kg/km |          |
| AAC        |                     |                      |                  |      |                     |                |        |          |       |          |
| Pekingese  | 6-Solid             | 1.14                 | 4.1              | 6.4  | 6-7                 | 255            | 20.8   | 72.9     | 94    | 78       |
| Collie     | 6-7                 | 1.14                 | 4.6              | 6.9  | 6-7                 | 255            | 23.8   | 72.9     | 97    | 78       |
| Cocker     | 6-7                 | 1.52                 | 4.6              | 7.7  | 6-7                 | 255            | 32.7   | 72.9     | 106   | 78       |
| Dachshund  | 4-Solid             | 1.14                 | 5.2              | 7.5  | 6-7                 | 400            | 26.8   | 114.6    | 141   | 103      |
| Spaniel    | 4-7                 | 1.14                 | 5.9              | 8.2  | 6-7                 | 400            | 29.8   | 116.1    | 146   | 103      |
| Cairn      | 4-7                 | 1.52                 | 5.9              | 8.9  | 6-7                 | 400            | 40.2   | 116.1    | 156   | 103      |
| Daberman   | 2-7                 | 1.14                 | 7.4              | 9.7  | 2-7                 | 612            | 38.7   | 184.5    | 223   | 136      |
| Alredale   | 1-19                | 1.52                 | 8.4              | 11.5 | 1-7                 |                | 56.5   | 233.6    | 290   | 158      |
| Basset     | 1/0-7               | 1.52                 | 9.3              | 12.4 | 1/0-7               | 903            | 64.0   | 294.7    | 359   | 182      |
| Malemure   | 1/0-19              | 1.52                 | 9.4              | 12.5 | 1/0-7               | 903            | 64.0   | 294.7    | 359   | 182      |
| AAAC       |                     |                      |                  |      |                     |                |        |          |       |          |
| Chihuahua  | 6-Solid             | 1.14                 | 4.1              | 6.4  | 6-7                 | 499            | 20.8   | 72.9     | 94    | 78       |
| Vizsla     | 6-7                 | 1.14                 | 4.6              | 6.9  | 6-7                 | 499            | 23.8   | 72.9     | 97    | 78       |
| Harrier    | 4-Solid             | 1.14                 | 5.2              | 7.5  | 4-7                 | 798            | 26.8   | 116.1    | 143   | 103      |
| Whippet    | 4-7                 | 1.14                 | 5.9              | 8.2  | 4-7                 | 798            | 29.8   | 116.1    | 146   | 103      |
| Sennauzer  | 2-7                 | 1.14                 | 7.4              | 9.7  | 2-7                 | 1270           | 39.7   | 184.5    | 223   | 136      |
| Afghan     | 1/0-7               | 1.52                 | 9.3              | 12.4 | 1/0-7               | 2023           | 64.0   | 296.1    | 360   | 182      |
| Heeler     | 1/0-19              | 1.52                 | 9.4              | 12.5 | 1/0-7               | 2023           | 64.0   | 296.1    | 360   | 182      |
| ACSR       |                     |                      |                  |      |                     |                |        |          |       |          |
| Setter     | 6-Solid             | 1.14                 | 4.1              | 6.4  | 6/6/01              | 540            | 20.8   | 72.9     | 94    | 78       |
| Shepherd   | 6-7                 | 1.14                 | 4.6              | 6.9  | 6/6/01              | 540            | 23.8   | 72.9     | 97    | 78       |
| Retriever  | 6-7                 | 1.52                 | 4.6              | 7.7  | 6/6/01              | 540            | 32.7   | 72.9     | 106   | 78       |
| Eskimo     | 4-Solid             | 1.14                 | 5.2              | 7.5  | 4/6/01              | 844            | 26.8   | 114.6    | 141   | 103      |
| Terrier    | 4-7                 | 1.14                 | 5.9              | 8.2  | 4/6/01              | 844            | 29.8   | 116.1    | 146   | 103      |
| Yorkshire  | 4-7                 | 1.52                 | 5.9              | 8.9  | 4/6/01              | 844            | 40.2   | 116.1    | 156   | 103      |
| Chow       | 2-7                 | 1.14                 | 7.4              | 9.7  | 2/6/01              | 1293           | 38.7   | 184.5    | 223   | 136      |
| Labrador   | 1-19                | 1.52                 | 8.4              | 11.5 | 1/6/01              | 1610           | 56.5   | 233.6    | 290   | 158      |
| Bloodhound | 1/0-7               | 1.52                 | 9.3              | 12.4 | 1/0-6/1             | 1987           | 64.0   | 294.7    | 359   | 182      |
| Bull       | 1/0-19              | 1.52                 | 9.4              | 12.5 | 1/0-6/1             | 1987           | 64.0   | 294.7    | 359   | 182      |

TRIPLEX SERVICE DROP-ALUMINUM CONDUCTOR

ASTM B-231, B-232 and B-399, ICEA S-76-474

Specifications

| Name      | Phase Conductors       |                         |                  |      | Bare Natural           |                   | Weight |          |       | Ampacity |
|-----------|------------------------|-------------------------|------------------|------|------------------------|-------------------|--------|----------|-------|----------|
|           | Size & No.<br>of Wires | Insulation<br>Thickness | Nominal Diameter |      |                        |                   |        |          |       |          |
|           |                        |                         | Bare             | OD   | Size & No. of<br>Wires | Rated<br>Strength | XLPE   | Aluminum | Total |          |
|           |                        |                         |                  |      |                        |                   |        |          |       |          |
|           |                        | mm                      | mm               | mm   |                        | kg                | kg/km  | kg/km    | kg/km | A        |
| AAC       |                        |                         |                  |      |                        |                   |        |          |       |          |
| Halotis   | 6-Solid                | 1.14                    | 4.115            | 6.4  | 6-7                    | 255               | 42     | 110      | 152   | 78       |
| Pike      | 6-7                    | 0.76                    | 4.67             | 6.2  | 6-7                    | 255               | 31     | 112      | 143   | 78       |
| Patella   | 6-7                    | 1.14                    | 4.67             | 7.0  | 6-7                    | 255               | 48     | 112      | 159   | 78       |
| Albus     | 6-7                    | 1.52                    | 4.67             | 7.7  | 6-7                    | 255               | 64     | 132      | 198   | 78       |
| Fusus     | 4-Solid                | 1.14                    | 5.182            | 7.5  | 4-7                    | 400               | 52     | 177      | 229   | 103      |
| Oyster    | 4-7                    | 1.14                    | 5.89             | 8.2  | 4-7                    | 400               | 60     | 177      | 237   | 103      |
| Argo      | 4-7                    | 1.52                    | 5.89             | 8.9  | 4-7                    | 400               | 80     | 177      | 258   | 103      |
| Clam      | 2-7                    | 1.14                    | 7.42             | 9.7  | 2-7                    | 612               | 76     | 281      | 359   | 136      |
| Thia      | 2-7                    | 1.52                    | 7.42             | 10.5 | 2-7                    | 612               | 100    | 281      | 383   | 136      |
| Mussel    | 2-7                    | 1.14                    | 7.42             | 9.7  | 2-7                    | 612               | 76     | 281      | 359   | 136      |
| Pyrla     | 1-7                    | 1.52                    | 8.33             | 11.4 | 1-7                    | 744               | 116    | 356      | 467   | 158      |
| Hyas      | 1-19                   | 1.52                    | 8.43             | 11.5 | 1-7                    | 744               | 115    | 356      | 469   | 158      |
| Murex     | 1/0-7                  | 1.52                    | 9.35             | 12.4 | 1/0-7                  | 903               | 128    | 385      | 513   | 182      |
| Purpura   | 1/0-19                 | 1.52                    | 9.47             | 12.5 | 1/0-7                  | 903               | 130    | 385      | 515   | 182      |
| Nasa      | 2/0-7                  | 1.52                    | 10.52            | 13.6 | 2/0-7                  | 1139              | 146    | 566      | 710   | 210      |
| Trophon   | 2/0-19                 | 1.52                    | 10.64            | 13.7 | 2/0-7                  | 1139              | 147    | 566      | 713   | 210      |
| Quahog    | 3/0-7                  | 2.03                    | 11.79            | 15.9 | 3/0-7                  | 1379              | 214    | 713      | 926   | 242      |
| Lone      | 3/0-19                 | 2.03                    | 11.94            | 16.0 | 3/0-7                  | 1379              | 217    | 713      | 929   | 242      |
| Melita    | 3/0-19                 | 1.52                    | 11.94            | 15.0 | 3/0-19                 | 1501              | 168    | 713      | 881   | 242      |
| Coquina   | 4/0-7                  | 1.52                    | 13.26            | 16.3 | 4/0-7                  | 1737              | 191    | 899      | 1089  | 279      |
| Tusk      | 4/0-7                  | 2.03                    | 13.26            | 17.3 | 4/0-7                  | 1737              | 243    | 899      | 1141  | 279      |
| Apus      | 4/0-19                 | 2.03                    | 13.41            | 17.5 | 4/0-7                  | 1737              | 246    | 899      | 1144  | 279      |
| Portunus  | 4/0-19                 | 1.52                    | 13.41            | 16.5 | 4/0-19                 | 1823              | 194    | 899      | 1091  | 279      |
| Chiton    | 266.8-19               | 2.03                    | 14.88            | 18.9 | 266.8-19               | 2254              | 277    | 1133     | 1409  | 310      |
| Nannynose | 336.4-19               | 2.03                    | 16.92            | 21.0 | 336.4-19               | 2790              | 321    | 1427     | 1749  | 330      |
| AAAC      |                        |                         |                  |      |                        |                   |        |          |       |          |
| Homarus   | 6-Solid                | 1.14                    | 4.115            | 6.4  | 6-7                    | 499               | 42     | 118      | 159   | 78       |
| Minex     | 6-Solid                | 1.14                    | 4.115            | 13.3 | 6-7                    | 499               | 42     | 118      | 159   | 78       |
| Cabera    | 6-7                    | 1.14                    | 4.65             | 6.9  | 6-7                    | 499               | 48     | 118      | 165   | 78       |
| Hippa     | 6-7                    | 1.14                    | 4.65             | 6.9  | 6-7                    | 499               | 48     | 118      | 165   | 78       |
| Artemia   | 4-Solid                | 1.14                    | 5.182            | 7.5  | 6-7                    | 499               | 52     | 162      | 214   | 103      |
| Maira     | 4-7                    | 1.14                    | 5.89             | 8.2  | 6-7                    | 499               | 60     | 188      | 247   | 103      |
| Crab      | 4-7                    | 1.14                    | 5.89             | 8.2  | 6-7                    | 499               | 60     | 162      | 222   | 103      |
| Luidia    | 4-Solid                | 1.14                    | 5.182            | 7.5  | 6-7                    | 499               | 52     | 162      | 214   | 103      |
| Prawn     | 4-Solid                | 1.14                    | 5.182            | 7.5  | 4-7                    | 798               | 52     | 188      | 240   | 103      |
| Metalia   | 4-7                    | 1.14                    | 5.89             | 8.2  | 4-7                    | 798               | 60     | 188      | 247   | 103      |
| Barnacles | 4-7                    | 1.14                    | 5.89             | 8.2  | 4-7                    | 798               | 60     | 188      | 247   | 103      |
| Solaster  | 2-7                    | 1.14                    | 7.42             | 9.7  | 4-7                    | 798               | 76     | 258      | 333   | 136      |
| Pagarus   | 2-7                    | 1.52                    | 7.42             | 10.5 | 4-7                    | 798               | 100    | 258      | 357   | 136      |
| Shrimp    | 2-7                    | 1.14                    | 7.42             | 9.7  | 2-7                    | 1270              | 76     | 298      | 374   | 136      |
| Lobster   | 2-7                    | 1.52                    | 7.42             | 10.5 | 2-7                    | 1270              | 100    | 298      | 397   | 136      |
| Encope    | 1-19                   | 1.52                    | 8.43             | 11.5 | 2-7                    | 1270              | 115    | 347      | 461   | 158      |
| Sanderab  | 1/0-7                  | 1.52                    | 9.35             | 12.4 | 2-7                    | 1270              | 128    | 409      | 537   | 182      |
| Echinus   | 1/0-19                 | 1.52                    | 9.47             | 12.5 | 2-7                    | 1270              | 130    | 409      | 539   | 182      |
| Gammarus  | 1/0-7                  | 1.52                    | 9.35             | 12.4 | 1/0-7                  | 2023              | 128    | 473      | 601   | 182      |
| Leda      | 1/0-19                 | 1.52                    | 9.47             | 12.5 | 1/0-7                  | 2023              | 130    | 473      | 603   | 182      |

Specifications

| Name       | Phase Conductors    |                      |                  |        | Bare Natural        |                | Weight |          |       | Ampacity |
|------------|---------------------|----------------------|------------------|--------|---------------------|----------------|--------|----------|-------|----------|
|            | Size & No. of Wires | Insulation Thickness | Nominal Diameter |        |                     |                | XLPE   | Aluminum | Total |          |
|            |                     |                      | Bare             | OD     | Size & No. of Wires | Rated Strength |        |          |       |          |
|            |                     | mm                   | mm               | mm     |                     | kg             | kg/km  | kg/km    | kg/km | A        |
| Crayfish   | 2/0-7               | 1.52                 | 10.5             | 13.6   | 2-7                 | 1270           | 146    | 487      | 631   | 210      |
| Sipho      | 2/0-19              | 1.52                 | 10.6             | 13.7   | 2-7                 | 1270           | 147    | 487      | 634   | 210      |
| Dungenese  | 2/0-7               | 1.52                 | 10.5             | 13.6   | 2/0-7               | 2445           | 146    | 595      | 740   | 210      |
| Cyclops    | 2/0-7               | 1.52                 | 10.6             | 13.7   | 2/0-7               | 2445           | 147    | 595      | 743   | 210      |
| Slug       | 3/0-7               | 1.52                 | 11.8             | 14.8   | 1/0-7               | 2023           | 165    | 650      | 816   | 242      |
| Fulgur     | 3/0-19              | 1.52                 | 11.9             | 15.0   | 1/0-7               | 2023           | 168    | 650      | 819   | 242      |
| Balanus    | 3/0-19              | 2.03                 | 11.9             | 16.0   | 1/0-7               | 2023           | 216    | 650      | 868   | 242      |
| Stonecrab  | 3/0-7               | 1.52                 | 11.8             | 14.8   | 3/0-7               | 3080           | 165    | 752      | 917   | 242      |
| Flustra    | 3/0-7               | 1.52                 | 11.9             | 15.0   | 3/0-7               | 3080           | 168    | 752      | 920   | 242      |
| Crisia     | 3/0-19              | 2.03                 | 11.9             | 16.0   | 3/0-7               | 3080           | 216    | 752      | 969   | 242      |
| Squid      | 4/0-7               | 1.52                 | 13.3             | 16.3   | 2/0-7               | 2431           | 191    | 820      | 1011  | 279      |
| Arca       | 4/0-19              | 1.52                 | 13.4             | 16.5   | 2/0-7               | 2431           | 192    | 820      | 1012  | 279      |
| Bugula     | 4/0-19              | 2.03                 | 13.4             | 17.5   | 2/0-7               | 2431           | 246    | 820      | 1066  | 279      |
| Kingerab   | 4/0-7               | 1.52                 | 13.3             | 16.3   | 4/0-7               | 3883           | 191    | 948      | 1137  | 279      |
| Lepas      | 4/0-19              | 1.52                 | 13.4             | 16.5   | 4/0-7               | 3883           | 192    | 948      | 1140  | 279      |
| Cassi      | 4/0-19              | 2.03                 | 13.4             | 17.5   | 4/0-7               | 3883           | 246    | 948      | 1194  | 279      |
| ACSR       |                     |                      |                  |        |                     |                |        |          |       |          |
| Paludina   | 6-Solid             | 1.14                 | 4.115            | 6.401  | 6-6/1               | 540            | 42     | 112      | 170   | 79       |
| Voluta     | 6-7                 | 1.14                 | 4.67             | 6.960  | 6-6/1               | 540            | 48     | 112      | 176   | 79       |
| Bolma      | 6-7                 | 1.52                 | 4.67             | 7.722  | 6-6/1               | 540            | 64     | 112      | 194   | 79       |
| Scallop    | 4-Solid             | 1.14                 | 5.182            | 7.468  | 6-6/1               | 540            | 52     | 155      | 225   | 138      |
| Strombus   | 4-7                 | 1.14                 | 5.89             | 8.179  | 6-6/1               | 540            | 60     | 155      | 232   | 138      |
| Carnea     | 4-7                 | 1.52                 | 5.89             | 8.941  | 6-6/1               | 540            | 80     | 155      | 253   | 138      |
| Whelk      | 4-Solid             | 1.14                 | 5.182            | 7.468  | 4-6/1               | 844            | 52     | 177      | 258   | 138      |
| Periwinkle | 4-7                 | 1.14                 | 5.89             | 8.179  | 4-6/1               | 844            | 60     | 177      | 263   | 138      |
| Calma      | 4-7                 | 1.52                 | 5.89             | 8.941  | 4-6/1               | 844            | 80     | 177      | 284   | 138      |
| Cockle     | 2-7                 | 1.14                 | 5.89             | 8.179  | 4-6/1               | 844            | 60     | 247      | 335   | 183      |
| Gebia      | 2-7                 | 1.52                 | 5.89             | 8.941  | 4-6/1               | 844            | 80     | 247      | 354   | 183      |
| Conch      | 2-7                 | 1.14                 | 5.89             | 8.179  | 2-6/1               | 1293           | 60     | 281      | 384   | 183      |
| Uca        | 2-7                 | 1.52                 | 5.89             | 8.941  | 2-6/1               | 1293           | 80     | 281      | 405   | 183      |
| Vermeths   | 1-7                 | 1.52                 | 8.33             | 11.379 | 1-6/1               | 1610           | 113    | 354      | 522   | 210      |
| Atya       | 1-19                | 1.52                 | 8.33             | 11.379 | 1-6/1               | 1610           | 113    | 430      | 524   | 210      |
| Janthina   | 1/0-7               | 1.52                 | 8.33             | 11.379 | 2-6/1               | 1293           | 113    | 393      | 549   | 242      |
| Ranella    | 1/0-19              | 1.52                 | 9.47             | 12.522 | 2-6/1               | 1293           | 130    | 393      | 566   | 242      |
| Neritina   | 1/0-7               | 1.52                 | 9.35             | 12.395 | 1/0-6/1             | 1987           | 128    | 448      | 644   | 242      |
| Cenia      | 1/0-19              | 1.52                 | 9.47             | 12.522 | 1/0-6/1             | 1987           | 130    | 448      | 646   | 242      |
| Cavolinia  | 2/0-7               | 1.52                 | 10.5             | 13.564 | 1-6/1               | 1610           | 146    | 496      | 697   | 279      |
| Clio       | 2/0-19              | 1.52                 | 10.6             | 13.691 | 1-6/1               | 1610           | 147    | 496      | 698   | 279      |
| Runcina    | 2/0-7               | 1.52                 | 10.5             | 13.564 | 2/0-6/1             | 2404           | 146    | 564      | 796   | 279      |
| Triton     | 2/0-19              | 1.52                 | 10.6             | 13.691 | 2/0-6/1             | 2404           | 147    | 564      | 799   | 279      |
| Sanddollar | 3/0-7               | 1.52                 | 11.8             | 14.834 | 1/0-6/1             | 1987           | 165    | 625      | 860   | 322      |

Specifications

| Name        | Phase Conductors          |                         |                  |        | Bare Natural           |                   | Weight |          |       | Ampacity |
|-------------|---------------------------|-------------------------|------------------|--------|------------------------|-------------------|--------|----------|-------|----------|
|             | Size & No.<br>of<br>Wires | Insulation<br>Thickness | Nominal Diameter |        |                        |                   |        |          |       |          |
|             |                           |                         | Bare             | OD     | Size & No. of<br>Wires | Rated<br>Strength | XLPE   | Aluminum | Total |          |
|             |                           |                         |                  | mm     | mm                     | mm                |        | kg       | kg/km |          |
| Aega        | 3/0-19                    | 1.52                    | 11.9             | 14.986 | 1/0-6/1                | 1987              | 168    | 625      | 862   | 322      |
| Pisa        | 3/0-19                    | 2.03                    | 11.9             | 16.002 | 1/0-6/1                | 1987              | 216    | 625      | 911   | 322      |
| Cherrystone | 3/0-7                     | 1.52                    | 11.8             | 14.834 | 3/0-6/1                | 3003              | 165    | 711      | 987   | 322      |
| Mursia      | 3/0-19                    | 1.52                    | 11.9             | 14.986 | 3/0-6/1                | 3003              | 168    | 711      | 990   | 322      |
| Mysis       | 3/0-19                    | 2.03                    | 11.9             | 16.002 | 3/0-6/1                | 3003              | 216    | 711      | 990   | 322      |
| Sanddollar  | 3/0-7                     | 1.52                    | 11.8             | 14.834 | 1/0-6/1                | 1987              | 165    | 625      | 860   | 322      |
| Aega        | 3/0-19                    | 1.52                    | 11.9             | 14.986 | 1/0-6/1                | 1987              | 168    | 625      | 862   | 322      |
| Pisa        | 3/0-19                    | 2.03                    | 11.9             | 16.002 | 1/0-6/1                | 1987              | 216    | 625      | 911   | 322      |
| Cherrystone | 3/0-7                     | 1.52                    | 11.8             | 14.834 | 3/0-6/1                | 3003              | 165    | 711      | 987   | 322      |
| Mursia      | 3/0-19                    | 1.52                    | 11.9             | 14.986 | 3/0-6/1                | 3003              | 168    | 711      | 990   | 322      |
| Mysis       | 3/0-19                    | 2.03                    | 11.9             | 16.002 | 3/0-6/1                | 3003              | 216    | 711      | 990   | 322      |
| Cuttlefish  | 4/0-7                     | 1.52                    | 13.3             | 16.307 | 2/0-6/1                | 2404              | 191    | 787      | 1066  | 372      |
| Cerapus     | 4/0-19                    | 1.52                    | 13.4             | 16.459 | 2/0-6/1                | 2404              | 192    | 787      | 1069  | 372      |
| Nepatus     | 4/0-19                    | 2.03                    | 13.4             | 17.475 | 2/0-6/1                | 2404              | 246    | 787      | 1121  | 372      |
| Razor       | 4/0-7                     | 1.52                    | 13.3             | 16.307 | 4/0-6/1                | 3788              | 191    | 897      | 1226  | 372      |
| Zuzara      | 4/0-19                    | 1.52                    | 13.4             | 16.459 | 4/0-6/1                | 3788              | 192    | 897      | 1229  | 372      |
| Alima       | 4/0-19                    | 2.03                    | 13.4             | 17.475 | 4/0-6/1                | 3788              | 246    | 897      | 1281  | 372      |
| Callista    | 266.8-19                  | 2.03                    | 15.1             | 19.126 | 3/0-6/1                | 3003              | 280    | 994      | 1384  | 410      |
| Dosinia     | 266.8-19                  | 2.03                    | 15.1             | 19.126 | 268.8-18/1             | 3121              | 280    | 1133     | 1472  | 410      |
| Cowry       | 336.4-19                  | 2.03                    | 16.9             | 20.980 | 4/0-6/1                | 3788              | 320    | 1253     | 1713  | 506      |
| Limpet      | 336.4-19                  | 2.03                    | 16.9             | 20.980 | 336.4-18/1             | 3937              | 320    | 1429     | 1823  | 506      |

QUADRUPLEX SERVICE DROP-ALUMINIUM CONDUCTOR

ASTM B-231, B-232 and B-399, ICEA S-79-474

Specifications

| Name         | Phase Conductors    |                      |                  |        | Bare Natural        |                | Weight |          |       | Ampacity |
|--------------|---------------------|----------------------|------------------|--------|---------------------|----------------|--------|----------|-------|----------|
|              | Size & No. of Wires | Insulation Thickness | Nominal Diameter |        |                     |                |        |          |       |          |
|              |                     |                      | Bare             | OD     | Size & No. of Wires | Rated Strength | XLPE   | Aluminum | Total |          |
|              |                     | mm                   | mm               | mm     |                     | kg             | kg/km  | kg/km    | kg/km |          |
| AAC          |                     |                      |                  |        |                     |                |        |          |       |          |
| Quarter      | 6-Solid             | 1.143                | 4.115            | 6.401  | 6-7                 | 255.371        | 63     | 149      | 211   | 78       |
| Clydesdale   | 4-Solid             | 1.143                | 5.182            | 7.468  | 4-7                 | 399.613        | 79     | 237      | 315   | 103      |
| Pinto        | 4-7                 | 1.143                | 5.893            | 8.179  | 4-7                 | 399.613        | 89     | 237      | 326   | 136      |
| Mustang      | 2-7                 | 1.143                | 7.417            | 9.703  | 2-7                 | 612.347        | 115    | 377      | 491   | 158      |
| Shire        | 1-19                | 1.524                | 8.433            | 11.481 | 1-19                | 743.888        | 171    | 475      | 646   | 158      |
| Libyan       | 1/0-7               | 1.524                | 9.347            | 12.395 | 1/0-7               | 902.644        | 192    | 598      | 790   | 182      |
| Criollo      | 1/0-19              | 1.524                | 9.474            | 12.522 | 1/0-19              | 902.644        | 193    | 598      | 793   | 182      |
| Orioff       | 2/0-7               | 1.524                | 10.516           | 13.564 | 2/0-7               | 1138.511       | 217    | 754      | 973   | 210      |
| Percheron    | 2/0-19              | 1.524                | 10.643           | 13.691 | 2/0-19              | 1138.511       | 220    | 754      | 976   | 210      |
| Mongolian    | 3/0-7               | 1.524                | 11.786           | 14.834 | 3/0-7               | 1378.914       | 249    | 951      | 1199  | 242      |
| Hanoverian   | 3/0-19              | 1.524                | 11.938           | 14.986 | 3/0-19              | 1378.914       | 251    | 951      | 1204  | 242      |
| Singlefoot   | 4/0-7               | 1.524                | 13.259           | 16.307 | 4/0-7               | 1737.250       | 286    | 1199     | 1485  | 279      |
| Oldenburg    | 4/0-19              | 1.524                | 13.411           | 16.459 | 4/0-19              | 1737.250       | 289    | 1199     | 1490  | 279      |
| AAAC         |                     |                      |                  |        |                     |                |        |          |       |          |
| Bay          | 6-Solid             | 1.143                | 14.115           | 6.401  | 6-7                 | 503.485        | 63     | 155      | 217   | 78       |
| Frenzy-conch | 6-7                 | 1.143                | 4.674            | 6.960  | 6-7                 | 503.485        | 71     | 155      | 226   | 78       |
| German-conch | 4-Solid             | 1.143                | 5.182            | 7.468  | 4-7                 | 798.318        | 79     | 247      | 324   | 103      |
| Arabian      | 4-7                 | 1.143                | 5.893            | 8.179  | 4-7                 | 784.711        | 89     | 247      | 336   | 103      |
| Belgian      | 2-7                 | 1.524                | 7.417            | 9.703  | 2-7                 | 1270.052       | 115    | 391      | 506   | 136      |
| Saddle       | 1-19                | 1.524                | 8.433            | 11.481 | 2-7                 | 1270.052       | 171    | 466      | 637   | 158      |
| Plow         | 1/0-7               | 1.524                | 9.347            | 12.395 | 1/0-7               | 2023.011       | 192    | 624      | 814   | 182      |
| Sherland     | 1/0-19              | 1.524                | 9.474            | 12.522 | 1/0-7               | 2023.011       | 193    | 624      | 817   | 182      |
| Dapple-grey  | 2/0-7               | 1.524                | 10.516           | 13.564 | 2/0-7               | 2444.850       | 217    | 786      | 1005  | 210      |
| Thoroughbred | 2/0-19              | 1.524                | 10.643           | 13.691 | 2/0-7               | 2444.850       | 220    | 786      | 1007  | 210      |
| Dobbin       | 3/0-7               | 1.524                | 11.786           | 14.834 | 3/0-7               | 3079.876       | 249    | 991      | 1238  | 242      |
| Trotter      | 3/0-19              | 1.524                | 11.938           | 14.986 | 3/0-7               | 3079.876       | 251    | 991      | 1243  | 242      |
| Pony         | 4/0-7               | 1.524                | 13.259           | 16.307 | 4/0-7               | 3880.730       | 286    | 1250     | 1534  | 279      |
| Walking      | 4/0-19              | 1.524                | 13.411           | 16.459 | 4/0-7               | 3882.730       | 289    | 1250     | 1539  | 279      |

Specifications

| Name         | Phase Conductors    |                      |                  |        | Bare Natural |          | Weight              |                |       | Ampacity |
|--------------|---------------------|----------------------|------------------|--------|--------------|----------|---------------------|----------------|-------|----------|
|              | Size & No. of Wires | Insulation Thickness | Nominal Diameter |        |              |          | Size & No. of Wires | Rated Strength | XLPE  |          |
|              |                     |                      | Bare             | OD     |              |          |                     |                |       |          |
|              |                     |                      | mm               | mm     | mm           |          | kg                  | kg/km          | kg/km |          |
| ACSR         |                     |                      |                  |        |              |          |                     |                |       |          |
| Morchuca     | 6-Solid             | 1.143                | 4.115            | 6.401  | 6-6/1        | 539.772  | 63                  | 149            | 229   | 78       |
| Chola        | 6-7                 | 1.143                | 4.674            | 6.960  | 6-6/1        | 539.772  | 71                  | 149            | 237   | 78       |
| Morgan       | 4-Solid             | 1.143                | 5.182            | 7.468  | 4-6/1        | 843.667  | 79                  | 238            | 344   | 103      |
| Hackney      | 4-7                 | 1.143                | 5.893            | 8.179  | 4-6/1        | 843.667  | 89                  | 238            | 356   | 103      |
| Palomino     | 2-7                 | 1.524                | 7.417            | 9.703  | 2-6/1        | 1292.732 | 115                 | 377            | 557   | 136      |
| Albino       | 1-19                | 1.524                | 8.433            | 11.481 | 1-6/1        | 1610.245 | 171                 | 473            | 699   | 158      |
| Standardbred | 1/0-7               | 1.524                | 9.347            | 12.395 | 1/0-6/1      | 1986.724 | 192                 | 598            | 859   | 182      |
| Costena      | 1/0-19              | 1.524                | 9.474            | 12.522 | 1/0-6/1      | 1986.724 | 193                 | 598            | 862   | 182      |
| Chicoteagues | 2/0-7               | 1.524                | 10.516           | 13.564 | 2/0-6/1      | 2404.027 | 217                 | 753            | 1060  | 210      |
| Grullo       | 2/0-19              | 1.524                | 10.643           | 13.691 | 2/0-6/1      | 2404.027 | 220                 | 753            | 1063  | 210      |
| Mare         | 3/0-7               | 1.524                | 11.786           | 14.834 | 3/0-6/1      | 3002.766 | 249                 | 951            | 1308  | 242      |
| Suffolk      | 3/0-19              | 1.524                | 11.938           | 14.986 | 3/0-6/1      | 3002.766 | 251                 | 951            | 1313  | 242      |
| Stallion     | 4/0-7               | 1.524                | 13.259           | 16.307 | 4/0-6/1      | 3787.477 | 286                 | 1198           | 1622  | 279      |
| Appaloosa    | 4/0-19              | 1.524                | 13.411           | 16.459 | 4/0-6/1      | 3787.477 | 289                 | 1198           | 1627  | 279      |