

**ALUMINIUM CONDUCTOR STEEL REINFORCED
BRITISH SIZES**

Aluminium conductors steel reinforced including standard sizes from BS 215

| Code name | Nominal aluminium area | Equivalent copper area | Stranding and wire diameter | | Approx. overall diameter Φ mm | Area | | | Approx Weight | | | Nominal breaking load Kgf | Maximum resistance dc at 20°C ohm/km | Current Rating | | Code name |
|-----------------|------------------------|------------------------|-----------------------------|--------|-------------------------------------|-----------------|-----------------|-------|---------------|-------|--------|------------------------------|---|----------------|--------------|-----------------|
| | | | Aluminium | steel | | Aluminium | steel | Total | Aluminium | steel | Total | | | temperate amp | tropical amp | |
| | mm ² | mm ² | mm | mm | mm ² | mm ² | mm ² | kg/km | kg/km | kg/km | ohm/km | temperate amp | tropical amp | | | |
| Mole | 10 | 6.5 | 6/1.50 | 1/1.50 | 4.5 | 10.62 | 1.77 | 12.39 | 29 | 14 | 43 | 418 | 2.702 | 67 | 55 | Mole |
| Squirrel | 20 | 12.9 | 6/2.11 | 1/2.11 | 6.33 | 20.94 | 3.49 | 24.43 | 53 | 27 | 85 | 806 | 1.370 | 109 | 69 | Squirrel |
| Gopher | 25 | 16.1 | 6/2.36 | 1/2.36 | 7.08 | 26.24 | 4.37 | 30.62 | 72 | 34 | 106 | 979 | 1.093 | 126 | 77 | Gopher |
| Weasel | 30 | 19.4 | 6/2.59 | 1/2.59 | 7.77 | 31.61 | 5.27 | 36.88 | 87 | 41 | 128 | 1163 | 0.9077 | 134 | 84 | Weasel |
| Fox | 35 | 22.6 | 6/2.79 | 1/2.79 | 8.37 | 36.66 | 6.11 | 42.77 | 101 | 48 | 149 | 1346 | 0.7827 | 147 | 93 | Fox |
| Ferret | 40 | 25.8 | 6/3.00 | 1/3.00 | 9 | 42.41 | 7.07 | 49.48 | 117 | 55 | 172 | 1550 | 0.6766 | 161 | 98 | Ferret |
| Rabbit | 50 | 32.3 | 6/3.35 | 1/3.35 | 10.05 | 52.88 | 8.81 | 61.7 | 145 | 69 | 214 | 1876 | 0.5426 | 185 | 115 | Rabbit |
| Mink | 60 | 38.7 | 6/3.66 | 1/3.66 | 10.98 | 63.18 | 10.53 | 73.71 | 173 | 82 | 255 | 2223 | 0.4541 | 175 | 105 | Mink |
| Skunk | 60 | 38.7 | 12/2.59 | 7/2.59 | 12.95 | 63.18 | 37.03 | 100.5 | 175 | 290 | 465 | 5415 | 0.4565 | 170 | 139 | Skunk |
| Beaver | 70 | 45.2 | 6/3.99 | 1/3.99 | 11.97 | 74.82 | 12.47 | 87.29 | 205 | 97 | 302 | 2621 | 0.3834 | 220 | 140 | Beaver |
| Horse | 70 | 45.2 | 12/2.79 | 7/2.79 | 13.95 | 73.37 | 42.8 | 116.2 | 203 | 335 | 538 | 6241 | 0.3936 | 210 | 148 | Horse |
| Raccoon | 75 | 48.4 | 6/4.10 | 1/4.10 | 12.3 | 79.2 | 13.2 | 92.4 | 217 | 103 | 320 | 2774 | 0.3623 | 231 | 131 | Raccoon |
| Otter | 80 | 51.6 | 6/4.22 | 1/4.22 | 12.66 | 83.88 | 13.98 | 97.86 | 230 | 109 | 339 | 2927 | 0.3421 | 240 | 137 | Otter |
| Cat | 90 | 58.6 | 6/4.50 | 1/4.50 | 13.5 | 95.4 | 15.9 | 111.3 | 262 | 124 | 386 | 3335 | 0.3008 | 248 | 145 | Cat |
| Hare | 100 | 64.5 | 6/4.72 | 1/4.72 | 14.16 | 105 | 17.5 | 122.5 | 288 | 137 | 425 | 3671 | 0.2733 | 273 | 151 | Hare |
| Dog | 100 | 64.5 | 6/4.72 | 7/1.57 | 14.15 | 105 | 13.5 | 118.5 | 288 | 106 | 394 | 3335 | 0.2733 | 278 | 153 | Dog |
| Hyena | 100 | 64.5 | 7/4.39 | 7/1.93 | 14.57 | 105.8 | 20.44 | 126.2 | 290 | 160 | 450 | 4171 | 0.2712 | 287 | 155 | Hyena |
| Leopard | 125 | 80.7 | 6/5.28 | 7/1.75 | 15.81 | 131.3 | 16.8 | 148.1 | 360 | 132 | 492 | 4150 | 0.2185 | 316 | 167 | Leopard |
| Coyote | 125 | 80.7 | 26/2.54 | 7/1.91 | 15.89 | 132.1 | 20.09 | 152.2 | 365 | 157 | 522 | 4732 | 0.2187 | 311 | 164 | Coyote |
| Cougar | 125 | 80.7 | 18/3.05 | 1/3.05 | 15.25 | 130.3 | 7.24 | 137.5 | 362 | 57 | 419 | 3039 | 0.221 | 314 | 168 | Cougar |
| Tiger | 125 | 80.7 | 30/2.36 | 7/2.36 | 16.52 | 131.1 | 30.59 | 161.7 | 362 | 240 | 602 | 5914 | 0.2204 | 323 | 164 | Tiger |
| Wolf | 150 | 96.8 | 30/2.59 | 7/2.59 | 18.13 | 158 | 36.88 | 194.9 | 437 | 289 | 726 | 7056 | 0.1828 | 355 | 162 | Wolf |
| Dingo | 150 | 97.9 | 18/3.35 | 1/3.35 | 16.75 | 158.7 | 8.8 | 167.5 | 437 | 69 | 506 | 3640 | 0.1815 | 349 | 179 | Dingo |
| Lynx | 175 | 113 | 30/2.79 | 7/2.79 | 19.53 | 183.4 | 42.77 | 226.2 | 507 | 335 | 842 | 8137 | 0.1576 | 386 | 178 | Lynx |
| Caracal | 175 | 113.7 | 18/3.61 | 1/3.61 | 18.05 | 184.3 | 10.24 | 194.5 | 507 | 81 | 587 | 4181 | 0.1563 | 383 | 205 | Caracal |
| Panther | 200 | 129 | 30/3.00 | 7/3.00 | 21 | 212 | 49.49 | 261.5 | 586 | 388 | 964 | 9402 | 0.1363 | 421 | 191 | Panther |
| Lion | 225 | 145 | 30/3.18 | 7/3.81 | 22.26 | 238.5 | 55.65 | 294.2 | 659 | 436 | 1095 | 10258 | 0.1212 | 448 | 195 | Lion |
| Bear | 250 | 161 | 30/3.35 | 7/3.35 | 23.45 | 264 | 61.6 | 325.6 | 730 | 483 | 1213 | 11329 | 0.1095 | 481 | 198 | Bear |
| Goat | 300 | 194 | 30/3.71 | 7/3.71 | 25.97 | 324.3 | 75.67 | 400 | 896 | 593 | 1489 | 13838 | 0.0891 | 542 | 200 | Goat |
| Sheep | 350 | 226 | 30/3.99 | 7/3.99 | 27.93 | 374.1 | 87.29 | 461.4 | 1034 | 684 | 1718 | 15897 | 0.07724 | 592 | 197 | Sheep |
| Antelope | 350 | 226 | 54/2.97 | 7/2.79 | 26.73 | 373.1 | 48.37 | 421.5 | 1032 | 379 | 1411 | 12053 | 0.07747 | 588 | 208 | Antelope |
| Bison | 350 | 226 | 54/3.00 | 7/3.00 | 27 | 381.8 | 49.49 | 431.3 | 1056 | 388 | 1444 | 12328 | 0.07571 | 595 | 208 | Bison |
| Jaguar | 200 | 130 | 18/3.86 | 1/3.86 | 19.3 | 210.6 | 11.69 | 222.3 | 580 | 91 | 671 | 4752 | 0.1367 | 415 | 197 | Jaguar |
| Deer | 400 | 258 | 30/4.27 | 7/4.27 | 29.89 | 429.3 | 100.2 | 529.5 | 1186 | 785 | 1971 | 18202 | 0.06731 | 639 | 186 | Deer |
| Zebra | 400 | 258 | 54/3.18 | 7/3.18 | 28.62 | 428.9 | 55.59 | 484.5 | 1186 | 435 | 1621 | 13450 | 0.0674 | 635 | 202 | Zebra |
| Elk | 450 | 290 | 30/4.50 | 7/4.50 | 31.5 | 477 | 111.3 | 588.3 | 1318 | 872 | 2190 | 20211 | 0.06058 | 679 | 165 | Elk |
| Camel | 450 | 290 | 54/3.35 | 7/3.35 | 30.15 | 475.2 | 61.6 | 536.8 | 1314 | 483 | 1797 | 14857 | 0.06083 | 677 | 192 | Camel |
| Moose | 500 | 323 | 54/3.53 | 7/3.53 | 31.77 | 528.7 | 68.53 | 597.2 | 1462 | 537 | 1999 | 16428 | 0.05468 | 763 | 176 | Moose |

ALUMINIUM CONDUCTOR STEEL REINFORCED

AMERICAN SIZES

Aluminium conductors steel reinforced including standard sizes from ASTM B232

| Code name | Area | | | | Equivalent copper area | Stranding and wire diameter | | Approx. overall diameter Φ | Approx Weight | | | Nominal breaking load | Maximum dc resistance at 20°c | Current Rating | | Code name | | |
|------------------|------------|--------|-------|--------|------------------------|-----------------------------|---------|----------------------------|---------------|-------|-------|-----------------------|-------------------------------|----------------|--------|------------------|---------------|--------------|
| | Aluminium | | steel | Total | | Aluminium | steel | | Aluminium | steel | Total | | | kgf | Ohm/km | | temperate amp | tropical amp |
| | AWG OR MCM | mm² | mm² | mm² | | mm² | mm | | mm | mm | kg/km | | | | | | | |
| Turkey | 6 | 13.29 | 2.21 | 15.5 | 8.4 | 6/1.68 | 1/1.68 | 5.04 | 36.5 | 17 | 54 | 537 | 2.157 | 78 | 53 | Turkey | | |
| Thrush | 5 | 16.77 | 2.77 | 19.54 | 10.6 | 6/1.89 | 1/1.89 | 5.67 | 46 | 22 | 68 | 673 | 1.710 | 91 | 61 | Thrush | | |
| Swan | 4 | 21.16 | 3.55 | 24.71 | 13.3 | 6/2.12 | 1/2.12 | 6.36 | 58 | 27 | 85 | 848 | 1.356 | 105 | 69 | Swan | | |
| Swanate | 4 | 21.16 | 5.35 | 26.51 | 13.3 | 7/1.96 | 1/2.61 | 6.53 | 58 | 42 | 100 | 1070 | 1.356 | 104 | 69 | Swanate | | |
| Swallow | 3 | 26.65 | 4.45 | 31.1 | 16.8 | 6/2.38 | 1/2.38 | 7.14 | 73 | 35 | 108 | 1040 | 1.076 | 121 | 78 | Swallow | | |
| Sparrow | 2 | 33.61 | 5.61 | 39.22 | 21.2 | 6/2.67 | 1/2.67 | 8.01 | 92 | 44 | 136 | 1290 | 0.853 | 139 | 88 | Sparrow | | |
| Sprate | 2 | 33.61 | 8.52 | 42.13 | 21.2 | 7/2.47 | 1/3.30 | 8.24 | 92 | 67 | 159 | 1650 | 0.853 | 138 | 88 | Sprate | | |
| Robin | 1 | 42.39 | 7.1 | 49.49 | 26.7 | 6/3.00 | 1/3.00 | 9 | 116 | 55 | 172 | 1620 | 0.6765 | 160 | 100 | Robin | | |
| Raven | 1/0 | 53.48 | 8.9 | 62.38 | 33.6 | 6/3.37 | 1/3.37 | 10.11 | 147 | 69 | 216 | 1990 | 0.5364 | 183 | 111 | Raven | | |
| Quail | 2/0 | 67.42 | 11.23 | 78.65 | 42.4 | 6/3.78 | 1/3.78 | 11.34 | 185 | 88 | 273 | 2400 | 0.4255 | 210 | 123 | Quail | | |
| Pigeon | 3/0 | 85.03 | 14.19 | 99.22 | 53.5 | 6/4.25 | 1/4.25 | 12.75 | 233 | 110 | 344 | 3010 | 0.3373 | 241 | 137 | Pigeon | | |
| Penguin | 4/0 | 107.23 | 17.87 | 125.1 | 67.4 | 6/4.77 | 1/4.77 | 14.31 | 294 | 139 | 433 | 3790 | 0.2676 | 276 | 151 | Penguin | | |
| Waxwing | 266.8 | 135.16 | 7.48 | 142.64 | 85.0 | 18/3.09 | 1/3.09 | 15.45 | 373 | 59 | 431 | 3120 | 0.2133 | 319 | 170 | Waxwing | | |
| Owl | 266.8 | 135.16 | 17.55 | 152.71 | 85.0 | 6/5.36 | 7/1.79 | 16.09 | 373 | 137 | 509 | 4400 | 0.2133 | 322 | 168 | Owl | | |
| Partridge | 266.8 | 135.16 | 22 | 157.16 | 85.0 | 26/2.57 | 7/2.00 | 16.28 | 375 | 172 | 547 | 5120 | 0.2142 | 323 | 168 | Partridge | | |
| Ostrich | 300 | 152 | 24.77 | 176.77 | 95.5 | 26/2.73 | 7/2.12 | 17.28 | 421 | 193 | 614 | 5760 | 0.1906 | 346 | 175 | Ostrich | | |
| Merlin | 336.4 | 170.45 | 9.48 | 179.93 | 107.2 | 18.3.47 | 1/3.47 | 17.35 | 470 | 74 | 544 | 3940 | 0.1692 | 366 | 184 | Merlin | | |
| Linnet | 336.4 | 170.45 | 27.74 | 198.19 | 107.2 | 26/2.89 | 7/2.25 | 18.31 | 472 | 217 | 689 | 6400 | 0.1699 | 371 | 182 | Linnet | | |
| Oriole | 336.4 | 170.45 | 39.81 | 210.26 | 107.2 | 30/2.69 | 7/2.69 | 18.83 | 473 | 311 | 784 | 7870 | 0.1704 | 372 | 179 | Oriole | | |
| Chickadee | 397.5 | 201.42 | 11.16 | 212.58 | 126.5 | 18/3.77 | 1/3.77 | 18.85 | 555 | 87 | 642 | 4510 | 0.1432 | 403 | 194 | Chickadee | | |
| Brant | 397.5 | 201.42 | 26.13 | 227.55 | 126.5 | 24/3.27 | 7/2.18 | 19.61 | 558 | 204 | 762 | 6640 | 0.1438 | 405 | 192 | Brant | | |
| Ibis | 397.5 | 201.42 | 32.77 | 234.19 | 126.5 | 26/3.14 | 7/2.44 | 19.88 | 558 | 256 | 814 | 7390 | 0.1438 | 403 | 191 | Ibis | | |
| Lark | 397.5 | 201.42 | 46.97 | 248.39 | 126.5 | 30/2.92 | 7/2.92 | 20.44 | 560 | 367 | 927 | 9220 | 0.1442 | 410 | 188 | Lark | | |
| Pelican | 477 | 241.68 | 13.42 | 255.1 | 126.5 | 18/4.14 | 1/4.14 | 20.7 | 666 | 105 | 771 | 5330 | 0.1193 | 449 | 204 | Pelican | | |
| Flicker | 477 | 241.68 | 31.29 | 272.97 | 152.3 | 24/3.58 | 7/2.39 | 21.49 | 670 | 245 | 915 | 7780 | 0.1199 | 454 | 200 | Flicker | | |
| Hawk | 477 | 241.68 | 39.35 | 281.03 | 152.3 | 26/3.44 | 7/2.68 | 21.8 | 670 | 308 | 977 | 8870 | 0.1119 | 455 | 199 | Hawk | | |
| Hen | 477 | 241.68 | 56.39 | 298.07 | 152.3 | 30/3.20 | 7/3.20 | 22.4 | 671 | 441 | 1112 | 10800 | 0.1202 | 457 | 195 | Hen | | |
| Osprey | 556.5 | 282 | 15.68 | 297.68 | 177.4 | 18/4.47 | 1/4.47 | 22.35 | 777 | 122 | 899 | 6220 | 0.1022 | 492 | 211 | Osprey | | |
| Parakeet | 556.5 | 282 | 36.58 | 318.58 | 177.4 | 24/3.87 | 7/2.58 | 23.22 | 781 | 286 | 1067 | 8990 | 0.1028 | 492 | 206 | Parakeet | | |
| Dove | 556.5 | 282 | 45.94 | 327.94 | 177.4 | 26/3.72 | 7/2.89 | 23.55 | 781 | 359 | 1140 | 10300 | 0.1028 | 499 | 204 | Dove | | |
| Eagle | 556.5 | 282 | 65.81 | 347.81 | 177.4 | 30/3.46 | 7/3.46 | 24.21 | 783 | 515 | 1298 | 12600 | 0.103 | 500 | 199 | Eagle | | |
| Peacock | 605 | 306.58 | 39.74 | 346.32 | 192.9 | 24/4.03 | 7/2.69 | 24.2 | 850 | 310 | 1160 | 9770 | 0.09449 | 522 | 208 | Peacock | | |
| Squab | 605 | 306.58 | 49.94 | 356.52 | 192.9 | 26/3.87 | 7/3.01 | 24.51 | 850 | 390 | 1240 | 10900 | 0.09449 | 523 | 205 | Squab | | |
| Wood Duck | 605 | 306.58 | 71.55 | 378.13 | 192.9 | 30/3.61 | 7/3.61 | 25.25 | 851 | 560 | 1411 | 13100 | 0.09473 | 523 | 200 | Wood Duck | | |
| Teal | 605 | 306.58 | 69.87 | 376.45 | 192.9 | 30/3.61 | 19/2.16 | 25.24 | 851 | 546 | 1397 | 13600 | 0.09475 | 527 | 201 | Teal | | |

ALUMINIUM CONDUCTOR STEEL REINFORCED

AMERICAN SIZES

Aluminium conductors steel reinforced including standard Sizes from ASTM B232

| Code name | Area | | | Equivalent copper area | Stranding and wire diameter | | Approx. overall diameter Φ | Approx Weight | | | Nominal breaking load | Maximum dc resistance at 20°C | Current Rating | | Code name | |
|-----------------|------------|-----------------|-----------------|------------------------|-----------------------------|-----------|---------------------------------|---------------|-----------|-------|-----------------------|-------------------------------|----------------|---------------|-----------|-----------------|
| | Aluminium | | steel | | Total | Aluminium | | steel | Aluminium | steel | | | Total | temperate amp | | tropical amp |
| | AWG OR MCM | mm ² | mm ² | mm ² | mm ² | mm | mm | mm | kg/km | kg/km | kg/km | kgf | Ohm/km | | | |
| Kingbird | 636 | 322.39 | 17.74 | 340.13 | 198.0 | 18/4.78 | 1/4.78 | 23.88 | 889 | 139 | 1028 | 7100 | 0.0894 | 530 | 215 | Kingbird |
| Rook | 636 | 322.26 | 41.81 | 364.07 | 197.9 | 24/4.14 | 7/2.76 | 24.84 | 893 | 326 | 1219 | 10300 | 0.0899 | 537 | 208 | Rook |
| Grosbeak | 636 | 322.26 | 52.52 | 374.78 | 197.9 | 16/3.97 | 7/3.09 | 25.15 | 893 | 409 | 1302 | 11400 | 0.0899 | 538 | 206 | Grosbeak |
| Scoter | 636 | 322.26 | 75.22 | 397.48 | 197.9 | 30/3.70 | 7/3.70 | 25.88 | 895 | 588 | 1483 | 13800 | 0.0901 | 541 | 200 | Scoter |
| Egret | 636 | 322.26 | 73.48 | 395.74 | 197.9 | 30/3.70 | 19/2.22 | 25.9 | 894 | 576 | 1470 | 14300 | 0.0901 | 542 | 200 | Egret |
| Flamingo | 666.6 | 337.74 | 43.81 | 381.55 | 207.4 | 24/4.23 | 7/2.82 | 25.4 | 936 | 342 | 1278 | 10800 | 0.0858 | 552 | 210 | Flamingo |
| Gannet | 666.6 | 337.81 | 55.03 | 392.84 | 207.4 | 26/4.07 | 7/3.16 | 28.3 | 936 | 429 | 1365 | 12000 | 0.0858 | 618 | 200 | Gannet |
| Crow | 715.5 | 362.58 | 46.97 | 409.61 | 222.6 | 54/2.92 | 7/2.92 | 26.28 | 1005 | 399 | 1371 | 11800 | 0.0799 | 577 | 208 | Crow |
| Stilt | 715.5 | 362.64 | 46.97 | 409.61 | 222.7 | 14/4.39 | 7/2.92 | 26.31 | 1005 | 367 | 1372 | 11600 | 0.0799 | 577 | 208 | Stilt |
| Starling | 715.5 | 362.58 | 59.03 | 421.61 | 222.6 | 26/4.21 | 7/3.28 | 26.68 | 1005 | 461 | 1466 | 12900 | 0.0799 | 578 | 205 | Starling |
| Redwing | 715.5 | 362.58 | 82.64 | 445.22 | 222.6 | 30/3.92 | 19/2.35 | 27.43 | 1006 | 647 | 1653 | 15700 | 0.0801 | 581 | 198 | Redwing |
| Tern | 795 | 402.84 | 27.87 | 430.71 | 247.4 | 45/3.38 | 7/2.25 | 27.03 | 1116 | 217 | 1333 | 10020 | 0.0719 | 610 | 213 | Tern |
| Condor | 795 | 402.84 | 52.19 | 455.03 | 247.4 | 54/3.08 | 7/3.08 | 27.72 | 1116 | 408 | 1524 | 12800 | 0.0719 | 614 | 206 | Condor |
| Cuckoo | 795 | 402.90 | 52.20 | 455.1 | 247.4 | 24/4.62 | 7/3.08 | 27.74 | 1116 | 408 | 1524 | 12700 | 0.0719 | 614 | 206 | Cuckoo |
| Drake | 795 | 402.84 | 65.61 | 468.45 | 247.4 | 26/4.44 | 7/3.45 | 28.11 | 1116 | 512 | 1628 | 14300 | 0.0719 | 614 | 201 | Drake |
| Mallard | 795 | 402.84 | 91.87 | 494.71 | 247.4 | 30/4.14 | 19/2.48 | 28.96 | 1119 | 719 | 1838 | 17400 | 0.0721 | 618 | 191 | Mallard |
| Crane | 874.5 | 443.1 | 57.48 | 500.58 | 272.1 | 54/3.23 | 7/3.23 | 29.07 | 1228 | 448 | 1676 | 14100 | 0.0654 | 649 | 199 | Crane |
| Ruddy | 900 | 455.81 | 31.54 | 487.35 | 279.9 | 45/3.59 | 7/2.40 | 28.73 | 1263 | 246 | 1509 | 11100 | 0.0636 | 656 | 206 | Ruddy |
| Canary | 900 | 456.06 | 59.1 | 515.16 | 280.0 | 54/3.28 | 7/3.28 | 29.52 | 1263 | 461 | 1724 | 14500 | 0.0635 | 660 | 196 | Canary |
| Rail | 954 | 483.42 | 33.42 | 516.84 | 296.8 | 45/3.70 | 7/2.47 | 29.61 | 1339 | 260 | 1599 | 11800 | 0.0599 | 679 | 201 | Rail |
| Cardinal | 954 | 483.42 | 62.65 | 546.07 | 296.8 | 54/3.38 | 7/3.38 | 30.42 | 1339 | 490 | 1829 | 15300 | 0.0599 | 681 | 191 | Cardinal |
| Ortlan | 1033.5 | 523.68 | 36.19 | 559.87 | 321.6 | 45/3.85 | 7/2.57 | 30.81 | 1451 | 283 | 1734 | 12600 | 0.0553 | 712 | 192 | Ortlan |
| Curlew | 1033.5 | 523.68 | 67.87 | 591.55 | 321.6 | 54/3.52 | 7/3.52 | 31.68 | 1451 | 530 | 1981 | 16600 | 0.0553 | 715 | 177 | Curlew |
| Bluejay | 1113 | 563.93 | 39.03 | 602.96 | 346.3 | 45/4.00 | 7/2.66 | 31.98 | 1570 | 305 | 1875 | 13500 | 0.0516 | 743 | 178 | Bluejay |
| Finch | 1113 | 563.93 | 71.48 | 635.41 | 346.3 | 54/3.65 | 19/2.19 | 32.85 | 1570 | 560 | 2130 | 17700 | 0.0516 | 746 | 162 | Finch |
| Bunting | 1192.5 | 604.26 | 41.55 | 645.81 | 371.0 | 45/4.14 | 7/2.76 | 33.12 | 1682 | 326 | 2008 | 14500 | 0.0482 | 772 | 163 | Bunting |
| Grackle | 1192.5 | 604.26 | 76.52 | 680.78 | 371.0 | 54/3.77 | 19/2.27 | 33.97 | 1682 | 600 | 2282 | 19000 | 0.0482 | 773 | 140 | Grackle |
| Bittern | 1272 | 644.51 | 44.52 | 689.03 | 395.8 | 45/4.27 | 7/2.85 | 34.17 | 1795 | 348 | 2143 | 15500 | 0.0452 | 802 | 135 | Bittern |
| Bittern | 1272 | 644.51 | 44.52 | 689.03 | 395.8 | 45/4.27 | 7/2.85 | 34.17 | 1795 | 348 | 2143 | 15500 | 0.0452 | 802 | 135 | Bittern |
| Pheasant | 1272 | 644.51 | 81.68 | 726.19 | 395.8 | 54/3.90 | 19/2.34 | 35.1 | 1795 | 638 | 2433 | 19800 | 0.0452 | 807 | 110 | Pheasant |
| Dipper | 1351.5 | 685.16 | 47.1 | 732.26 | 420.7 | 45/4.40 | 7/2.92 | 35.16 | 1906 | 369 | 2275 | 16400 | 0.0426 | 831 | 110 | Dipper |
| Martin | 1351.5 | 684.84 | 86.71 | 771.55 | 420.5 | 54/4.02 | 19/2.41 | 36.17 | 1906 | 679 | 2585 | 21000 | 0.0426 | 835 | 110 | Martin |
| Bobolink | 1431 | 725.16 | 50.32 | 775.48 | 445.3 | 45/4.53 | 7/3.02 | 36.24 | 2019 | 391 | 2410 | 17400 | 0.0402 | 859 | 110 | Bobolink |
| Plover | 1431 | 725.16 | 91.81 | 816.97 | 445.3 | 54/4.14 | 19/2.48 | 37.24 | 2019 | 719 | 2738 | 22200 | 0.0402 | 862 | 110 | Plover |
| Nuthatch | 1510.5 | 765.16 | 52.9 | 818.06 | 469.8 | 45/4.65 | 7/3.10 | 37.2 | 2131 | 412 | 2543 | 18200 | 0.3802 | 886 | 110 | Nuthatch |
| Parrot | 1510.5 | 765.16 | 97.16 | 862.32 | 469.8 | 54/4.25 | 19/2.55 | 38.25 | 2131 | 759 | 2890 | 23500 | 0.0380 | 890 | 100 | Parrot |
| Lapwing | 1590 | 805.8 | 54.48 | 861.28 | 494.8 | 45/4.77 | 7/3.18 | 38.16 | 2243 | 435 | 2678 | 19100 | 0.0361 | 915 | 100 | Lapwing |
| Falcon | 1590 | 805.8 | 102.32 | 908.12 | 494.8 | 54/4.36 | 19/2.62 | 39.26 | 2243 | 799 | 3042 | 24800 | 0.0361 | 915 | 100 | Falcon |

**ALUMINIUM CONDUCTOR STEEL REINFORCED
CANADIAN SIZES**

Aluminium conductors steel reinforced including standard Sizes from CSA C49.1

| Code name | Area | | | | Equivalent copper area | Stranding and wire diameter | | Approx. overall diameter Φ | Approx Weight | | | Nominal breaking load | Maximum dc resistance at 20°C | Current Rating | | Code name |
|------------------|------------|-----------------|-----------------|-----------------|------------------------|-----------------------------|---------|---------------------------------|---------------|-------|-------|-----------------------|-------------------------------|----------------|--------|------------------|
| | Aluminium | | steel | Total | | Aluminium | steel | | Aluminium | steel | Total | | | kgf | Ohm/km | |
| | AWG OR MCM | mm ² | mm ² | mm ² | mm ² | mm | mm | mm | kg/km | kg/km | kg/km | | | | | |
| Wren | 8 | 8.39 | 1.42 | 9.81 | 5.2 | 6/1.33 | 1/1.33 | 3.99 | 23 | 11 | 34 | 340 | 3.4226 | 65 | 45 | Wren |
| Warbler | 7 | 10.59 | 1.34 | 11.93 | 6.5 | 6/1.50 | 1/1.50 | 4.5 | 29 | 14 | 43 | 425 | 2.7139 | 65 | 50 | Warbler |
| Turkey | 6 | 13.29 | 2.19 | 15.48 | 8.2 | 6/1.68 | 1/1.68 | 5.04 | 37 | 17 | 54 | 530 | 2.1535 | 85 | 55 | Turkey |
| Thrush | 5 | 16.77 | 2.77 | 19.54 | 10.3 | 6/1.89 | 1/1.89 | 5.67 | 46 | 22 | 68 | 660 | 1.7077 | 95 | 65 | Thrush |
| Swan | 4 | 21.16 | 3.55 | 24.71 | 13.0 | 6/2.12 | 1/2.12 | 6.36 | 58 | 27 | 85 | 830 | 1.3537 | 110 | 70 | Swan |
| Swallow | 3 | 26.65 | 4.54 | 31.09 | 16.4 | 6/2.38 | 1/2.38 | 7.14 | 73 | 35 | 108 | 1025 | 1.0738 | 125 | 80 | Swallow |
| Sparrow | 2 | 33.61 | 5.61 | 39.22 | 20.6 | 6/2.67 | 1/2.67 | 8.01 | 92 | 44 | 136 | 1265 | 0.8504 | 140 | 90 | Sparrow |
| Robin | 1 | 42.39 | 7.1 | 49.49 | 26.0 | 6/3.00 | 1/3.00 | 9 | 116 | 55 | 171 | 1585 | 0.6752 | 165 | 100 | Robin |
| Raven | 1/0 | 53.48 | 8.9 | 62.38 | 32.8 | 6/3.37 | 1/3.37 | 10.11 | 146 | 69 | 215 | 1940 | 0.5351 | 185 | 110 | Raven |
| Quail | 2/0 | 67.42 | 11.23 | 78.65 | 41.4 | 6/3.78 | 1/3.78 | 11.34 | 185 | 88 | 273 | 2425 | 0.4245 | 210 | 125 | Quail |
| Pigeon | 3/0 | 85.03 | 14.19 | 99.22 | 52.2 | 6/4.25 | 1/4.25 | 12.75 | 233 | 110 | 343 | 3030 | 0.3366 | 240 | 145 | Pigeon |
| Penguin | 4/0 | 107.23 | 17.87 | 125.1 | 65.8 | 6/4.77 | 1/4.77 | 14.31 | 194 | 139 | 433 | 3820 | 0.2671 | 275 | 150 | Penguin |
| Owl | 266.8 | 135.16 | 17.55 | 152.71 | 83.0 | 6/5.36 | 7/1.79 | 16.09 | 371 | 137 | 508 | 4330 | 0.2119 | 325 | 170 | Owl |
| Waxwing | 266.8 | 135.16 | 7.48 | 142.64 | 83.0 | 18/3.09 | 1/3.09 | 15.15 | 372 | 58 | 430 | 3210 | 0.2126 | 320 | 170 | Waxwing |
| Partridge | 266.8 | 135.16 | 22 | 157.16 | 83.0 | 26/2.57 | 7/2.00 | 16.28 | 374 | 171 | 545 | 5100 | 0.2136 | 320 | 175 | Partridge |
| Phoebe | 300 | 152 | 8.45 | 160.45 | 93.3 | 18/3.28 | 1/3.28 | 16.4 | 418 | 65 | 483 | 3620 | 0.1893 | 340 | 180 | Phoebe |
| Ostrich | 300 | 152 | 24.71 | 176.71 | 93.3 | 26/2.73 | 7/2.12 | 17.28 | 420 | 193 | 613 | 5730 | 0.19 | 345 | 175 | Ostrich |
| Piper | 300 | 152 | 35.48 | 187.48 | 93.3 | 30/2.54 | 7/2.54 | 17.78 | 420 | 277 | 697 | 7000 | 0.1903 | 350 | 175 | Piper |
| Merlin | 336.4 | 170.45 | 9.48 | 179.93 | 104.7 | 18/3.47 | 1/3.47 | 17.35 | 469 | 74 | 543 | 4060 | 0.1686 | 365 | 185 | Merlin |
| Linnet | 336.4 | 170.45 | 27.81 | 198.26 | 104.7 | 26/2.89 | 7/2.25 | 18.31 | 470 | 217 | 687 | 6375 | 0.1696 | 370 | 180 | Linnet |
| Oriole | 336.4 | 170.45 | 39.81 | 210.26 | 104.7 | 30/2.69 | 7/2.69 | 18.83 | 472 | 311 | 783 | 7735 | 0.1696 | 370 | 180 | Oriole |
| Chickadee | 397.5 | 201.42 | 11.16 | 212.58 | 123.7 | 18/3.77 | 1/3.77 | 18.85 | 555 | 86 | 641 | 4720 | 0.143 | 400 | 190 | Chickadee |
| Ibis | 397.5 | 201.42 | 32.77 | 234.19 | 123.7 | 26/3.14 | 7/2.44 | 19.88 | 557 | 256 | 813 | 7340 | 0.1434 | 405 | 190 | Ibis |
| Lark | 397.5 | 201.42 | 46.97 | 248.39 | 123.7 | 30/2.92 | 7/2.92 | 20.44 | 557 | 366 | 923 | 9060 | 0.1437 | 410 | 195 | Lark |
| Pelican | 477 | 241.68 | 13.42 | 255.1 | 148.4 | 18/4.14 | 1/4.14 | 20.7 | 665 | 104 | 769 | 5585 | 0.1191 | 450 | 205 | Pelican |
| _ | 477 | 241.68 | 23.74 | 265.42 | 148.4 | 22/3.74 | 7/2.08 | 21.2 | 667 | 186 | 853 | 7000 | 0.1194 | 450 | 205 | _ |
| Hawk | 477 | 241.68 | 39.42 | 281.1 | 148.4 | 26/3.44 | 7/2.67 | 21.77 | 667 | 308 | 975 | 8820 | 0.1194 | 450 | 200 | Hawk |
| Hen | 477 | 241.68 | 56.39 | 298.07 | 148.4 | 30/3.20 | 7/3.200 | 22.4 | 668 | 440 | 1108 | 10590 | 0.1198 | 455 | 195 | Hen |
| Heron | 500 | 253.35 | 59.1 | 312.45 | 155.6 | 30/3.28 | 7/3.28 | 22.96 | 701 | 461 | 1162 | 11090 | 0.1142 | 470 | 200 | Heron |
| Sapsucker | 556.5 | 282 | 27.68 | 309.68 | 173.2 | 22/4.04 | 7/2.24 | 22.88 | 771 | 216 | 993 | 8065 | 0.1124 | 495 | 210 | Sapsucker |
| Dove | 556.5 | 282 | 45.94 | 327.94 | 173.2 | 26.3.72 | 7/2.89 | 23.55 | 778 | 359 | 1137 | 10185 | 0.1024 | 495 | 205 | Dove |
| Eagle | 605 | 282 | 65.81 | 347.81 | 173.2 | 30/3.46 | 7/3.46 | 24.22 | 780 | 513 | 1293 | 12360 | 0.1027 | 495 | 200 | Eagle |
| Teal | 605 | 906.58 | 30.07 | 336.65 | 556.7 | 22/4.21 | 7/2.34 | 23.86 | 845 | 235 | 1080 | 8660 | 0.0942 | 520 | 210 | Teal |
| Duck | 605 | 306.58 | 39.81 | 346.39 | 188.3 | 54/2.69 | 7/2.69 | 24.21 | 848 | 311 | 1159 | 10205 | 0.0945 | 520 | 210 | Duck |
| _ | 636 | 322.26 | 31.61 | 353.87 | 197.9 | 22/4.32 | 7/2.40 | 24.48 | 888 | 247 | 1135 | 8650 | 0.0896 | 535 | 215 | _ |

**ALUMINIUM CONDUCTOR STEEL REINFORCED
CANADIAN SIZES**

Aluminium conductors steel reinforced including standard Sizes from CSA C49.1

| Code name | Area | | | | Equivalent copper area | Stranding and wire diameter | | Approx. overall diameter Φ | Approx. Weight | | | Nominal breaking load | Maximum dc resistance at 20°C | Current Rating | | Code name | | |
|--------------------|------------|-----------------|-----------------|-----------------|------------------------|-----------------------------|---------|---------------------------------|----------------|-------|-------|-----------------------|-------------------------------|----------------|--------|--------------------|---------------|--------------|
| | Aluminium | | steel | Total | | Aluminium | steel | | Aluminium | steel | Total | | | kgf | Ohm/km | | temperate amp | tropical amp |
| | AWG OR MCM | mm ² | mm ² | mm ² | | mm ² | mm | | mm | mm | kg/km | | | | | | | |
| Grosbeak | 636 | 322.26 | 52.45 | 374.71 | 197.9 | 26/3.97 | 7/3.09 | 25.15 | 890 | 409 | 1299 | 11340 | 0.0896 | 530 | 205 | Grosbeak | | |
| Egret | 636 | 322.26 | 73.55 | 395.81 | 197.9 | 30/3.70 | 19/2.22 | 25.9 | 891 | 576 | 1467 | 14330 | 0.0896 | 545 | 200 | Egret | | |
| Goose | 636 | 322.26 | 41.74 | 364.00 | 197.9 | 54/2.76 | 7/2.76 | 24.84 | 891 | 326 | 1217 | 10730 | 0.0899 | 535 | 210 | Goose | | |
| _ | 666.6 | 337.74 | 17.35 | 355.09 | 207.4 | 42/3.20 | 7/1.78 | 24.54 | 933 | 135 | 1068 | 8010 | 0.0856 | 545 | 215 | _ | | |
| Gull | 666.6 | 337.74 | 43.81 | 381.55 | 207.4 | 54/2.82 | 7/2.82 | 25.38 | 935 | 342 | 1277 | 11135 | 0.0856 | 555 | 210 | Gull | | |
| Starling | 715.5 | 362.58 | 59.03 | 421.61 | 222.6 | 26/4.21 | 7/3.28 | 26.68 | 1002 | 460 | 1462 | 12745 | 0.0797 | 575 | 205 | Starling | | |
| Redwing | 715.5 | 362.58 | 82.58 | 445.16 | 222.6 | 30/3.92 | 19/2.35 | 27.43 | 1002 | 646 | 1648 | 15695 | 0.0797 | 580 | 205 | Redwing | | |
| _ | 715.5 | 362.58 | 18.65 | 381.23 | 222.6 | 42/3.31 | 7/1.84 | 25.38 | 1002 | 146 | 1148 | 5600 | 0.0797 | 575 | 220 | _ | | |
| Crow | 715.5 | 362.58 | 46.97 | 409.55 | 222.6 | 54/2.92 | 7/2.92 | 26.28 | 1003 | 366 | 1369 | 11950 | 0.0797 | 580 | 210 | Crow | | |
| Dark Malled | 795 | 402.84 | 65.61 | 468.45 | 247.4 | 26/4.44 | 7/3.45 | 28.11 | 1112 | 512 | 1624 | 14175 | 0.0715 | 615 | 200 | Dark Malled | | |
| _ | 795 | 402.84 | 91.87 | 494.71 | 247.4 | 30/4.14 | 19/2.48 | 28.96 | 1113 | 719 | 1832 | 17440 | 0.0719 | 620 | 190 | _ | | |
| _ | 795 | 402.84 | 20.71 | 423.55 | 247.4 | 42/3.50 | 7/1.94 | 26.82 | 1112 | 162 | 1274 | 9550 | 0.0719 | 610 | 215 | _ | | |
| Condor | 795 | 402.84 | 52.19 | 455.03 | 247.4 | 54/3.08 | 7/3.08 | 27.72 | 1113 | 408 | 1512 | 12350 | 0.0719 | 615 | 205 | Condor | | |
| _ | 874.5 | 443.1 | 22.84 | 465.94 | 272.1 | 42/3.67 | 7/2.04 | 28.14 | 1223 | 179 | 1402 | 10365 | 0.0653 | 645 | 215 | _ | | |
| Crane | 874.5 | 443.1 | 57.48 | 500.68 | 272.1 | 54/3.23 | 7/3.23 | 29.07 | 1226 | 448 | 1674 | 14240 | 0.0653 | 650 | 200 | Crane | | |
| _ | 900 | 456.06 | 23.42 | 479.48 | 280.0 | 42/3.72 | 7/2.07 | 28.53 | 1259 | 183 | 1442 | 10660 | 0.0633 | 655 | 210 | _ | | |
| Canary | 900 | 456.06 | 59.1 | 515.16 | 280.0 | 54/3.28 | 7/3.28 | 29.52 | 1262 | 462 | 1724 | 14650 | 0.0633 | 660 | 200 | Canary | | |
| _ | 954 | 483.42 | 24.84 | 508.26 | 296.8 | 42/3.83 | 7/2.13 | 29.87 | 1335 | 193 | 1528 | 11115 | 0.0597 | 680 | 205 | _ | | |
| Cardinal | 954 | 483.42 | 62.65 | 546.07 | 296.8 | 54/3.38 | 7/3.38 | 30.42 | 1338 | 488 | 1826 | 15535 | 0.0597 | 685 | 195 | Cardinal | | |
| _ | 1033.5 | 523.68 | 26.97 | 550.65 | 321.6 | 42/3.99 | 7/2.21 | 30.57 | 1447 | 210 | 1657 | 12040 | 0.0551 | 710 | 200 | _ | | |
| Curlew | 1033.5 | 523.68 | 67.87 | 591.55 | 321.6 | 54/3.51 | 7/3.51 | 31.59 | 1448 | 530 | 1978 | 16850 | 0.0551 | 715 | 180 | Curlew | | |
| _ | 1113 | 563.93 | 28.97 | 592.90 | 346.3 | 42/4.14 | 7/2.30 | 31.74 | 1557 | 226 | 1783 | 12860 | 0.0512 | 740 | 185 | _ | | |
| Finch | 1113 | 563.93 | 71.55 | 636.48 | 346.3 | 54/3.65 | 19/2.19 | 32.85 | 1561 | 560 | 2121 | 18235 | 0.0512 | 745 | 165 | Finch | | |
| _ | 1192.5 | 604.26 | 31.1 | 635.36 | 371.0 | 42/4.28 | 7/2.38 | 32.82 | 1668 | 243 | 1911 | 13790 | 0.0479 | 775 | 170 | _ | | |
| Grackle | 1192.5 | 604.26 | 76.58 | 680.84 | 371.0 | 54/3.77 | 19/2.27 | 33.97 | 1671 | 600 | 2271 | 19550 | 0.0479 | 776 | 135 | Grackle | | |
| Scissortail | 1272 | 644.51 | 33.16 | 677.67 | 395.8 | 42/4.42 | 7/2.46 | 33.9 | 1780 | 259 | 2039 | 14720 | 0.0449 | 800 | 145 | Scissortail | | |
| Pheasant | 1272 | 644.51 | 81.68 | 726.19 | 395.8 | 54/3.9 | 19/2.34 | 35.1 | 1783 | 638 | 2421 | 20320 | 0.0449 | 805 | 110 | Pheasant | | |
| _ | 1351.5 | 684.84 | 35.23 | 720.02 | 420.5 | 42/4.56 | 7/2.53 | 34.95 | 1891 | 275 | 2166 | 15625 | 0.0423 | 829 | 115 | _ | | |
| Martin | 1351.5 | 684.84 | 86.71 | 771.55 | 420.5 | 54/4.02 | 19/2.41 | 36.17 | 1894 | 679 | 2573 | 21590 | 0.0423 | 835 | 120 | Martin | | |
| _ | 1431 | 125.1 | 37.35 | 762.45 | 76.8 | 42/4.69 | 7/2.61 | 35.97 | 2002 | 292 | 2294 | 16555 | 0.0379 | 858 | 120 | _ | | |
| Plover | 1431 | 725.1 | 91.87 | 816.97 | 445.2 | 54/4.14 | 19/2.48 | 37.24 | 2006 | 719 | 2725 | 22860 | 0.0400 | 865 | 120 | Plover | | |
| _ | 1510.5 | 765.35 | 39.35 | 804.70 | 470.0 | 42/4.82 | 7/2.67 | 36.93 | 2113 | 307 | 2420 | 17465 | 0.0377 | 885 | 120 | _ | | |
| parrot | 1510.5 | 765.35 | 96.84 | 862.19 | 470.0 | 54/4.25 | 19/2.55 | 38.25 | 2118 | 759 | 2877 | 24175 | 0.0377 | 890 | 120 | parrot | | |
| _ | 1590 | 805.68 | 71.1 | 876.78 | 494.7 | 48/4.63 | 7/3.6 | 38.58 | 2225 | 554 | 2779 | 21590 | 0.0358 | 930 | 115 | _ | | |
| Falcon | 1590 | 805.68 | 102.13 | 907.81 | 494.7 | 54/4.36 | 19/2.62 | 39.26 | 2229 | 799 | 3028 | 25445 | 0.0358 | 920 | 115 | Falcon | | |

**ALUMINIUM CONDUCTOR STEEL REINFORCED
GERMAN SIZES**

Aluminium conductors steel reinforced to DIN 48204

| Nominal Area | | Area | | | Equi-valent copper area | Stranding and wire diameter | | Approx. Overall diameter Φ | Approx. Weight | | | Nominal breaking load | Maximum dc resistance at 20°C | Current Rating | |
|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------------|-----------------------------|---------|---------------------------------|----------------|-------|-------|-----------------------|-------------------------------|----------------|----------|
| Aluminium | Steel | Aluminium | Steel | Total | | Aluminium | Steel | | Aluminium | Steel | Total | | | temperate | tropical |
| mm ² | mm ² | mm ² | mm ² | mm ² | mm ² | mm | mm | mm | kg/km | kg/km | kg/km | kgf | ohm/km | | |
| 16 | 2.5 | 15.3 | 2.6 | 17.9 | 9.4 | 6/1.80 | 1/1.80 | 5.4 | 42 | 20 | 62 | 595 | 1.875 | 85 | 60 |
| 25 | 4 | 23.8 | 4 | 27.8 | 14.6 | 6/2.25 | 1/2.25 | 6.8 | 65 | 32 | 97 | 920 | 1.206 | 115 | 75 |
| 35 | 6 | 34.3 | 5.7 | 40 | 21.1 | 6/2.70 | 1/2.70 | 8.1 | 94 | 46 | 140 | 1265 | 0.8365 | 140 | 90 |
| 44 | 32 | 44 | 31.7 | 75.7 | 27.0 | 14/2.00 | 7/2.40 | 11.2 | 122 | 250 | 372 | 4500 | 0.657 | 170 | 100 |
| 50 | 8 | 48.3 | 8 | 56.3 | 29.7 | 6/3.20 | 1/3.20 | 9.6 | 132 | 64 | 196 | 1710 | 0.5941 | 175 | 105 |
| 50 | 30 | 51.2 | 29.8 | 81 | 31.4 | 12/2.33 | 7/2.33 | 11.7 | 141 | 237 | 378 | 4380 | 0.5642 | 190 | 110 |
| 70 | 12 | 69.9 | 11.4 | 81.3 | 42.9 | 26/1.85 | 7/1.44 | 11.7 | 193 | 91 | 284 | 2680 | 0.413 | 220 | 125 |
| 95 | 15 | 94.4 | 15.3 | 109.7 | 58.0 | 26/2.15 | 7/1.67 | 13.6 | 260 | 123 | 383 | 3575 | 0.3058 | 260 | 145 |
| 95 | 55 | 96.5 | 56.3 | 152.8 | 59.3 | 12/3.20 | 7/3.20 | 16 | 266 | 446 | 712 | 7935 | 0.2992 | 270 | 145 |
| 105 | 75 | 105.7 | 75.5 | 181.5 | 64.9 | 14/3.10 | 19/2.25 | 17.5 | 292 | 599 | 891 | 10845 | 0.2735 | 290 | 145 |
| 120 | 20 | 121.6 | 19.8 | 141.4 | 74.7 | 26/2.44 | 7/1.90 | 15.5 | 336 | 158 | 494 | 4565 | 0.2374 | 305 | 160 |
| 120 | 70 | 122 | 71.3 | 193.3 | 74.9 | 12/3.60 | 7/3.60 | 18 | 337 | 564 | 901 | 9971 | 0.2367 | 360 | 155 |
| 125 | 30 | 127.9 | 29.8 | 157.7 | 78.5 | 30/2.33 | 7/2.33 | 16.1 | 353 | 238 | 591 | 5760 | 0.2259 | 310 | 160 |
| 150 | 25 | 148.9 | 24.2 | 173.1 | 91.4 | 26/3.70 | 7/2.10 | 17.1 | 411 | 194 | 605 | 5525 | 0.1939 | 340 | 175 |
| 170 | 40 | 171.8 | 40.1 | 211.9 | 105.5 | 30/2.70 | 7/2.70 | 18.9 | 475 | 319 | 794 | 7675 | 0.1682 | 375 | 180 |
| 185 | 30 | 183.8 | 29.8 | 213.6 | 112.9 | 26/3.00 | 7/2.33 | 19 | 507 | 239 | 746 | 6620 | 0.1571 | 385 | 185 |
| 210 | 35 | 209.1 | 34.1 | 243.2 | 128.4 | 26/3.20 | 7/2.49 | 20.3 | 577 | 273 | 850 | 7490 | 0.138 | 420 | 195 |
| 210 | 50 | 212.1 | 49.5 | 261.6 | 130.2 | 30/3.00 | 7/3.00 | 21 | 587 | 394 | 981 | 9390 | 0.1362 | 425 | 200 |
| 230 | 30 | 230.9 | 29.8 | 260.7 | 141.8 | 24/3.50 | 7/2.33 | 21 | 638 | 239 | 877 | 7310 | 0.1249 | 440 | 200 |
| 240 | 40 | 243 | 39.5 | 282.5 | 149.2 | 26/3.45 | 7/2.68 | 21.9 | 671 | 316 | 987 | 8640 | 0.1188 | 460 | 200 |
| 265 | 35 | 263.7 | 34.1 | 297.8 | 161.9 | 24/3.74 | 7/2.49 | 22.4 | 728 | 274 | 1002 | 8305 | 0.1094 | 475 | 205 |
| 300 | 50 | 304.3 | 49.5 | 353.7 | 186.9 | 26/3.86 | 7/3.00 | 24.5 | 840 | 396 | 1236 | 10700 | 0.09486 | 520 | 205 |
| 305 | 40 | 304.6 | 39.5 | 344.1 | 187.0 | 54/2.68 | 7/2.68 | 24.1 | 843 | 317 | 1160 | 9940 | 0.0949 | 520 | 210 |
| 340 | 30 | 339.3 | 29.8 | 396.1 | 208.3 | 48/3.00 | 7/2.33 | 25 | 938 | 242 | 1180 | 9290 | 0.05808 | 555 | 215 |
| 380 | 50 | 382 | 49.5 | 431.5 | 234.6 | 54/3.00 | 7/3.00 | 27 | 1056 | 397 | 1458 | 12310 | 0.07568 | 595 | 210 |
| 385 | 35 | 386 | 34.1 | 420.1 | 237.0 | 48/3.20 | 7/2.49 | 26.7 | 1067 | 277 | 1344 | 10480 | 0.07494 | 600 | 210 |
| 435 | 55 | 434.3 | 56.3 | 490.6 | 266.7 | 54/3.20 | 7/3.20 | 28.8 | 1203 | 450 | 1653 | 13645 | 0.06656 | 640 | 200 |
| 450 | 40 | 448.7 | 39.5 | 488.2 | 275.5 | 48/3.45 | 7/2.68 | 28.7 | 1241 | 320 | 1561 | 12075 | 0.06434 | 650 | 205 |
| 490 | 65 | 490.3 | 63.6 | 553.9 | 301.1 | 54/3.40 | 7/3.40 | 30.6 | 1356 | 510 | 1866 | 13510 | 0.05896 | 685 | 190 |
| 550 | 70 | 550 | 71.3 | 621.3 | 337.7 | 54/3.60 | 7/3.60 | 32.4 | 1520 | 572 | 2092 | 17060 | 0.05256 | 735 | 170 |
| 560 | 50 | 561.7 | 49.5 | 611.2 | 344.9 | 48/3.86 | 7/3.00 | 32.2 | 1553 | 401 | 1954 | 1495 | 0.0514 | 745 | 175 |
| 680 | 85 | 678.8 | 86 | 764.8 | 416.8 | 45/4.00 | 19/2.40 | 36 | 1868 | 702 | 2570 | 21040 | 0.042259 | 830 | 180 |

ALUMINIUM CONDUCTOR STEEL REINFORCED

IEC SIZES

Aluminium conductors steel reinforced from characteristics of A1/S1A conductors

| CODE number | Steel ratio | Area | | | Equi-valent copper area | Stranding and wire diameter | | Approx Overall diameter Φ | Approx.Weight | | | Nominal breaking load | Maximum dc resistance at 20°C | Current Rating | |
|-------------|-------------|-----------------|-----------------|-----------------|-------------------------|-----------------------------|---------|--------------------------------|---------------|-------|--------|-----------------------|-------------------------------|----------------|----------|
| | | Aluminium | Steel | Total | | Aluminium | Steel | | Aluminium | Steel | Total | | | temperate | tropical |
| | | mm ² | mm ² | mm ² | | mm ² | mm | | mm | mm | kg/km | | | | |
| 16 | 17 | 16 | 2.67 | 18.7 | 9.6 | 6/1.84 | 1/1.84 | 5.53 | 43.8 | 20.8 | 64.6 | 6.08 | 1.7934 | 90 | 60 |
| 25 | 17 | 25 | 4.17 | 29.2 | 17.5 | 6/2.3 | 1/2.3 | 6.91 | 68.4 | 32.5 | 100.9 | 9.13 | 1.1478 | 115 | 75 |
| 40 | 17 | 40 | 6.67 | 46.7 | 21.6 | 6/2.91 | 1/2.91 | 8.74 | 109.5 | 52.0 | 161.5 | 14.4 | 0.7174 | 150 | 95 |
| 63 | 17 | 63 | 10.5 | 73.5 | 27.7 | 6/3.66 | 1/3.66 | 11 | 172.5 | 81.9 | 254.4 | 21.63 | 0.4555 | 200 | 110 |
| 100 | 17 | 100 | 16.7 | 117 | 30.4 | 6/4.61 | 1/4.61 | 13.8 | 273.5 | 130.3 | 403.8 | 34.33 | 0.2869 | 270 | 145 |
| 125 | 6 | 125 | 6.94 | 132 | 32.2 | 18/2.97 | 1/2.97 | 14.9 | 343.8 | 54.1 | 397.9 | 29.17 | 0.2304 | 310 | 160 |
| 125 | 16 | 125 | 20.4 | 145 | 44 | 26/2.47 | 7/1.92 | 15.7 | 341.9 | 162.0 | 503.9 | 45.69 | 0.231 | 310 | 160 |
| 160 | 6 | 160 | 8.98 | 169 | 59.4 | 18/3.36 | 1/3.36 | 16.8 | 439.3 | 70.0 | 509.3 | 36.18 | 0.18 | 350 | 150 |
| 160 | 16 | 160 | 26.1 | 186 | 60.7 | 26/2.8 | 7/2.18 | 17.7 | 437.7 | 207.2 | 644.9 | 57.69 | 0.1805 | 350 | 150 |
| 200 | 6 | 200 | 11.1 | 211 | 66.5 | 18/3.76 | 1/3.76 | 18.8 | 550.1 | 86.6 | 636.7 | 44.22 | 0.144 | 400 | 190 |
| 200 | 16 | 200 | 32.6 | 233 | 76.5 | 26/3.13 | 7/2.43 | 19.8 | 547.3 | 258.9 | 806.2 | 70.13 | 0.1444 | 400 | 190 |
| 250 | 10 | 250 | 24.6 | 275 | 76.7 | 22/3.8 | 7/2.11 | 21.6 | 685.3 | 195.3 | 880.6 | 68.72 | 0.1154 | 450 | 190 |
| 250 | 16 | 250 | 40.7 | 291 | 80.4 | 26/3.5 | 7/2.72 | 22.2 | 684.5 | 323.2 | 1007.7 | 87.67 | 0.1155 | 450 | 190 |
| 315 | 7 | 315 | 21.8 | 337 | 93.6 | 45/2.99 | 7/1.99 | 23.9 | 866.5 | 173.1 | 1039.6 | 79.03 | 0.0917 | 520 | 210 |
| 315 | 16 | 315 | 51.3 | 366 | 108 | 26/3.93 | 7/3.05 | 24.9 | 862.4 | 407.3 | 1269.7 | 106.83 | 0.0917 | 520 | 210 |
| 400 | 7 | 400 | 27.7 | 428 | 116 | 45/3.36 | 7/2.24 | 26.9 | 1100.2 | 219.9 | 1320.1 | 98.36 | 0.0722 | 600 | 220 |
| 400 | 13 | 400 | 51.9 | 452 | 132 | 54/3.07 | 7/3.07 | 27.6 | 1098.2 | 412.1 | 1510.3 | 123.04 | 0.0723 | 600 | 220 |
| 450 | 7 | 450 | 31.1 | 481 | 133 | 45/3.57 | 7/2.38 | 28.5 | 1238.3 | 246.9 | 1485.2 | 107.47 | 0.0642 | 625 | 215 |
| 450 | 13 | 450 | 58.3 | 508 | 145 | 54/3.26 | 7/3.26 | 29.3 | 1236.2 | 462.9 | 1699.1 | 138.42 | 0.0643 | 650 | 215 |
| 500 | 7 | 500 | 34.6 | 535 | 153 | 45/3.76 | 7/2.51 | 30.1 | 1375.5 | 274.7 | 1650.2 | 119.41 | 0.0578 | 690 | 215 |
| 500 | 13 | 500 | 64.8 | 565 | 166 | 54/3.43 | 7/3.43 | 30.9 | 1373.4 | 514.5 | 1887.9 | 153.8 | 0.0578 | 475 | 210 |
| 560 | 7 | 560 | 38.7 | 599 | 191 | 45/3.98 | 7/2.65 | 31.8 | 1540.9 | 307.3 | 1848.2 | 133.74 | 0.0516 | 745 | 210 |
| 560 | 13 | 560 | 70.9 | 631 | 192 | 54/3.63 | 19/2.18 | 32.7 | 1539.3 | 564.1 | 2103.4 | 172.59 | 0.0516 | 745 | 210 |
| 630 | 7 | 630 | 43.6 | 674 | 213 | 45/4.22 | 7/2.81 | 33.8 | 1733.0 | 346.2 | 2079.2 | 150.45 | 0.0459 | 800 | 205 |
| 630 | 13 | 630 | 79.8 | 710 | 240 | 54/3.85 | 19/2.31 | 34.7 | 1731.4 | 634.9 | 2366.3 | 191.77 | 0.0459 | 800 | 205 |
| 710 | 7 | 710 | 49.1 | 759 | 243 | 45/4.48 | 7/2.99 | 35.9 | 1953.3 | 389.9 | 2343.2 | 169.56 | 0.0407 | 850 | 200 |
| 710 | 13 | 710 | 89.9 | 800 | 273 | 54/4.09 | 19/2.45 | 36.8 | 1951.6 | 715.2 | 2666.8 | 216.12 | 0.0407 | 850 | 200 |

ALUMINIUM CONDUCTOR STEEL REINFORCED

IEC SIZES

Aluminium conductors steel reinforced from characteristics of A1/S1B conductors

| CODE number | Steel ratio | Area | | | Equi-valent copper area | Stranding and wire diameter | | Approx Overall diameter Φ | Approx. Weight | | | Nominal breaking load | Maximum dc resistance at 20°C | Current Rating | |
|-------------|-------------|-----------------|-----------------|-----------------|-------------------------|-----------------------------|---------|--------------------------------|----------------|-------|--------|-----------------------|-------------------------------|----------------|----------|
| | | Aluminium | Steel | Total | | Aluminium | Steel | | Aluminium | Steel | Total | | | temperate | tropical |
| | % | mm ² | mm ² | mm ² | mm ² | mm | mm | mm | kg/km | kg/km | kg/km | KN | ohm/km | | |
| 16 | 17 | 16 | 2.67 | 18.7 | 9.6 | 6/1.84 | 1/1.84 | 5.53 | 43.8 | 20.8 | 64.6 | 5.89 | 1.7934 | 90 | 60 |
| 25 | 17 | 25 | 4.17 | 29.2 | 17.5 | 6/2.3 | 1/2.3 | 6.91 | 68.4 | 32.5 | 100.9 | 8.83 | 1.1478 | 115 | 75 |
| 40 | 17 | 40 | 6.67 | 46.7 | 21.6 | 6/2.91 | 1/2.91 | 8.74 | 109.5 | 52.0 | 161.5 | 13.93 | 0.7174 | 150 | 95 |
| 63 | 17 | 63 | 10.5 | 73.5 | 27.7 | 6/3.66 | 1/3.66 | 11 | 172.5 | 81.9 | 254.4 | 20.58 | 0.4555 | 200 | 110 |
| 100 | 17 | 100 | 16.7 | 117 | 30.4 | 6/4.61 | 1/4.61 | 13.8 | 273.5 | 130.3 | 403.8 | 32.67 | 0.2869 | 270 | 145 |
| 125 | 6 | 125 | 6.94 | 132 | 32.2 | 18/2.97 | 1/2.97 | 14.9 | 343.8 | 54.1 | 397.9 | 28.68 | 0.2304 | 310 | 160 |
| 125 | 16 | 125 | 20.4 | 145 | 44 | 26/2.47 | 7/1.92 | 15.7 | 341.9 | 162.0 | 503.9 | 44.27 | 0.231 | 310 | 160 |
| 160 | 6 | 160 | 8.98 | 169 | 59.4 | 18/3.36 | 1/3.36 | 16.8 | 439.3 | 70.0 | 509.3 | 35.29 | 0.18 | 350 | 150 |
| 160 | 16 | 160 | 26.1 | 186 | 60.7 | 26/2.8 | 7/2.18 | 17.7 | 437.7 | 207.2 | 644.9 | 55.86 | 0.1805 | 350 | 150 |
| 200 | 6 | 200 | 11.1 | 211 | 66.5 | 18/3.76 | 1/3.76 | 18.8 | 550.1 | 86.6 | 636.7 | 43.11 | 0.144 | 400 | 190 |
| 200 | 16 | 200 | 32.6 | 233 | 76.5 | 26/3.13 | 7/2.43 | 19.8 | 547.3 | 258.9 | 806.2 | 67.85 | 0.1444 | 400 | 190 |
| 250 | 10 | 250 | 24.6 | 275 | 76.7 | 22/3.8 | 7/2.11 | 21.6 | 685.3 | 195.3 | 880.6 | 67.01 | 0.1154 | 450 | 190 |
| 250 | 16 | 250 | 40.7 | 291 | 80.4 | 26/3.5 | 7/2.72 | 22.2 | 684.5 | 323.2 | 1007.7 | 84.82 | 0.1155 | 450 | 190 |
| 315 | 7 | 315 | 21.8 | 337 | 93.6 | 45/2.99 | 7/1.99 | 23.9 | 866.5 | 173.1 | 1039.6 | 77.51 | 0.0917 | 520 | 210 |
| 315 | 16 | 315 | 51.3 | 366 | 108 | 26/3.93 | 7/3.05 | 24.9 | 862.4 | 407.3 | 1269.7 | 101.7 | 0.0917 | 520 | 210 |
| 400 | 7 | 400 | 27.7 | 428 | 116 | 45/3.36 | 7/2.24 | 26.9 | 1100.2 | 219.9 | 1320.1 | 96.42 | 0.0722 | 600 | 220 |
| 400 | 13 | 400 | 51.9 | 452 | 132 | 54/3.07 | 7/3.07 | 27.6 | 1098.2 | 412.1 | 1510.3 | 117.85 | 0.0723 | 600 | 220 |
| 450 | 7 | 450 | 31.1 | 481 | 133 | 45/3.57 | 7/2.38 | 28.5 | 1238.3 | 246.9 | 1485.2 | 105.29 | 0.0642 | 625 | 215 |
| 450 | 13 | 450 | 58.3 | 508 | 145 | 54/3.26 | 7/3.26 | 29.3 | 1236.2 | 462.9 | 1699.1 | 132.58 | 0.0643 | 650 | 215 |
| 500 | 7 | 500 | 34.6 | 535 | 153 | 45/3.76 | 7/2.51 | 30.1 | 1375.5 | 274.7 | 1650.2 | 116.99 | 0.0578 | 690 | 215 |
| 500 | 13 | 500 | 64.8 | 565 | 166 | 54/3.43 | 7/3.43 | 30.9 | 1373.4 | 514.5 | 1887.9 | 147.31 | 0.0578 | 475 | 210 |
| 560 | 7 | 560 | 38.7 | 599 | 191 | 45/3.98 | 7/2.65 | 31.8 | 1540.9 | 307.3 | 1848.2 | 131.03 | 0.0516 | 745 | 210 |
| 560 | 13 | 560 | 70.9 | 631 | 192 | 54/3.63 | 19/2.18 | 32.7 | 1539.3 | 564.1 | 2103.4 | 167.63 | 0.0516 | 745 | 210 |
| 630 | 7 | 630 | 43.6 | 674 | 213 | 45/4.22 | 7/2.81 | 33.8 | 1733.0 | 346.2 | 2079.2 | 147.4 | 0.0459 | 800 | 205 |
| 630 | 13 | 630 | 79.8 | 710 | 240 | 54/3.85 | 19/2.31 | 34.7 | 1731.4 | 634.9 | 2366.3 | 186.19 | 0.0459 | 800 | 205 |
| 710 | 7 | 710 | 49.1 | 759 | 243 | 45/4.48 | 7/2.99 | 35.9 | 1953.3 | 389.9 | 2343.2 | 166.12 | 0.0407 | 850 | 200 |
| 710 | 13 | 710 | 89.9 | 800 | 273 | 54/4.09 | 19/2.45 | 36.8 | 1951.6 | 715.2 | 2666.8 | 209.83 | 0.0407 | 850 | 200 |

ALUMINIUM CONDUCTOR STEEL REINFORCED

IEC SIZES

Aluminium conductors steel reinforced from characteristics of A2/S1A conductors

| CODE number | Steel ratio | Area | | | Equi-valent copper area | Stranding and wire diameter | | Approx Overall diameter Φ | Approx. Weight | | | Nominal breaking load | Maximum dc resistance at 20°C | Current Rating | |
|-------------|-------------|-----------------|-----------------|-----------------|-------------------------|-----------------------------|---------|--------------------------------|----------------|-------|--------|-----------------------|-------------------------------|----------------|----------|
| | | Aluminium | Steel | Total | | Aluminium | Steel | | Aluminium | Steel | Total | | | temperate | tropical |
| | % | mm ² | mm ² | mm ² | mm ² | mm | mm | mm | kg/km | kg/km | kg/km | KN | ohm/km | | |
| 16 | 17 | 18.4 | 3.07 | 21.5 | 9.6 | 6/1.98 | 1/1.98 | 5.93 | 50.4 | 24.0 | 74.4 | 9.02 | 1.7934 | 85 | 60 |
| 25 | 17 | 28.8 | 4.8 | 33.6 | 17.5 | 6/2.47 | 1/2.47 | 7.41 | 78.8 | 37.4 | 116.2 | 13.96 | 1.1478 | 115 | 75 |
| 40 | 17 | 46 | 7.67 | 53.7 | 21.6 | 6/3.13 | 1/3.13 | 9.38 | 125.9 | 60.0 | 185.9 | 22.02 | 0.7174 | 140 | 90 |
| 63 | 17 | 72.5 | 12.1 | 84.6 | 27.7 | 6/3.92 | 1/3.92 | 11.8 | 198.7 | 94.1 | 292.8 | 34.68 | 0.4555 | 200 | 110 |
| 100 | 6 | 115 | 6.39 | 121 | 30.4 | 18/2.85 | 1/2.85 | 14.3 | 316.7 | 49.7 | 366.4 | 41.24 | 0.288 | 260 | 145 |
| 125 | 6 | 144 | 7.99 | 152 | 32.2 | 18/3.19 | 1/3.19 | 16 | 395.7 | 62.3 | 458 | 51.23 | 0.2304 | 310 | 160 |
| 125 | 16 | 144 | 23.4 | 167 | 44 | 26/2.65 | 7/2.06 | 16.8 | 396.2 | 183.7 | 579.9 | 69.86 | 0.231 | 310 | 160 |
| 160 | 6 | 184 | 10.2 | 194 | 59.4 | 18/3.61 | 1/3.61 | 18 | 525.1 | 61.1 | 586.2 | 65.58 | 0.18 | 350 | 150 |
| 160 | 16 | 184 | 30 | 214 | 60.7 | 26/3 | 7/2.34 | 19 | 505.3 | 237.0 | 742.3 | 88.52 | 0.1805 | 350 | 150 |
| 200 | 6 | 230 | 12.8 | 243 | 66.5 | 18/4.04 | 1/4.04 | 20.2 | 632.9 | 99.9 | 732.8 | 81.97 | 0.144 | 400 | 190 |
| 200 | 16 | 230 | 37.5 | 268 | 76.5 | 26/3.36 | 7/2.61 | 21.3 | 633.0 | 294.9 | 927.9 | 110.64 | 0.1444 | 400 | 190 |
| 250 | 10 | 288 | 28.3 | 316 | 76.7 | 22/4.08 | 7/2.27 | 23.1 | 790.4 | 223.1 | 1013.5 | 117.09 | 0.1154 | 360 | 155 |
| 250 | 16 | 288 | 46.9 | 335 | 80.4 | 26/3.75 | 7/2.92 | 23.8 | 790.7 | 369.1 | 1159.8 | 138.31 | 0.1155 | 310 | 160 |
| 315 | 7 | 363 | 25.1 | 388 | 93.6 | 45/3.2 | 7/2.14 | 25.6 | 998.3 | 198.2 | 1196.5 | 136.28 | 0.0917 | 340 | 175 |
| 315 | 16 | 363 | 59 | 422 | 108 | 26/4.21 | 7/3.28 | 26.7 | 995.7 | 465.7 | 1461.4 | 171.9 | 0.0917 | 520 | 210 |
| 400 | 7 | 460 | 31.8 | 492 | 116 | 45/3.61 | 7/2.41 | 28.9 | 1268.0 | 251.4 | 1519.4 | 172.1 | 0.0722 | 600 | 220 |
| 400 | 13 | 460 | 59.7 | 520 | 132 | 54/3.29 | 7/3.29 | 29.7 | 1269.7 | 468.6 | 1738.3 | 201.46 | 0.07 | 600 | 220 |
| 450 | 7 | 518 | 35.8 | 554 | 133 | 45/3.83 | 7/2.55 | 30.6 | 1427.8 | 281.5 | 1709.3 | 193.61 | 0.0642 | 625 | 215 |
| 450 | 13 | 518 | 67.1 | 585 | 145 | 54/3.49 | 7/3.49 | 31.5 | 1428.3 | 527.3 | 1955.6 | 226.64 | 0.0643 | 650 | 215 |
| 500 | 7 | 575 | 39.8 | 615 | 153 | 45/4.04 | 7/2.96 | 32.3 | 1520.0 | 379.3 | 1899.3 | 215.12 | 0.0578 | 690 | 215 |
| 500 | 13 | 575 | 74.6 | 650 | 166 | 54/3.68 | 7/3.68 | 33.2 | 1586.7 | 586.2 | 2172.9 | 251.82 | 0.0578 | 475 | 210 |
| 560 | 7 | 645 | 44.6 | 689 | 191 | 45/4.27 | 7/2.85 | 34.2 | 1775.6 | 351.6 | 2127.2 | 240.93 | 0.0516 | 745 | 210 |
| 560 | 13 | 645 | 81.6 | 726 | 192 | 54/3.9 | 19/2.34 | 35.1 | 1776.2 | 644.7 | 2420.9 | 283.21 | 0.0516 | 745 | 210 |

**ALUMINIUM CONDUCTOR STEEL REINFORCED
IEC SIZES**

Aluminium conductors steel reinforced from characteristics of A2/S1B conductors

| CODE number | Steel ratio | Area | | | Equi- valent copper area | Stranding and wire diameter | | Approx Overall diameter Φ | Approx. Weight | | | Nominal breaking load | Maximum dc resistance at 20°C | Current Rating | |
|-------------|-------------|-----------------|-----------------|-----------------|-----------------------------------|--------------------------------|---------|--------------------------------------|----------------|-------|--------|-----------------------------|-------------------------------------|----------------|----------|
| | | Aluminium | Steel | Total | | Aluminium | Steel | | Aluminium | Steel | Total | | | temperate | tropical |
| | % | mm ² | mm ² | mm ² | mm ² | mm | mm | mm | kg/km | kg/km | kg/km | KN | ohm/km | | |
| 16 | 17 | 18.4 | 3.07 | 21.5 | 9.6 | 6/1.98 | 1/1.98 | 5.93 | 50.4 | 24.0 | 74.4 | 8.81 | 1.7934 | 85 | 60 |
| 25 | 17 | 28.8 | 4.8 | 33.6 | 17.5 | 6/2.47 | 1/2.47 | 7.41 | 78.8 | 37.4 | 116.2 | 13.62 | 1.1478 | 115 | 75 |
| 40 | 17 | 46 | 7.67 | 53.7 | 21.6 | 6/3.13 | 1/3.13 | 9.38 | 125.9 | 60.0 | 185.9 | 21.25 | 0.7174 | 140 | 90 |
| 63 | 17 | 72.5 | 12.1 | 84.6 | 27.7 | 6/3.92 | 1/3.92 | 11.8 | 198.7 | 94.1 | 292.8 | 33.48 | 0.4555 | 200 | 110 |
| 100 | 6 | 115 | 6.39 | 121 | 30.4 | 18/2.85 | 1/2.85 | 14.3 | 316.7 | 49.7 | 366.4 | 40.79 | 0.288 | 260 | 145 |
| 125 | 6 | 144 | 7.99 | 152 | 32.2 | 18/3.19 | 1/3.19 | 16 | 395.7 | 62.3 | 458 | 50.43 | 0.2304 | 310 | 160 |
| 125 | 16 | 144 | 23.4 | 167 | 44 | 26/2.65 | 7/2.06 | 16.8 | 396.2 | 183.7 | 579.9 | 68.22 | 0.231 | 310 | 160 |
| 160 | 6 | 184 | 10.2 | 194 | 59.4 | 18/3.61 | 1/3.61 | 18 | 525.1 | 61.1 | 586.2 | 64.56 | 0.18 | 350 | 150 |
| 160 | 16 | 184 | 30 | 214 | 60.7 | 26/3 | 7/2.34 | 19 | 505.3 | 237.0 | 742.3 | 86.42 | 0.1805 | 350 | 150 |
| 200 | 6 | 230 | 12.8 | 243 | 66.5 | 18/4.04 | 1/4.04 | 20.2 | 632.9 | 99.9 | 732.8 | 80.69 | 0.144 | 400 | 190 |
| 200 | 16 | 230 | 37.5 | 268 | 76.5 | 26/3.36 | 7/2.61 | 21.3 | 633.0 | 294.9 | 927.9 | 108.02 | 0.1444 | 400 | 190 |
| 250 | 10 | 288 | 28.3 | 316 | 76.7 | 22/4.08 | 7/2.27 | 23.1 | 790.4 | 223.1 | 1013.5 | 115.12 | 0.1154 | 360 | 155 |
| 250 | 16 | 288 | 46.9 | 335 | 80.4 | 26/3.75 | 7/2.92 | 23.8 | 790.7 | 369.1 | 1159.8 | 135.03 | 0.1155 | 310 | 160 |
| 315 | 7 | 363 | 25.1 | 388 | 93.6 | 45/3.2 | 7/2.14 | 25.6 | 998.3 | 198.2 | 1196.5 | 134.52 | 0.0917 | 340 | 175 |
| 315 | 16 | 363 | 59 | 422 | 108 | 26/4.21 | 7/3.28 | 26.7 | 995.7 | 465.7 | 1461.4 | 166 | 0.0917 | 520 | 210 |
| 400 | 7 | 460 | 31.8 | 492 | 116 | 45/3.61 | 7/2.41 | 28.9 | 1268.0 | 251.4 | 1519.4 | 169.87 | 0.0722 | 600 | 220 |
| 400 | 13 | 460 | 59.7 | 520 | 132 | 54/3.29 | 7/3.29 | 29.7 | 1269.7 | 468.6 | 1738.3 | 195.49 | 0.07 | 600 | 220 |
| 450 | 7 | 518 | 35.8 | 554 | 133 | 45/3.83 | 7/2.55 | 30.6 | 1427.8 | 281.5 | 1709.3 | 191.1 | 0.0642 | 625 | 215 |
| 450 | 13 | 518 | 67.1 | 585 | 145 | 54/3.49 | 7/3.49 | 31.5 | 1428.3 | 527.3 | 1955.6 | 219.93 | 0.0643 | 650 | 215 |
| 500 | 7 | 575 | 39.8 | 615 | 153 | 45/4.04 | 7/2.96 | 32.3 | 1520.0 | 379.3 | 1899.3 | 212.33 | 0.0578 | 690 | 215 |
| 500 | 13 | 575 | 74.6 | 650 | 166 | 54/3.68 | 7/3.68 | 33.2 | 1586.7 | 586.2 | 2172.9 | 244.36 | 0.0578 | 475 | 210 |
| 560 | 7 | 645 | 44.6 | 689 | 191 | 45/4.27 | 7/2.85 | 34.2 | 1775.6 | 351.6 | 2127.2 | 237.82 | 0.0516 | 745 | 210 |
| 560 | 13 | 645 | 81.6 | 726 | 192 | 54/3.9 | 19/2.34 | 35.1 | 1776.2 | 644.7 | 2420.9 | 277.49 | 0.0516 | 745 | 210 |

**ALUMINIUM CONDUCTOR STEEL REINFORCED
FRENCH SIZES**

Aluminium conductors steel reinforced to NFC 34120

| Code Name | Area | | | Equi-valent copper area | Stranding and wire diameter | | Overall diameter | Weight | | | Nominal breaking load | Maximum dc resistance at 20°C | Current Rating | | |
|---------------|-----------------|-----------------|-----------------|-------------------------|-----------------------------|---------|------------------|-----------|-------|-------|-----------------------|-------------------------------|----------------|--------------|-----|
| | Aluminium | Steel | Total | | Aluminium | Steel | | Aluminium | Steel | Total | | | temperate amp | tropical amp | |
| | mm ² | mm ² | mm ² | | mm | mm | | kg/km | kg/km | kg/km | | | kg | ohm/km | |
| Canna | 37.7 | 28.27 | 9.42 | 37.69 | 17.2 | 9/2.0 | 3/2.0 | 8.3 | 78 | 77 | 155 | 1570 | 1.02 | 130 | 130 |
| Canna | 59.7 | 37.7 | 21.99 | 59.69 | 23.1 | 12/2.0 | 7/2.0 | 10 | 104 | 172 | 276 | 3110 | 0.765 | 150 | 150 |
| Canna | 75.5 | 47.71 | 27.83 | 75.54 | 29.3 | 12/2.25 | 7/2.25 | 11.25 | 130 | 218 | 348 | 3916 | 0.605 | 175 | 175 |
| Canna | 93 | 59 | 34.3 | 93.3 | 36.2 | 12/2.5 | 7/2.5 | 12.5 | 136 | 269 | 405 | 5226 | 0.485 | 200 | 200 |
| Canna | 116.2 | 94.25 | 21.99 | 116.24 | 57.9 | 30/2.0 | 7/2.0 | 14 | 260 | 172 | 432 | 4227 | 0.306 | 250 | 250 |
| Canna | 147.1 | 119.28 | 27.83 | 147.11 | 73.2 | 30/2.25 | 7/2.25 | 15.75 | 329 | 218 | 547 | 5302 | 0.243 | 300 | 300 |
| Crocus | 147.1 | 119.28 | 27.83 | 147.11 | 73.2 | 30/2.25 | 7/2.25 | 15.75 | 329 | 218 | 547 | 6067 | 0.243 | 300 | 300 |
| Canna | 181.6 | 147.26 | 34.26 | 181.62 | 90.4 | 30/2.5 | 7/2.5 | 17.5 | 406 | 269 | 675 | 6383 | 0.197 | 320 | 320 |
| Canna | 228 | 184.72 | 43.1 | 227.82 | 113.4 | 30/2.8 | 7/2.8 | 19.6 | 510 | 338 | 848 | 7862 | 0.157 | 380 | 380 |
| Crocus | 228 | 184.72 | 43.1 | 227.82 | 113.4 | 30/2.8 | 7/2.8 | 19.6 | 510 | 338 | 848 | 9177 | 0.157 | 380 | 380 |
| Canna | 288 | 233.8 | 54.55 | 288.35 | 143.6 | 30/3.15 | 7/3.15 | 22.05 | 647 | 427 | 1074 | 9789 | 0.1225 | 440 | 440 |
| Crocus | 288 | 233.8 | 54.55 | 288.35 | 143.6 | 30/3.15 | 7/3.15 | 22.05 | 647 | 427 | 1074 | 11543 | 0.1225 | 440 | 440 |
| Crocus | 297 | 221.67 | 75.54 | 297.21 | 136.1 | 36/2.8 | 19/2.25 | 22.45 | 620 | 598 | 1218 | 14225 | 0.1305 | 430 | 430 |
| Crocus | 412 | 325.72 | 85.95 | 411.67 | 200.0 | 32/3.6 | 19/2.4 | 26.4 | 912 | 681 | 1593 | 17294 | 0.089 | 540 | 540 |
| Crocus | 612 | 506.97 | 104.79 | 611.8 | 311.3 | 36/2.24 | 19/2.65 | 32.1 | 1405 | 835 | 2240 | 23100 | 0.057 | 680 | 680 |

EGYPT CABLE put all the data in this catalogue for information purpose only.

| Mechanical properties and zinc coating for steel wires | | | | |
|--|----------------------------|--------------------|--------------------|----------------------------|
| nominal wire diameter | min stress at 1% expansion | before stranding | after stranding | min weight of zinc coating |
| mm | kg/mm ² | kg/mm ² | kg/mm ² | g/m ² |
| 1.25 | 119.5 | 133.6 | 126.9 | 183 |
| 1.5 | 119.5 | 133.6 | 126.9 | 183 |
| 1.75 | 119.5 | 133.6 | 126.9 | 198 |
| 2.25 | 119.5 | 133.6 | 126.9 | 214 |
| 2.75 | 116.0 | 133.6 | 126.9 | 229 |
| 3 | 116.0 | 133.6 | 126.9 | 244 |
| 3.5 | 112.5 | 133.6 | 126.9 | 244 |
| 4.25 | 112.5 | 133.6 | 126.9 | 259 |
| 4.75 | 112.5 | 133.6 | 126.9 | 275 |

| Modulus of elastiscity and coefficents of linear expansion | | | |
|--|-------|--|--|
| Nummber of wires | | final modulus of elastiscity (practical) | coefficents of linear expansion (calculated) |
| Aluminium | Steel | kg/mm ² | per deg C |
| 6 | 1 | 8100 | 19.1X10 ⁻⁶ |
| 6 | 7 | 7700 | 19.8X10 ⁻⁶ |
| 12 | 7 | 7100 | 15.3X10 ⁻⁶ |
| 18 | 1 | 6700 | 21.2X10 ⁻⁶ |
| 24 | 7 | 7400 | 19.6X10 ⁻⁶ |
| 26 | 7 | 7700 | 18.9X10 ⁻⁶ |
| 28 | 7 | 7900 | 18.4X10 ⁻⁶ |
| 30 | 7 | 8200 | 17.8X10 ⁻⁶ |
| 30 | 19 | 8000 | 18X10 ⁻⁶ |
| 32 | 19 | 8200 | 17.5X10 ⁻⁶ |
| 54 | 7 | 7000 | 19.3X10 ⁻⁶ |
| 54 | 19 | 6800 | 19.4X10 ⁻⁶ |

Coefficent of linear expansion for aluminium 23X10⁻⁶ per deg C

Coefficent of linear expansion for steel 11.5X10⁻⁶ per deg C

| Mechanical properties of hard drawn aluminium wires | | | | | | | | | | | | | | | | | |
|---|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| nom.wire diameter | mm | 1.25 | 1.5 | 1.75 | 2 | 2.25 | 2.5 | 2.75 | 3 | 3.25 | 3.5 | 3.75 | 4 | 4.25 | 4.5 | 4.75 | 5 |
| before stranding | kg/mm ² | 20.4 | 19.7 | 19.2 | 18.8 | 18.4 | 18 | 17.6 | 17.2 | 16.9 | 16.7 | 16.5 | 16.3 | 16.3 | 16.2 | 16.2 | 16.2 |
| after stranding | kg/mm ² | 19 | 18.7 | 18.2 | 17.9 | 17.5 | 17.1 | 16.7 | 16.3 | 16 | 15.9 | 15.7 | 15.5 | 15.5 | 15.4 | 15.4 | 15.4 |