

**All Aluminum Conductor**
**BS 215 Part 1, Specification for All Aluminium Stranded Conductors**

| Code Name   | Area                    |                        | Stranding and wire diameter<br>mm | Approx. Overall diameter<br>mm | Weight<br>kg/km | Nominal breaking load<br>kN | Nom. DC resistance at 20 deg.<br>ohm/km |
|-------------|-------------------------|------------------------|-----------------------------------|--------------------------------|-----------------|-----------------------------|---|
|             | Nominal mm <sup>2</sup> | Actual mm <sup>2</sup> |                                   |                                |                 |                             |   |
| Midge       | 22                      | 23.33                  | 7/2.06                            | 6.2                            | 64              | 3.99                        | 1.227                                   |
| Aphis       | 25                      | 26.4                   | 3/3.35                            | 7.2                            | 73              | 4.11                        | 1.081                                   |
| Gnat        | 25                      | 26.8                   | 7/2.21                            | 6.6                            | 73              | 4.59                        | 1.066                                   |
| Weevil      | 30                      | 31.6                   | 3/3.66                            | 7.9                            | 86              | 4.86                        | 0.9082                                  |
| Mosquito    | 35                      | 37                     | 7/2.59                            | 7.8                            | 101             | 6.03                        | 0.7762                                  |
| Ladybird    | 40                      | 42.8                   | 7/2.79                            | 8.4                            | 117             | 6.87                        | 0.6689                                  |
| Ant         | 50                      | 52.83                  | 7/3.10                            | 9.3                            | 145             | 8.28                        | 0.5419                                  |
| Fly         | 60                      | 63.55                  | 7/3.40                            | 10.2                           | 174             | 9.9                         | 0.4505                                  |
| Bluebottle  | 70                      | 73.7                   | 7/3.66                            | 11                             | 202             | 11.34                       | 0.3881                                  |
| Earwing     | 75                      | 78.5                   | 7/3.78                            | 11.4                           | 215             | 11.94                       | 0.3644                                  |
| Grasshopper | 80                      | 84.1                   | 7/3.91                            | 11.7                           | 230             | 12.78                       | 0.3406                                  |
| Clegg       | 90                      | 95.6                   | 7/4.17                            | 12.5                           | 262             | 14.53                       | 0.2995                                  |
| Wasp        | 100                     | 106                    | 7/4.39                            | 13.2                           | 290             | 16                          | 0.2702                                  |
| Beetle      | 100                     | 106.6                  | 19/2.67                           | 13.4                           | 293             | 17.42                       | 0.2704                                  |
| Bee         | 125                     | 132                    | 7/4.90                            | 14.7                           | 361             | 19.94                       | 0.2169                                  |
| Cricket     | 150                     | 157.9                  | 7/5.36                            | 16.1                           | 432             | 23.85                       | 0.1813                                  |
| Hornet      | 150                     | 157.6                  | 19/3.25                           | 16.3                           | 434             | 27.7                        | 0.1825                                  |
| Caterpillar | 175                     | 186                    | 19/3.53                           | 17.7                           | 512             | 28.63                       | 0.1547                                  |
| Chafer      | 200                     | 213.2                  | 19/3.78                           | 18.9                           | 587             | 32.4                        | 0.1349                                  |
| Spider      | 225                     | 236.9                  | 19/3.99                           | 20                             | 652             | 36.01                       | 0.1211                                  |
| Cockroach   | 250                     | 265.7                  | 19/4.22                           | 21.1                           | 731             | 40.4                        | 0.1083                                  |
| Butterfly   | 300                     | 322.7                  | 19/4.65                           | 23.3                           | 888             | 48.7                        | 0.08916                                 |
| Moth        | 350                     | 373.2                  | 19/5.00                           | 25                             | 1027            | 56.37                       | 0.07711                                 |
| Drone       | 350                     | 373.3                  | 37/3.58                           | 25.1                           | 1029            | 57.45                       | 0.07741                                 |
| Locust      | 400                     | 428.5                  | 19/5.36                           | 26.8                           | 1179            | 64.73                       | 0.0671                                  |
| Centipede   | 400                     | 415.2                  | 37/3.78                           | 26.5                           | 1145            | 63.1                        | 0.06944                                 |
| Maybug      | 450                     | 486.9                  | 37/4.09                           | 28.6                           | 1342            | 74.01                       | 0.05931                                 |
| Scorpion    | 500                     | 529.5                  | 37/4.27                           | 29.9                           | 1460            | 79.98                       | 0.05441                                 |
| Cicada      | 600                     | 628.6                  | 37/4.65                           | 32.6                           | 1733            | 94.95                       | 0.04588                                 |
| Tarantula   | 750                     | 794.8                  | 37/5.23                           | 36.6                           | 2191            | 120.1                       | 0.03627                                 |