



## Basic Data For Aluminium Conductors Steel Reinforced (Acsr) As Per Is 398 (Part-Ii): 1996

| Code word | Aluminium area<br>(sq mm) |           | Total Sectional<br>Area (Sq. mm) | Stranding & Wire Diameter |             |                   |             | Overall Dia<br>(mm)<br>(Approx.) | Weight mass    |              |                 | Resistance AT<br>20 deg C<br>(Ohms/Km)<br>(Max) | Ultimate<br>Breaking<br>load (Kn) | Current Carrying Capacity |                  |                  |
|-----------|---------------------------|-----------|----------------------------------|---------------------------|-------------|-------------------|-------------|----------------------------------|----------------|--------------|-----------------|-------------------------------------------------|-----------------------------------|---------------------------|------------------|------------------|
|           | Nominal                   | Sectional |                                  | Conductor (Al)            |             | Conductor (Steel) |             |                                  | Total<br>kg/km | Al.<br>Kg/Km | Steel.<br>Kg/Km |                                                 |                                   | 65 Deg.c<br>Amps          | 75 Deg.c<br>Amps | 90 Deg.c<br>Amps |
|           |                           |           |                                  | Nn.                       | Dia<br>(mm) | No.               | Dia<br>(mm) |                                  |                |              |                 |                                                 |                                   |                           |                  |                  |
| Mole      | 10                        | 10.60     | 10.60                            | 6                         | 1.50        | 1                 | 1.50        | 4.50                             | 43             | 29           | 14              | 2.780                                           | 3.97                              | 58                        | 70               | NA               |
| Squirrel  | 20                        | 20.98     | 20.98                            | 6                         | 2.11        | 1                 | 2.11        | 6.33                             | 85             | 58           | 27              | 1.394                                           | 7.61                              | 89                        | 107              | NA               |
| Weasel    | 30                        | 31.61     | 31.61                            | 6                         | 2.59        | 1                 | 2.59        | 7.77                             | 128            | 87           | 41              | 0.9289                                          | 11.12                             | 114                       | 138              | NA               |
| Rabbit    | 50                        | 52.88     | 52.88                            | 6                         | 3.35        | 1                 | 3.35        | 10.05                            | 214            | 145          | 69              | 0.5524                                          | 18.25                             | 157                       | 190              | NA               |
| Racoon    | 80                        | 78.83     | 78.83                            | 6                         | 4.09        | 1                 | 4.09        | 12.27                            | 318            | 215          | 103             | 0.3712                                          | 26.91                             | 200                       | 244              | NA               |
| Dog       | 100                       | 105.0     | 105.0                            | 6                         | 4.72        | 1                 | 4.72        | 14.15                            | 394            | 288.3        | 105.7           | 0.2792                                          | 32.41                             | 239                       | 291              | NA               |
| Wolf      | 150                       | 158.1     | 158.1                            | 30                        | 2.59        | 7                 | 2.59        | 18.13                            | 727            | 438          | 289             | 0.1871                                          | 67.34                             | 329                       | 405              | NA               |
| Panther   | 200                       | 212.1     | 212.1                            | 30                        | 3.00        | 7                 | 3.00        | 21.00                            | 976            | 588.5        | 387.5           | 0.1390                                          | 89.67                             | 395                       | 487              | NA               |
| Kundah    | 400                       | 404.1     | 404.1                            | 42                        | 3.50        | 7                 | 1.96        | 56.88                            | 1282           | 1119         | 163             | 0.07311                                         | 88.79                             | 566                       | 705              | NA               |
| Zebra     | 420                       | 428.9     | 428.9                            | 54                        | 3.18        | 7                 | 3.18        | 28.62                            | 1621           | 1182         | 439             | 0.06886                                         | 130.32                            | 590                       | 737              | NA               |
| Moose     | 520                       | 528.5     | 528.5                            | 54                        | 3.53        | 7                 | 3.53        | 31.77                            | 1998           | 1463         | 535             | 0.05595                                         | 159.60                            | 660                       | 836              | NA               |

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|         |     |       |       |    |      |   |      |       |      |      |     |         |        |     |     |    |
|---------|-----|-------|-------|----|------|---|------|-------|------|------|-----|---------|--------|-----|-----|----|
| Morcula | 560 | 562.7 | 591.7 | 42 | 4.13 | 7 | 2.30 | 31.68 | 1781 | 1553 | 225 | 0.05231 | 120.16 | 688 | 862 | NA |
|---------|-----|-------|-------|----|------|---|------|-------|------|------|-----|---------|--------|-----|-----|----|



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