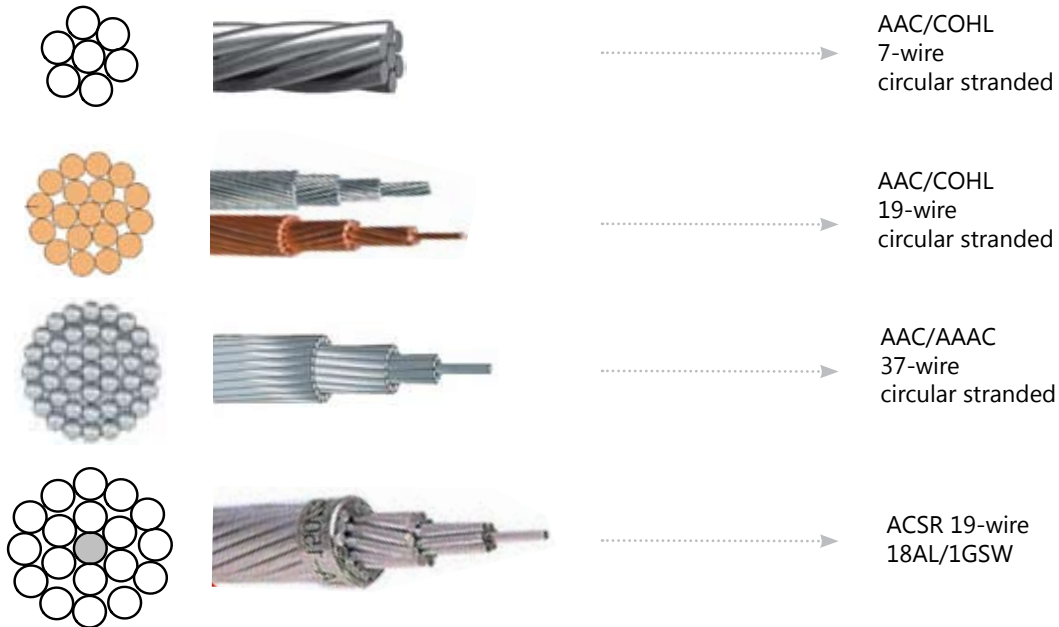


# CONDUCTORS OF OUR MANUFACTURE

## COPPER, ALUMINIUM, ALUMINIUM ALLOY OVERHEAD LINE CONDUCTORS:

BS 215 Part 1, BS 215 Part 2, ASTM B231, ASTM B 232, NFC 34-120, NFC 34-125, IEC 61089, BS 7884, BS 3242, ECG E-9

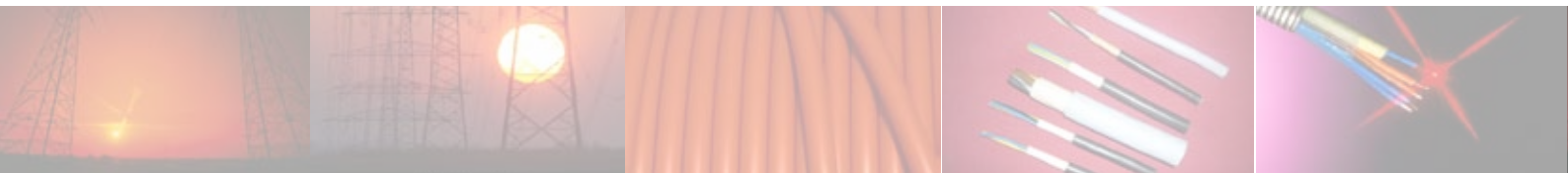


**APPLICATION:**  
POWER DISTRIBUTION

### ALUMINIUM AND COPPER BINDING WIRES

BS 7884, IEC 61089  
ECG E-11 Specification

**APPLICATION:**  
BINDING OF CONDUCTORS AND INSULATORS



**ALL ALUMINIUM CONDUCTOR (AAC)**

BS 215 PART 1



| Nominal cross sectional area | No of wires & wire diameter | Actual area     | Overall diameter | Weight | Calculated breaking Load | Max d.c. resistance @20°C |
|------------------------------|-----------------------------|-----------------|------------------|--------|--------------------------|---------------------------|
| mm <sup>2</sup>              | mm                          | mm <sup>2</sup> | mm               | kg/km  | kN                       | Ohm/km                    |
| 22                           | 7/2.06                      | 23.33           | 6.18             | 64     | 3.99                     | 1.227                     |
| 50                           | 7/3.10                      | 52.83           | 9.3              | 145    | 8.28                     | 0.5419                    |
| 60                           | 7/3.40                      | 63.55           | 10.2             | 174    | 9.9                      | 0.4505                    |
| 100                          | 7/4.39                      | 106             | 13.71            | 290    | 16.00                    | 0.2702                    |
| 150                          | 19/3.25                     | 157.6           | 16.25            | 434    | 25.70                    | 0.1825                    |
| 200                          | 19/3.78                     | 213.2           | 18.9             | 587    | 32.40                    | 0.1349                    |
| 250                          | 19/4.22                     | 265.7           | 21.1             | 731    | 40.40                    | 0.1083                    |
| 300                          | 19/4.65                     | 322.7           | 23.25            | 888    | 48.75                    | 0.08916                   |
| 400                          | 37/3.78                     | 415.2           | 26.46            | 1145   | 63.10                    | 0.06944                   |

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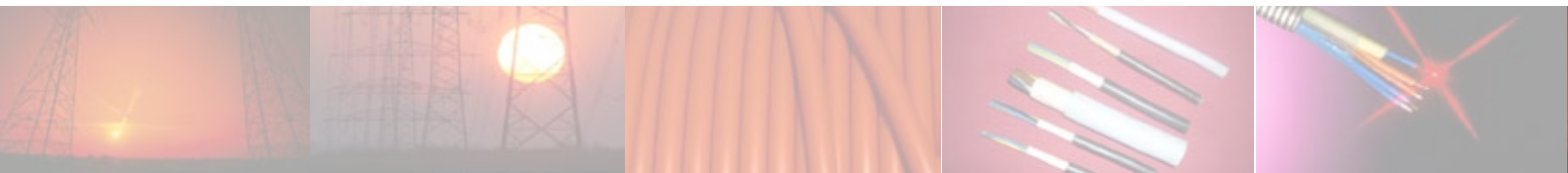
**ALL ALUMINIUM CONDUCTOR (AAC)**

IEC 61089



| Code number | Nominal cross sectional area<br>mm <sup>2</sup> | Number of Wires | Diameter |           | Weight<br>kg/km | Rated strength<br>kN | Max. d.c. resistance<br>@20°C<br>Ohm/km |
|-------------|---|-----------------|----------|-----------|-----------------|----------------------|---|
|             |   |                 | Wire     | Conductor |                 |                      |   |
|             |   |                 | mm       | mm        |                 |                      |   |
| 10          | 10  | 7               | 1.35     | 4.05      | 27.40           | 1.95                 | 2.8633                                  |
| 16          | 16  | 7               | 1.71     | 5.12      | 43.80           | 3.04                 | 1.7896                                  |
| 25          | 25  | 7               | 2.13     | 6.40      | 68.40           | 4.50                 | 1.1453                                  |
| 40          | 40  | 7               | 2.70     | 8.09      | 109.40          | 6.80                 | 0.7158                                  |
| 63          | 63  | 7               | 3.39     | 10.20     | 172.30          | 10.39                | 0.4545                                  |
| 100         | 100   | 19              | 2.59     | 12.90     | 274.80          | 17.00                | 0.2377                                  |
| 125         | 125   | 19              | 2.89     | 14.50     | 343.60          | 21.25                | 0.2302                                  |
| 160         | 160   | 19              | 3.27     | 16.40     | 439.80          | 26.40                | 0.1798                                  |
| 200         | 200   | 19              | 3.66     | 18.30     | 549.70          | 32.00                | 0.1439                                  |
| 250         | 250   | 19              | 4.09     | 20.50     | 687.10          | 40.00                | 0.1151                                  |
| 315         | 315   | 37              | 3.29     | 23.03     | 867.9           | 51.97                | 0.0916                                  |
| 400         | 400   | 37              | 3.71     | 26.00     | 1102.0          | 64.00                | 0.0721                                  |
| 450         | 450   | 37              | 3.94     | 27.50     | 1239.8          | 72.00                | 0.0641                                  |
| 500         | 500   | 37              | 4.15     | 29.00     | 1377.6          | 80.00                | 0.0577                                  |
| 560         | 560   | 37              | 4.39     | 30.70     | 1542.9          | 89.60                | 0.0515                                  |
| 630         | 630   | 61              | 3.63     | 32.60     | 1738.3          | 100.80               | 0.0458                                  |

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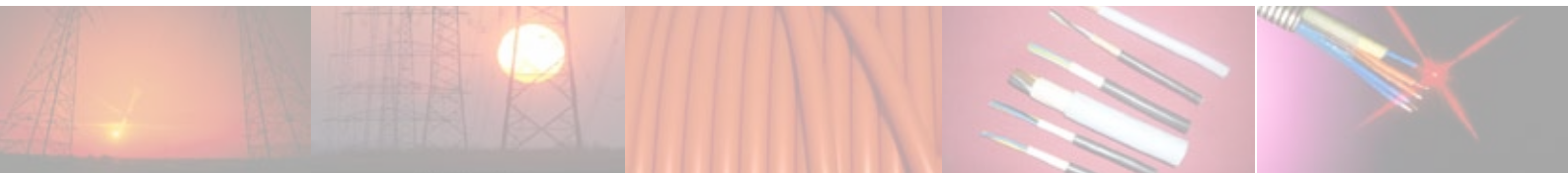
## ALL ALUMINIUM CONDUCTOR (AAC)

ASTM B 231



| Code name  | No of wires & wire diameter | Actual area     | Overall diameter | Weight  | Calculated Breaking Load |           | Max. d.c.resistance @20°C |
|------------|-----------------------------|-----------------|------------------|---------|--------------------------|-----------|---------------------------|
|            |                             |                 |                  |         | Wire                     | Conductor |                           |
|            | mm                          | mm <sup>2</sup> | mm               | kg / km | kgf                      | kN        | Ohm/km                    |
| Peachbell  | 7/1.55                      | 13.21           | 4.65             | 36      | 254                      | 2.49      | 2.175                     |
| Rose       | 7/1.96                      | 21.12           | 5.88             | 58      | 399                      | 3.91      | 1.361                     |
| Iris       | 7/2.47                      | 33.54           | 7.41             | 92      | 611                      | 5.99      | 0.8568                    |
| Pansy      | 7/2.78                      | 42.49           | 8.34             | 117     | 746                      | 7.31      | 0.6763                    |
| Poppy      | 7.3.12                      | 53.52           | 9.36             | 148     | 903                      | 8.86      | 0.5369                    |
| Aster      | 7/3.50                      | 67.35           | 10.5             | 186     | 1136                     | 11.14     | 0.4267                    |
| Phlox      | 7/3.93                      | 84.91           | 11.79            | 234     | 1375                     | 13.48     | 0.3384                    |
| Oxlip      | 7/4.42                      | 107.4           | 13.26            | 296     | 1740                     | 17.06     | 0.2676                    |
| Sneezewort | 7/4.80                      | 126.7           | 14.4             | 349     | 2052                     | 20.12     | 0.2268                    |
| Valerian   | 19/2.91                     | 126.4           | 14.55            | 348     | 2107                     | 20.66     | 0.2273                    |
| Daisy      | 7/4.96                      | 135.3           | 14.88            | 373     | 2191                     | 21.49     | 0.2124                    |
| Laurel     | 19/3.01                     | 135.2           | 15.05            | 373     | 2254                     | 22.10     | 0.2125                    |
| Peony      | 19/3.19                     | 151.9           | 15.95            | 419     | 2482                     | 24.34     | 0.1892                    |
| Tulip      | 19/3.38                     | 170.5           | 16.9             | 470     | 2787                     | 27.33     | 0.1685                    |
| Daffodil   | 19/3.45                     | 177.6           | 17.25            | 490     | 2903                     | 28.47     | 0.1618                    |
| Canna      | 19/3.68                     | 202.1           | 18.4             | 557     | 3237                     | 31.74     | 0.1422                    |
| Goldentuft | 19/3.91                     | 228.1           | 19.55            | 629     | 3580                     | 35.11     | 0.1260                    |
| Cosmos     | 19/4.02                     | 241.2           | 20.1             | 665     | 3784                     | 37.11     | 0.1191                    |
| Zinna      | 19/4.12                     | 253.3           | 20.6             | 698     | 3975                     | 38.98     | 0.1134                    |
| Dahlia     | 19/4.35                     | 282.4           | 21.75            | 779     | 4431                     | 43.45     | 0.1018                    |

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## ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

BS 215 PART 2



| Nominal cross sectional area | No of wires & wire diameter |        | Sectional Area of aluminium | Total sectional area | Overall diameter | Total Weight | Calculated breaking load | Max. d.c. resistance @20°C |
|------------------------------|-----------------------------|--------|-----------------------------|----------------------|------------------|--------------|--------------------------|----------------------------|
|                              | Aluminium                   | Steel  |                             |                      |                  |              |                          |                            |
| mm <sup>2</sup>              | mm                          | mm     | mm <sup>2</sup>             | mm <sup>2</sup>      | mm               | kg/km        | kN                       | Ohm/km                     |
| 25                           | 6/2.36                      | 1/2.36 | 26.25                       | 30.62                | 7.08             | 106          | 9.61                     | 1.093                      |
| 30                           | 6/2.59                      | 1/2.59 | 31.61                       | 36.88                | 7.77             | 128          | 11.45                    | 0.9077                     |
| 40                           | 6/3.00                      | 1/3.00 | 42.41                       | 49.48                | 9                | 172          | 15.2                     | 0.6766                     |
| 50                           | 6/3.35                      | 1/3.35 | 52.88                       | 61.7                 | 10.05            | 214          | 18.35                    | 0.5426                     |
| 70                           | 12/2.79                     | 7/2.79 | 73.37                       | 116.2                | 13.95            | 538          | 61.2                     | 0.3936                     |
| 100                          | 6/4.72                      | 7/1.57 | 105                         | 118.6                | 14.15            | 394          | 32.7                     | 0.2733                     |
| 150                          | 30/2.59                     | 7/2.59 | 158.1                       | 194.9                | 18.13            | 726          | 69.2                     | 0.1828                     |
| 150                          | 18/3.35                     | 1/3.55 | 158.7                       | 167.5                | 16.75            | 506          | 35.7                     | 0.1815                     |
| 175                          | 30/2.79                     | 7/2.79 | 183.4                       | 226.2                | 19.53            | 842          | 79.8                     | 0.1576                     |
| 175                          | 18/3.61                     | 1/3.61 | 184.3                       | 194.5                | 18.05            | 587          | 41.1                     | 0.1563                     |
| 200                          | 30/3.00                     | 7/3.00 | 212.1                       | 261.5                | 21               | 974          | 92.25                    | 0.1363                     |
| 200                          | 18/3.86                     | 1/3.86 | 210.6                       | 222.3                | 19.30            | 671          | 46.55                    | 0.1367                     |
| 400                          | 54/3.18                     | 7/3.18 | 428.9                       | 484.5                | 28.62            | 1621         | 131.9                    | 0.0674                     |

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## ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR) ASTM B 232



| Code name | No of wires & wire diameter |        | Actual area     |                 |                 | Overall diameter | Weight |         | Calculated breaking load |       | Max. d.c. resistance @20°C |
|-----------|-----------------------------|--------|-----------------|-----------------|-----------------|------------------|--------|---------|--------------------------|-------|----------------------------|
|           | Aluminium                   | Steel  | Aluminium       | Steel           | Total           |                  | mm     | Steel   | Total                    | kgf   |                            |
|           | mm                          | mm     | mm <sup>2</sup> | mm <sup>2</sup> | mm <sup>2</sup> | kg / km          |        | kg / km |                          |       |                            |
| Turkey    | 6/1.68                      | 1/1.68 | 13.3            | 2.22            | 15.52           | 5.04             | 17     | 54      | 540                      | 5.29  | 2.15                       |
| Thrush    | 6/1.89                      | 1/1.89 | 16.83           | 2.81            | 19.64           | 5.67             | 22     | 68      | 678                      | 6.65  | 1.699                      |
| Swan      | 6/2.12                      | 1/2.12 | 21.18           | 3.53            | 24.71           | 6.36             | 27     | 85      | 846                      | 8.3   | 1.35                       |
| Swanate   | 7/1.96                      | 1/2.61 | 21.12           | 5.35            | 26.47           | 6.53             | 42     | 100     | 1067                     | 10.46 | 1.354                      |
| Swallow   | 6/2.38                      | 1/2.38 | 26.69           | 4.45            | 31.14           | 7.14             | 35     | 108     | 1042                     | 10.22 | 1.071                      |
| Sparrow   | 6/2.67                      | 1/2.67 | 33.59           | 5.6             | 39.19           | 8.01             | 44     | 136     | 1289                     | 12.64 | 0.8513                     |
| Sparate   | 7/2.47                      | 1/3.30 | 33.54           | 8.55            | 42.09           | 8.24             | 67     | 159     | 1650                     | 16.18 | 0.8526                     |
| Robin     | 6/3.00                      | 1/3.0  | 42.41           | 7.07            | 49.48           | 9                | 55     | 171     | 1612                     | 15.81 | 0.6742                     |
| Raven     | 6/3.37                      | 1/3.37 | 53.52           | 8.92            | 62.44           | 10.11            | 69     | 216     | 1987                     | 19.49 | 0.5343                     |
| Quail     | 6/3.78                      | 1/3.78 | 67.33           | 11.22           | 78.55           | 11.34            | 87     | 272     | 2401                     | 23.55 | 0.4247                     |
| Pigeon    | 6/4.25                      | 1/4.25 | 85.12           | 14.19           | 99.31           | 12.75            | 110    | 334     | 3006                     | 29.48 | 0.3359                     |
| Penguin   | 6/4.77                      | 1/4.77 | 107.2           | 17.87           | 125.1           | 14.31            | 139    | 433     | 3787                     | 37.14 | 0.2667                     |
| Wax-wing  | 18/3.09                     | 1/3.09 | 135             | 7.5             | 142.5           | 15.45            | 58     | 430     | 3118                     | 30.58 | 0.2129                     |
| Owl       | 6/5.36                      | 7/1.79 | 135.4           | 17.62           | 153             | 16.09            | 138    | 509     | 4406                     | 43.21 | 0.2112                     |
| Partridge | 26/2.57                     | 7/2.0  | 138.9           | 21.99           | 156.9           | 16.28            | 172    | 546     | 5113                     | 50.14 | 0.2141                     |
| Ostrich   | 26/2.73                     | 7/2.12 | 152.2           | 24.71           | 176.9           | 17.28            | 193    | 615     | 5756                     | 56.45 | 0.1897                     |
| Merlin    | 18/3.47                     | 1/3.47 | 170.2           | 9.46            | 179.7           | 17.35            | 74     | 543     | 3931                     | 38.55 | 0.1688                     |
| Linnet    | 26/2.89                     | 7/2.25 | 170.6           | 27.83           | 198.4           | 18.31            | 217    | 690     | 6413                     | 62.89 | 0.1693                     |

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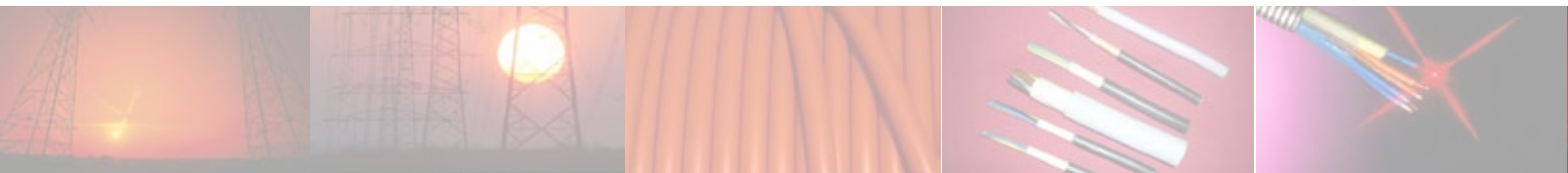


### ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

ASTM B 232 (CON'TD)

| Code name | No of wires & wire diameter |        | Actual area     |                 |                 | Overall diameter<br>mm | Weight  |       | Calculated breaking load |        | Max. d.c. resistance @20°C |
|-----------|-----------------------------|--------|-----------------|-----------------|-----------------|------------------------|---------|-------|--------------------------|--------|----------------------------|
|           | Aluminium                   | Steel  | Aluminium       | Steel           | Total           |                        | Steel   | Total | kgf                      | kN     | Ohms / km                  |
|           | mm                          | mm     | mm <sup>2</sup> | mm <sup>2</sup> | mm <sup>2</sup> | kg / km                | kg / km |       |                          |        |                            |
| Oriole    | 30/2.69                     | 7/2.69 | 170.5           | 39.78           | 210.3           | 18.83                  | 311     | 785   | 7866                     | 77.14  | 0.1698                     |
| Chika-dee | 18/3.77                     | 1/3.77 | 200.9           | 11.16           | 212.1           | 18.85                  | 87      | 641   | 4500                     | 44.13  | 0.143                      |
| Brant     | 24/3.27                     | 7/2.18 | 201.6           | 26.13           | 227.7           | 19.62                  | 204     | 763   | 6645                     | 65.16  | 0.1432                     |
| Ibis      | 26/3.14                     | 7/2.44 | 201.3           | 32.73           | 234             | 19.88                  | 256     | 814   | 7378                     | 72.35  | 0.1434                     |
| Lark      | 30/2.92                     | 7/2.92 | 200.9           | 46.88           | 247.8           | 20.44                  | 367     | 925   | 9203                     | 90.25  | 0.1441                     |
| Pelican   | 18/4.14                     | 1/4.14 | 242.3           | 13.46           | 255.8           | 20.7                   | 105     | 773   | 5347                     | 52.43  | 0.1186                     |
| Flicker   | 24/3.58                     | 7/2.39 | 241.6           | 31.4            | 273             | 21.49                  | 245     | 914   | 7791                     | 76.4   | 0.1195                     |
| Hawk      | 26/3.44                     | 7/2.67 | 241.6           | 39.19           | 280.8           | 21.77                  | 306     | 975   | 8844                     | 86.73  | 0.1195                     |
| Hen       | 30/3.2                      | 7/3.2  | 241.3           | 56.3            | 297.6           | 22.4                   | 440     | 1110  | 10784                    | 105.75 | 0.12                       |
| Osprey    | 18/4.47                     | 1/4.47 | 282.5           | 15.69           | 298.2           | 22.35                  | 112     | 891   | 6233                     | 61.12  | 0.1017                     |
| Parakeet  | 24/3.87                     | 7/2.58 | 282.3           | 36.6            | 318.9           | 23.22                  | 286     | 1068  | 9000                     | 88.26  | 0.1023                     |
| Dove      | 26/3.72                     | 7/2.89 | 282.6           | 45.92           | 328.5           | 23.55                  | 359     | 1142  | 10260                    | 100.62 | 0.1022                     |

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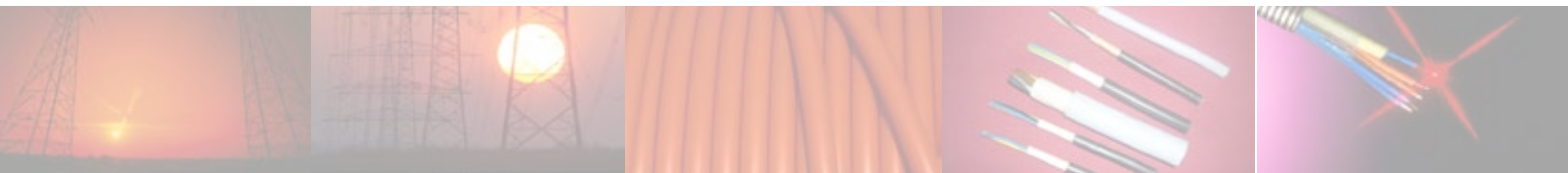


## ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

ASTM B 232 (CON'TD)

| Code name | No of wires & wire diameter |         |                 | Actual area     |                 | Overall diameter<br>mm | Weight  |       | Calculated breaking load |        | Max. d.c. resistance @20°C<br>Ohms / km |
|-----------|-----------------------------|---------|-----------------|-----------------|-----------------|------------------------|---------|-------|--------------------------|--------|---|
|           | Aluminium                   | Steel   | Aluminium       | Steel           | Total           |                        | Steel   | Total | kgf                      | kN     |   |
|           | mm                          | mm      | mm <sup>2</sup> | mm <sup>2</sup> | mm <sup>2</sup> | kg / km                | kg / km |       |                          |        |   |
| Eagle     | 30/3.46                     | 7/3.46  | 282.1           | 65.82           | 347.9           | 24.22                  | 515     | 1,298 | 12,607                   | 123.63 | 0.1026                                  |
| Peacock   | 24/4.03                     | 7/2.69  | 306.1           | 39.78           | 345.9           | 24.19                  | 311     | 1,159 | 9,771                    | 95.82  | 0.09434                                 |
| Sqab      | 26/3.87                     | 7/3.01  | 305.8           | 48.81           | 355.6           | 24.51                  | 389     | 1,236 | 11,019                   | 108.06 | 0.09443                                 |
| Wood-Duck | 30/3.61                     | 7/3.61  | 307.1           | 71.65           | 378.8           | 25.27                  | 560     | 1,413 | 13,140                   | 128.86 | 0.09426                                 |
| Teal      | 30/3.61                     | 19/2.61 | 307.1           | 69.62           | 376.72          | 25.24                  | 545     | 1,398 | 13,568                   | 133.06 | 0.09426                                 |
| Martin    | 54/4.02                     | 19/2.41 | 685.4           | 86.67           | 772.1           | 36.17                  | 678     | 2,586 | 21,008                   | 206.02 | 0.04234                                 |
| Bobo-link | 45/4.53                     | 7/3.02  | 752.3           | 50.14           | 802.4           | 36.24                  | 392     | 2,476 | 17,398                   | 170.62 | 0.03838                                 |
| Plover    | 54/4.14                     | 19/2.48 | 726.9           | 91.78           | 818.7           | 37.24                  | 718     | 2,742 | 22,264                   | 218.33 | 0.03992                                 |
| Nut-hatch | 45/4.65                     | 7/3.10  | 764.2           | 52.83           | 817             | 37.2                   | 413     | 2,530 | 18,153                   | 178.02 | 0.03779                                 |
| Parrot    | 54/4.25                     | 19/2.55 | 766.1           | 97.03           | 863.1           | 38.25                  | 759     | 2,892 | 23,500                   | 230.46 | 0.03788                                 |
| Lapwing   | 45/4.78                     | 7/3.18  | 807.5           | 55.6            | 863.1           | 38.22                  | 434     | 2,671 | 19,154                   | 187.84 | 0.03576                                 |
| Falcon    | 54/4.36                     | 19/2.62 | 806.2           | 102.4           | 908.6           | 39.26                  | 801     | 3,046 | 24,770                   | 242.91 | 0.03599                                 |
| Chukar    | 84/3.70                     | 19/2.22 | 903.2           | 73.54           | 976.7           | 40.7                   | 576     | 3,091 | 23,138                   | 226.91 | 0.03213                                 |
| Bluebird  | 84/4.07                     | 19/2.44 | 1093            | 88.84           | 1182            | 44.76                  | 695     | 3,738 | 27,343                   | 268.14 | 0.02655                                 |
| Kiwi      | 72/4.41                     | 7/2.94  | 1100            | 47.52           | 1148            | 44.1                   | 371     | 3,433 | 22,635                   | 221.97 | 0.02638                                 |
|           | 76/4.43                     | 19.2.07 | 1171            | 63.94           | 1235            | 45.79                  | 500     | 3,760 | 25,733                   | 252.35 | 0.02478                                 |
| Grouse    | 8/2.54                      | 1/4.24  | 40.54           | 14.12           | 54.66           | 9.32                   | 110     | 221   | 2,359                    | 23.13  | 0.7053                                  |
| Petrel    | 12/2.34                     | 7/2.34  | 51.61           | 30.1            | 81.71           | 11.7                   | 235     | 378   | 4,699                    | 46.08  | 0.5595                                  |

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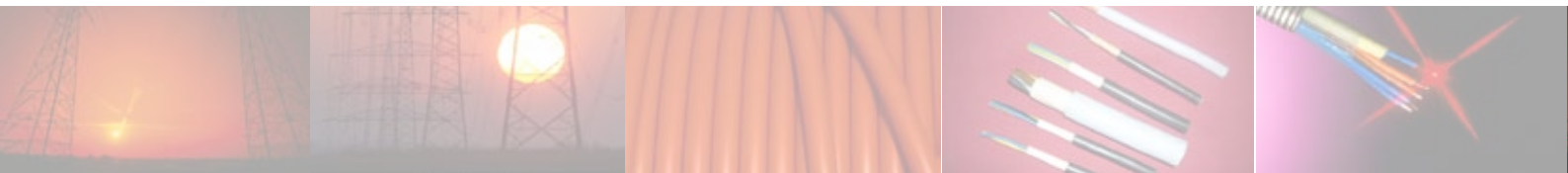


**ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)**

ASTM B 232 (CON'TD)

| Code name | No of wires & wire diameter |         |                 | Actual area     |                 | Overall diameter<br>mm | Weight  |       | Calculated breaking load |        | Max. d.c. resistance @20°C<br>Ohms / km |
|-----------|-----------------------------|---------|-----------------|-----------------|-----------------|------------------------|---------|-------|--------------------------|--------|---|
|           | Aluminium                   | Steel   | Aluminium       | Steel           | Total           |                        | Steel   | Total | kgf                      | kN     |   |
|           | mm                          | mm      | mm <sup>2</sup> | mm <sup>2</sup> | mm <sup>2</sup> | kg / km                | kg / km |       |                          |        |   |
| Minorca   | 12/2.44                     | 7/2.44  | 56.11           | 32.73           | 88.84           | 12.2                   | 256     | 411   | 5,110                    | 50.11  | 0.5146                                  |
| Leghom    | 12/2.69                     | 7/2.69  | 68.2            | 39.78           | 108             | 13.45                  | 311     | 500   | 6,164                    | 60.44  | 0.4234                                  |
| Guinea    | 12/2.92                     | 7/2.92  | 80.36           | 46.88           | 127.2           | 14.6                   | 367     | 590   | 7,236                    | 70.96  | 0.3595                                  |
| Dotterel  | 12/3.08                     | 7/3.08  | 89.41           | 52.15           | 141.6           | 15.4                   | 408     | 656   | 7,844                    | 76.92  | 0.323                                   |
| Dorking   | 12/3.20                     | 7/3.20  | 96.51           | 56.3            | 152.8           | 16                     | 440     | 707   | 8,468                    | 83.04  | 0.2992                                  |
| Cochin    | 12/3.37                     | 7/3.37  | 107             | 62.44           | 169.4           | 16.85                  | 488     | 784   | 9,391                    | 92.09  | 0.2699                                  |
| Brahma    | 16/2.86                     | 19/2.48 | 102.8           | 91.78           | 194.6           | 18.12                  | 721     | 1,006 | 12,871                   | 126.2  | 0.2809                                  |
| Kingbird  | 18/4.78                     | 1/4.78  | 323             | 17.95           | 341             | 23.9                   | 140     | 1,031 | 7,128                    | 69.9   | 0.08896                                 |
| Swift     | 36/3.38                     | 1/3.38  | 323             | 8.97            | 382             | 23.66                  | 70      | 961   | 6,253                    | 61.32  | 0.08896                                 |
| Rock      | 24/4.14                     | 7/2.76  | 323.1           | 41.88           | 365             | 24.84                  | 327     | 1,218 | 10,299                   | 101    | 0.08937                                 |
| Gros-beak | 26/3.97                     | 7/3.09  | 321.8           | 52.49           | 374.3           | 25.15                  | 410     | 1,302 | 11,428                   | 112.07 | 0.08973                                 |
| Scoter    | 30/3.70                     | 7/3.70  | 322.6           | 75.26           | 397.9           | 25.9                   | 588     | 1,484 | 13,803                   | 135.36 | 0.08973                                 |
| Egret     | 30/3.70                     | 19/2.22 | 322.6           | 73.54           | 396.1           | 25.9                   | 576     | 1,472 | 14,304                   | 140.27 | 0.08973                                 |
| Flamingo  | 24/4.23                     | 7/2.82  | 337.3           | 43.72           | 381             | 25.38                  | 342     | 1,277 | 10,752                   | 105.44 | 0.08561                                 |

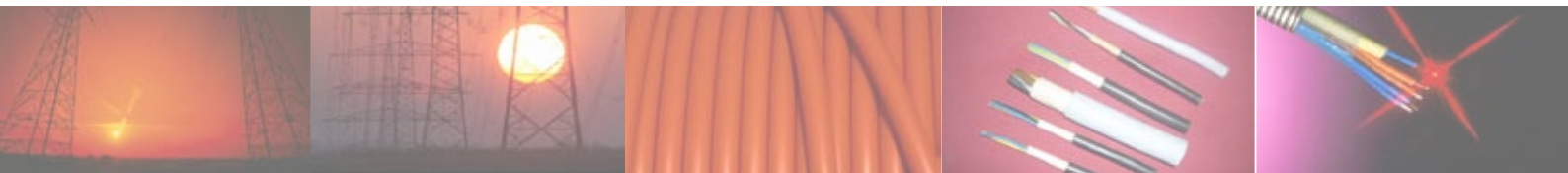
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**ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)**

ASTM B 232 (CON'TD)

| Code name | No of wires & wire diameter |         | Actual area     |                 |                 | Overall diameter |         |         | Weight | Calculated breaking load | Max. d.c. resistance @20°C |
|-----------|-----------------------------|---------|-----------------|-----------------|-----------------|------------------|---------|---------|--------|--------------------------|----------------------------|
|           | Aluminium                   | Steel   | Aluminium       | Steel           | Total           | mm               | Steel   | Total   |        |                          |                            |
|           | mm                          | mm      | mm <sup>2</sup> | mm <sup>2</sup> | mm <sup>2</sup> |                  | kg / km | kg / km | kgf    | kN                       | Ohms / km                  |
| Gannet    | 26/4.07                     | 7/3.16  | 338.3           | 54.9            | 393.2           | 25.76            | 429     | 1,366   | 11,978 | 117.46                   | 0.08536                    |
| Stilt     | 24/4.39                     | 7/2.92  | 363.3           | 46.88           | 410.2           | 26.32            | 366     | 1,373   | 11,554 | 113.31                   | 0.07948                    |
| Starling  | 24/4.21                     | 7/3.28  | 361.9           | 59.15           | 421.1           | 26.68            | 462     | 1,932   | 12,865 | 126.16                   | 0.07979                    |
| Crow      | 54/2.92                     | 7/2.92  | 361.6           | 46.88           | 408.5           | 26.68            | 366     | 1,368   | 11,753 | 115.26                   | 0.07986                    |
| Red-wing  | 30/3.92                     | 19/2.35 | 362.1           | 82.41           | 444.5           | 27.43            | 645     | 1,651   | 15,650 | 153.47                   | 0.07994                    |
| Coot      | 36/3.77                     | 1/3.77  | 401.9           | 11.16           | 413.1           | 26.39            | 87      | 1,195   | 7,580  | 74.33                    | 0.0715                     |
| Cuckoo    | 24/4.62                     | 7/3.08  | 402.3           | 52.15           | 454.5           | 27.72            | 407     | 1,522   | 12,650 | 124.05                   | 0.07187                    |
| Drake     | 26/4.44                     | 7/3.45  | 402.6           | 65.44           | 468             | 28.11            | 511     | 1,626   | 14,267 | 139.91                   | 0.07172                    |
| Tem       | 45/3.38                     | 7/2.25  | 403.8           | 27.83           | 431.6           | 27.03            | 217     | 1,336   | 10,027 | 98.33                    | 0.07151                    |
| Condor    | 54/3.08                     | 7/3.08  | 402.3           | 52.15           | 454.5           | 27.72            | 407     | 1,522   | 12,771 | 125.24                   | 0.07178                    |
| Mallard   | 30/4.14                     | 19/2.48 | 403.8           | 91.78           | 495.6           | 28.96            | 718     | 1,839   | 17,439 | 171.02                   | 0.07169                    |
| Crane     | 54/3.23                     | 7/3.23  | 442.5           | 57.36           | 499.9           | 29.07            | 448     | 1,678   | 14,046 | 137.74                   | 0.06526                    |
| Ruddy     | 45/3.59                     | 7/2.40  | 455.5           | 31.67           | 487.2           | 28.74            | 247     | 1,509   | 11,094 | 108.79                   | 0.06339                    |
| Canary    | 54/3.28                     | 7/3.28  | 456.3           | 59.15           | 515.5           | 29.52            | 462     | 1,726   | 14,484 | 142.04                   | 0.06328                    |
| Catbird   | 36/4.14                     | 1/4.14  | 484.6           | 13.46           | 498.1           | 28.98            | 105     | 1,441   | 8,986  | 88.12                    | 0.0593                     |
| Rail      | 45/3.70                     | 7/2.47  | 483.8           | 33.54           | 517.3           | 29.61            | 262     | 1,602   | 11,772 | 115.44                   | 0.05969                    |
| Cardinal  | 54/3.38                     | 7/3.38  | 484.5           | 62.81           | 547.3           | 30.42            | 490     | 1,832   | 15,381 | 150.84                   | 0.0596                     |
| Tanager   | 36/4.30                     | 1/4.30  | 522.8           | 14.52           | 537.3           | 30.1             | 113     | 1,554   | 9,694  | 95.06                    | 0.05496                    |

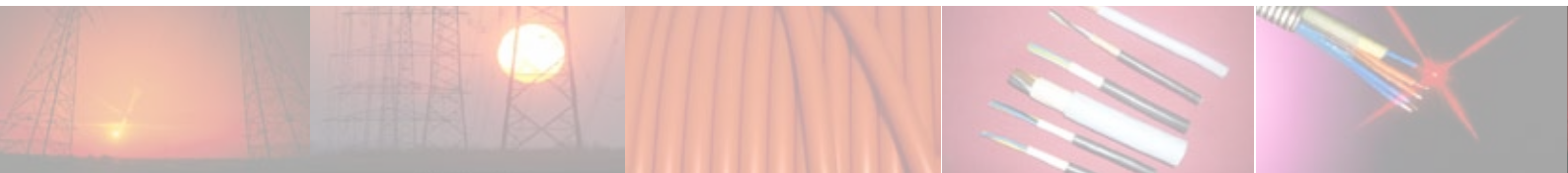
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**ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)**

ASTM B 232 (CON'TD)

| Code name | No of wires & wire diameter |         | Actual area     |                 |                 | Overall diameter |         |         | Weight | Calculated breaking load | Max. d.c. resistance @20°C |
|-----------|-----------------------------|---------|-----------------|-----------------|-----------------|------------------|---------|---------|--------|--------------------------|----------------------------|
|           | Aluminium                   | Steel   | Aluminium       | Steel           | Total           | mm               | Steel   | Total   | kgf    | kN                       | Ohms / km                  |
|           | mm                          | mm      | mm <sup>2</sup> | mm <sup>2</sup> | mm <sup>2</sup> |                  | kg / km | kg / km |        |                          |                            |
| Ortlan    | 45/3.85                     | 7/2.57  | 523.9           | 36.31           | 560.2           | 30.81            | 284     | 1,736   | 12,587 | 123.35                   | 0.05512                    |
| Curlew    | 54/3.51                     | 7/3.51  | 522.5           | 67.73           | 590.2           | 31.59            | 529     | 1,977   | 16,586 | 162.65                   | 0.05527                    |
| Bluejay   | 45/4.00                     | 7/2.66  | 565.5           | 38.9            | 604.4           | 31.98            | 304     | 1,871   | 13,540 | 132.78                   | 0.05106                    |
| Finch     | 54/3.65                     | 19/2.19 | 565             | 71.57           | 536.6           | 32.85            | 560     | 2,133   | 17,748 | 174.05                   | 0.05136                    |
| Bunting   | 45/4.14                     | 7/2.76  | 605.8           | 41.88           | 647.7           | 33.12            | 327     | 2,005   | 14,531 | 142.5                    | 0.04767                    |
| Crackle   | 54/3.77                     | 19/2.27 | 602.8           | 76.89           | 679.7           | 33.97            | 602     | 2,280   | 19,001 | 186.34                   | 0.04814                    |
| Skylark   | 36/4.78                     | 1/4.78  | 646             | 17.95           | 664             | 33.46            | 140     | 1,921   | 11,978 | 117.46                   | 0.04448                    |
| Bittern   | 45/4.27                     | 7/2.85  | 644.4           | 44.66           | 689.1           | 34.17            | 349     | 2,134   | 15,471 | 151.72                   | 0.04481                    |
| Pheasant  | 54/3.90                     | 19/2.34 | 645.1           | 81.71           | 726.8           | 35.1             | 640     | 2,436   | 19,789 | 194.06                   | 0.04498                    |
| Dipper    | 45/4.40                     | 7/2.93  | 684.2           | 47.2            | 1.4             | 35.19            | 363     | 2,265   | 16,380 | 160.63                   | 0.0422                     |

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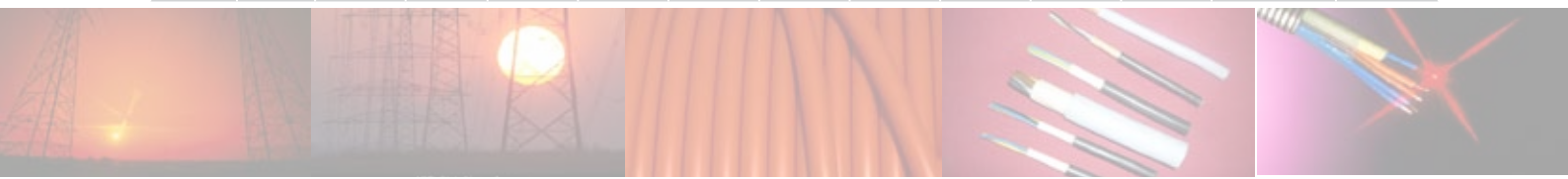


**ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)**

IEC 61089



| Code number | Steel ratio | Cross-Sectional Areas |                 | Number of Wires |           | Wire Diameter |           |       | Diameter |           | Linear mass | Rated strength | Max. d.c. resistance @20°C |
|-------------|-------------|-----------------------|-----------------|-----------------|-----------|---------------|-----------|-------|----------|-----------|-------------|----------------|----------------------------|
|             |             | Aluminium             | Steel           | Total           | Aluminium | Steel         | Aluminium | Steel | Core     | Conductor |             |                |                            |
|             | %           | mm <sup>2</sup>       | mm <sup>2</sup> | mm <sup>2</sup> |           |               | mm        | mm    | mm       | mm        | kg/km       | kN             | Ohm/km                     |
| 16          | 17          | 16                    | 2.67            | 18.7            | 6         | 1             | 1.84      | 1.84  | 1.84     | 5.53      | 64.6        | 6.08           | 1.7934                     |
| 25          | 17          | 25                    | 4.17            | 29.2            | 6         | 1             | 2.3       | 2.3   | 2.3      | 6.91      | 100.9       | 9.13           | 1.1478                     |
| 40          | 17          | 40                    | 6.67            | 46.7            | 6         | 1             | 2.91      | 2.91  | 2.91     | 8.74      | 161.5       | 14.4           | 0.7174                     |
| 63          | 17          | 63                    | 10.5            | 73.5            | 6         | 1             | 3.66      | 3.66  | 3.66     | 11        | 254.4       | 21.63          | 0.4555                     |
| 100         | 17          | 100                   | 16.7            | 117             | 6         | 1             | 4.61      | 4.61  | 4.61     | 13.8      | 403.8       | 34.33          | 0.2869                     |
| 125         | 6           | 125                   | 6.94            | 132             | 18        | 1             | 2.97      | 2.97  | 2.97     | 14.9      | 397.9       | 29.17          | 0.2304                     |
| 125         | 16          | 125                   | 20.4            | 145             | 26        | 7             | 2.47      | 1.92  | 5.77     | 15.7      | 503.9       | 45.69          | 0.2310                     |
| 160         | 6           | 160                   | 8.89            | 169             | 18        | 1             | 3.36      | 3.36  | 3.36     | 16.8      | 509.3       | 36.18          | 0.1800                     |
| 160         | 16          | 160                   | 26.1            | 186             | 26        | 7             | 2.8       | 2.18  | 6.53     | 17.7      | 644.9       | 57.69          | 0.1805                     |
| 200         | 6           | 200                   | 11.1            | 211             | 18        | 1             | 3.76      | 3.76  | 3.76     | 18.8      | 636.7       | 44.22          | 0.1440                     |
| 200         | 16          | 200                   | 32.6            | 233             | 26        | 7             | 3.13      | 2.43  | 7.3      | 19.8      | 806.2       | 70.13          | 0.1444                     |
| 250         | 10          | 250                   | 24.6            | 275             | 22        | 7             | 3.8       | 2.11  | 6.34     | 21.6      | 880.6       | 68.72          | 0.1154                     |
| 250         | 16          | 250                   | 40.7            | 291             | 26        | 7             | 3.5       | 2.72  | 8.16     | 22.2      | 1007.7      | 87.67          | 0.1155                     |
| 315         | 7           | 315                   | 21.8            | 337             | 45        | 7             | 2.99      | 1.99  | 5.97     | 23.9      | 1039.6      | 79.03          | 0.0917                     |
| 315         | 16          | 315                   | 51.3            | 366             | 26        | 7             | 3.93      | 3.05  | 9.16     | 24.9      | 1269.7      | 106.83         | 0.0917                     |
| 400         | 7           | 400                   | 27.7            | 428             | 45        | 7             | 3.36      | 2.24  | 6.73     | 26.9      | 1320.1      | 98.36          | 0.0722                     |
| 400         | 13          | 400                   | 51.9            | 452             | 54        | 7             | 3.07      | 3.07  | 9.21     | 27.6      | 1510.3      | 123.04         | 0.0723                     |
| 450         | 7           | 450                   | 31.1            | 481             | 45        | 7             | 3.57      | 2.38  | 7.14     | 28.5      | 1485.2      | 107.47         | 0.0642                     |
| 450         | 13          | 450                   | 58.3            | 508             | 54        | 7             | 3.26      | 3.26  | 9.77     | 29.3      | 1699.1      | 138.42         | 0.0643                     |
| 500         | 7           | 500                   | 34.6            | 535             | 45        | 7             | 3.76      | 2.51  | 7.52     | 30.1      | 1650.2      | 119.41         | 0.0578                     |
| 500         | 13          | 500                   | 64.8            | 565             | 54        | 7             | 3.43      | 3.43  | 10.3     | 30.9      | 1887.9      | 153.8          | 0.0578                     |
| 560         | 7           | 560                   | 38.7            | 599             | 45        | 7             | 3.98      | 2.65  | 7.96     | 31.8      | 1848.2      | 133.74         | 0.0516                     |
| 560         | 13          | 560                   | 70.9            | 631             | 54        | 19            | 3.63      | 2.18  | 10.9     | 32.7      | 2103.4      | 172.59         | 0.0516                     |
| 630         | 7           | 630                   | 43.6            | 674             | 45        | 7             | 4.22      | 2.81  | 8.44     | 33.8      | 2079.2      | 150.45         | 0.0459                     |
| 630         | 13          | 630                   | 79.8            | 710             | 54        | 19            | 3.85      | 2.31  | 11.6     | 34.7      | 2366.3      | 191.77         | 0.0459                     |

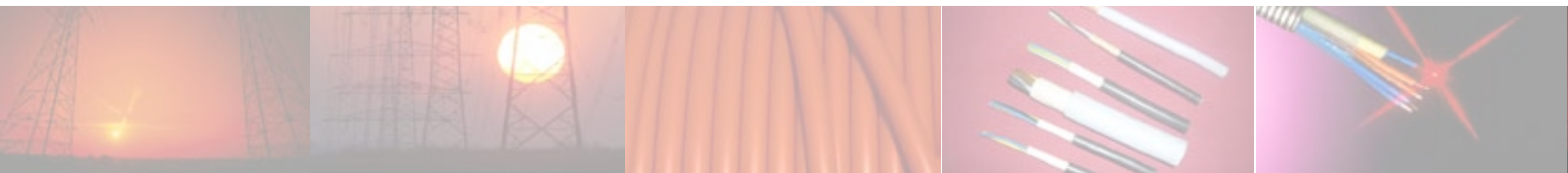


## ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR) NFC 34-120



| Nominal cross sectional area | No of wires & wire diameter |         | Actual Area     |                 | Total Cross-sectional Area<br>mm <sup>2</sup> | Overall diameter<br>mm | Ungreased Weight |       | Total<br>kg/km | Grease Weight<br>Calculated breaking load @20°C |        |       | Max. d.c. resistance<br>Ohm/km |
|------------------------------|-----------------------------|---------|-----------------|-----------------|---|------------------------|------------------|-------|----------------|---|--------|-------|--------------------------------|
|                              | Al                          | Steel   |                 | Steel           |   |                        | Al               | Steel |                | Steel   | layers |       |                                |
|                              | mm                          | mm      | mm <sup>2</sup> | mm <sup>2</sup> |   |                        | kg/km            | kg/km |                | kg/km   | kg/km  | kg/km | kN                             |
| 37.7                         | 9/2.00                      | 3/2.00  | 28.27           | 9.42            | 37.69   | 8.3                    | 78               | 77    | 155            | 0.9   | 0.9    | 15.4  | 1.02                           |
| 59.7                         | 12/2.00                     | 7/2.00  | 37.7            | 21.99           | 59.69   | 10                     | 104              | 172   | 276            | 4   | 4      | 30.5  | 0.765                          |
| 75.5                         | 12/2.25                     | 7/2.25  | 47.71           | 27.83           | 75.54   | 11.25                  | 130              | 218   | 348            | 5.1   | 5.1    | 38.4  | 0.605                          |
| 116.2                        | 30/2.00                     | 7/2.00  | 94.25           | 21.99           | 116.2   | 14                     | 260              | 172   | 432            | 4   | 12     | 41.45 | 0.306                          |
| 116.2                        | 30/2.00                     | 7/2.00  | 94.25           | 21.99           | 116.2   | 14                     | 260              | 172   | 432            | 4   | 12     | 47.4  | 0.306                          |
| 147.1                        | 30/2.25                     | 7/2.25  | 119.3           | 27.83           | 147.1   | 15.75                  | 329              | 218   | 547            | 5.1   | 15     | 52    | 0.243                          |
| 147.1                        | 30/2.25                     | 7/2.25  | 119.3           | 27.83           | 147.1   | 15.75                  | 329              | 218   | 547            | 5.1   | 15     | 59.5  | 0.243                          |
| 181.6                        | 30/2.50                     | 7/2.50  | 147.3           | 34.36           | 181.6   | 17.5                   | 406              | 269   | 675            | 6.3   | 19     | 62.6  | 0.197                          |
| 181.6                        | 30/2.50                     | 7/2.50  | 147.3           | 34.36           | 181.6   | 17.5                   | 406              | 269   | 675            | 6.3   | 19     | 72.9  | 0.197                          |
| 228                          | 30/2.80                     | 7/2.80  | 184.7           | 43.1            | 227.8   | 19.6                   | 510              | 338   | 848            | 7.9   | 24     | 77.1  | 0.157                          |
| 228                          | 30/2.80                     | 7/2.80  | 184.7           | 43.1            | 227.8   | 19.6                   | 510              | 338   | 848            | 7.9   | 24     | 90    | 0.157                          |
| 297                          | 36/2.80                     | 19/2.25 | 221.7           | 75.54           | 297.2   | 22.45                  | 620              | 598   | 1218           | 15  | 35     | 139.5 | 0.1305                         |
| 288                          | 30/3.15                     | 7/3.15  | 233.8           | 54.55           | 288.4   | 22.05                  | 647              | 427   | 1074           | 10  | 30     | 96    | 0.1225                         |
| 288                          | 30/3.15                     | 7/3.15  | 233.8           | 54.55           | 288.4   | 22.05                  | 647              | 427   | 1074           | 10  | 30     | 113.2 | 0.1225                         |
| 412                          | 32/3.6                      | 19/2.4  | 325.7           | 85/95           | 411.7   | 26.4                   | 912              | 681   | 1593           | 17  | 46     | 169.9 | 0.0898                         |
| 612                          | 20/4.24                     | 19/2.65 | 507             | 104.8           | 611.8   | 32.17                  | 1404             | 837   | 2241           | 21  | 72     | 227.5 | 0.0566                         |
| 612                          | 42/2.61                     | 19/2.66 | 507             | 104.8           | 611.8   | 32.17                  | 1404             | 837   | 2241           | 21  | 72     | 227.5 | 0.0566                         |

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**ALUMINIUM ALLOY CONDUCTOR (AAAC)**

NFC 34-125



| Nominal area    | No of wires & wire diameter | Actual area     | Overall diameter | Weight Ungreased | Grease Weight | Calculated breaking load | Max. d.c. resistance @20°C |
|-----------------|-----------------------------|-----------------|------------------|------------------|---------------|--------------------------|----------------------------|
| mm <sup>2</sup> | mm                          | mm <sup>2</sup> | mm               | kg/km            | kg/km         | kN                       | Ohm/km                     |
| 22              | 7/2.0                       | 21.99           | 6                | 60               | 0.6           | 7.08                     | 1.497                      |
| 34.4            | 7/2.5                       | 34.36           | 7.5              | 94               | 1             | 11.07                    | 0.958                      |
| 54.6            | 7/3.15                      | 54.55           | 9.45             | 149              | 1.5           | 17.57                    | 0.6034                     |
| 75.6            | 19/2.25                     | 75.54           | 11.25            | 208              | 5.1           | 24.33                    | 0.4379                     |
| 117             | 19/2.8                      | 117             | 14               | 322              | 7.9           | 37.68                    | 0.2827                     |
| 148             | 19/3.15                     | 148.1           | 15.75            | 407              | 10            | 47.7                     | 0.2234                     |
| 181.6           | 37/2.5                      | 181.6           | 17.5             | 500              | 19            | 58.48                    | 0.1825                     |
| 228             | 37/2.8                      | 227.8           | 19.6             | 627              | 24            | 73.36                    | 0.1455                     |
| 288             | 37/3.15                     | 288.3           | 22.05            | 794              | 30            | 92.85                    | 0.115                      |
| 366             | 37/3.55                     | 366.2           | 24.85            | 1009             | 38            | 117.9                    | 0.09053                    |
| 570             | 61/3.45                     | 570.2           | 31.05            | 1574             | 72            | 183.6                    | 0.05827                    |

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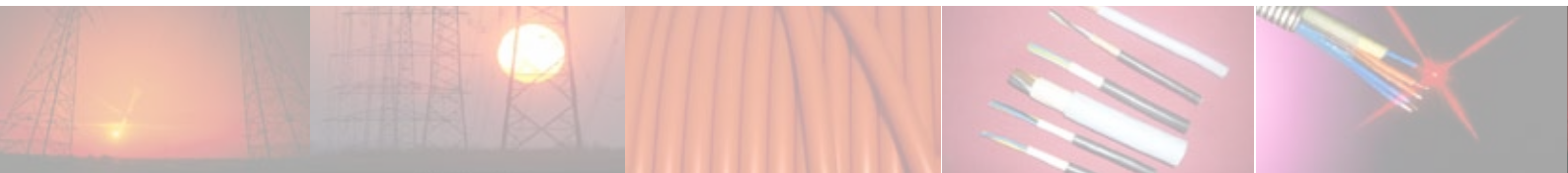
**ALUMINIUM ALLOY CONDUCTOR (AAAC)**

BS 3242



| Nominal area    | Stranding and wire diameter | Actual area     | Overall diameter | Approx. mass | Calculated breaking load | Max. d.c.resistance @20°C |
|-----------------|-----------------------------|-----------------|------------------|--------------|--------------------------|---------------------------|
| mm <sup>2</sup> | mm                          | mm <sup>2</sup> | mm               | kg/km        | kN                       | Ohm/km                    |
| 25              | 7/2.34                      | 30.1            | 7.02             | 82           | 8.44                     | 1.094                     |
| 30              | 7/2.54                      | 35.47           | 7.62             | 97           | 9.94                     | 0.9281                    |
| 40              | 7/2.95                      | 47.84           | 8.85             | 131          | 13.4                     | 0.688                     |
| 50              | 7/3.30                      | 59.87           | 9.9              | 164          | 16.8                     | 0.5498                    |
| 100             | 7/4.65                      | 118.9           | 13.95            | 325          | 33.3                     | 0.2769                    |
| 150             | 19/3.48                     | 180.7           | 17.4             | 497          | 50.65                    | 0.183                     |
| 175             | 19/3.76                     | 211             | 18.8             | 580          | 59.1                     | 0.1568                    |
| 300             | 37/3.53                     | 362.1           | 24.71            | 997          | 101.5                    | 0.09155                   |

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**BARE ALUMINIUM OVERHEADLINE CONDUCTOR (AAC)**

ECG E-9 SPECIFICATION / BS 215 PART 1



|   |                       |                       |                       |                       |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Nominal Cross Section, mm <sup>2</sup>  | 25                    | 50                    | 120                   | 150                   | 265                   | 400                   |
| No. and diameter of wire mm   | 7/2.0                 | 7/3.1                 | 19/2.8                | 19/3.25               | 19/4.22               | 37/3.71               |
| Overall Diameter, mm  | 6.0                   | 9.3                   | 14                    | 16.25                 | 21.10                 | 26.0                  |
| Conductor weight, kg / km   | 66.4                  | 144                   | 322                   | 434                   | 731                   | 1,102                 |
| Single wire weight, kg/km   | 8.5                   | 18.5                  | 16.66                 | 22.44                 | 37.80                 | 28.98                 |
| Conductor Minimum Breaking Load after Stranding, N                            | 4,270                 | 8,731                 | 20,170                | 25,700                | 40,400                | 64,000                |
| Max. Conductor DC resistance at 20°C, Ohm/km                                  | 1.3017                | 0.5413                | 0.2459                | 0.1825                | 0.1083                | 0.0721                |
| Modulus of Elasticity, kN/mm <sup>2</sup>                                     | 68.3                  | 68.3                  | 68.3                  | 68.3                  | 68.3                  | 68.3                  |
| Temperature co-efficient of linear expansion of hard-drawn aluminium (per °C) | 23 x 10 <sup>-6</sup> | 23 x 10 <sup>-6</sup> | 23 x 10 <sup>-6</sup> | 23 x 10 <sup>-6</sup> | 23 x 10 <sup>-6</sup> | 23 x 10 <sup>-6</sup> |
| Temperature co-efficient of resistance of hard-drawn aluminium (per °C)       | 0.004                 | 0.004                 | 0.004                 | 0.004                 | 0.004                 | 0.004                 |
|   |                       |                       |                       |                       |                       |                       |

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**BARE COPPER OVERHEADLINE CONDUCTOR (COHL)**

ECG E-9 SPECIFICATION / BS 7884



|  |                       |                       |                       |
|--|-----------------------|-----------------------|-----------------------|
| Nominal Cross Section, mm <sup>2</sup>                                     | 16                    | 35                    | 70                    |
| No. and diameter of wire mm  | 7/1.70                | 7/2.5                 | 7/3.55                |
| Overall Diameter, mm   | 5.1                   | 7.5                   | 10.65                 |
| Conductor weight, kg / km  |                       |                       |                       |
| min  | 142.4                 | 308.0                 | 621.0                 |
| max  | 144.0                 | 314.9                 | 634.7                 |
| Single wire weight, kg/km  |                       |                       |                       |
| min  | 49.03                 | 43.64                 | 87.99                 |
| max  | 50.04                 | 44.52                 | 89.74                 |
| Conductor Minimum Breaking Load after Stranding, N                         | 5,946                 | 12,860                | 25,930                |
| Conductor DC resistance at 20°C Ohm/km, min                                | 1.128                 | 0.5215                | 0.2586                |
| max  | 1.154                 | 0.5387                | 0.2646                |
| Modulus of Elasticity, kN/mm <sup>2</sup>                                  | 124                   | 124                   | 124                   |
| Temperature co-efficient of linear expansion of hard-drawn copper (per °C) | 16 x 10 <sup>-6</sup> | 16 x 10 <sup>-6</sup> | 16 x 10 <sup>-6</sup> |
| Temperature co-efficient of resistance of hard-drawn aluminium (per °C)    | 0.00393               | 0.00393               | 0.00393               |

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