



**PT SUPREME CABLE**

MANUFACTURING & COMMERCE Tbk.

(PT SUCACO Tbk.)



Product Catalogue

# BARE CONDUCTOR

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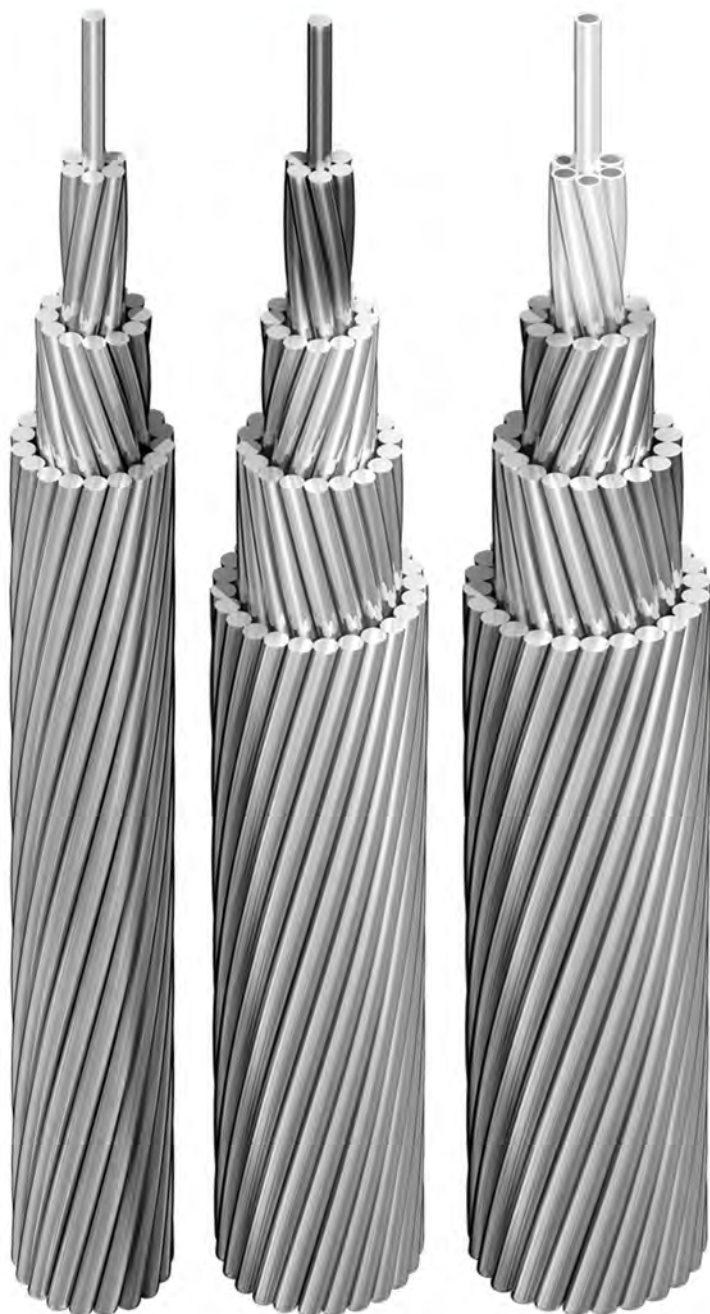




## Company Background

Specializing in the cable business since 1970, PT SUPREME CABLE MANUFACTURING & COMMERCE Tbk. (PT SUCACO Tbk.) has grown steadily to become a largest and leading cable manufacturer, with international reputation for quality and reliability. Established in 1970, PT SUCACO Tbk. is a pioneer in the modern industry. With technical assistance from Furukawa Electric Co Ltd Japan and International Executives Service Corp, USA, the company began commercial operations in 1972.

We produce and markets power cable up to 150 kV, optical and telecommunication cables, control cables, instrumentation cables, coaxial cables and enamelled wires under brand name of "SUPREME ". The Company is also involved through its affiliated companies, in various line of business. The company has a Quality Assurance Program and ISO 9001 certificate from SGS international certification body of quality management system. Today, PT SUCACO Tbk. has grown to become a reliable partner in infrastructures, buildings and various projects.



# Bare Conductor





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## Bare Copper Conductor 1/2 Hard

Application : Used for grounding system

# BCC 1/2 H

SPLN 41-4

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Nominal cross sectional area | No/Dia of wire | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Standard delivery length |
|------------------------------|----------------|------------------|------------|--------------------------------------|-------------------------------|---------|--------------------------|
|                              |                | Overall diameter | Net Weight |                                      |                               |         |                          |
| mm <sup>2</sup>              | pcs/mm         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | m                        |
| 6                            | 1/2.80         | 2.80             | 55         | 2.8961                               | 217                           | 2,128   | 10,000                   |
| 10                           | 1/3.50         | 3.50             | 86         | 1.8545                               | 333                           | 3,266   | 10,000                   |
| 10                           | 7/1.35         | 4.05             | 90         | 1.8160                               | 347                           | 3,404   | 10,000                   |
| 16                           | 7/1.70         | 5.10             | 142        | 1.1452                               | 546                           | 5,356   | 10,000                   |
| 25                           | 7/2.10         | 6.30             | 217        | 0.7504                               | 824                           | 8,083   | 5,000                    |
| 35                           | 7/2.50         | 7.50             | 308        | 0.5296                               | 1,158                         | 11,359  | 5,000                    |
| 50                           | 19/1.80        | 9.00             | 433        | 0.3781                               | 1,605                         | 15,745  | 5,000                    |
| 70                           | 19/2.10        | 10.50            | 590        | 0.2778                               | 2,166                         | 21,248  | 5,000                    |
| 95                           | 19/2.50        | 12.50            | 836        | 0.1961                               | 3,044                         | 29,861  | 3,000                    |
| 120                          | 19/2.80        | 14.00            | 1,048      | 0.1563                               | 3,714                         | 36,434  | 3,000                    |
| 150                          | 37/2.25        | 15.75            | 1,318      | 0.1243                               | 4,724                         | 46,342  | 2,000                    |
| 185                          | 37/2.50        | 17.50            | 1,628      | 0.1007                               | 5,799                         | 56,888  | 2,000                    |
| 240                          | 61/2.25        | 20.25            | 2,173      | 0.0754                               | 7,788                         | 76,400  | 1,000                    |
| 300                          | 61/2.50        | 22.50            | 2,683      | 0.0611                               | 9,560                         | 93,783  | 1,000                    |
| 400                          | 61/2.89        | 26.00            | 3,586      | 0.0457                               | 12,665                        | 124,243 | 500                      |
| 500                          | 61/3.23        | 29.10            | 4,479      | 0.0366                               | 15,729                        | 154,301 | 500                      |



## Bare Copper Conductor Hard

Application : Used for grounding system

# BCC-H

SPLN 41-5

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Nominal cross sectional area | No/Dia of wire | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Standard delivery length |
|------------------------------|----------------|------------------|------------|--------------------------------------|-------------------------------|---------|--------------------------|
|                              |                | Overall diameter | Net Weight |                                      |                               |         |                          |
| mm <sup>2</sup>              | pcs/mm         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | m                        |
| 6                            | 1/2.80         | 2.80             | 55         | 2.8994                               | 275                           | 2,697   | 10,000                   |
| 10                           | 1/3.50         | 3.50             | 86         | 1.8565                               | 420                           | 4,120   | 10,000                   |
| 10                           | 7/1.35         | 4.05             | 90         | 1.8181                               | 436                           | 4,277   | 10,000                   |
| 16                           | 7/1.70         | 5.10             | 142        | 1.1465                               | 691                           | 6,778   | 10,000                   |
| 25                           | 7/2.10         | 6.30             | 217        | 0.7512                               | 1,040                         | 10,202  | 5,000                    |
| 35                           | 7/2.50         | 7.50             | 308        | 0.5302                               | 1,457                         | 14,293  | 5,000                    |
| 50                           | 19/1.80        | 9.00             | 433        | 0.3785                               | 2,009                         | 19,708  | 5,000                    |
| 70                           | 19/2.10        | 10.50            | 590        | 0.2781                               | 2,734                         | 26,820  | 5,000                    |
| 95                           | 19/2.50        | 12.50            | 836        | 0.1963                               | 3,831                         | 37,582  | 3,000                    |
| 120                          | 19/2.80        | 14.00            | 1,048      | 0.1565                               | 4,701                         | 46,116  | 3,000                    |
| 150                          | 37/2.25        | 15.75            | 1,318      | 0.1244                               | 5,979                         | 58,653  | 2,000                    |
| 185                          | 37/2.50        | 17.50            | 1,628      | 0.1008                               | 7,298                         | 71,593  | 2,000                    |
| 240                          | 61/2.25        | 20.25            | 2,173      | 0.0755                               | 9,857                         | 96,697  | 1,000                    |
| 300                          | 61/2.50        | 22.50            | 2,683      | 0.0611                               | 12,032                        | 118,033 | 1,000                    |
| 400                          | 61/2.89        | 26.00            | 3,586      | 0.0458                               | 16,079                        | 157,734 | 500                      |
| 500                          | 61/3.23        | 29.10            | 4,479      | 0.0367                               | 19,810                        | 194,336 | 500                      |

## All Aluminium Conductor

Application : Used for overhead distribution line

# AAC

### SPLN 41-6

DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Nominal cross sectional area | No/Dia of wire | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|------------------------------|----------------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|                              |                | Overall diameter | Net Weight |                                      |                               |         |                              |                          |
| mm <sup>2</sup>              | pcs/mm         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | A                            | m                        |
| 16                           | 7/1.75         | 5.25             | 46         | 1.7000                               | 310                           | 3,041   | 105                          | 10,000                   |
| 25                           | 7/2.25         | 6.75             | 76         | 1.0290                               | 490                           | 4,806   | 145                          | 10,000                   |
| 35                           | 7/2.50         | 7.50             | 94         | 0.8332                               | 590                           | 5,787   | 165                          | 10,000                   |
| 50                           | 7/3.00         | 9.00             | 135        | 0.5786                               | 810                           | 7,946   | 205                          | 10,000                   |
| 50                           | 19/1.75        | 8.75             | 126        | 0.6295                               | 835                           | 8,191   | 195                          | 10,000                   |
| 55                           | 7/3.25         | 9.75             | 159        | 0.4930                               | 935                           | 9,142   | 230                          | 10,000                   |
| 70                           | 19/2.25        | 11.25            | 208        | 0.3808                               | 1,320                         | 12,949  | 270                          | 5,000                    |
| 95                           | 19/2.50        | 12.50            | 257        | 0.3084                               | 1,595                         | 15,646  | 305                          | 5,000                    |
| 100                          | 7/4.25         | 12.75            | 272        | 0.2883                               | 1,540                         | 15,107  | 320                          | 5,000                    |
| 120                          | 19/2.75        | 13.75            | 310        | 0.2549                               | 1,890                         | 18,540  | 345                          | 5,000                    |
| 150                          | 19/3.25        | 16.25            | 434        | 0.1825                               | 2,530                         | 24,819  | 430                          | 5,000                    |
| 150                          | 37/2.25        | 15.75            | 406        | 0.1960                               | 2,435                         | 23,887  | 410                          | 5,000                    |
| 185                          | 37/2.50        | 17.50            | 501        | 0.1587                               | 2,940                         | 28,841  | 470                          | 5,000                    |
| 200                          | 19/3.75        | 18.75            | 577        | 0.1371                               | 3,290                         | 32,274  | 510                          | 3,000                    |
| 240                          | 19/4.00        | 20.00            | 657        | 0.1205                               | 3,700                         | 36,297  | 555                          | 3,000                    |
| 240                          | 61/2.25        | 20.25            | 670        | 0.1191                               | 4,020                         | 39,436  | 560                          | 3,000                    |
| 300                          | 61/2.50        | 22.50            | 827        | 0.0965                               | 4,850                         | 47,578  | 640                          | 3,000                    |
| 400                          | 61/3.00        | 27.00            | 1,191      | 0.0670                               | 6,675                         | 65,481  | 805                          | 2,000                    |
| 500                          | 61/3.25        | 29.25            | 1,398      | 0.0571                               | 7,700                         | 75,537  | 890                          | 2,000                    |
| 630                          | 91/3.00        | 33.0             | 1,782      | 0.0450                               | 9,960                         | 97,707  | 1,030                        | 1,500                    |
| 800                          | 91/3.25        | 35.75            | 2,091      | 0.0384                               | 11,480                        | 112,618 | 1,135                        | 1,000                    |
| 1000                         | 91/3.75        | 41.25            | 2,784      | 0.0288                               | 14,925                        | 146,414 | 1,345                        | 1,000                    |

NOTE : \*) Continuous operating temperature of conductor = 80°C , Air temperature = 35°C , wind velocity = 0.6 m/sec

## All Aluminium Conductor

Application : Used for overhead distribution line

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code name  | Cross sectional area |                 | No/Dia of wire | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |        | Current carrying capacity *) | Standard delivery length |
|------------|----------------------|-----------------|----------------|------------------|------------|--------------------------------------|-------------------------------|--------|------------------------------|--------------------------|
|            |                      |                 |                | Overall diameter | Net Weight |                                      |                               |        |                              |                          |
| -          | AWG or MCM           | mm <sup>2</sup> | pcs/mm         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N      | A                            | m                        |
| Pachbell   | 6                    | 13.28           | 7/1.55         | 4.66             | 37         | 2.1710                               | 254                           | 2,491  | 90                           | 10,000                   |
| Rose       | 4                    | 21.14           | 7/1.96         | 5.88             | 59         | 1.3638                               | 404                           | 3,963  | 120                          | 10,000                   |
| Iris       | 2                    | 33.65           | 7/2.47         | 7.42             | 93         | 0.8568                               | 610                           | 5,984  | 160                          | 10,000                   |
| Pancy      | 1                    | 42.37           | 7/2.78         | 8.33             | 117        | 0.6804                               | 726                           | 7,122  | 185                          | 10,000                   |
| Poppy      | 1/0                  | 53.48           | 7/3.12         | 9.36             | 148        | 0.5391                               | 890                           | 8,730  | 215                          | 10,000                   |
| Aster      | 2/0                  | 67.35           | 7/3.50         | 10.50            | 186        | 0.4281                               | 1,121                         | 10,997 | 250                          | 5,000                    |
| Phlox      | 3/0                  | 85.00           | 7/3.93         | 11.80            | 235        | 0.3392                               | 1,373                         | 13,469 | 290                          | 5,000                    |
| Oxlip      | 4/0                  | 107.26          | 7/4.42         | 13.25            | 296        | 0.2688                               | 1,732                         | 16,990 | 335                          | 5,000                    |
| Valerian   | 250                  | 126.68          | 19/2.91        | 14.57            | 350        | 0.2277                               | 2,101                         | 20,610 | 370                          | 5,000                    |
| Sneezewort | 250                  | 126.68          | 7/4.80         | 14.40            | 350        | 0.2275                               | 2,047                         | 20,081 | 370                          | 5,000                    |
| laurel     | 266.8                | 135.19          | 19/3.01        | 15.05            | 374        | 0.2132                               | 2,180                         | 21,385 | 390                          | 5,000                    |
| Daisy      | 266.8                | 135.19          | 7/4.96         | 14.88            | 374        | 0.2131                               | 2,185                         | 21,434 | 385                          | 5,000                    |
| Peony      | 300                  | 152.01          | 19/3.19        | 15.97            | 420        | 0.1895                               | 2,452                         | 24,054 | 420                          | 5,000                    |
| Tulip      | 336.4                | 170.46          | 19/3.38        | 16.91            | 471        | 0.1690                               | 2,750                         | 26,977 | 450                          | 5,000                    |
| Daffodil   | 350                  | 177.35          | 19/3.45        | 17.24            | 490        | 0.1626                               | 2,858                         | 28,036 | 460                          | 5,000                    |
| Canna      | 397.5                | 201.42          | 19/3.68        | 18.38            | 557        | 0.1431                               | 3,249                         | 31,872 | 500                          | 3,000                    |
| Goldentuft | 450                  | 228.02          | 19/3.91        | 19.55            | 630        | 0.1264                               | 3,567                         | 34,992 | 540                          | 3,000                    |
| Syringa    | 477                  | 241.70          | 37/2.88        | 20.18            | 667        | 0.1194                               | 3,922                         | 38,474 | 560                          | 3,000                    |
| Cosmos     | 477                  | 241.70          | 19/4.02        | 20.12            | 667        | 0.1194                               | 3,778                         | 37,062 | 580                          | 3,000                    |
| Hyacinth   | 500                  | 253.35          | 37/2.95        | 20.66            | 699        | 0.1139                               | 4,019                         | 39,426 | 575                          | 3,000                    |

NOTE : \*) Continuous operating temperature of conductor = 80°C , Air temperature = 35°C , wind velocity = 0.6 m/sec





## All Aluminium Conductor

Application : Used for overhead distribution line

# AAC

## ASTM B 231

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code name   | Cross sectional area |                 | No/Dia of wire | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |        | Current carrying capacity *) | Standard delivery length |
|-------------|----------------------|-----------------|----------------|------------------|------------|--------------------------------------|-------------------------------|--------|------------------------------|--------------------------|
|             | AWG or MCM           | mm <sup>2</sup> |                | Overall diameter | Net Weight |                                      |                               |        |                              |                          |
| -           |                      |                 | pcs/mm         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N      | A                            | m                        |
| Zinnia      | 500                  | 253.35          | 19/4.12        | 20.60            | 699        | 0.1138                               | 3,963                         | 38,877 | 575                          | 3,000                    |
| Dahlia      | 566.5                | 287.05          | 19/4.35        | 21.73            | 778        | 0.1023                               | 4,409                         | 43,252 | 615                          | 3,000                    |
| Mistletoe   | 556.5                | 281.98          | 37/3.11        | 21.80            | 778        | 0.1023                               | 4,444                         | 43,595 | 615                          | 3,000                    |
| Meadowsweet | 600                  | 304.02          | 37/3.23        | 22.63            | 839        | 0.0949                               | 4,790                         | 46,989 | 645                          | 3,000                    |
| Orschid     | 636                  | 322.27          | 37/3.33        | 23.31            | 890        | 0.0895                               | 5,082                         | 49,854 | 670                          | 2,000                    |
| Hauchera    | 650                  | 329.36          | 37/3.37        | 23.58            | 910        | 0.0875                               | 5,199                         | 51,002 | 680                          | 2,000                    |
| Flag        | 700                  | 354.70          | 61/2.72        | 24.48            | 978        | 0.0813                               | 5,854                         | 57,427 | 715                          | 2,000                    |
| Vebena      | 700                  | 354.70          | 37/3.49        | 24.45            | 979        | 0.0813                               | 5,592                         | 54,857 | 710                          | 2,000                    |
| Nasturtium  | 715                  | 362.30          | 61/2.75        | 24.76            | 1,001      | 0.0795                               | 5,822                         | 57,113 | 725                          | 2,000                    |
| Violet      | 715                  | 362.30          | 37/3.53        | 24.73            | 1,001      | 0.0795                               | 5,721                         | 56,123 | 725                          | 2,000                    |
| Cattail     | 750                  | 380.03          | 61/2.82        | 25.35            | 1,049      | 0.0758                               | 6,104                         | 59,880 | 745                          | 2,000                    |
| Petunia     | 750                  | 380.03          | 37/3.62        | 25.32            | 1,049      | 0.0758                               | 5,996                         | 58,820 | 745                          | 2,000                    |
| Lilac       | 795                  | 402.83          | 61/2.90        | 26.11            | 1,113      | 0.0715                               | 6,474                         | 63,509 | 770                          | 2,000                    |
| Arbutus     | 795                  | 402.83          | 37/3.72        | 26.07            | 1,112      | 0.0715                               | 6,356                         | 62,352 | 770                          | 2,000                    |
| Snapdragon  | 900                  | 456.04          | 61/3.09        | 27.77            | 1,259      | 0.0632                               | 7,117                         | 69,817 | 835                          | 2,000                    |
| Cockscomb   | 900                  | 456.04          | 37/3.96        | 27.73            | 1,259      | 0.0632                               | 6,982                         | 68,493 | 835                          | 2,000                    |
| Goldenrod   | 954                  | 483.40          | 61/3.18        | 28.60            | 1,336      | 0.0596                               | 7,547                         | 74,036 | 85                           | 2,000                    |
| Magnolia    | 954                  | 483.40          | 37/4.08        | 28.55            | 1,335      | 0.0596                               | 7,401                         | 72,603 | 865                          | 2,000                    |

NOTE : \*) Continuous operating temperature of conductor = 80°C , Air temperature = 35°C, wind velocity = 0.6 m/sec



## All Aluminium Conductor

Application : Used for overhead distribution line

# AAC

## ASTM B 231

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code name  | Cross sectional area |                 | No/Dia of wire | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|------------|----------------------|-----------------|----------------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|            | AWG or MCM           | mm <sup>2</sup> |                | Overall diameter | Net Weight |                                      | Kgf                           | N       |                              |                          |
| -          | AWG or MCM           | mm <sup>2</sup> | pcs/mm         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | A                            | m                        |
| Camelia    | 1,000                | 506.71          | 61/3.25        | 29.26            | 1,398      | 0.0569                               | 7,898                         | 77,479  | 890                          | 2,000                    |
| Hawkweed   | 1,000                | 506.71          | 37/4.18        | 29.23            | 1,398      | 0.0569                               | 7,757                         | 76,096  | 890                          | 2,000                    |
| Larkspur   | 1,034                | 523.68          | 61/3.31        | 29.76            | 1,446      | 0.0550                               | 8,172                         | 80,167  | 910                          | 2,000                    |
| Bluebell   | 1,034                | 523.68          | 37/4.24        | 29.71            | 1,445      | 0.0551                               | 8,012                         | 78,597  | 910                          | 2,000                    |
| Marigold   | 1,113                | 563.97          | 61/3.43        | 30.89            | 1,557      | 0.0511                               | 8,802                         | 86,347  | 950                          | 1,000                    |
| Hawthorn   | 1,193                | 604.25          | 61/3.55        | 31.96            | 1,667      | 0.0477                               | 9,423                         | 92,439  | 990                          | 1,000                    |
| Narcissus  | 1,272                | 644.53          | 61/3.67        | 33.01            | 1,779      | 0.0447                               | 10,054                        | 98,629  | 1030                         | 1,000                    |
| Columbine  | 1,351                | 684.56          | 61/3.78        | 34.02            | 1,889      | 0.0421                               | 10,363                        | 101,661 | 1070                         | 1,000                    |
| Carnation  | 1,431                | 725.10          | 61/3.89        | 35.02            | 2,002      | 0.0397                               | 10,980                        | 107,713 | 1110                         | 1,000                    |
| Gladiolus  | 1,510                | 765.13          | 61/4.00        | 35.98            | 2,113      | 0.0376                               | 11,593                        | 113,719 | 1,145                        | 1,000                    |
| Coreopsis  | 1,590                | 805.67          | 61/4.10        | 36.90            | 2,223      | 0.0358                               | 12,192                        | 119,603 | 1,180                        | 1,000                    |
| Jessamine  | 1,750                | 886.74          | 61/4.30        | 38.73            | 2,448      | 0.0325                               | 13,429                        | 131,738 | 1,250                        | 1,000                    |
| Cowslip    | 2,000                | 1,013.42        | 91/3.76        | 41.40            | 2,822      | 0.0288                               | 15,329                        | 150,377 | 1,345                        | 1,000                    |
| Sagebrush  | 2,250                | 1,140.10        | 91/3.99        | 43.92            | 3,175      | 0.0255                               | 17,250                        | 169,222 | 1,440                        | 500                      |
| Lupine     | 2,500                | 1,266.77        | 91/4.21        | 46.30            | 3,528      | 0.0230                               | 19,167                        | 188,028 | 1,530                        | 500                      |
| Bitterroot | 2,750                | 1,393.45        | 91/4.42        | 48.57            | 3,882      | 0.0209                               | 21,089                        | 206,883 | 1,610                        | 500                      |

NOTE : \*) Continuous operating temperature of conductor = 80°C , Air temperature = 35°C, wind velocity = 0.6 m/sec



## All Aluminium Alloy Conductor

Application : Used for overhead distribution line

# AAAC

### SPLN 41-8

DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Nominal cross sectional area | No/Dia of wire | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|------------------------------|----------------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|                              |                | Overall diameter | Net Weight |                                      |                               |         |                              |                          |
| mm <sup>2</sup>              | pcs/mm         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | A                            | m                        |
| 16                           | 7/1.75         | 5.25             | 46         | 1.955                                | 480                           | 4,708   | 100                          | 10,000                   |
| 25                           | 7/2.25         | 6.75             | 76         | 1.183                                | 790                           | 7,749   | 135                          | 10,000                   |
| 35                           | 7/2.50         | 7.50             | 94         | 0.958                                | 980                           | 9,613   | 155                          | 10,000                   |
| 50                           | 7/3.00         | 9.00             | 135        | 0.665                                | 1,410                         | 13,832  | 195                          | 10,000                   |
| 50                           | 19/1.75        | 8.75             | 126        | 0.724                                | 1,300                         | 12,753  | 185                          | 10,000                   |
| 55                           | 7/3.25         | 9.75             | 159        | 0.567                                | 1,655                         | 16,235  | 215                          | 10,000                   |
| 70                           | 19/2.25        | 11.25            | 208        | 0.438                                | 2,150                         | 21,091  | 255                          | 5,000                    |
| 95                           | 19/2.50        | 12.50            | 256        | 0.355                                | 2,660                         | 26,094  | 290                          | 5,000                    |
| 100                          | 7/4.25         | 12.75            | 272        | 0.332                                | 2,830                         | 27,762  | 300                          | 5,000                    |
| 120                          | 19/2.75        | 13.75            | 310        | 0.293                                | 3,220                         | 31,588  | 325                          | 5,000                    |
| 150                          | 19/3.25        | 16.25            | 434        | 0.210                                | 4,490                         | 44,046  | 405                          | 5,000                    |
| 150                          | 37/2.25        | 15.75            | 406        | 0.225                                | 4,190                         | 41,103  | 385                          | 5,000                    |
| 185                          | 37/2.50        | 17.50            | 501        | 0.183                                | 5,175                         | 50,766  | 440                          | 5,000                    |
| 240                          | 19/4.00        | 20.00            | 657        | 0.137                                | 6,805                         | 66,757  | 525                          | 3,000                    |
| 240                          | 61/2.25        | 20.25            | 670        | 0.139                                | 6,910                         | 67,787  | 525                          | 3,000                    |
| 300                          | 61/2.50        | 22.50            | 827        | 0.111                                | 8,530                         | 83,679  | 605                          | 3,000                    |
| 400                          | 61/3.00        | 27.00            | 1,191      | 0.077                                | 12,290                        | 120,564 | 760                          | 2,000                    |
| 500                          | 61/3.25        | 29.25            | 1,398      | 0.066                                | 14,420                        | 141,460 | 835                          | 2,000                    |
| 630                          | 91/3.00        | 33.00            | 1,782      | 0.052                                | 18,330                        | 179,817 | 965                          | 1,500                    |
| 800                          | 91/3.25        | 35.75            | 2,091      | 0.044                                | 21,515                        | 211,062 | 1,075                        | 1,000                    |
| 1,000                        | 91/3.75        | 41.25            | 2,784      | 0.033                                | 28,640                        | 280,958 | 1,265                        | 1,000                    |

NOTE : \*) Continuous operating temperature of conductor = 80°C , Air temperature = 35°C, wind velocity = 0.6 m/sec

## All Aluminium Alloy Conductor

Application : Used for overhead distribution line

**AAAC**  
ASTM B 399

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Nominal cross sectional area |                 | No/Dia of wire | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, Min |         | Current carrying capacity *) | Standard delivery length |
|------------------------------|-----------------|----------------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|                              |                 |                | Overall diameter | Net Weight |                                      |                               |         |                              |                          |
| AWG or MCM                   | mm <sup>2</sup> | pcs/mm         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | A                            | m                        |
| 6                            | 13.28           | 7/1.55         | 4.66             | 37         | 2.5224                               | 429                           | 4,208   | 85                           | 10,000                   |
| 4                            | 21.14           | 7/1.96         | 5.88             | 59         | 1.5846                               | 683                           | 6,700   | 115                          | 10,000                   |
| 2                            | 33.65           | 7/2.47         | 7.42             | 93         | 0.9955                               | 1,087                         | 10,663  | 150                          | 10,000                   |
| 1/0                          | 53.48           | 7/3.12         | 9.36             | 147        | 0.6264                               | 1,728                         | 16,951  | 200                          | 10,000                   |
| 2/0                          | 67.35           | 7/3.50         | 10.50            | 185        | 0.4974                               | 2,077                         | 20,375  | 235                          | 5,000                    |
| 3/0                          | 85.00           | 7/3.93         | 11.80            | 234        | 0.3941                               | 2,621                         | 25,712  | 270                          | 5,000                    |
| 4/0                          | 107.26          | 7/4.42         | 13.25            | 295        | 0.3123                               | 3,307                         | 32,441  | 315                          | 5,000                    |
| 250                          | 126.63          | 19/2.91        | 14.57            | 348        | 0.2645                               | 3,962                         | 38,867  | 350                          | 5,000                    |
| 300                          | 152.01          | 19/3.19        | 15.97            | 418        | 0.2202                               | 4,760                         | 46,695  | 390                          | 5,000                    |
| 350                          | 177.35          | 19/3.45        | 17.23            | 487        | 0.1890                               | 5,295                         | 51,943  | 430                          | 5,000                    |
| 400                          | 202.68          | 19/3.69        | 18.43            | 557        | 0.1653                               | 6,054                         | 59,389  | 470                          | 3,000                    |
| 450                          | 228.02          | 19/3.91        | 19.55            | 626        | 0.1469                               | 6,810                         | 66,806  | 505                          | 3,000                    |
| 500                          | 253.35          | 19/4.12        | 20.60            | 695        | 0.1323                               | 7,564                         | 74,202  | 540                          | 3,000                    |
| 550                          | 278.69          | 37/3.10        | 21.67            | 765        | 0.1202                               | 8,529                         | 83,669  | 575                          | 3,000                    |
| 600                          | 304.02          | 37/3.23        | 22.63            | 834        | 0.1103                               | 9,299                         | 91,223  | 605                          | 3,000                    |
| 650                          | 329.36          | 37/3.37        | 23.58            | 905        | 0.1016                               | 9,633                         | 94,470  | 640                          | 2,000                    |
| 700                          | 354.70          | 37/3.49        | 24.45            | 973        | 0.09448                              | 10,361                        | 101,641 | 670                          | 2,000                    |
| 750                          | 380.03          | 37/3.62        | 25.32            | 1,044      | 0.08811                              | 11,109                        | 108,979 | 700                          | 2,000                    |
| 800                          | 405.37          | 37/3.73        | 26.14            | 1,112      | 0.08268                              | 11,839                        | 116,140 | 725                          | 2,000                    |
| 900                          | 456.04          | 37/3.96        | 27.74            | 1,252      | 0.07342                              | 13,333                        | 130,796 | 785                          | 2,000                    |
| 1,000                        | 506.71          | 37/4.18        | 29.23            | 1,391      | 0.06610                              | 14,808                        | 145,266 | 835                          | 2,000                    |
| 1,250                        | 633.39          | 61/3.64        | 32.72            | 1,737      | 0.05292                              | 18,295                        | 189,283 | 960                          | 1,500                    |
| 1,500                        | 760.06          | 61/3.98        | 35.85            | 2,086      | 0.04407                              | 21,965                        | 215,476 | 1,075                        | 1,000                    |
| 1,750                        | 886.74          | 61/4.30        | 38.73            | 2,434      | 0.03776                              | 25,636                        | 251,489 | 1,180                        | 1,000                    |

NOTE : \*) Continuous operating temperature of conductor = 80°C , Air temperature = 35°C , wind velocity = 0.6 m/sec





## Thermal Resistance Aluminium Alloy Conductor

Application : Used for overhead distribution and transmission line at high operating temperature

# TAAAC

JEC 197

DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| cross sectional area | No/Dia of wire | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|----------------------|----------------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|                      |                | Overall diameter | Net Weight |                                      |                               |         |                              |                          |
| mm <sup>2</sup>      | pcs/mm         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | A                            | m                        |
| 150                  | 19/3.20        | 16               | 419        | 0.1910                               | 2,270                         | 22,268  | 700                          | 5,000                    |
| 200                  | 19/3.70        | 18.5             | 560        | 0.1430                               | 3,030                         | 29,724  | 850                          | 5,000                    |
| 240                  | 19/4.00        | 20               | 655        | 0.1220                               | 3,490                         | 34,236  | 945                          | 3,000                    |
| 300                  | 37/3.20        | 22.4             | 821        | 0.0985                               | 4,430                         | 43,458  | 1,090                        | 3,000                    |
| 400                  | 37/3.70        | 25.9             | 1,097      | 0.0737                               | 5,890                         | 57,780  | 1,325                        | 2,000                    |
| 510                  | 37/4.20        | 29.4             | 1,414      | 0.0571                               | 7,460                         | 73,182  | 1,565                        | 2,000                    |
| 660                  | 61/3.70        | 33.3             | 1,812      | 0.0448                               | 9,720                         | 95,353  | 1,840                        | 1,500                    |
| 850                  | 61/4.20        | 37.8             | 2,335      | 0.0347                               | 12,300                        | 120,663 | 2,175                        | 1,000                    |
| 980                  | 91/3.70        | 40.7             | 2,716      | 0.0302                               | 14,500                        | 142,245 | 2,380                        | 1,000                    |
| 1,030                | 91/3.80        | 41.8             | 2,865      | 0.0286                               | 15,320                        | 150,289 | 2,465                        | 1,000                    |
| 1,260                | 91/4.20        | 46.2             | 3,501      | 0.0234                               | 18,350                        | 180,013 | 2,800                        | 500                      |

NOTE : \*) Continuous operating temperature of conductor = 150°C , Air temperature = 35°C, wind velocity = 0.6 m/sec

# Aluminium Conductor Steel Reinforced

Application : Used for overhead distribution and transmission line

# ACSR/AS

## SPLN 41-7

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Nominal cross sectional area | No/Dia of wire |         | Cross sectional area |       |       | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|------------------------------|----------------|---------|----------------------|-------|-------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|                              | Aluminium      | Steel   | Aluminium            | Steel | TOTAL | Overall diameter | Net Weight |                                      | Kgf                           | N       |                              |                          |
| -                            | pcs/mm         |         | mm <sup>2</sup>      |       |       | mm               | Kg/Km      | Ω/Km                                 |                               |         | A                            | m                        |
| 16/2.5                       | 6/1.80         | 1/1.80  | 15.3                 | 2.55  | 17.85 | 5.4              | 63         | 1.8790                               | 607                           | 5,950   | 100                          | 10,000                   |
| 25/4                         | 6/2.25         | 1/2.25  | 23.8                 | 4.0   | 27.8  | 6.8              | 98         | 1.2030                               | 938                           | 9,200   | 135                          | 10,000                   |
| 35/6                         | 6/2.70         | 1/2.70  | 34.3                 | 5.7   | 40    | 8.1              | 140        | 0.8353                               | 1,290                         | 12,650  | 165                          | 10,000                   |
| 44/32                        | 24/2.00        | 7/2.40  | 44.0                 | 31.7  | 75.7  | 11.2             | 379        | 0.6573                               | 4,384                         | 43,000  | 205                          | 5,000                    |
| 50/8                         | 6/3.20         | 1/3.20  | 48.3                 | 8.0   | 56.3  | 9.6              | 197        | 0.5946                               | 1,744                         | 17,100  | 205                          | 10,000                   |
| 50/30                        | 12/2.33        | 7/2.33  | 51.2                 | 29.8  | 81.0  | 11.7             | 383        | 0.5644                               | 4,465                         | 43,800  | 225                          | 5,000                    |
| 70/12                        | 26/1.85        | 7/1.44  | 69.9                 | 11.4  | 81.3  | 11.7             | 284        | 0.4130                               | 2,732                         | 26,800  | 260                          | 5,000                    |
| 95/15                        | 26/2.25        | 7/1.67  | 94.4                 | 15.3  | 109.7 | 13.6             | 383        | 0.3053                               | 3,645                         | 35,750  | 315                          | 5,000                    |
| 95/55                        | 12/3.20        | 7/3.20  | 96.5                 | 56.3  | 152.3 | 16               | 723        | 0.2992                               | 8,089                         | 79,350  | 335                          | 3,000                    |
| 105/75                       | 14/3.10        | 19/2.25 | 105.7                | 75.5  | 181.5 | 17.5             | 908        | 0.2736                               | 11,056                        | 108,450 | 355                          | 3,000                    |
| 120/20                       | 26/2.44        | 7/1.90  | 121.6                | 19.8  | 141.4 | 15.5             | 494        | 0.2374                               | 4,654                         | 45,650  | 370                          | 5,000                    |
| 120/70                       | 12/3.60        | 7/3.60  | 122                  | 71.3  | 193.4 | 18               | 915        | 0.2364                               | 10,194                        | 100,000 | 385                          | 3,000                    |
| 125/30                       | 30/2.33        | 7/2.33  | 127.9                | 29.8  | 157.7 | 16.1             | 593        | 0.2259                               | 5,872                         | 57,600  | 385                          | 3,000                    |
| 150/25                       | 26/2.70        | 7/2.10  | 149.9                | 24.2  | 173.1 | 17.1             | 604        | 0.1939                               | 5,633                         | 55,250  | 420                          | 3,000                    |
| 170/40                       | 30/2.70        | 7/2.70  | 171.8                | 40.1  | 211.9 | 13.9             | 796        | 0.1682                               | 7,824                         | 76,750  | 465                          | 3,000                    |
| 185/30                       | 26/3.00        | 7/2.33  | 183.8                | 29.8  | 213.6 | 19               | 745        | 0.1571                               | 6,749                         | 66,200  | 480                          | 3,000                    |
| 210/35                       | 26/3.20        | 7/2.49  | 209.1                | 34.1  | 243.2 | 20.3             | 848        | 0.1380                               | 7,636                         | 74,900  | 520                          | 3,000                    |
| 210/50                       | 30/3.00        | 7/3.00  | 212.1                | 49.5  | 261.6 | 21               | 982        | 0.1363                               | 9,572                         | 93,900  | 530                          | 3,000                    |
| 230/30                       | 24/3.50        | 7/2.33  | 230.9                | 29.8  | 260.7 | 21               | 873        | 0.1249                               | 7,452                         | 73,100  | 555                          | 3,000                    |
| 240/40                       | 26/3.45        | 7/2.68  | 243.7                | 39.5  | 282.6 | 21.9             | 985        | 0.1188                               | 8,808                         | 86,400  | 575                          | 3,000                    |
| 265/35                       | 24/3.74        | 7/2.49  | 263.7                | 34.1  | 297.8 | 22.4             | 997        | 0.1094                               | 8,466                         | 83,050  | 600                          | 2,000                    |

NOTE : \*) Continuous operating temperature of conductor = 80°C , Air temperature = 35°C, wind velocity = 0.6 m/sec



## Aluminium Conductor Steel Reinforced

Application : Used for overhead distribution and transmission line

# ACSR

### SPLN 41-7

#### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Nominal cross sectional area | No/Dia of wire |         | Cross sectional area |       |         | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|------------------------------|----------------|---------|----------------------|-------|---------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|                              | Aluminium      | Steel   | Aluminium            | Steel | TOTAL   | Overall diameter | Net Weight |                                      | Kgf                           | N       |                              |                          |
| -                            | pcs/mm         |         | mm <sup>2</sup>      |       |         | mm               | Kg/Km      | Ω/Km                                 |                               |         | A                            | m                        |
| 300/50                       | 26/3.86        | 7/3.00  | 304.3                | 49.5  | 353.8   | 24.4             | 1,234      | 0.09490                              | 10,908                        | 107,000 | 755                          | 2,000                    |
| 305/40                       | 54/2.68        | 7/2.68  | 304.6                | 39.5  | 344.1   | 24.1             | 1,153      | 0.09490                              | 10,133                        | 99,400  | 750                          | 2,000                    |
| 340/30                       | 48/3.00        | 7/2.33  | 339.3                | 29.8  | 369.1   | 25               | 1,169      | 0.08525                              | 9,470                         | 92,900  | 800                          | 2,000                    |
| 380/50                       | 54/3.00        | 7/3.00  | 381.7                | 49.5  | 431.2   | 27               | 1,445      | 0.07573                              | 12,549                        | 123,100 | 865                          | 2,000                    |
| 385/35                       | 48/3.20        | 7/2.49  | 386.0                | 34.1  | 420.1   | 26.7             | 1,331      | 0.07493                              | 10,683                        | 104,800 | 870                          | 2,000                    |
| 435/55                       | 54/3.20        | 7/3.20  | 434.3                | 56.3  | 490.6   | 28.8             | 1,644      | 0.06656                              | 13,910                        | 136,450 | 940                          | 1,500                    |
| 450/40                       | 48/3.45        | 7/2.68  | 448.7                | 39.5  | 488.2   | 28.7             | 1,546      | 0.06446                              | 12,309                        | 120,750 | 955                          | 1,500                    |
| 490/65                       | 54/3.40        | 7/3.40  | 490.3                | 63.6  | 553.9   | 30.6             | 1,856      | 0.05896                              | 15,607                        | 153,100 | 1,015                        | 1,500                    |
| 495/35                       | 45/3.74        | 7/2.49  | 494.4                | 34.1  | 528.5   | 29.9             | 1,626      | 0.05850                              | 12,416                        | 121,800 | 1,015                        | 1,500                    |
| 510/45                       | 48/3.68        | 7/2.87  | 510.5                | 45.3  | 555.8   | 30.7             | 1,761      | 0.05665                              | 13,930                        | 136,650 | 1,035                        | 1,500                    |
| 550/70                       | 54/3.60        | 7/3.60  | 549.7                | 71.3  | 621.0   | 32.4             | 2,080      | 0.05259                              | 17,391                        | 170,600 | 1,090                        | 1,000                    |
| 560/50                       | 48/3.86        | 7/3.00  | 561.7                | 49.5  | 611.2   | 32.2             | 1,935      | 0.05149                              | 15,184                        | 148,950 | 1,100                        | 1,500                    |
| 570/40                       | 45/4.02        | 7/2.68  | 571.2                | 39.5  | 610.7   | 32.2             | 1,879      | 0.05064                              | 13,884                        | 136,200 | 1,110                        | 1,500                    |
| 650/45                       | 45/4.30        | 7/2.87  | 653.5                | 45.3  | 698.8   | 34.4             | 2,151      | 0.04426                              | 15,852                        | 155,500 | 1,205                        | 1,000                    |
| 680/85                       | 54/4.00        | 19/2.40 | 678.6                | 86.0  | 764.6   | 36               | 2,554      | 0.04260                              | 21,025                        | 206,250 | 1,245                        | 1,000                    |
| 1.045/45                     | 72/4.30        | 7/2.87  | 1,045.6              | 45.3  | 1,090.9 | 43               | 3,219      | 0.02770                              | 22,182                        | 217,600 | 1,600                        | 800                      |

NOTE : \*) Continuous operating temperature of conductor = 80°C, Air temperature = 35°C, wind velocity = 0.6 m/sec

Aluminium Wire



Galvanized Steel Wire

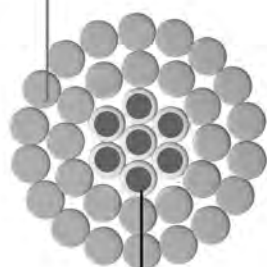
# A1/SA1A (ACSR/AS)

◇ LMK ◇ SPLN T3.001-1:2015

DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Tipe             | Rasio Baja | Luas penampang  |                 |                 | Jumlah Kawat |      | Diameter Kawat |      | Diameter |           | Berat nominal | Gaya Putus | Resistans DC pada 20°C |
|------------------|------------|-----------------|-----------------|-----------------|--------------|------|----------------|------|----------|-----------|---------------|------------|------------------------|
|                  |            | A1              | SA1A            | Total           | A1           | SA1A | A1             | SA1A | Inti     | Konduktor |               |            |                        |
|                  |            | mm <sup>2</sup> | mm <sup>2</sup> | mm <sup>2</sup> | -            | -    | mm             | mm   | mm       | mm        |               |            |                        |
| 250-A1/SA1A-26/7 | 16,3       | 240             | 39,1            | 279             | 26           | 7    | 3,43           | 2,67 | 8,00     | 21,7      | 921,5         | ≥ 86.58    | ≤ 0.1154               |
| 450-A1/SA1A-54/7 | 13,0       | 436             | 56,5            | 492             | 54           | 7    | 3,21           | 3,21 | 9,62     | 28,9      | 1578,2        | ≥ 139.72   | ≤ 0.0642               |

Aluminium Wire



Aluminium Clad Steel Wire





## Aluminium Conductor Steel Reinforced

*Application : Used for overhead distribution and transmission line*

**ACSR**  
**BS EN 50182**

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| CODE NAME       | OLD CODE | Nominal cross sectional area | No/Dia of wire |         | Cross sectional area |       |       | Approximately    |            | DC conductor resistance at 20° C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|-----------------|----------|------------------------------|----------------|---------|----------------------|-------|-------|------------------|------------|---------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|                 |          |                              | Aluminium      | Steel   | Aluminium            | Steel | TOTAL | Overall diameter | Net Weight |                                       | Kgf                           | N       |                              |                          |
|                 |          | -                            | pcs/mm         | mm²     |                      | mm    | Kg/Km | Ω/Km             |            | A                                     | m                             |         |                              |                          |
| 15-AL1/3-ST1A   | 16/2.5   | 16/2.5                       | 6/1.80         | 1/1.80  | 15,3                 | 2,55  | 17,85 | 5,4              | 63         | 1,8790                                | 607                           | 5.950   | 100                          | 10.000                   |
| 24-AL1/4-ST1A   | 25/4     | 25/4                         | 6/2.25         | 1/2.25  | 23,8                 | 4,0   | 27,8  | 6,8              | 98         | 1,2030                                | 938                           | 9.200   | 135                          | 10.000                   |
| 34-AL1/6-ST1A   | 35/6     | 35/6                         | 6/2.70         | 1/2.70  | 34,3                 | 5,7   | 40    | 8,1              | 140        | 0,8353                                | 1.290                         | 12.650  | 165                          | 10.000                   |
| 44-AL1/32-ST1A  | 44/32    | 44/32                        | 24/2.00        | 7/2.40  | 44,0                 | 31,7  | 75,7  | 11,2             | 379        | 0,6573                                | 4.384                         | 43.000  | 205                          | 5.000                    |
| 48-AL1/8-ST1A   | 50/8     | 50/8                         | 6/3.20         | 1/3.20  | 48,3                 | 8,0   | 56,3  | 9,6              | 197        | 0,5946                                | 1.744                         | 17.100  | 205                          | 10.000                   |
| 51-AL1/30-ST1A  | 50/30    | 50/30                        | 12/2.33        | 7/2.33  | 51,2                 | 29,8  | 81,0  | 11,7             | 383        | 0,5644                                | 4.465                         | 43.800  | 225                          | 5.000                    |
| 70-AL1/11-ST1A  | 70/12    | 70/12                        | 26/1.85        | 7/1.44  | 69,9                 | 11,4  | 81,3  | 11,7             | 284        | 0,4130                                | 2.732                         | 26.800  | 260                          | 5.000                    |
| 94-AL1/15-ST1A  | 95/15    | 95/15                        | 26/2.25        | 7/1.67  | 94,4                 | 15,3  | 109,7 | 13,6             | 383        | 0,3053                                | 3.645                         | 35.750  | 315                          | 5.000                    |
| 97-AL1/56-ST1A  | 95/55    | 95/55                        | 12/3.20        | 7/3.20  | 96,5                 | 56,3  | 152,3 | 16               | 723        | 0,2992                                | 8.089                         | 79.350  | 335                          | 3.000                    |
| 106-AL1/76-ST1A | 105/75   | 105/75                       | 14/3.10        | 19/2.25 | 105,7                | 75,5  | 181,5 | 17,5             | 908        | 0,2736                                | 11.056                        | 108.450 | 355                          | 3.000                    |
| 122-AL1/20-ST1A | 120/20   | 120/20                       | 26/2.44        | 7/1.90  | 121,6                | 19,8  | 141,4 | 15,5             | 494        | 0,2374                                | 4.654                         | 45.650  | 370                          | 5.000                    |
| 122-AL1/71-ST1A | 120/70   | 120/70                       | 12/3.60        | 7/3.60  | 122                  | 71,3  | 193,4 | 18               | 915        | 0,2364                                | 10.194                        | 100.000 | 385                          | 3.000                    |
| 128-AL1/30-ST1A | 125/30   | 125/30                       | 30/2.33        | 7/2.33  | 127,9                | 29,8  | 157,7 | 16,1             | 593        | 0,2259                                | 5.872                         | 57.600  | 385                          | 3.000                    |
| 149-AL1/24-ST1A | 150/25   | 150/25                       | 26/2.70        | 7/2.10  | 149,9                | 24,2  | 173,1 | 17,1             | 604        | 0,1939                                | 5.633                         | 55.250  | 420                          | 3.000                    |
| 172-AL1/40-ST1A | 170/40   | 170/40                       | 30/2.70        | 7/2.70  | 171,8                | 40,1  | 211,9 | 13,9             | 796        | 0,1682                                | 7.824                         | 76.750  | 465                          | 3.000                    |
| 184-AL1/30-ST1A | 185/30   | 185/30                       | 26/3.00        | 7/2.33  | 183,8                | 29,8  | 213,6 | 19               | 745        | 0,1571                                | 6.749                         | 66.200  | 480                          | 3.000                    |
| 209-AL1/34-ST1A | 210/35   | 210/35                       | 26/3.20        | 7/2.49  | 209,1                | 34,1  | 243,2 | 20,3             | 848        | 0,1380                                | 7.636                         | 74.900  | 520                          | 3.000                    |
| 212-AL1/49-ST1A | 210/50   | 210/50                       | 30/3.00        | 7/3.00  | 212,1                | 49,5  | 261,6 | 21               | 982        | 0,1363                                | 9.572                         | 93.900  | 530                          | 3.000                    |
| 231-AL1/30-ST1A | 230/30   | 230/30                       | 24/3.50        | 7/2.33  | 230,9                | 29,8  | 260,7 | 21               | 873        | 0,1249                                | 7.452                         | 73.100  | 555                          | 3.000                    |
| 243-AL1/39-ST1A | 240/40   | 240/40                       | 26/3.45        | 7/2.68  | 243,7                | 39,5  | 282,6 | 21,9             | 985        | 0,1188                                | 8.808                         | 86.400  | 575                          | 3.000                    |
| 264-AL1/34-ST1A | 265/35   | 265/35                       | 24/3.74        | 7/2.49  | 263,7                | 34,1  | 297,8 | 22,4             | 997        | 0,1094                                | 8.466                         | 83.050  | 600                          | 2.000                    |



## Aluminium Conductor Steel Reinforced

Application : Used for overhead distribution and transmission line

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code            | Old CODE | Nominal cross sectional area | No/Dia of wire |         | Cross sectional area |       |       | Approximately    |            | DC conductor resistance at 20° C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|-----------------|----------|------------------------------|----------------|---------|----------------------|-------|-------|------------------|------------|---------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|                 |          |                              | Aluminium      | Steel   | Aluminium            | Steel | TOTAL | Overall diameter | Net Weight |                                       |                               |         |                              |                          |
|                 |          |                              | pcs/mm         |         | mm <sup>2</sup>      |       |       | mm               | Kg/Km      |                                       | Kgf                           | N       |                              |                          |
| 304-AL1/49-ST1A | 300/50   | 300/50                       | 26/3.86        | 7/3.00  | 304,3                | 49,5  | 353,8 | 24,4             | 1.234      | 0,09490                               | 10.908                        | 107.000 | 755                          | 2.000                    |
| 305-AL1/39-ST1A | 305/40   | 305/40                       | 54/2.68        | 7/2.68  | 304,6                | 39,5  | 344,1 | 24,1             | 1.153      | 0,09490                               | 10.133                        | 99.400  | 750                          | 2.000                    |
| 339-AL1/30-ST1A | 340/30   | 340/30                       | 48/3.00        | 7/2.33  | 339,3                | 29,8  | 369,1 | 25               | 1.169      | 0,08525                               | 9.470                         | 92.900  | 800                          | 2.000                    |
| 382-AL1/49-ST1A | 380/50   | 380/50                       | 54/3.00        | 7/3.00  | 381,7                | 49,5  | 431,2 | 27               | 1.445      | 0,07573                               | 12.549                        | 123.100 | 865                          | 2.000                    |
| 386-AL1/34-ST1A | 385/35   | 385/35                       | 48/3.20        | 7/2.49  | 386,0                | 34,1  | 420,1 | 26,7             | 1.331      | 0,07493                               | 10.683                        | 104.800 | 870                          | 2.000                    |
| 434-AL1/56-ST1A | 435/55   | 435/55                       | 54/3.20        | 7/3.20  | 434,3                | 56,3  | 490,6 | 28,8             | 1.644      | 0,06656                               | 13.910                        | 136.450 | 940                          | 1.500                    |
| 449-AL1/39-ST1A | 450/40   | 450/40                       | 48/3.45        | 7/2.68  | 448,7                | 39,5  | 488,2 | 28,7             | 1.546      | 0,06446                               | 12.309                        | 120.750 | 955                          | 1.500                    |
| 490-AL1/64-ST1A | 490/65   | 490/65                       | 54/3.40        | 7/3.40  | 490,3                | 63,6  | 553,9 | 30,6             | 1.856      | 0,05896                               | 15.607                        | 153.100 | 1.015                        | 1.500                    |
| 550-AL1/71-ST1A | 550/70   | 550/70                       | 54/3.60        | 7/3.60  | 549,7                | 71,3  | 621,0 | 32,4             | 2.080      | 0,05259                               | 17.391                        | 170600  | 1.090                        | 1.000                    |
| 562-AL1/49-ST1A | 560/50   | 560/50                       | 48/3.86        | 7/3.00  | 561,7                | 49,5  | 611,2 | 32,2             | 1.935      | 0,05149                               | 15.184                        | 148.950 | 1.100                        | 1.500                    |
| 679-AL1/86-ST1A | 680/85   | 680/85                       | 54/4.00        | 19/2.40 | 678,6                | 86,0  | 764,6 | 36               | 2.554      | 0,04260                               | 21.025                        | 206.250 | 1.245                        | 1.000                    |



## Aluminium Conductor Steel Reinforced

Application : Used for overhead distribution and transmission line

# ACSR

ASTM B 232

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code name | Cross sectional area |        |       |        | No/Dia of wire |         | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|-----------|----------------------|--------|-------|--------|----------------|---------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|           | Aluminium            |        | Steel | TOTAL  | Aluminium      | Steel   | Overall diameter | Net Weight |                                      |                               |         |                              |                          |
| -         | AWG or MCM           | mm²    |       |        | pcs/mm         |         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | A                            | m                        |
| Grouse    | 80                   | 40.54  | 14.13 | 54.67  | 8/2.54         | 1/4.24  | 9.32             | 222        | 0.7112                               | 2,333                         | 22,886  | 185                          | 5,000                    |
| Petrel    | 101.8                | 51.56  | 30.08 | 81.64  | 12/2.34        | 7/2.34  | 11.70            | 378        | 0.5619                               | 4,702                         | 46,126  | 225                          | 5,000                    |
| Minorca   | 110.8                | 56.16  | 32.76 | 88.92  | 12/2.44        | 7/2.44  | 12.21            | 412        | 0.5159                               | 5,121                         | 50,237  | 235                          | 5,000                    |
| Leghorn   | 134.6                | 68.20  | 39.78 | 107.98 | 12/2.69        | 7/2.69  | 13.45            | 500        | 0.4248                               | 6,185                         | 60,674  | 265                          | 5,000                    |
| Guinea    | 159                  | 80.58  | 47.00 | 127.58 | 12/2.92        | 7/2.92  | 14.62            | 591        | 0.3595                               | 7,268                         | 71,299  | 295                          | 5,000                    |
| Dotterel  | 176.9                | 89.64  | 52.29 | 141.93 | 12/3.08        | 7/3.08  | 15.42            | 657        | 0.3232                               | 7,837                         | 76,880  | 315                          | 3,000                    |
| Diorking  | 190.8                | 96.69  | 56.40 | 153.09 | 12/3.20        | 7/3.20  | 16.02            | 709        | 0.2996                               | 8,453                         | 82,923  | 335                          | 3,000                    |
| Brahma    | 203.2                | 103.00 | 91.93 | 194.93 | 16/2.86        | 19/2.48 | 18.14            | 1,006      | 0.2813                               | 12,920                        | 126,745 | 355                          | 2,000                    |
| Cochin    | 211.3                | 107.10 | 62.47 | 169.57 | 12/3.37        | 7/3.37  | 16.86            | 785        | 0.2705                               | 9,363                         | 91,851  | 355                          | 3,000                    |
| Turkey    | 6                    | 13.28  | 2.21  | 15.49  | 6/1.68         | 1/1.68  | 5.04             | 54         | 2.1603                               | 537                           | 5,267   | 90                           | 10,000                   |
| Swan      | 4                    | 21.14  | 3.52  | 24.66  | 6/2.12         | 1/2.12  | 6.35             | 86         | 1.3571                               | 845                           | 8,289   | 125                          | 10,000                   |
| Swanate   | 4                    | 21.14  | 5.37  | 26.51  | 7/1.96         | 1/2.61  | 6.54             | 100        | 1.3571                               | 1,077                         | 10,565  | 125                          | 10,000                   |
| Sparrow   | 2                    | 33.64  | 5.61  | 39.25  | 6/2.67         | 1/2.67  | 8.02             | 137        | 0.8528                               | 1,296                         | 12,713  | 165                          | 10,000                   |
| Sparate   | 2                    | 33.65  | 8.55  | 42.20  | 7/2.47         | 1/3.30  | 8.25             | 159        | 0.8526                               | 1,647                         | 16,157  | 165                          | 10,000                   |
| Robin     | 1                    | 42.41  | 7.07  | 49.48  | 6/3.00         | 1/3.00  | 9.00             | 172        | 0.6765                               | 1,612                         | 15,813  | 190                          | 10,000                   |
| Raven     | 1/0                  | 53.56  | 8.92  | 62.47  | 6/3.37         | 1/3.37  | 10.11            | 217        | 0.5357                               | 1,974                         | 16,421  | 220                          | 5,000                    |
| Quail     | 2/0                  | 67.40  | 11.23 | 78.63  | 6/3.78         | 1/3.78  | 11.35            | 273        | 0.4257                               | 2,375                         | 23,298  | 255                          | 5,000                    |

NOTE : \*) Continuous operating temperature of conductor = 80°C , Air temperature = 35°C, wind velocity = 0.6 m/sec

## Aluminium Conductor Steel Reinforced

Application : Used for overhead distribution and transmission line

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code name | Cross sectional area |                 |       | No/Dia of wire |         | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|-----------|----------------------|-----------------|-------|----------------|---------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|           | Aluminium            | Steel           | TOTAL | Aluminium      | Steel   | Overall diameter | Net Weight |                                      |                               |         |                              |                          |
| -         | AWG or MCM           | mm <sup>2</sup> |       | pcs/mm         |         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | A                            | m                        |
| Pigeon    | 3/0                  | 85.00           | 14.17 | 99.17          | 6/4.25  | 1/4.25           | 12.74      | 0.3375                               | 2,995                         | 29,380  | 295                          | 5,000                    |
| Penguin   | 4/0                  | 107.20          | 17.87 | 125.07         | 6/4.77  | 1/4.77           | 14.31      | 0.2676                               | 3,778                         | 37,062  | 340                          | 5,000                    |
| Waxwing   | 266.8                | 135.10          | 7.50  | 142.60         | 18/3.09 | 1/3.09           | 15.46      | 0.2134                               | 3,088                         | 30,293  | 390                          | 5,000                    |
| Partridge | 266.8                | 135.20          | 22.04 | 157.24         | 26/2.57 | 7/2.00           | 16.30      | 0.2143                               | 5,133                         | 50,354  | 395                          | 5,000                    |
| Ostrich   | 300                  | 152.00          | 24.73 | 176.73         | 26/2.73 | 7/2.12           | 17.28      | 0.1906                               | 5,765                         | 56,554  | 425                          | 3,000                    |
| Merlin    | 336.4                | 170.40          | 9.47  | 179.87         | 18/3.47 | 1/3.47           | 17.36      | 0.1692                               | 3,896                         | 38,219  | 450                          | 5,000                    |
| Linnet    | 336.4                | 170.30          | 27.71 | 198.01         | 26/2.89 | 7/2.25           | 18.29      | 0.1701                               | 6,378                         | 62,568  | 455                          | 3,000                    |
| Oriole    | 336.4                | 170.50          | 39.78 | 210.28         | 30/2.69 | 7/2.69           | 18.83      | 0.1703                               | 7,893                         | 77,430  | 460                          | 3,000                    |
| Chickadee | 397.5                | 201.40          | 11.19 | 212.59         | 18/3.77 | 1/3.77           | 18.87      | 0.1431                               | 4,432                         | 43,477  | 500                          | 5,000                    |
| Brant     | 397.5                | 201.40          | 26.10 | 227.50         | 24/3.27 | 7/2.18           | 19.61      | 0.1439                               | 6,592                         | 64,667  | 505                          | 3,000                    |
| Ibis      | 397.5                | 201.20          | 32.76 | 233.96         | 26/3.14 | 7/2.44           | 19.88      | 0.1440                               | 7,347                         | 72,074  | 510                          | 3,000                    |
| Lark      | 397.5                | 201.40          | 47.00 | 248.40         | 30/2.92 | 7/2.92           | 20.47      | 0.1442                               | 9,229                         | 90,536  | 510                          | 3,000                    |
| Pelican   | 477                  | 241.70          | 13.43 | 255.13         | 18/4.14 | 1/4.14           | 20.68      | 0.1193                               | 5,319                         | 52,179  | 565                          | 3,000                    |
| Flicker   | 477                  | 241.70          | 31.35 | 273.05         | 24/3.58 | 7/2.39           | 21.49      | 0.1199                               | 7,823                         | 76,743  | 570                          | 3,000                    |
| Hawk      | 477                  | 241.50          | 39.34 | 280.84         | 26/3.44 | 7/2.68           | 21.78      | 0.1200                               | 8,820                         | 86,524  | 570                          | 2,000                    |
| Hen       | 477                  | 241.70          | 56.40 | 298.10         | 30/3.20 | 7/3.20           | 22.42      | 0.1201                               | 10,740                        | 105,359 | 575                          | 2,000                    |
| Osprey    | 556.5                | 281.80          | 15.66 | 297.46         | 18/4.47 | 1/4.47           | 22.33      | 0.1023                               | 6,202                         | 60,841  | 620                          | 3,000                    |

NOTE : \*) Continuous operating temperature of conductor = 80°C, Air temperature = 35°C, wind velocity = 0.6 m/sec







## Aluminium Conductor Steel Reinforced

Application : Used for overhead distribution and transmission line

**ACSR**  
ASTM B 232

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code name | Cross sectional area |        |       |        | No/Dia of wire |         | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|-----------|----------------------|--------|-------|--------|----------------|---------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|           | Aluminium            |        | Steel | TOTAL  | Aluminium      | Steel   | Overall diameter | Net Weight |                                      |                               |         |                              |                          |
| -         | AWG or MCM           | mm²    |       |        | pcs/mm         |         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | A                            | m                        |
| Parakeet  | 556.5                | 282.00 | 36.54 | 318.54 | 24/3.87        | 7/2.58  | 23.21            | 1,068      | 0.1027                               | 8,989                         | 88,182  | 625                          | 2,000                    |
| Dove      | 556.5                | 282.00 | 45.95 | 327.95 | 26/3.72        | 7/2.89  | 23.54            | 1,141      | 0.1027                               | 10,301                        | 101,052 | 630                          | 2,000                    |
| Eagle     | 556.5                | 281.90 | 65.78 | 347.68 | 30/3.46        | 7/3.46  | 24.21            | 1,298      | 0.1030                               | 12,526                        | 122,880 | 630                          | 2,000                    |
| Peacock   | 605                  | 306.70 | 39.78 | 346.48 | 24/4.03        | 7/2.69  | 24.21            | 1,162      | 0.09446                              | 9,781                         | 95,951  | 660                          | 2,000                    |
| Squab     | 605                  | 306.50 | 49.88 | 356.38 | 26/3.87        | 7/3.01  | 24.53            | 1,240      | 0.09452                              | 11,043                        | 108,331 | 660                          | 2,000                    |
| Wood Duck | 605                  | 306.60 | 71.53 | 378.13 | 30/3.61        | 7/3.61  | 25.25            | 1,411      | 0.09472                              | 13,132                        | 128,824 | 665                          | 2,000                    |
| Teal      | 605                  | 306.60 | 69.88 | 376.48 | 30/3.61        | 19/2.16 | 25.25            | 1,400      | 0.09472                              | 13,620                        | 133,612 | 665                          | 2,000                    |
| Kingbird  | 636                  | 322.30 | 17.91 | 340.21 | 18/4.78        | 1/4.78  | 23.88            | 1,029      | 0.08945                              | 7,093                         | 69,582  | 675                          | 2,000                    |
| Rook      | 636                  | 322.30 | 41.76 | 364.06 | 24/4.14        | 7/2.76  | 24.81            | 1,220      | 0.08989                              | 10,273                        | 100,778 | 680                          | 2,000                    |
| Grossbeak | 636                  | 322.30 | 52.46 | 374.76 | 26/3.97        | 7/3.09  | 25.16            | 1,304      | 0.08989                              | 11,408                        | 111,912 | 685                          | 2,000                    |
| Scoter    | 636                  | 322.20 | 75.18 | 397.38 | 30/3.70        | 7/3.70  | 25.89            | 1,483      | 0.09014                              | 13,801                        | 135,387 | 690                          | 2,000                    |
| Egret     | 636                  | 322.20 | 73.54 | 395.74 | 30/3.70        | 19/2.22 | 25.89            | 1,472      | 0.09014                              | 14,326                        | 140,538 | 690                          | 2,000                    |
| Swift     | 636                  | 322.30 | 8.95  | 331.25 | 36/3.38        | 1/3.38  | 23.63            | 959        | 0.08945                              | 6,169                         | 60,517  | 675                          | 2,000                    |
| Flamingo  | 666.6                | 337.90 | 43.78 | 381.68 | 24/4.23        | 7/2.82  | 25.40            | 1,279      | 0.08574                              | 10,770                        | 105,653 | 700                          | 2,000                    |
| Gannet    | 666.6                | 337.80 | 54.97 | 392.77 | 26/4.07        | 7/3.16  | 25.75            | 1,366      | 0.08577                              | 11,955                        | 117,278 | 705                          | 2,000                    |
| Stilt     | 715.5                | 362.80 | 47.00 | 409.80 | 24/4.39        | 7/2.92  | 26.32            | 1,374      | 0.07986                              | 11,563                        | 113,433 | 735                          | 2,000                    |
| Starling  | 715.5                | 362.60 | 59.04 | 421.84 | 26/4.21        | 7/3.28  | 26.69            | 1,467      | 0.07990                              | 12,837                        | 125,930 | 735                          | 2,000                    |

NOTE : \*) Continuous operating temperature of conductor = 80°C, Air temperature = 35°C, wind velocity = 0.6 m/sec

## Aluminium Conductor Steel Reinforced

Application : Used for overhead distribution and transmission line

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code name | Cross sectional area |       |       |        | No/Dia of wire |         | Approximately    |            | DC conductor resistance at 20 °C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|-----------|----------------------|-------|-------|--------|----------------|---------|------------------|------------|---------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|           | Aluminium            |       | Steel | TOTAL  | Aluminium      | Steel   | Overall diameter | Net Weight |                                       | Kgf                           | N       |                              |                          |
| -         | AWG or MCM           | mm²   |       |        | pcs/mm         |         | mm               | Kg/Km      | Ω/Km                                  |                               |         | A                            | m                        |
| Redwing   | 715.5                | 362.4 | 82.55 | 444.95 | 30/3.92        | 19/2.35 | 27.45            | 1,654      | 0.08014                               | 15,686                        | 153,879 | 740                          | 1,500                    |
| cuckao    | 795                  | 402.9 | 52.19 | 455.09 | 24/4.62        | 7/3.08  | 27.74            | 1,525      | 0.07191                               | 12,636                        | 123,959 | 785                          | 1,500                    |
| Drake     | 795                  | 402.9 | 65.59 | 468.49 | 26/4.44        | 7/3.45  | 28.13            | 1,630      | 0.07191                               | 14,262                        | 139,910 | 785                          | 1,500                    |
| Coot      | 795                  | 402.7 | 11.19 | 413.89 | 36/3.77        | 1/3.77  | 26.42            | 1,199      | 0.07159                               | 7,445                         | 73,035  | 775                          | 2,000                    |
| Tern      | 795                  | 402.8 | 27.83 | 430.63 | 45/3.38        | 7/2.25  | 27.01            | 1,335      | 0.07193                               | 9,920                         | 97,315  | 775                          | 2,000                    |
| Condor    | 795                  | 402.6 | 52.19 | 454.79 | 54/3.08        | 7/3.08  | 27.73            | 1,524      | 0.07196                               | 12,682                        | 124,410 | 780                          | 1,500                    |
| Mallard   | 795                  | 402.9 | 91.93 | 494.83 | 30/4.14        | 19/2.48 | 28.95            | 1,840      | 0.07208                               | 17,458                        | 171,262 | 790                          | 1,500                    |
| Ruddy     | 900                  | 456   | 31.54 | 487.54 | 45/3.59        | 7/2.40  | 28.74            | 1,511      | 0.06353                               | 11,142                        | 109,303 | 840                          | 1,500                    |
| Canary    | 900                  | 456   | 59.11 | 515.11 | 54/3.28        | 7/3.28  | 29.51            | 1,727      | 0.06353                               | 14,364                        | 140,910 | 845                          | 1,500                    |
| Catbird   | 954                  | 483.4 | 13.43 | 496.83 | 36/4.14        | 1/4.14  | 28.95            | 1,439      | 0.05964                               | 8,937                         | 87,671  | 865                          | 2,000                    |
| Rail      | 954                  | 483.3 | 33.43 | 496.73 | 45/3.70        | 7/2.47  | 29.59            | 1,602      | 0.05995                               | 11,809                        | 115,846 | 870                          | 1,500                    |
| Cardinal  | 954                  | 483.4 | 62.66 | 546.06 | 54/3.38        | 7/3.38  | 30.38            | 1,830      | 0.05993                               | 15,227                        | 149,376 | 875                          | 1,500                    |
| Tanager   | 1,033.5              | 523.5 | 14.54 | 538.04 | 36/4.30        | 1/4.30  | 30.12            | 1,558      | 0.05507                               | 9,678                         | 94,941  | 910                          | 1,500                    |
| Ortolan   | 1,033.5              | 523.3 | 36.17 | 559.47 | 45/3.85        | 7/2.57  | 30.78            | 1,734      | 0.05536                               | 12,541                        | 123,027 | 915                          | 1,500                    |
| Curlew    | 1,033.5              | 523.4 | 67.85 | 591.25 | 54/3.51        | 7/3.51  | 31.62            | 1,982      | 0.05535                               | 16,488                        | 161,747 | 920                          | 1,500                    |
| Bluejay   | 1,113                | 564.1 | 39.02 | 603.12 | 45/4.00        | 7/2.66  | 31.96            | 1,869      | 0.05136                               | 13,522                        | 132,650 | 960                          | 1,500                    |
| Finch     | 1,113                | 564.1 | 71.50 | 635.60 | 54/3.65        | 19/2.19 | 32.83            | 2,132      | 0.05161                               | 17,776                        | 174,382 | 960                          | 1,500                    |

NOTE : \*) Continuous operating temperature of conductor = 80 °C , Air temperature = 35 °C , wind velocity = 0.6 m/sec





## Aluminium Conductor Steel Reinforced

Application : Used for overhead distribution and transmission line

**ACSR**  
ASTM B 232

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code name | Cross sectional area |          |        |          | No/Dia of wire |         | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|-----------|----------------------|----------|--------|----------|----------------|---------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|           | Aluminium            |          | Steel  | TOTAL    | Aluminium      | Steel   | Overall diameter | Net Weight |                                      |                               |         |                              |                          |
| -         | AWG or MCM           | mm²      |        |          | pcs/mm         |         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | A                            | m                        |
| Bunting   | 1,192.5              | 604.30   | 41.73  | 646.03   | 45/4.14        | 7/2.76  | 33.08            | 2,005      | 0.0479                               | 14,175                        | 139,056 | 1,000                        | 1,000                    |
| Grackle   | 1,192.5              | 604.10   | 76.56  | 680.66   | 54/3.77        | 19/2.27 | 33.97            | 2,281      | 0.0480                               | 18,000                        | 176,580 | 1,005                        | 1,000                    |
| Skylark   | 1,272                | 644.70   | 17.91  | 662.61   | 36/4.78        | 1/4.78  | 33.43            | 1,920      | 0.0447                               | 11,621                        | 114,002 | 1,035                        | 1,500                    |
| Bittern   | 1,272                | 644.10   | 44.56  | 688.66   | 45/4.27        | 7/2.85  | 34.16            | 2,138      | 0.0450                               | 15,118                        | 148,307 | 1,040                        | 1,000                    |
| Pheasant  | 1,272                | 644.40   | 81.64  | 726.04   | 54/3.90        | 19/2.34 | 35.08            | 2,433      | 0.0450                               | 19,198                        | 188,332 | 1,045                        | 1,000                    |
| Dipper    | 1,351.5              | 684.50   | 47.29  | 731.79   | 45/4.40        | 7/2.93  | 35.21            | 2,272      | 0.0423                               | 16,059                        | 157,538 | 1,080                        | 1,000                    |
| Martin    | 1,351.5              | 684.70   | 86.67  | 771.37   | 54/4.02        | 19/2.41 | 36.16            | 2,585      | 0.0423                               | 20,389                        | 200,016 | 1,085                        | 1,000                    |
| Bobolink  | 1,431                | 724.60   | 50.14  | 774.74   | 45/4.53        | 7/3.02  | 36.23            | 2,405      | 0.0400                               | 17,009                        | 166,858 | 1,115                        | 1,000                    |
| Plover    | 1,431                | 725.20   | 91.85  | 817.05   | 54/4.14        | 19/2.48 | 37.22            | 2,738      | 0.0399                               | 21,602                        | 211,915 | 1,125                        | 1,000                    |
| Nuthatch  | 1,510.5              | 765.20   | 52.87  | 818.07   | 45/4.65        | 7/3.10  | 37.22            | 2,540      | 0.0379                               | 17,952                        | 176,109 | 1,155                        | 1,000                    |
| Parrot    | 1,510.5              | 764.60   | 96.81  | 861.41   | 54/4.25        | 19/2.55 | 38.21            | 2,886      | 0.0379                               | 22,772                        | 223,393 | 1,160                        | 1,000                    |
| Lapwing   | 1,590                | 805.80   | 55.67  | 861.47   | 45/4.78        | 7/3.18  | 38.20            | 2,674      | 0.0360                               | 18,904                        | 185,448 | 1,190                        | 1,000                    |
| Falcon    | 1,590                | 805.50   | 102.12 | 907.62   | 54/4.36        | 19/2.62 | 39.23            | 3,042      | 0.0360                               | 24,005                        | 235,489 | 1,200                        | 500                      |
| Chukar    | 1,780                | 902.20   | 73.48  | 975.68   | 84/3.70        | 19/2.22 | 40.68            | 3,095      | 0.0323                               | 22,473                        | 220,460 | 1,270                        | 500                      |
| Bluebird  | 2,156                | 1,092.30 | 88.84  | 1,181.14 | 84/4.07        | 19/2.44 | 44.75            | 3,747      | 0.0267                               | 26,692                        | 261,848 | 1,420                        | 500                      |
| Kiwi      | 2,167                | 1,097.80 | 47.46  | 1,145.26 | 72/4.41        | 7/2.94  | 44.06            | 3,419      | 0.0264                               | 22,220                        | 217,978 | 1,420                        | 500                      |
| Thrasher  | 2,312                | 1,170.90 | 63.76  | 1,234.66 | 76/4.43        | 19/2.07 | 45.77            | 3,767      | 0.0249                               | 25,015                        | 245,397 | 1,475                        | 500                      |

Aluminium Wire



Galvanized Steel Wire

NOTE : \*) Continuous operating temperature of conductor = 80°C, Air temperature = 35°C, wind velocity = 0.6 m/sec



## Aluminium Conductor Steel Reinforced

Application : Used for overhead distribution and transmission line

**ACSR**  
**BS EN 50182 : 2001**

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code            | Old code | Areas           |                 |                 | No. of wires |       | Wire diameter |       | Diameter |      | Mass per unit length | Rated strength | DC resistance |
|-----------------|----------|-----------------|-----------------|-----------------|--------------|-------|---------------|-------|----------|------|----------------------|----------------|---------------|
|                 |          | Al              | Steel           | Total           |              |       | Al            | Steel | Core     | Cond |                      |                |               |
|                 |          | mm <sup>2</sup> | mm <sup>2</sup> | mm <sup>2</sup> | Al           | Steel | mm            | mm    | mm       | mm   | kg/km                | kN             | Ω/km          |
| 26-AL1/4-ST1A   | Gopher   | 26,2            | 4,37            | 30,6            | 6            | 1     | 2,36          | 2,36  | 2,36     | 7,08 | 106,0                | 9,58           | 1,0919        |
| 32-AL1/5-ST1A   | Weasel   | 31,6            | 5,27            | 36,9            | 6            | 1     | 2,59          | 2,59  | 2,59     | 7,77 | 127,6                | 11,38          | 0,9065        |
| 42-AL1/7-ST1A   | Ferret   | 42,4            | 7,07            | 49,5            | 6            | 1     | 3,00          | 3,00  | 3,00     | 9,00 | 171,2                | 15,27          | 0,6757        |
| 53-AL1/9-ST1A   | Rabbit   | 52,9            | 8,81            | 61,7            | 6            | 1     | 3,35          | 3,35  | 3,35     | 10,1 | 213,5                | 18,42          | 0,5419        |
| 73-AL1/43-ST1A  | Horse    | 73,4            | 42,8            | 116,2           | 12           | 7     | 2,79          | 2,79  | 8,37     | 14,0 | 537,3                | 61,26          | 0,3936        |
| 105-AL1/14-ST1A | Dog      | 105,0           | 13,6            | 118,5           | 6            | 7     | 4,72          | 1,57  | 4,71     | 14,2 | 394,0                | 32,65          | 0,2733        |
| 158-AL1/37-ST1A | Wolf     | 158,1           | 36,9            | 194,9           | 30           | 7     | 2,59          | 2,59  | 7,77     | 18,1 | 725,3                | 68,91          | 0,1829        |
| 159-AL1/9-ST1A  | Dingo    | 158,7           | 8,81            | 167,5           | 18           | 1     | 3,35          | 3,35  | 3,35     | 16,8 | 505,2                | 35,87          | 0,1814        |
| 183-AL1/43-ST1A | Lynx     | 183,4           | 42,8            | 226,2           | 30           | 7     | 2,79          | 2,79  | 8,37     | 19,5 | 841,6                | 79,97          | 0,1576        |
| 184-AL1/10-ST1A | Caracal  | 184,2           | 10,2            | 194,5           | 18           | 1     | 3,61          | 3,61  | 3,61     | 18,1 | 586,7                | 40,74          | 0,1562        |
| 212-AL1/49-ST1A | Panther  | 212,1           | 49,5            | 261,5           | 30           | 7     | 3,00          | 3,00  | 9,00     | 21,0 | 973,1                | 92,46          | 0,1363        |
| 211-AL1/12-ST1A | Jaguar   | 210,6           | 11,7            | 222,3           | 18           | 1     | 3,86          | 3,86  | 3,86     | 19,3 | 670,8                | 46,57          | 0,1366        |
| 429-AL1/56-ST1A | Zebra    | 428,9           | 55,6            | 484,5           | 54           | 7     | 3,18          | 3,18  | 9,54     | 28,6 | 1620,8               | 131,92         | 0,0674        |
| 37-AL1/6-ST1A   | Fox      | 36,7            | 6,11            | 42,8            | 6            | 1     | 2,79          | 2,79  | 2,79     | 8,37 | 148,1                | 13,21          | 0,7812        |
| 63-AL1/11-ST1A  | Mink     | 63,1            | 10,5            | 73,6            | 6            | 1     | 3,66          | 3,66  | 3,66     | 11,0 | 254,9                | 21,67          | 0,4540        |
| 63-AL1/37-ST1A  | Skunk    | 63,2            | 36,9            | 100,1           | 12           | 7     | 2,59          | 2,59  | 7,77     | 13,0 | 463,0                | 52,79          | 0,4568        |
| 75-AL1/13-ST1A  | Beaver   | 75,0            | 12,5            | 87,5            | 6            | 1     | 3,99          | 3,99  | 3,99     | 12,0 | 302,9                | 25,76          | 0,3820        |

NOTE : \*) Continuous operating temperature of conductor = 80°C , Air temperature = 35°C, wind velocity = 0.6 m/sec







## Aluminium Conductor Steel Reinforced

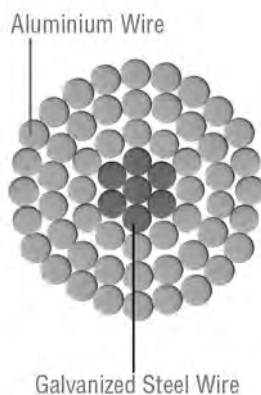
Application : Used for overhead distribution and transmission line

**ACSR**  
**BS EN 50182 : 2001**

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code             | Old code | Areas           |                 |                 | No. of wires |       | Wire diameter |       | Diameter |      | Mass per unit length | Rated strength | DC resistance |
|------------------|----------|-----------------|-----------------|-----------------|--------------|-------|---------------|-------|----------|------|----------------------|----------------|---------------|
|                  |          | Al              | Steel           | Total           |              |       | Al            | Steel | Core     | Cond |                      |                |               |
|                  |          | mm <sup>2</sup> | mm <sup>2</sup> | mm <sup>2</sup> | Al           | Steel | mm            | mm    | mm       | mm   | kg/km                | kN             | Ω/km          |
| 79-AL1/13-ST1A   | Raccoon  | 78,8            | 13,1            | 92,0            | 6            | 1     | 4,09          | 4,09  | 4,09     | 12,3 | 318,3                | 27,06          | 0,3635        |
| 84-AL1/14-ST1A   | Otter    | 83,9            | 14,0            | 97,9            | 6            | 1     | 4,22          | 4,22  | 4,22     | 12,7 | 338,8                | 28,81          | 0,3415        |
| 95-AL1/16-ST1A   | Cat      | 95,4            | 15,9            | 111,3           | 6            | 1     | 4,50          | 4,50  | 4,50     | 13,5 | 385,3                | 32,76          | 0,3003        |
| 105-AL1/17-ST1A  | Hare     | 105,0           | 17,5            | 122,5           | 6            | 1     | 4,72          | 4,72  | 4,72     | 14,2 | 423,8                | 36,04          | 0,2730        |
| 131-AL1/31-ST1A  | Tiger    | 131,2           | 30,6            | 161,9           | 30           | 7     | 2,36          | 2,36  | 7,08     | 16,5 | 602,2                | 57,87          | 0,2202        |
| 132-AL1/20-ST1A  | Coyote   | 131,7           | 20,1            | 151,8           | 26           | 7     | 2,54          | 1,91  | 5,73     | 15,9 | 520,7                | 45,86          | 0,2192        |
| 238-AL1/56-ST1A  | Lion     | 238,3           | 55,6            | 293,9           | 30           | 7     | 3,18          | 3,18  | 9,54     | 22,3 | 1.093,4              | 100,47         | 0,1213        |
| 264-AL1/62-ST1A  | Bear     | 264,4           | 61,7            | 326,1           | 30           | 7     | 3,35          | 3,35  | 10,1     | 23,5 | 1.213,4              | 111,50         | 0,1093        |
| 324-AL1/76-ST1A  | Goat     | 324,3           | 75,7            | 400,0           | 30           | 7     | 3,71          | 3,71  | 11,1     | 26,0 | 1.488,2              | 135,13         | 0,0891        |
| 374-AL1/48-ST1A  | Antelope | 374,1           | 48,5            | 422,6           | 54           | 7     | 2,97          | 2,97  | 8,91     | 26,7 | 1.413,8              | 118,88         | 0,0773        |
| 375-AL1/88-ST1A  | Sheep    | 375,1           | 87,5            | 462,6           | 30           | 7     | 3,99          | 3,99  | 12,00    | 27,9 | 1.721,3              | 156,30         | 0,0771        |
| 382-AL1/49-ST1A  | Bison    | 381,7           | 49,5            | 431,2           | 54           | 7     | 3,00          | 3,00  | 9,00     | 27,0 | 1.442,5              | 121,30         | 0,0758        |
| 430-AL1/100-ST1A | Deer     | 429,6           | 100,2           | 529,8           | 30           | 7     | 4,27          | 4,27  | 12,8     | 29,9 | 1.971,4              | 179,00         | 0,0673        |
| 476-AL1/62-ST1A  | Camel    | 476,0           | 61,7            | 537,7           | 54           | 7     | 3,35          | 3,35  | 10,1     | 30,2 | 1.798,8              | 146,40         | 0,0608        |
| 477-AL1/111-ST1A | Elk      | 477,1           | 111,3           | 588,5           | 30           | 7     | 4,50          | 4,50  | 13,5     | 31,5 | 2.189,5              | 198,80         | 0,0606        |
| 528-AL1/69-ST1A  | Moose    | 528,5           | 68,5            | 597,0           | 54           | 7     | 3,53          | 3,53  | 10,6     | 31,8 | 1.997,3              | 159,92         | 0,0547        |

NOTE : \*) Continuous operating temperature of conductor = 80°C , Air temperature = 35°C, wind velocity = 0.6 m/sec



## Aluminium Conductor-Aluminium Clad Steel Reinforced

Application : Used for overhead distribution and transmission line

# ACSR/AS

ASTM B 549

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code name | Cross sectional area |        |         |        | No/Dia of wire |         | Approximately    |            | DC conductor resistance at 20° C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|-----------|----------------------|--------|---------|--------|----------------|---------|------------------|------------|---------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|           | Aluminium            |        | AS wire | TOTAL  | Aluminium      | AS wire | Overall diameter | Net Weight |                                       |                               |         |                              |                          |
| -         | AWG or MCM           | mm²    |         |        | pcs/mm         |         | mm               | Kg/Km      | Ω /Km                                 | Kgf                           | N       | A                            | m                        |
| Grouse    | 80                   | 40.54  | 14.13   | 54.67  | 8/2.54         | 1/4.24  | 9.32             | 205        | 0.6358                                | 2,191                         | 21,493  | 200                          | 5,000                    |
| Petrel    | 101.8                | 51.56  | 30.08   | 81.64  | 12/2.34        | 7/2.34  | 11.70            | 343        | 0.4685                                | 4,456                         | 43,713  | 245                          | 5,000                    |
| Minorca   | 110.8                | 56.16  | 32.76   | 88.92  | 12/2.44        | 7/2.44  | 12.21            | 373        | 0.4301                                | 4,852                         | 47,598  | 260                          | 5,000                    |
| Leghorn   | 134.6                | 68.20  | 39.78   | 107.98 | 12/2.69        | 7/2.69  | 13.45            | 453        | 0.3544                                | 5,859                         | 57,476  | 290                          | 5,000                    |
| Guinea    | 159                  | 80.58  | 47.00   | 127.58 | 12/2.92        | 7/2.92  | 14.62            | 535        | 0.2999                                | 6,885                         | 67,541  | 325                          | 5,000                    |
| Dotterel  | 176.9                | 89.64  | 52.29   | 141.93 | 12/3.08        | 7/3.08  | 15.42            | 595        | 0.2698                                | 7,616                         | 74,712  | 345                          | 5,000                    |
| Diorking  | 190.8                | 96.69  | 56.40   | 153.09 | 12/3.20        | 7/3.20  | 16.02            | 642        | 0.2500                                | 8,215                         | 80,589  | 365                          | 3,000                    |
| Brahma    | 203.2                | 103.00 | 91.93   | 194.93 | 16/2.86        | 19/2.48 | 18.14            | 896        | 0.2159                                | 12,275                        | 120,417 | 405                          | 3,000                    |
| Cochin    | 211.3                | 107.10 | 62.47   | 169.57 | 12/3.37        | 7/3.37  | 16.86            | 711        | 0.2257                                | 8,891                         | 87,220  | 390                          | 3,000                    |
| Turkey    | 6                    | 13.28  | 2.21    | 15.49  | 6/1.68         | 1/1.68  | 5.03             | 52         | 2.0428                                | 515                           | 5,052   | 95                           | 10,000                   |
| Swan      | 4                    | 21.14  | 3.52    | 24.66  | 6/2.12         | 1/2.12  | 6.35             | 82         | 1.2874                                | 808                           | 7,926   | 125                          | 10,000                   |
| Swanate   | 4                    | 21.14  | 5.37    | 26.51  | 7/1.96         | 1/2.61  | 6.54             | 94         | 1.2513                                | 1,037                         | 10,172  | 130                          | 10,000                   |
| Sparrow   | 2                    | 33.64  | 5.61    | 39.25  | 6/2.67         | 1/2.67  | 8.02             | 130        | 0.8083                                | 1,255                         | 12,311  | 170                          | 10,000                   |
| Sparate   | 2                    | 33.65  | 8.55    | 42.20  | 7/2.47         | 1/3.30  | 8.25             | 149        | 0.7844                                | 1,591                         | 15,607  | 175                          | 10,000                   |
| Robin     | 1                    | 42.41  | 7.07    | 49.48  | 6/3.00         | 1/3.00  | 9.00             | 164        | 0.6403                                | 1,561                         | 15,313  | 195                          | 10,000                   |
| Raven     | 1/0                  | 53.56  | 8.92    | 62.48  | 6/3.37         | 1/3.37  | 10.11            | 206        | 0.5077                                | 1,914                         | 18,776  | 225                          | 10,000                   |
| Quail     | 2/0                  | 67.40  | 11.23   | 78.63  | 6/3.78         | 1/3.78  | 11.35            | 260        | 0.4030                                | 2,301                         | 22,572  | 260                          | 10,000                   |

NOTE : \*) Continuous operating temperature of conductor = 80°C , Air temperature = 35°C, wind velocity = 0.6 m/sec





## Aluminium Conductor-Aluminium Clad Steel Reinforced

Application : Used for overhead distribution and transmission line

# ACSR/AS

ASTM B 549

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code name | Cross sectional area |        |         |        | No/Dia of wire |         | Approximately    |            | DC conductor resistance at 20 °C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|-----------|----------------------|--------|---------|--------|----------------|---------|------------------|------------|---------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|           | Aluminium            |        | AS wire | TOTAL  | Aluminium      | AS wire | Overall diameter | Net Weight |                                       |                               |         |                              |                          |
| -         | AWG or MCM           | mm²    |         |        | pcs/mm         |         | mm               | Kg/Km      | Ω/Km                                  | Kgf                           | N       | A                            | m                        |
| Pigeon    | 3/0                  | 85.00  | 14.17   | 99.17  | 6/4.25         | 1/4.25  | 12.74            | 327        | 0.3195                                | 2,854                         | 27,997  | 305                          | 5,000                    |
| Penguin   | 4/0                  | 107.20 | 17.87   | 125.07 | 6/4.77         | 1/4.77  | 14.31            | 413        | 0.2533                                | 3,480                         | 34,138  | 350                          | 5,000                    |
| Waxwing   | 266.8                | 135.10 | 7.50    | 142.60 | 18/3.09        | 1/3.09  | 15.46            | 423        | 0.2094                                | 3,063                         | 30,048  | 395                          | 5,000                    |
| Partridge | 266.8                | 135.20 | 22.04   | 157.24 | 26/2.57        | 7/2.00  | 16.30            | 521        | 0.2030                                | 4,909                         | 48,157  | 405                          | 5,000                    |
| Ostrich   | 300                  | 152.00 | 24.73   | 176.73 | 26/2.73        | 7/2.12  | 17.28            | 586        | 0.1806                                | 5,513                         | 54,082  | 435                          | 5,000                    |
| Merlin    | 336.4                | 170.40 | 9.47    | 179.87 | 18/3.47        | 1/3.47  | 17.36            | 533        | 0.1660                                | 3,833                         | 37,601  | 455                          | 5,000                    |
| Linnet    | 336.4                | 170.30 | 27.71   | 198.01 | 26.2.89        | 7/2.25  | 18.29            | 656        | 0.1612                                | 6,096                         | 59,801  | 470                          | 3,000                    |
| Oriole    | 336.4                | 170.50 | 39.78   | 210.28 | 30/2.69        | 7/2.69  | 18.83            | 738        | 0.1578                                | 7,605                         | 74,605  | 480                          | 3,000                    |
| Chickadee | 397.5                | 201.40 | 11.19   | 212.59 | 18/3.77        | 1/3.77  | 18.87            | 630        | 0.1405                                | 4,359                         | 42,761  | 505                          | 3,000                    |
| Brant     | 397.5                | 201.40 | 26.10   | 227.50 | 24/3.27        | 7/2.18  | 19.61            | 732        | 0.1378                                | 6,327                         | 62,067  | 515                          | 3,000                    |
| Ibis      | 397.5                | 201.20 | 32.76   | 233.96 | 26/3.14        | 7/2.44  | 19.88            | 775        | 0.1364                                | 7,109                         | 69,739  | 520                          | 3,000                    |
| Lark      | 397.5                | 201.40 | 47.00   | 248.40 | 30/2.92        | 7/2.92  | 20.47            | 871        | 0.1336                                | 8,889                         | 87,201  | 530                          | 3,000                    |
| Pelican   | 477                  | 241.70 | 13.43   | 255.13 | 18/4.14        | 1/4.14  | 20.68            | 756        | 0.1171                                | 5,185                         | 50,864  | 570                          | 3,000                    |
| Flicker   | 477                  | 241.70 | 31.35   | 273.05 | 24/3.58        | 7/2.39  | 21.49            | 878        | 0.1148                                | 7,596                         | 74,516  | 580                          | 3,000                    |
| Hawk      | 477                  | 241.50 | 39.34   | 280.84 | 26/3.44        | 7/2.68  | 21.78            | 930        | 0.1137                                | 8,535                         | 83,728  | 585                          | 3,000                    |
| Hen       | 477                  | 241.70 | 56.40   | 298.10 | 30/3.20        | 7/3.20  | 22.42            | 1,045      | 0.1113                                | 10,552                        | 103,515 | 595                          | 2,000                    |
| Osprey    | 556.5                | 281.80 | 15.66   | 297.46 | 18/4.47        | 1/4.47  | 22.33            | 881        | 0.1004                                | 5,993                         | 58,791  | 625                          | 3,000                    |

NOTE : \*) Continuous operating temperature of conductor = 80 °C , Air temperature = 35 °C , wind velocity = 0.6 m/sec



# Aluminium Conductor-Aluminium Clad Steel Reinforced

Application : Used for overhead distribution and transmission line

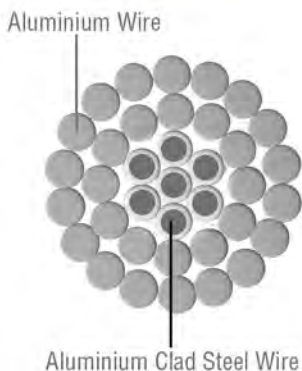
# ACSR/AS

ASTM B 549

## DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code name | Cross sectional area |        |         |        | No/Dia of wire |         | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|-----------|----------------------|--------|---------|--------|----------------|---------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|           | Aluminium            |        | AS wire | TOTAL  | Aluminium      | AS wire | Overall diameter | Net Weight |                                      |                               |         |                              |                          |
| -         | AWG or MCM           | mm²    |         |        | pcs/mm         |         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | A                            | m                        |
| Parakeet  | 556.5                | 282.00 | 36.54   | 318.54 | 24/3.87        | 7/2.58  | 23.21            | 1,024      | 0.0984                               | 8,724                         | 85,582  | 640                          | 2,000                    |
| Dovve     | 556.5                | 282.00 | 45.95   | 327.95 | 26/3.72        | 7/2.89  | 23.54            | 1,086      | 0.0973                               | 9,968                         | 97,786  | 645                          | 2,000                    |
| Eagle     | 556.5                | 281.90 | 65.78   | 347.68 | 30/3.46        | 7/3.46  | 24.21            | 1,219      | 0.0954                               | 12,088                        | 118,583 | 655                          | 2,000                    |
| Peacock   | 605                  | 306.70 | 39.78   | 346.48 | 24/4.03        | 7/2.69  | 24.21            | 1,114      | 0.0905                               | 9,493                         | 93,126  | 675                          | 2,000                    |
| Squab     | 605                  | 306.30 | 49.88   | 356.18 | 26/3.87        | 7/3.01  | 24.53            | 1,180      | 0.0896                               | 10,678                        | 104,751 | 680                          | 2,000                    |
| Wood Duck | 605                  | 306.60 | 71.53   | 378.13 | 30/3.61        | 7/3.61  | 25.25            | 1,326      | 0.0877                               | 12,901                        | 126,558 | 690                          | 2,000                    |
| Teal      | 605                  | 322.60 | 69.88   | 376.48 | 30/3.61        | 19/2.16 | 25.25            | 1,316      | 0.0879                               | 12,931                        | 126,853 | 690                          | 2,000                    |
| Kingbird  | 636                  | 322.30 | 17.91   | 340.21 | 18/4.78        | 1/4.78  | 23.88            | 1,008      | 0.0878                               | 6,795                         | 66,658  | 680                          | 2,000                    |
| Rook      | 636                  | 322.30 | 41.76   | 364.06 | 24/4.14        | 7/2.76  | 24.81            | 1,170      | 0.0861                               | 9,970                         | 97,805  | 695                          | 2,000                    |
| Grossbeak | 636                  | 322.30 | 52.46   | 374.76 | 26/3.97        | 7/3.09  | 25.16            | 1,241      | 0.0852                               | 11,233                        | 110,195 | 700                          | 2,000                    |
| Scoter    | 636                  | 322.20 | 75.18   | 397.38 | 30/3.70        | 7/3.70  | 25.89            | 1,393      | 0.0835                               | 13,308                        | 130,551 | 715                          | 2,000                    |
| Egret     | 636                  | 322.20 | 73.54   | 395.74 | 30/3.70        | 19/2.22 | 25.89            | 1,384      | 0.0836                               | 13,601                        | 133,425 | 715                          | 2,000                    |
| Swift     | 636                  | 322.30 | 8.95    | 331.25 | 36/3.38        | 1/3.38  | 23.63            | 949        | 0.0886                               | 6,221                         | 61,028  | 675                          | 3,000                    |
| Flamingo  | 666.6                | 337.90 | 43.78   | 381.68 | 24/4.23        | 7/2.82  | 25.40            | 1,227      | 0.0821                               | 10,453                        | 102,543 | 715                          | 2,000                    |
| Gannet    | 666.6                | 337.80 | 54.97   | 392.77 | 26/4.07        | 7/3.16  | 25.75            | 1,301      | 0.0813                               | 11,772                        | 115,483 | 725                          | 2,000                    |
| Stilt     | 715.5                | 362.80 | 47.00   | 409.80 | 24/4.39        | 7/2.92  | 26.32            | 1,317      | 0.0765                               | 11,222                        | 110,087 | 750                          | 2,000                    |
| Starling  | 715.5                | 362.60 | 59.04   | 421.64 | 26/4.21        | 7/3.28  | 26.69            | 1,396      | 0.0757                               | 12,444                        | 122,075 | 755                          | 2,000                    |

NOTE : \*) Continuous operating temperature of conductor = 80°C , Air temperature = 35°C, wind velocity = 0.6 m/sec





# Aluminium Conductor-Aluminium Clad Steel Reinforced

Application : Used for overhead distribution and transmission line

ACSR/AS

ASTM B 549

## DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code name | Cross sectional area |       |         |        | No/Dia of wire |         | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|-----------|----------------------|-------|---------|--------|----------------|---------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|           | Aluminium            |       | AS wire | TOTAL  | Aluminium      | AS wire | Overall diameter | Net Weight |                                      |                               |         |                              |                          |
| -         | AWG or MCM           | mm²   |         |        | pcs/mm         |         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | A                            | m                        |
| Redwing   | 715.5                | 362.4 | 82.55   | 444.95 | 30/3.92        | 19/2.35 | 27.45            | 1,555      | 0.07437                              | 15,107                        | 148,199 | 770                          | 1,500                    |
| Cuckao    | 795                  | 402.9 | 52.19   | 455.09 | 24/4.62        | 7/3.08  | 27.74            | 1,463      | 0.06887                              | 12,462                        | 122,252 | 800                          | 2,000                    |
| Drake     | 795                  | 402.9 | 65.59   | 468.49 | 26/4.44        | 7/3.45  | 28.13            | 1,552      | 0.06813                              | 13,825                        | 135,623 | 805                          | 1,500                    |
| Coot      | 795                  | 402.7 | 11.19   | 413.89 | 36/3.77        | 1/3.77  | 26.42            | 1,185      | 0.07092                              | 7,372                         | 72,319  | 780                          | 2,000                    |
| Tern      | 795                  | 402.8 | 27.83   | 430.63 | 45/3.38        | 7/2.25  | 27.01            | 1,301      | 0.07027                              | 9,637                         | 94,538  | 785                          | 2,000                    |
| Condor    | 795                  | 402.6 | 52.19   | 454.79 | 54/3.08        | 7/3.08  | 27.73            | 1,462      | 0.06892                              | 12,509                        | 122,713 | 800                          | 2,000                    |
| Mallard   | 795                  | 402.9 | 91.93   | 494.83 | 30/4.14        | 19/2.48 | 28.95            | 1,730      | 0.06689                              | 16,813                        | 164,935 | 820                          | 1,500                    |
| Ruddy     | 900                  | 456   | 31.54   | 487.54 | 45/3.59        | 7/2.40  | 28.74            | 1,473      | 0.06207                              | 10,914                        | 107,066 | 850                          | 1,500                    |
| Canary    | 900                  | 456   | 59.11   | 515.11 | 54/3.28        | 7/3.28  | 29.51            | 1,656      | 0.06085                              | 13,971                        | 137,055 | 865                          | 1,500                    |
| Catbird   | 954                  | 483.4 | 13.43   | 496.83 | 36/4.14        | 1/4.14  | 28.95            | 1,423      | 0.05908                              | 8,803                         | 86,357  | 870                          | 2,000                    |
| Rail      | 954                  | 483.3 | 33.43   | 516.73 | 45/3.70        | 7/2.47  | 29.59            | 1,562      | 0.05857                              | 11,567                        | 113,472 | 880                          | 1,500                    |
| Cardinal  | 954                  | 483.4 | 62.66   | 546.06 | 54/3.38        | 7/3.38  | 30.38            | 1,755      | 0.05740                              | 14,810                        | 145,286 | 895                          | 1,500                    |
| Tanager   | 1,033.5              | 523.5 | 14.54   | 538.04 | 36/4.30        | 1/4.30  | 30.12            | 1,541      | 0.05456                              | 9,533                         | 93,518  | 915                          | 1,500                    |
| Ortolan   | 1,033.5              | 523.3 | 36.17   | 559.47 | 45/3.85        | 7/2.57  | 30.78            | 1,691      | 0.05409                              | 12,279                        | 120,456 | 925                          | 1,500                    |
| Curlew    | 1,033.5              | 523.4 | 67.85   | 591.25 | 54/3.51        | 7/3.51  | 31.62            | 1,901      | 0.05301                              | 15,804                        | 155,037 | 940                          | 1,500                    |
| Bluejay   | 1,113                | 564.1 | 39.02   | 603.12 | 45/4.00        | 7/2.66  | 31.96            | 1,823      | 0.05018                              | 13,240                        | 129,884 | 970                          | 1,500                    |
| Finch     | 1,113                | 564.1 | 71.50   | 635.60 | 54/3.65        | 19/2.19 | 32.83            | 2,046      | 0.04947                              | 17,071                        | 167,466 | 980                          | 1,000                    |

NOTE : \*) Continuous operating temperature of conductor = 80°C , Air temperature = 35°C, wind velocity = 0.6 m/sec

## Aluminium Conductor-Aluminium Clad Steel Reinforced

Application : Used for overhead distribution and transmission line

# ACSR/AS

ASTM B 549

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code name | Cross sectional area |                 |        |          | No/Dia of wire |         | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|-----------|----------------------|-----------------|--------|----------|----------------|---------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|           | Aluminium            | AS wire         | TOTAL  |          | Aluminium      | AS wire | Overall diameter | Net Weight |                                      |                               |         |                              |                          |
| -         | AWG or MCM           | mm <sup>2</sup> |        |          | pcs/mm         |         | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | A                            | m                        |
| Bunting   | 1,192.5              | 604.30          | 41.73  | 646.03   | 45/4.14        | 7/2.76  | 33.08            | 1,952      | 0.04684                              | 14,175                        | 139,056 | 1,010                        | 1,000                    |
| Grackle   | 1,192.5              | 604.10          | 76.56  | 680.66   | 54/3.77        | 19/2.27 | 33.97            | 2,183      | 0.04598                              | 18,000                        | 176,580 | 1,025                        | 1,000                    |
| Skylark   | 1,272                | 644.70          | 17.91  | 662.61   | 36/4.78        | 1/4.78  | 33.43            | 1,897      | 0.04430                              | 11,621                        | 114,002 | 1,040                        | 1,500                    |
| Bittern   | 1,272                | 644.10          | 44.56  | 688.66   | 45/4.27        | 7/2.85  | 34.16            | 2,081      | 0.04395                              | 15,118                        | 148,307 | 1,050                        | 1,000                    |
| Pheasant  | 1,272                | 644.40          | 81.64  | 726.04   | 54/3.90        | 19/2.34 | 35.08            | 2,328      | 0.04310                              | 19,198                        | 188,332 | 1,070                        | 1,000                    |
| Dipper    | 1,351.5              | 684.50          | 47.29  | 731.79   | 45/4.40        | 7/2.93  | 35.21            | 2,211      | 0.04135                              | 16,059                        | 157,538 | 1,090                        | 1,000                    |
| Martin    | 1,351.5              | 684.70          | 86.67  | 771.37   | 54/4.02        | 19/2.41 | 36.16            | 2,473      | 0.04057                              | 20,389                        | 200,016 | 1,110                        | 1,000                    |
| Bobolink  | 1,431                | 724.60          | 50.14  | 774.74   | 45/4.53        | 7/3.02  | 36.23            | 2,341      | 0.03906                              | 17,009                        | 166,858 | 1,130                        | 1,000                    |
| Plover    | 1,431                | 725.20          | 91.85  | 817.05   | 54/4.14        | 19/2.48 | 37.22            | 2,620      | 0.03830                              | 21,602                        | 211,915 | 1,145                        | 1,000                    |
| Nuthatch  | 1,510.5              | 765.20          | 52.87  | 818.07   | 45/4.65        | 7/3.10  | 37.22            | 2,472      | 0.03699                              | 17,952                        | 176,109 | 1,165                        | 1,000                    |
| Parrot    | 1,510.5              | 764.60          | 96.81  | 861.41   | 54/4.25        | 19/2.55 | 38.21            | 2,762      | 0.03633                              | 22,772                        | 223,393 | 1,185                        | 1,000                    |
| Lapwing   | 1,590                | 805.80          | 55.67  | 861.47   | 45/4.78        | 7/3.18  | 38.20            | 2,603      | 0.03513                              | 18,904                        | 185,448 | 1,205                        | 1,000                    |
| Falcon    | 1,590                | 805.50          | 102.12 | 907.62   | 54/4.36        | 19/2.62 | 39.23            | 2,911      | 0.03448                              | 24,005                        | 235,489 | 1,220                        | 500                      |
| Chukar    | 1,780                | 902.20          | 73.48  | 975.68   | 84/3.70        | 19/2.22 | 40.68            | 3,001      | 0.03140                              | 22,473                        | 220,460 | 1,290                        | 500                      |
| Bluebird  | 2,156                | 1,092.30        | 88.84  | 1,181.14 | 84/4.07        | 19/2.44 | 44.75            | 3,633      | 0.02593                              | 26,692                        | 261,848 | 1,440                        | 500                      |
| Kiwi      | 2,167                | 1,097.80        | 47.46  | 1,145.26 | 72/4.41        | 7/2.94  | 44.06            | 3,358      | 0.02601                              | 22,220                        | 217,978 | 1,430                        | 500                      |
| Thrasher  | 2,312                | 1,170.90        | 63.76  | 1,234.66 | 76/4.43        | 19/2.07 | 45.77            | 3,686      | 0.02441                              | 25,015                        | 245,397 | 1,485                        | 500                      |

NOTE : \*) Continuous operating temperature of conductor = 80°C, Air temperature = 35°C, wind velocity = 0.6 m/sec





## Aluminium Conductor-Aluminium Clad Steel Reinforced

Application : Used for overhead distribution and transmission line

**ACSR/AS**  
**BS EN 50182 : 2001**  
**ASTM B502**

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code            | Code name | Cross section area |       |       | No/Dia of wire |         | Approximately    |            | DC conductor resistance at 20° C, max | Rated strength | Current carrying capacity *) | Standard delivery length |
|-----------------|-----------|--------------------|-------|-------|----------------|---------|------------------|------------|---------------------------------------|----------------|------------------------------|--------------------------|
|                 |           | Al                 | Steel | TOTAL | Aluminium      | AS wire | Overall diameter | Net Weight |                                       |                |                              |                          |
| -               | -         | mm <sup>2</sup>    |       |       | pcs/mm         |         | mm               | Kg/Km      | Ω/Km                                  | kN             | A                            | m                        |
| 11-AL1/2-ST1A   | MOLE      | 10,6               | 1,77  | 12,4  | 6/1.50         | 1/1.50  | 4,50             | 42,8       | 2,7027                                | 4,14           |                              |                          |
| 21-AL1/3-ST1A   | SQUIREEL  | 21                 | 3,50  | 24,5  | 6/2.11         | 1/2.11  | 6,33             | 84,7       | 1,3659                                | 7,87           |                              |                          |
| 26-AL1/4-ST1A   | GOPHER    | 26,2               | 4,37  | 30,6  | 6/2.36         | 1/2.36  | 7,08             | 106        | 1,0919                                | 9,58           | 145                          | 5.000                    |
| 32-AL1/5-ST1A   | WEASEL    | 31,6               | 5,27  | 36,9  | 6/2.59         | 1/2.59  | 7,77             | 128        | 0,9065                                | 11,38          | 163                          | 5.000                    |
| 42-AL1/7-ST1A   | FERRET    | 42,4               | 7,07  | 49,5  | 6/3.00         | 1/3.00  | 9,0              | 171        | 0,6757                                | 15,27          | 196                          | 5.000                    |
| 53-AL1/9-ST1A   | RABBIT    | 52,9               | 8,81  | 61,7  | 6/3.35         | 1/3.35  | 10,1             | 214        | 0,5419                                | 18,42          | 225                          | 5.000                    |
| 73-AL1/43-ST1A  | HORSE     | 73,4               | 42,8  | 116,2 | 12/2.79        | 7/2.79  | 14,0             | 537        | 0,3936                                | 61,26          | 306                          | 3.000                    |
| 105-AL1/14-ST1A | DOG       | 105,0              | 13,5  | 118,5 | 6/4.72         | 7/1.57  | 14,2             | 378        | 0,2619                                | 32,98          | 344                          | 5.000                    |
| 158-AL1/37-ST1A | WOLF      | 158,1              | 36,9  | 194,9 | 30/2.59        | 7/2.59  | 18,1             | 725        | 0,1829                                | 71,58          | 457                          | 3.000                    |
| 159-AL1/9-ST1A  | DINGO     | 158,7              | 8,81  | 167,5 | 18/3.35        | 1/3.35  | 16,8             | 505        | 0,1829                                | 35,87          | 437                          | 3.000                    |
| 183-AL1/43-ST1A | LYNX      | 183,4              | 42,80 | 226,2 | 30/2.79        | 7/2.79  | 19,5             | 842        | 0,1576                                | 79,97          | 502                          | 5.000                    |
| 184-AL1/10-ST1A | GARACAL   | 184,2              | 10,2  | 194,5 | 18/3.61        | 1/3.61  | 18,1             | 587        | 0,1562                                | 40,74          | 480                          | 3.000                    |
| 212-AL1/49-ST1A | PANTHER   | 212,1              | 49,5  | 261,5 | 30/3.00        | 7/3.00  | 21,0             | 973        | 0,1363                                | 92,46          | 551                          | 3.000                    |
| 211-AL1/12-ST1A | JAGUAR    | 210,6              | 11,7  | 222,3 | 18/3.86        | 1/3.86  | 19,3             | 670        | 0,1366                                | 45,57          | 522                          | 3.000                    |
| 429-AL1/56-ST1A | ZEBRA     | 428,9              | 55,6  | 484,5 | 54/3.18        | 7/3.18  | 28,6             | 1.554      | 0,0674                                | 131,92         | 837                          | 3.000                    |
| 37-AL1/6-ST1A   | FOX       | 36,7               | 6,1   | 42,8  | 6/2.79         | 1/2.79  | 8,37             | 141        | 0,7812                                | 13,21          | 179                          | 3.000                    |
| 63-AL1/11-ST1A  | MINK      | 63,1               | 10,5  | 73,6  | 6/3.66         | 1/3.66  | 11,0             | 242        | 0,4540                                | 21,67          | 251                          | 2.000                    |
| 63-AL1/37-ST1A  | SKUNK     | 63,2               | 36,9  | 100,1 | 12/2.59        | 7/2.59  | 13,0             | 419        | 0,4568                                | 52,79          | 279                          | 2.000                    |
| 75-AL1/13-ST1A  | BEAVER    | 75,0               | 12,5  | 87,5  | 6/3.99         | 1/3.99  | 12,0             | 288        | 0,3820                                | 25,76          | 280                          | 3.000                    |





## Aluminium Conductor-Aluminium Clad Steel Reinforced

Application : Used for overhead distribution and transmission line

**ACSR/AS**  
**BS EN 50182 : 2001**  
**ASTM B502**

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code             | Code name |                 |       |       | No/Dia of wire |         | Approximately    |            | DC conductor resistance at 20° C, max | Rated strength | Current carrying capacity *) | Standard delivery length |
|------------------|-----------|-----------------|-------|-------|----------------|---------|------------------|------------|---------------------------------------|----------------|------------------------------|--------------------------|
|                  |           | Al              | Steel | TOTAL | Aluminium      | AS wire | Overall diameter | Net Weight |                                       |                |                              |                          |
| -                | -         | mm <sup>2</sup> |       |       | pcs/mm         |         | mm               | Kg/Km      | Ω/Km                                  | kN             | A                            | m                        |
| 79-AL1/13-ST1A   | RACoon    | 78,8            | 13,1  | 92,0  | 6/4.09         | 1/4.09  | 12,3             | 303        | 0,3636                                | 27,05          | 289                          | 5.000                    |
| 84-AL1/14-ST1A   | OTTER     | 83,9            | 14,0  | 97,9  | 6/4.22         | 1/4.22  | 12,7             | 322        | 0,3236                                | 28,81          | 301                          | 5.000                    |
| 95-AL1/16-ST1A   | CAT       | 95,4            | 15,9  | 111,3 | 6/4.50         | 1/4.50  | 13,5             | 367        | 0,2847                                | 32,76          | 326                          | 5.000                    |
| 105-AL1/17-ST1A  | HARE      | 105,0           | 17,5  | 122,5 | 6/4.72         | 1/4.72  | 14,2             | 403        | 0,2587                                | 36,04          | 347                          | 5.000                    |
| 131-AL1/31-ST1A  | TIGER     | 131,2           | 30,6  | 161,9 | 30/2.36        | 7/2.36  | 16,5             | 565        | 0,2041                                | 57,87          | 406                          | 3.000                    |
| 132-AL1/7-ST1A   | COYOTE    | 131,7           | 20,1  | 151,8 | 26/2.54        | 7/1.91  | 15,9             | 497        | 0,2072                                | 45,68          | 399                          | 3.000                    |
| 238-AL1/56-ST1A  | LION      | 238,3           | 55,6  | 293,9 | 30/3.18        | 7/3.18  | 22,3             | 1.027      | 0,1124                                | 100,47         | 593                          | 2.000                    |
| 264-AL1/62-ST1A  | BEAR      | 264,4           | 61,7  | 326,1 | 30/3.35        | 7/3.35  | 23,5             | 1.139      | 0,1013                                | 111,50         | 633                          | 2.000                    |
| 324-AL1/76-ST1A  | GOAT      | 324,3           | 75,7  | 400,0 | 30/3.71        | 7/3.71  | 26,0             | 1.397      | 0,08256                               | 135,13         | 721                          | 2.000                    |
| 374-AL1/48-ST1A  | ANTELOPE  | 374,1           | 48,5  | 422,6 | 54/2.97        | 7/2.97  | 26,7             | 1.356      | 0,07402                               | 118,88         | 767                          | 2.000                    |
| 375-AL1/88-ST1A  | SHEEP     | 375,1           | 87,5  | 462,6 | 30/3.99        | 7/3.99  | 27,9             | 1.616      | 0,07140                               | 256,30         | 790                          | 2.000                    |
| 382-AL1/49-ST1A  | BISON     | 381,7           | 49,5  | 431,2 | 54/3.00        | 7/3.00  | 27,0             | 1.383      | 0,07254                               | 121,30         | 777                          | 2.000                    |
| 430-AL1/100-ST1A | DEER      | 429,6           | 100,2 | 529,8 | 30/4.27        | 7/4.27  | 29,9             | 1.851      | 0,06233                               | 179,00         | 861                          | 2.000                    |
| 476-AL1/62-ST1A  | CAMEL     | 476,0           | 61,7  | 537,7 | 54/3.35        | 7/3.35  | 30,2             | 1.724      | 0,05817                               | 146,40         | 894                          | 2.000                    |
| 477-AL1/111-ST1A | ELK       | 477,0           | 111,3 | 588,3 | 30/4.50        | 7/4.50  | 31,5             | 2.055      | 0,05613                               | 198,80         | 924                          | 2.500                    |
| 528-AL1/629-ST1A | MOOSE     | 528,5           | 68,5  | 597,0 | 54/3.53        | 7/3.53  | 31,8             | 1.914      | 0,05239                               | 159,92         | 955                          | 2.000                    |





## Aluminium Conductor-Aluminium Clad Steel Reinforced

Application : Used for overhead distribution and transmission line

**ACSR/AS**  
BS EN 50182 : 2001

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code            | Nominal cross sectional area | No/Dia of wire |         | Cross sectional area |         |       | Approximately    |            | DC conductor resistance at 20° C, max | Calculated breaking load, min | Current carrying capacity *) | Standard delivery length |
|-----------------|------------------------------|----------------|---------|----------------------|---------|-------|------------------|------------|---------------------------------------|-------------------------------|------------------------------|--------------------------|
|                 |                              | Aluminium      | AS Wire | Aluminium            | AS Wire | TOTAL | Overall diameter | Net Weight |                                       |                               |                              |                          |
| -               | -                            | pcs/mm         |         | mm <sup>2</sup>      |         |       | mm               | Kg/Km      | Ω/Km                                  | kN                            | A                            | m                        |
| 15-AL1/3-ST1A   | 16/2.5                       | 6/1.80         | 1/1.80  | 15,3                 | 2,54    | 17,8  | 5,40             | 61,6       | 1,8769                                | 5,80                          | 105                          | 10.000                   |
| 24-AL1/4-ST1A   | 25/4                         | 6/2.25         | 1/2.25  | 23,9                 | 3,98    | 27,8  | 6,75             | 96,3       | 1,2012                                | 8,95                          | 140                          | 10.000                   |
| 34-AL1/6-ST1A   | 35/6                         | 6/2.70         | 1/2.70  | 34,4                 | 5,73    | 40,1  | 8,10             | 138,7      | 0,8342                                | 12,37                         | 170                          | 10.000                   |
| 44-AL1/32-ST1A  | 44/32                        | 14/2.00        | 7/2.40  | 44,0                 | 31,67   | 75,6  | 11,2             | 369,3      | 0,6574                                | 44,24                         | -                            | 5.000                    |
| 48-AL1/8-ST1A   | 50/8                         | 6/3.20         | 1/3.20  | 48,3                 | 8,04    | 56,3  | 9,60             | 194,8      | 0,5939                                | 16,81                         | 210                          | 10.000                   |
| 51-AL1/30-ST1A  | 50/30                        | 12/2.33        | 7/2.33  | 51,2                 | 29,8    | 81,0  | 11,7             | 374,7      | 0,5644                                | 42,98                         | -                            | 5.000                    |
| 70-AL1/11-ST1A  | 70/12                        | 26/1.85        | 7/1.44  | 69,9                 | 11,4    | 81,3  | 11,7             | 282,2      | 0,4132                                | 26,27                         | 290                          | 5.000                    |
| 94-AL1/15-ST1A  | 95/15                        | 26/2.25        | 7/1.67  | 94,4                 | 15,3    | 109,7 | 13,6             | 380,6      | 0,306                                 | 34,93                         | 350                          | 5.000                    |
| 97-AL1/56-ST1A  | 95/55                        | 12/3.20        | 7/3.20  | 96,5                 | 56,3    | 152,8 | 16,0             | 706,8      | 0,2992                                | 77,85                         | -                            | 3.000                    |
| 106-AL1/76-ST1A | 105/75                       | 14/3.10        | 19/2.25 | 105,7                | 75,5    | 181,2 | 17,5             | 885,3      | 0,2742                                | 105,82                        | -                            | 3.000                    |
| 122-AL1/20-ST1A | 120/20                       | 26/2.44        | 7/1.90  | 212,6                | 19,8    | 242,4 | 15,5             | 491,0      | 0,2376                                | 44,50                         | 410                          | 5.000                    |
| 122-AL1/71-ST1A | 120/70                       | 12/3.60        | 7/3.60  | 122,1                | 71,3    | 193,4 | 18,0             | 894,5      | 0,2364                                | 97,92                         | -                            | 3.000                    |
| 128-AL1/30-ST1A | 125/30                       | 30/2.33        | 7/2.33  | 127,9                | 29,8    | 157,8 | 16,3             | 587,0      | 0,2260                                | 56,41                         | 425                          | 5.000                    |
| 149-AL1/24-ST1A | 150/25                       | 26/2.70        | 7/2.10  | 149,7                | 24,2    | 173,9 | 17,1             | 600,8      | 0,1940                                | 53,67                         | 470                          | 5.000                    |
| 172-AL1/40-ST1A | 170/40                       | 30/2.70        | 7/2.70  | 171,8                | 40,1    | 211,8 | 18,9             | 788,2      | 0,1683                                | 74,89                         | 520                          | 3.000                    |
| 184-AL1/30-ST1A | 185/30                       | 26/3.00        | 7/2.33  | 183,8                | 29,8    | 213,6 | 19,0             | 741,0      | 0,1571                                | 65,27                         | 535                          | 3.000                    |
| 209-AL1/34-ST1A | 210/35                       | 26/3.20        | 7/2.49  | 209,1                | 34,1    | 243,2 | 20,3             | 844,1      | 0,1381                                | 73,36                         | 590                          | 3.000                    |
| 212-AL1/49-ST1A | 210/50                       | 30/3.00        | 7/3.00  | 212,1                | 49,5    | 261,5 | 21,0             | 973,1      | 0,1363                                | 92,46                         | 610                          | 3.000                    |
| 231-AL1/30-ST1A | 230/30                       | 24/3.50        | 7/2.33  | 230,9                | 29,8    | 260,8 | 21,0             | 870,9      | 0,1250                                | 72,13                         | 630                          | 3.000                    |
| 243-AL1/39-ST1A | 240/40                       | 26/3.45        | 7/2.68  | 243,1                | 39,5    | 282,5 | 21,8             | 980,1      | 0,1188                                | 85,12                         | 645                          | 3.000                    |
| 264-AL1/34-ST1A | 265/35                       | 24/3.74        | 7/2.49  | 263,7                | 34,1    | 297,7 | 22,4             | 994,4      | 0,1095                                | 81,04                         | 680                          | 3.000                    |

NOTE : \*) Continuous operating temperature of conductor = 80°C, Air temperature = 35°C, wind velocity = 0.6 m/sec





## Aluminium Conductor-Aluminium Clad Steel Reinforced

Application : Used for overhead distribution and transmission line

**ACSR/AS**  
**BS EN 50182 : 2001**

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code             | Nominal cross sectional area | No/Dia of wire |         | Cross sectional area |         |         | Approximately    |            | DC conductor resistance at 20° C, max | Calculated breaking load, min | Current carrying capacity *) | Standard delivery length |
|------------------|------------------------------|----------------|---------|----------------------|---------|---------|------------------|------------|---------------------------------------|-------------------------------|------------------------------|--------------------------|
|                  |                              | Aluminium      | AS Wire | Aluminium            | AS Wire | TOTAL   | Overall diameter | Net Weight |                                       |                               |                              |                          |
| -                | -                            | pcs/mm         |         | mm <sup>2</sup>      |         |         | mm               | Kg/Km      | Ω/Km                                  | kN                            | A                            | m                        |
| 304-AL1/49-ST1A  | 300/50                       | 26/3.86        | 7/3.00  | 304,3                | 49,5    | 353,7   | 24,4             | 1.227,3    | 0,0949                                | 105,09                        | 740                          | 2.000                    |
| 305-AL1/39-ST1A  | 305/40                       | 54/2.68        | 7/2.68  | 304,6                | 39,5    | 344,1   | 24,1             | 1.151,2    | 0,0949                                | 96,80                         | 740                          | 2.000                    |
| 339-AL1/30-ST1A  | 340/30                       | 48/3.00        | 7/2.33  | 339,3                | 29,8    | 369,1   | 25,0             | 1.171,2    | 0,0852                                | 91,71                         | 790                          | 2.000                    |
| 382-AL1/49-ST1A  | 380/50                       | 54/3.00        | 7/3.00  | 381,7                | 49,5    | 431,2   | 21,0             | 1.442,5    | 0,0749                                | 121,30                        | 840                          | 2.000                    |
| 386-AL1/34-ST1A  | 385/35                       | 48/3.20        | 7/2.49  | 386,0                | 34,1    | 420,1   | 27,0             | 1.333,6    | 0,0666                                | 102,56                        | 850                          | 2.000                    |
| 343-AL1/56-ST1A  | 435/55                       | 54/3.20        | 7/3.20  | 434,3                | 56,3    | 490,6   | 28,8             | 1.641,3    | 0,0644                                | 133,59                        | 900                          | 1.500                    |
| 449-AL1/39-ST1A  | 450/40                       | 48/3.45        | 7/2.68  | 448,7                | 39,5    | 488,2   | 28,7             | 1.549,1    | 0,0590                                | 119,05                        | 920                          | 1.500                    |
| 490-AL1/64-ST1A  | 490/65                       | 54/3.40        | 7/3.40  | 490,3                | 63,6    | 553,8   | 30,6             | 1.852,9    | 0,0584                                | 150,81                        | 960                          | 1.500                    |
| 494-AL1/34-ST1A  | 495/35                       | 45/3.74        | 7/2.49  | 494,4                | 34,1    | 528,4   | 29,9             | 1.632,6    | 0,0566                                | 117,96                        | 985                          | 1.500                    |
| 511-AL1/45-ST1A  | 510/45                       | 48/3.68        | 7/2.87  | 510,5                | 45,3    | 555,8   | 30,7             | 1.765,3    | 0,0584                                | 133,31                        | 995                          | 1.500                    |
| 550-AL1/71-ST1A  | 550/70                       | 54/3.60        | 7/3.60  | 549,7                | 71,3    | 620,9   | 32,4             | 2.077,2    | 0,0526                                | 166,32                        | 1.020                        | 1.500                    |
| 562-AL1/49-ST1A  | 560/50                       | 48/3.86        | 7/3.00  | 561,7                | 49,5    | 611,2   | 32,2             | 1.939,5    | 0,0515                                | 146,28                        | 1.040                        | 1.500                    |
| 571-AL1/39-ST1A  | 570/40                       | 45/4.02        | 7/2.68  | 571,2                | 39,5    | 610,6   | 32,2             | 1.887,1    | 0,0506                                | 136,40                        | 1.050                        | 1.500                    |
| 653-AL1/45-ST1A  | 650/45                       | 45/4.30        | 7/2.87  | 653,5                | 45,3    | 698,8   | 34,4             | 2.159,9    | 0,0442                                | 156,18                        | 1.120                        | 1.000                    |
| 679-AL1/86-ST1A  | 680/85                       | 54/4.00        | 19/2.40 | 678,6                | 86,0    | 764,5   | 36,0             | 2.549,7    | 0,0426                                | 206,56                        | 1.150                        | 1.000                    |
| 1046-AL1/45-ST1A | 1.045/45                     | 72/4.30        | 7/2.87  | 1.045,6              | 45,3    | 1.090,9 | 43,0             | 3.248,2    | 0,0277                                | 218,92                        | 1.580                        | 500                      |

NOTE : \*) Continuous operating temperature of conductor = 80°C , Air temperature = 35°C, wind velocity = 0.6 m/sec



## Thermal Resistance Aluminium Alloy Conductor- Aluminium Clad Steel Reinforced

Application : Used for overhead distribution and transmission line at high operating temperature

# TACSR/AS

JPFEC A 242

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Nominal cross sectional area | No/Dia of wire |         | Cross sectional area |         |          | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|------------------------------|----------------|---------|----------------------|---------|----------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|                              | TAL wire       | AS wire | TAL wire             | AS wire | TOTAL    | Overall diameter | Net Weight |                                      | Kgf                           | N       |                              |                          |
| -                            | pcs/mm         |         | mm <sup>2</sup>      |         |          | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | A                            | m                        |
| 58                           | 6/3.5          | 1/3.5   | 57.73                | 9.62    | 67.35    | 10.5             | 219        | 0.4736                               | 1,980                         | 19,423  | 390                          | 5,000                    |
| 80                           | 6/4.2          | 1/4.2   | 83.13                | 13.85   | 96.98    | 12.6             | 315        | 0.3289                               | 2,830                         | 27,762  | 495                          | 5,000                    |
| 80                           | 15/2.6         | 4/2.6   | 79.64                | 21.24   | 100.88   | 13.0             | 359        | 0.3380                               | 3,810                         | 37,376  | 495                          | 5,000                    |
| 95                           | 6/4.5          | 1/4.5   | 95.43                | 15.90   | 111.33   | 13.5             | 362        | 0.2870                               | 3,180                         | 31,195  | 540                          | 5,000                    |
| 100                          | 15/2.9         | 4/2.9   | 99.08                | 26.42   | 125.50   | 14.5             | 447        | 0.2717                               | 4,740                         | 46,499  | 570                          | 5,000                    |
| 120                          | 15/3.2         | 4/3.2   | 120.64               | 32.17   | 152.81   | 16.0             | 535        | 0.2196                               | 5,550                         | 54,445  | 655                          | 5,000                    |
| 120                          | 30/2.3         | 7/2.3   | 124.64               | 29.08   | 153.72   | 16.1             | 537        | 0.2190                               | 5,460                         | 53,562  | 655                          | 5,000                    |
| 160                          | 30/2.6         | 7/2.6   | 159.28               | 37.17   | 196.45   | 18.2             | 686        | 0.1718                               | 6,980                         | 68,473  | 770                          | 3,000                    |
| 200                          | 30/2.9         | 7/2.9   | 198.16               | 46.24   | 244.40   | 20.3             | 853        | 0.1381                               | 8,680                         | 85,150  | 890                          | 3,000                    |
| 240                          | 30/3.2         | 7/3.2   | 241.27               | 56.30   | 297.57   | 22.4             | 1,024      | 0.1118                               | 10,170                        | 99,767  | 1,025                        | 2,000                    |
| 330                          | 26/4.0         | 7/3.1   | 326.73               | 52.83   | 379.56   | 25.3             | 1,239      | 0.0847                               | 10,940                        | 107,321 | 1,225                        | 2,000                    |
| 410                          | 26/4.5         | 7/3.5   | 413.51               | 67.35   | 480.86   | 28.5             | 1,570      | 0.0669                               | 13,900                        | 136,359 | 1,435                        | 1,500                    |
| 520                          | 54/3.5         | 7/3.5   | 519.54               | 67.35   | 586.89   | 31.5             | 1,866      | 0.0535                               | 15,590                        | 152,937 | 1,655                        | 1,500                    |
| 610                          | 54/3.8         | 7/3.8   | 612.42               | 79.39   | 691.81   | 34.2             | 2,199      | 0.0458                               | 18,380                        | 180,307 | 1,840                        | 1,000                    |
| 680                          | 54/4.0         | 7/4.0   | 678.58               | 87.96   | 766.54   | 36.0             | 2,436      | 0.0415                               | 20,180                        | 197,965 | 1,960                        | 1,000                    |
| 680                          | 45/4.4         | 7/2.9   | 684.24               | 46.24   | 730.48   | 35.1             | 2,201      | 0.0421                               | 15,590                        | 152,937 | 1,930                        | 1,000                    |
| 810                          | 45/4.8         | 7/3.2   | 814.30               | 56.30   | 870.60   | 38.4             | 2,613      | 0.0352                               | 18,460                        | 181,092 | 2,170                        | 1,000                    |
| 1,160                        | 84/4.2         | 7/4.2   | 1,163.77             | 96.98   | 1,260.75 | 46.2             | 3,848      | 0.0246                               | 28,310                        | 277,721 | 2,740                        | 500                      |
| 1,520                        | 84/4.8         | 7/4.8   | 1,520.03             | 126.67  | 1,646.70 | 52.8             | 5,026      | 0.0188                               | 36,410                        | 357,182 | 3,230                        | 500                      |

NOTE : \*) Continuous operating temperature of conductor = 150°C , Air temperature = 35°C, wind velocity = 0.6 m/sec





## Thermal Resistance Aluminium Alloy Conductor Steel Reinforced

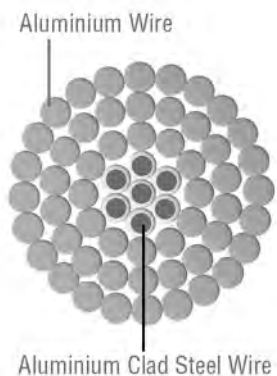
Application : Used for overhead distribution and transmission line at high operating temperature

**TACSR**  
JEC 197, JPFEC A 242

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Nominal cross sectional area | No/Dia of wire |       | Cross sectional area |        |          | Approximately    |            | DC conductor resistance at 20°C, max | Calculated breaking load, min |         | Current carrying capacity *) | Standard delivery length |
|------------------------------|----------------|-------|----------------------|--------|----------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|                              | TAL wire       | Steel | TAL wire             | Steel  | TOTAL    | Overall diameter | Net Weight |                                      | Kgf                           | N       |                              |                          |
| -                            | pcs/mm         |       | mm <sup>2</sup>      |        |          | mm               | Kg/Km      | Ω/Km                                 | Kgf                           | N       | A                            | m                        |
| 58                           | 6/3.5          | 1/3.5 | 57.73                | 9.52   | 67.35    | 10.5             | 234        | 0.5050                               | 1,980                         | 19,423  | 375                          | 5,000                    |
| 80                           | 6/4.2          | 1/4.2 | 83.13                | 13.85  | 96.98    | 12.6             | 336        | 0.3500                               | 2,770                         | 27,173  | 480                          | 5,000                    |
| 80                           | 15/2.6         | 4/2.6 | 79.64                | 21.24  | 100.88   | 13.0             | 386        | 0.3680                               | 3,810                         | 37,376  | 470                          | 5,000                    |
| 95                           | 6/4.5          | 1/4.5 | 95.43                | 15.90  | 111.33   | 13.5             | 386        | 0.3050                               | 3,180                         | 31,195  | 525                          | 5,000                    |
| 100                          | 15/2.9         | 4/2.9 | 99.08                | 26.42  | 125.50   | 14.5             | 480        | 0.2960                               | 4,740                         | 46,499  | 545                          | 5,000                    |
| 120                          | 15/3.2         | 4/3.2 | 120.64               | 32.17  | 152.81   | 16.0             | 585        | 0.2430                               | 5,550                         | 54,445  | 620                          | 5,000                    |
| 120                          | 30/2.3         | 7/2.3 | 124.64               | 29.08  | 153.72   | 16.1             | 574        | 0.2370                               | 5,460                         | 53,562  | 630                          | 5,000                    |
| 160                          | 30/2.6         | 7/2.6 | 159.28               | 37.17  | 196.45   | 18.2             | 734        | 0.1850                               | 6,980                         | 68,473  | 745                          | 3,000                    |
| 200                          | 30/2.9         | 7/2.9 | 198.16               | 46.24  | 244.40   | 20.3             | 912        | 0.1490                               | 8,680                         | 85,150  | 860                          | 3,000                    |
| 240                          | 30/3.2         | 7/3.2 | 241.27               | 56.30  | 297.57   | 22.4             | 1,111      | 0.1220                               | 10,170                        | 99,767  | 980                          | 2,000                    |
| 330                          | 26/4.0         | 7/3.1 | 326.73               | 52.83  | 379.56   | 25.3             | 1,320      | 0.0901                               | 10,940                        | 107,321 | 1,190                        | 2,000                    |
| 410                          | 26/4.5         | 7/3.5 | 413.51               | 67.35  | 480.86   | 28.5             | 1,674      | 0.0712                               | 13,900                        | 136,359 | 1,390                        | 1,500                    |
| 520                          | 54/3.5         | 7/3.5 | 519.54               | 67.35  | 586.89   | 31.5             | 1,969      | 0.0567                               | 15,590                        | 152,937 | 1,610                        | 1,500                    |
| 610                          | 54/3.8         | 7/3.8 | 612.42               | 79.39  | 691.81   | 34.2             | 2,321      | 0.0481                               | 18,380                        | 180,307 | 1,795                        | 1,000                    |
| 680                          | 54/4.0         | 7/4.0 | 678.58               | 87.96  | 766.54   | 36.0             | 2,572      | 0.0434                               | 19,790                        | 194,139 | 1,920                        | 1,000                    |
| 680                          | 45/4.4         | 7/2.9 | 684.24               | 46.24  | 730.48   | 35.1             | 2,260      | 0.0431                               | 15,590                        | 152,937 | 1,910                        | 1,000                    |
| 810                          | 45/4.8         | 7/3.2 | 814.30               | 56.30  | 870.60   | 38.4             | 2,700      | 0.0362                               | 18,460                        | 181,092 | 2,145                        | 1,000                    |
| 1,160                        | 84/4.2         | 7/4.2 | 1,163.77             | 96.98  | 1,260.75 | 46.2             | 3,997      | 0.0254                               | 27,870                        | 273,404 | 2,700                        | 500                      |
| 1,520                        | 84/4.8         | 7/4.8 | 1,520.03             | 126.67 | 1,646.70 | 52.8             | 5,221      | 0.0195                               | 36,410                        | 357,182 | 3,185                        | 500                      |

NOTE : \*) Continuous operating temperature of conductor = 80°C, Air temperature = 35°C, wind velocity = 0.6 m/sec





## CONVERSION TABLE

| Nominal cross sectional area |                  |                    | Wire gauge            |     |     |     |
|------------------------------|------------------|--------------------|-----------------------|-----|-----|-----|
| mm <sup>2</sup>              | Inc <sup>2</sup> | Circular Mils (CM) | Equivalent Metric CSA | AWG | BWG | SWG |
|                              | 0.0005           | 644                | 0.325                 | 22  | -   | -   |
|                              | 0.0006           | 487                | 0.397                 | -   | 22  | 22  |
|                              | 0.0006           | 821                | 0.416                 | 21  | -   | -   |
| 0.50                         | 0.0008           | 987                | -                     | -   | -   | -   |
|                              | 0.0008           | 1,021              | 0.517                 | 20  | -   | -   |
|                              | 0.0008           | 1,025              | 0.519                 | -   | 21  | 21  |
|                              | 0.0009           | 1,198              | 0.607                 | -   | 20  | -   |
|                              | 0.0010           | 1,289              | 0.653                 | 19  | -   | -   |
|                              | 0.0010           | 1,297              | 0.657                 | -   | -   | 20  |
|                              | 0.0013           | 1,601              | 0.811                 | -   | -   | 19  |
| 0.75                         | 0.0012           | 1,481              | -                     | -   | -   | -   |
|                              | 0.0013           | 1,625              | 0.823                 | 18  | -   | -   |
|                              | 0.0014           | 1,765              | 0.894                 | -   | 19  | -   |
| 1.0                          | 0.0016           | 1,974              | -                     | -   | -   | -   |
|                              | 0.0016           | 2,053              | 1.040                 | 17  | -   | -   |
|                              | 0.0016           | 2,304              | 1.167                 | -   | -   | 18  |
|                              | 0.0019           | 2,402              | 1.217                 | -   | 18  | -   |
|                              | 0.0020           | 2,584              | 1.309                 | 16  | -   | -   |
| 1.5                          | 0.0023           | 2,961              | -                     | -   | -   | -   |
|                              | 0.0025           | 3,137              | 1.589                 | -   | -   | 17  |
|                              | 0.0026           | 3,257              | 1.650                 | 15  | -   | -   |
|                              | 0.0026           | 3,366              | 1.705                 | -   | 17  | -   |
|                              | 0.0032           | 4,096              | 2.075                 | -   | -   | 16  |
|                              | 0.0032           | 4,108              | 2.081                 | 14  | -   | -   |
|                              | 0.0033           | 4,226              | 2.141                 | -   | 16  | -   |
| 2.5                          | 0.0039           | 4,935              | -                     | -   | -   | -   |
|                              | 0.0040           | 5,180              | 2.624                 | 13  | -   | -   |
|                              | 0.0040           | 5,186              | 2.627                 | -   | 15  | 15  |
|                              | 0.0050           | 6,402              | 3.243                 | -   | -   | 14  |
|                              | 0.0051           | 6,532              | 3.309                 | 12  | -   | -   |
|                              | 0.0054           | 6,891              | 3.491                 | -   | 14  | -   |
| 4                            | 0.0062           | 7,896              | -                     | -   | -   | -   |
|                              | 0.0065           | 8,236              | 4.172                 | 11  | -   | -   |
|                              | 0.0066           | 8,466              | 4.269                 | -   | -   | 13  |
|                              | 0.0071           | 9,072              | 4.573                 | -   | 13  | -   |
|                              | 0.0082           | 10,387             | 5.262                 | 10  | -   | -   |
|                              | 0.0085           | 10,819             | 5.481                 | -   | -   | 12  |
|                              | 0.0093           | 11,883             | 6.020                 | -   | 12  | -   |

| Nominal cross sectional area |                  |                    | Wire gauge            |     |     |     |
|------------------------------|------------------|--------------------|-----------------------|-----|-----|-----|
| mm <sup>2</sup>              | Inc <sup>2</sup> | Circular Mils (CM) | Equivalent Metric CSA | AWG | BWG | SWG |
|                              | 0.0290           | 36,874             | 18.68                 | -   | -   | 6   |
|                              | 0.0324           | 41,217             | 20.88                 | -   | 6   | -   |
|                              | 0.0326           | 41,750             | 21.15                 | 4   | -   | -   |
|                              | 0.0353           | 44,948             | 22.77                 | -   | -   | 5   |
|                              | 0.0380           | 48,402             | 24.52                 | -   | 5   | -   |
| 25                           | 0.0388           | 49,350             | -                     | -   | -   | -   |
|                              | 0.0413           | 52,627             | 26.66                 | 3   | -   | -   |
|                              | 0.0423           | 53,831             | 27.27                 | -   | -   | 4   |
|                              | 0.0445           | 56,654             | 28.70                 | -   | 4   | -   |
|                              | 0.0499           | 63,523             | 32.18                 | -   | -   | 3   |
|                              | 0.0521           | 66,386             | 33.63                 | 2   | -   | -   |
|                              | 0.0527           | 67,096             | 33.99                 | -   | 3   | -   |
| 35                           | 0.0543           | 69,090             | -                     | -   | -   | -   |
|                              | 0.0598           | 76,196             | 28.60                 | -   | -   | 2   |
|                              | 0.0633           | 80,677             | 40.87                 | -   | 2   | -   |
|                              | 0.0657           | 83,717             | 42.41                 | 1   | -   | -   |
|                              | 0.0707           | 90,014             | 45.60                 | -   | 1   | 1   |
| 50                           | 0.0775           | 98,700             | -                     | -   | -   | -   |
|                              | 0.0824           | 404,997            | 53.19                 | -   | -   | 1/0 |
|                              | 0.0829           | 105,589            | 53.49                 | 1/0 | -   | -   |
|                              | 0.0908           | 115,637            | 58.58                 | -   | 1/0 | -   |
|                              | 0.0951           | 121,125            | 61.36                 | -   | -   | 2/0 |
|                              | 0.1045           | 133,087            | 67.42                 | 2/0 | -   | -   |
| 70                           | 0.1085           | 138,180            | -                     | -   | -   | -   |
|                              | 0.1087           | 138,417            | 70.12                 | -   | -   | 3/0 |
|                              | 0.1134           | 144,438            | 73.17                 | -   | 2/0 | -   |
|                              | 0.1257           | 160,032            | 81.07                 | -   | -   | 4/0 |
|                              | 0.1318           | 167,849            | 85.03                 | 3/0 | -   | -   |
|                              | 0.1419           | 180,660            | 91.52                 | -   | 3/0 | -   |
|                              | 0.1466           | 186,661            | 94.56                 | -   | -   | 5/0 |
| 95                           | 0.1473           | 187,530            | -                     | -   | -   | -   |
|                              | 0.1616           | 206,086            | 104.40                | -   | 4/0 | -   |
|                              | 0.1691           | 211,613            | 107.20                | 4/0 | -   | -   |
|                              | 0.1860           | 215,363            | 109.10                | -   | -   | 6/0 |
| 120                          | 0.1860           | 236,880            | -                     | -   | -   | -   |
|                              | 0.1963           | 249,987            | 126.64                | -   | -   | -   |
|                              | 0.1964           | 250,106            | 126.70                | -   | 5/0 | 7/0 |
|                              | 0.2091           | 266,332            | 134.92                | 5/0 | -   | -   |

## CONVERSION TABLE

| Nominal cross sectional area |                  |                      | Wire gauge            |     |     |     | Nominal cross sectional area |                  |                      | Wire gauge            |     |     |     |
|------------------------------|------------------|----------------------|-----------------------|-----|-----|-----|------------------------------|------------------|----------------------|-----------------------|-----|-----|-----|
| mm <sup>2</sup>              | Inc <sup>2</sup> | Circular Mils ( CM ) | Equivalent Metric CSA | AWG | BWG | SWG | mm <sup>2</sup>              | Inc <sup>2</sup> | Circular Mils ( CM ) | Equivalent Metric CSA | AWG | BWG | SWG |
| 6                            | 0.0093           | 11,844               | -                     | -   | -   | -   | 150                          | 0.2325           | 296,100              | -                     | -   | -   | -   |
|                              | 0.0103           | 13,092               | 6.632                 | 9   | -   | -   |                              | 0.2356           | 300,048              | 152.00                | -   | -   | -   |
|                              | 0.0106           | 13,459               | 6.816                 | -   | -   | 11  |                              | 0.2642           | 336,488              | 170.46                | 6/0 | -   | -   |
|                              | 0.0113           | 14,404               | 7.297                 | -   | 11  | -   | 185                          | 0.2868           | 365,190              | -                     | -   | -   | -   |
|                              | 0.0129           | 16,388               | 8.302                 | -   | -   | 10  |                              | 0.3142           | 400,150              | 202.71                | -   | -   | -   |
| 10                           | 0.0130           | 16,518               | 8.368                 | 8   | -   | -   | 240                          | 0.3720           | 473,760              | -                     | -   | -   | -   |
|                              | 0.0141           | 17,959               | 9.098                 | -   | 10  | -   |                              | 0.3927           | 500,113              | 253.35                | -   | -   | -   |
|                              | 0.0155           | 19,740               | -                     | -   | -   | -   | 300                          | 0.4650           | 592,200              | -                     | -   | -   | -   |
|                              | 0.0163           | 20,766               | 10.520                | -   | -   | 9   |                              | 0.4712           | 600,096              | 304.00                | -   | -   | -   |
|                              | 0.0164           | 20,826               | 10.550                | 7   | -   | -   |                              | 0.5498           | 700,198              | 354.71                | -   | -   | -   |
|                              | 0.0172           | 21,911               | 11.100                | -   | 9   | -   | 400                          | 0.6200           | 789,600              | -                     | -   | -   | -   |
|                              | 0.0201           | 25,603               | 12.970                | -   | -   | 8   |                              | 0.6283           | 800,161              | 405.35                | -   | -   | -   |
|                              | 0.0206           | 26,254               | 13.300                | 6   | -   | -   | 500                          | 0.7750           | 987,000              | -                     | -   | -   | -   |
|                              | 0.0214           | 27,241               | 13.800                | -   | 8   | -   |                              | 0.7854           | 1,000,246            | 506.71                | -   | -   | -   |
|                              | 0.0243           | 30,992               | 15.700                | -   | -   | 7   | 625                          | 0.9688           | 1,233,750            | -                     | -   | -   | -   |
| 16                           | 0.0248           | 31,584               | -                     | -   | -   | -   | 630                          | 0.9765           | 1,243,620            | -                     | -   | -   | -   |
|                              | 0.0255           | 32,413               | 16.420                | -   | 7   | -   | 800                          | 1.2400           | 1,597,200            | -                     | -   | -   | -   |
|                              | 0.0260           | 33,104               | 16.770                | 5   | -   | -   | 1,000                        | 1.5500           | 1,974,000            | -                     | -   | -   | -   |

Note : • AWG = American Wire Gauge • BWG = Birmingham Wire Gauge • SWG = British Standard Wire Gauge