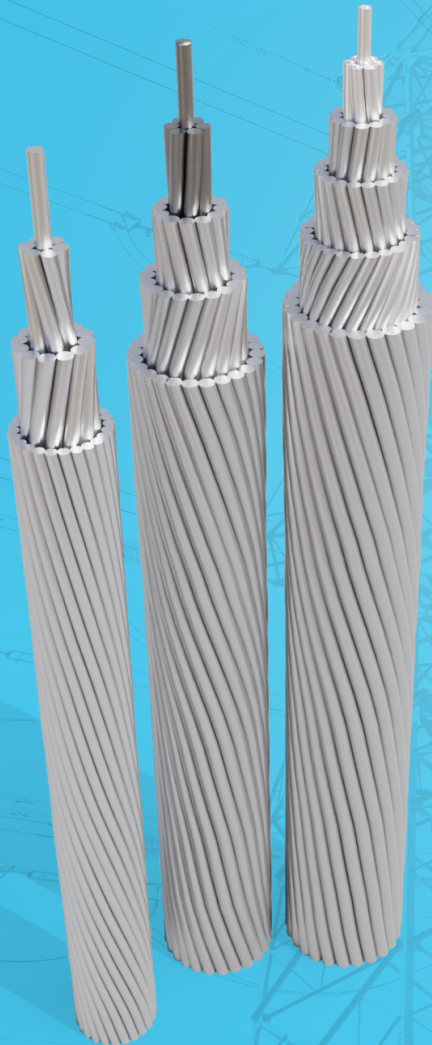


**PT SUPREME CABLE**

MANUFACTURING & COMMERCE Tbk

( PT SUCACO Tbk )



# Product Catalogue

# BARE CONDUCTOR

[www.sucaco.com](http://www.sucaco.com)



@supreme\_cable



@supreme\_cable

**QUALITY CABLE**  
**YOU CAN TRUST**

Scan For  
Catalogue





**SUPREME CABLE**

## **Company Background**

Specializing in the cable business for over 53 years, PT SUPREME CABLE MANUFACTURING & COMMERCE Tbk or abbreviated as PT SUCACO Tbk has grown steadily to become one of Indonesia's largest and leading cable manufacturers.

Today, PT SUCACO Tbk has grown to become a reliable partner in the cable industry. In addition, the Company is also a respected corporation with a healthy financial position that makes contribution in building national infrastructures with its international reputation.

The Company is also involved through its affiliated companies, in various line of business. The company has a Quality Assurance Program and ISO certificate from SGS international certification body, of ISO 9001 for quality management system, UKAS 0005 for Management System, ISO 14001 for environment management system, and ISO 45001 for occupational health and safety management system.

## TABLE OF CONTENT

| CONDUCTOR          | SIZE (mm <sup>2</sup> ) | STANDARD                        | PAGE  |
|--------------------|-------------------------|---------------------------------|-------|
| Company Background | ~                       | ~                               | II    |
| TABLE OF CONTENT   | ~                       | ~                               | III   |
| BCC-S              | 15~630                  | IEC 60228                       | 1     |
| BCC-H              | 6~500                   | SPLN 41~5                       | 2     |
| AS                 | 55~95                   | SPLN T3.001~3~1                 | 3     |
| AAC                | 16~1,000                | SPLN 41~6                       | 4     |
| AAC                | CODE NAME               | ASTM B 231                      | 5-7   |
| AAAC               | 16~1,000                | SPLN 41~8                       | 8     |
| AAAC               | 6 AWG ~ 1,750 MCM       | ASTM B 399                      | 9     |
| TAAAC (TAL)        | 150~1,260               | IEC 61089, IEC 62004            | 10    |
| ACSR/AS            | 16/2.5~ 265/35          | SPLN 41~7                       | 11    |
| ACSR               | CODE NAME               | SPLN 41-7                       | 12    |
| ACSR/AS (A1/SA1A)  | 250 & 450               | SPLN T3. 001~1                  | 13    |
| ACSR               | CODE NAME               | BS EN 50182                     | 14~15 |
| ACSR               | CODE NAME               | ASTM B 232                      | 16~20 |
| ACSR               | CODE NAME               | BS EN 50182                     | 21~22 |
| ACSR/AS            | CODE NAME               | ASTM B 549                      | 23~27 |
| ACSR/AS            | CODE NAME               | BS EN 50182, STM B502           | 28~30 |
| ACSR/AS            | CODE NAME               | BS EN 50182                     | 31    |
| TACSR/AS           | 58~1,520                | IEC 62004, IEC 61232, IEC 61089 | 32    |
| CONVERSION TABLE   | ~                       | ~                               | 33~34 |

## BCC-S IEC 60228

### Bare Copper Conductor Soft

Application : Used for grounding system

#### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Nominal Cross<br>Sectional<br>Area | No/Dia of Wire | Approximately       |            | DC Conductor<br>Resistance<br>at 20°C, Max | Standard<br>Delivery Length |
|------------------------------------|----------------|---------------------|------------|--------------------------------------------|-----------------------------|
|                                    |                | Overall<br>Diameter | Net Weight |                                            |                             |
| mm <sup>2</sup>                    | pcs/mm         | mm                  | Kg/Km      | Ω/Km                                       | m                           |
| 1.5                                | 1/1.35         | 1.35                | 13         | 12.1                                       | 5,000                       |
| 2.5                                | 1/1.74         | 1.74                | 21         | 7.41                                       | 3,000                       |
| 4                                  | 1/2.20         | 2.2                 | 34         | 4.61                                       | 3,000                       |
| 6                                  | 1/2.67         | 2.67                | 50         | 3.08                                       | 3,000                       |
| 10                                 | 1/3.47         | 3.47                | 84         | 1.83                                       | 2,000                       |
| 16                                 | 7/1.67         | 5.01                | 137        | 1.15                                       | 5,000                       |
| 25                                 | 7/2.10         | 6.30                | 217        | 0.727                                      | 5,000                       |
| 35                                 | 7/2.47         | 7.41                | 301        | 0.524                                      | 5,000                       |
| 50                                 | 19/1.74        | 8.7                 | 405        | 0.387                                      | 5,000                       |
| 70                                 | 19/2.10        | 10.50               | 590        | 0.268                                      | 5,000                       |
| 95                                 | 19/2.47        | 12.35               | 816        | 0.193                                      | 3,000                       |
| 120                                | 37/1.99        | 13.93               | 1,031      | 0.153                                      | 3,000                       |
| 150                                | 37/2.21        | 15.47               | 1,272      | 0.124                                      | 2,000                       |
| 185                                | 37/2.47        | 17.29               | 1,589      | 0.0991                                     | 2,000                       |
| 240                                | 61/2.21        | 19.89               | 2,097      | 0.0754                                     | 1,000                       |
| 300                                | 61/2.47        | 22.23               | 2,619      | 0.0601                                     | 1,000                       |
| 400                                | 61/2.79        | 25.11               | 3,342      | 0.0470                                     | 1,000                       |
| 500                                | 61/3.15        | 28.35               | 4,260      | 0.0366                                     | 1,000                       |
| 630                                | 91/2.98        | 32.78               | 5,688      | 0.0283                                     | 500                         |

## BCC-H SPLN 41-5

### Bare Copper Conductor Hard

Application : Used for grounding system

#### 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                      |

## AS

### SPLN T3.001-3-1

## Aluminium Clad Steel Wire (AS) Ground Conductor

Application : Used for overhead ground wire

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Kode | Tipe       | Cross<br>Sectional<br>Area | No/Dia of Wire | Approximately       |            | Max. DC<br>Conductor<br>Resistance<br>at 20°C | Min,<br>Calculated<br>Breaking Load |        | Standard<br>Delivery<br>Length |
|------|------------|----------------------------|----------------|---------------------|------------|-----------------------------------------------|-------------------------------------|--------|--------------------------------|
|      |            |                            |                | Overall<br>Diameter | Net Weight |                                               |                                     |        |                                |
|      |            | mm²                        | Pcs/mm         | mm                  | kg/km      |                                               | Ω/Km                                | Kgf    |                                |
| AS55 | 19-SA1A-7  | 55                         | 7/3.20         | 9,6                 | 376        | 1,5312                                        | 7,691                               | 75,43  | 2000/4000                      |
| AS75 | 25-SA1A-7  | 75                         | 7/3.69         | 11,08               | 501        | 1,1455                                        | 9,559                               | 93,75  | 2000/4000                      |
| AS95 | 31-SA1A-19 | 95                         | 19/2.50        | 12,50               | 626        | 0,924                                         | 12,744                              | 124,98 | 2000/4000                      |



## AAC SPLN 41-6 All Aluminium Conductor

Application : Used for overhead distribution line

### 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 |                                      | Kgf                           | N       |                              |                          |
| mm <sup>2</sup>              | pcs/mm         | mm               | Kg/Km      | Ω/Km                                 |                               |         | 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            | 2,019      | 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°, Air temperature = 35°, wind velocity = 0.6 m/sec

## AAC ASTM B 231 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             | 69         | 2.1710                               | 254                           | 2,491  | 90                           | 10,000                   |
| Rose       | 4                    | 21.14           | 7/1.96         | 5.88             | 96         | 1.3638                               | 404                           | 3,963  | 120                          | 10,000                   |
| Iris       | 2                    | 33.65           | 7/2.47         | 7.42             | 67         | 0.8568                               | 610                           | 5,984  | 160                          | 10,000                   |
| Pancy      | 1                    | 42.37           | 7/2.78         | 8.33             | 667        | 0.6804                               | 726                           | 7,122  | 185                          | 10,000                   |
| Poppy      | 1/0                  | 53.48           | 7/3.12         | 9.36             | 630        | 0.5391                               | 890                           | 8,730  | 215                          | 10,000                   |
| Aster      | 2/0                  | 67.35           | 7/3.50         | 10.50            | 557        | 0.4281                               | 1,121                         | 10,997 | 250                          | 5,000                    |
| Phlox      | 3/0                  | 85.00           | 7/3.93         | 11.80            | 490        | 0.3392                               | 1,373                         | 13,469 | 290                          | 5,000                    |
| Oxlip      | 4/0                  | 107.26          | 7/4.42         | 13.25            | 471        | 0.2688                               | 1,732                         | 16,900 | 335                          | 5,000                    |
| Valerian   | 250                  | 126.68          | 19/2.91        | 14.57            | 420        | 0.2277                               | 2,101                         | 20,610 | 370                          | 5,000                    |
| Sneezewort | 250                  | 126.68          | 7/4.80         | 14.40            | 374        | 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            | 350        | 0.2131                               | 2,185                         | 21,434 | 385                          | 5,000                    |
| Peony      | 300                  | 152.01          | 19/3.19        | 15.97            | 350        | 0.1895                               | 2,452                         | 24,054 | 420                          | 5,000                    |
| Tulip      | 336.4                | 170.46          | 19/3.38        | 16.91            | 296        | 0.1690                               | 2,750                         | 26,977 | 450                          | 5,000                    |
| Daffodil   | 350                  | 177.35          | 19/3.45        | 17.24            | 235        | 0.1626                               | 2,858                         | 28,036 | 460                          | 5,000                    |
| Canna      | 397.5                | 201.42          | 19/3.68        | 18.38            | 186        | 0.1431                               | 3,249                         | 31,872 | 500                          | 3,000                    |
| Goldentuft | 450                  | 228.02          | 19/3.91        | 19.55            | 148        | 0.1264                               | 3,567                         | 34,992 | 540                          | 3,000                    |
| Syringa    | 477                  | 241.70          | 37/2.88        | 20.18            | 117        | 0.1194                               | 3,922                         | 38,474 | 560                          | 3,000                    |
| Cosmos     | 477                  | 241.70          | 19/4.02        | 20.12            | 935        | 0.1194                               | 3,778                         | 37,062 | 580                          | 3,000                    |
| Hyacinth   | 500                  | 253.35          | 37/2.95        | 20.66            | 937        | 0.1139                               | 4,019                         | 39,426 | 575                          | 3,000                    |

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

## AAC ASTM B 231 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 |
|-------------|----------------------|-----------------|----------------|------------------|------------|--------------------------------------|-------------------------------|--------|------------------------------|--------------------------|
|             | AWG or MCM           | mm <sup>2</sup> |                | Overall Diameter | Net Weight |                                      | Kgf                           | N      |                              |                          |
| -           |                      |                 | pcs/mm         | mm               | Kg/Km      | Ω/Km                                 |                               |        | 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                  | 80.033          | 61/2.82        | 25.35            | 1,049      | 0.0758                               | 6,104                         | 59,88  | 745                          | 2,000                    |
| Petunia     | 750                  | 80.033          | 37/3.62        | 25.32            | 1,049      | 0.0758                               | 5,996                         | 58,82  | 745                          | 2,000                    |
| Lilac       | 795                  | 02.833          | 61/2.90        | 26.11            | 1,113      | 0.0715                               | 6,474                         | 63,509 | 770                          | 2,000                    |
| Arbutus     | 795                  | 02.834          | 37/3.72        | 26.07            | 1,112      | 0.0715                               | 6,356                         | 62,352 | 770                          | 2,000                    |
| Snapdragon  | 900                  | 56.044          | 61/3.09        | 27.77            | 1,259      | 0.0632                               | 7,117                         | 69,817 | 835                          | 2,000                    |
| Cockscomb   | 900                  | 56.044          | 37/3.96        | 27.73            | 1,259      | 0.0632                               | 6,982                         | 68,493 | 835                          | 2,000                    |
| Goldenrod   | 954                  | 83.404          | 61/3.18        | 28.60            | 1,336      | 0.0596                               | 7,547                         | 74,036 | 85                           | 2,000                    |
| Magnolia    | 954                  | 483.404         | 37/4.08        | 28.55            | 1,335      | 0.0596                               | 7,401                         | 72,603 | 865                          | 2,000                    |

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

## AAC ASTM B 231 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 |
|------------|----------------------|-----------------|----------------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|            | AWG or MCM           | mm <sup>2</sup> |                | Overall Diameter | Net Weight |                                      | Kgf                           | N       |                              |                          |
| -          |                      |                 | pcs/mm         | mm               | Kg/Km      | Ω/Km                                 |                               |         | 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                | 886.67          | 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°, Air temperature = 35°, wind velocity = 0.6 m/sec

## AAAC SPLN 41-8

### All Aluminium Alloy Conductor

Application : Used for overhead distribution line

#### 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 |                                       | Kgf                           | N       |                              |                          |
| mm <sup>2</sup>              | pcs/mm         | mm               | Kg/Km      | Ω/Km                                  |                               |         | 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                        | 20,564  | 760                          | 2,000                    |
| 500                          | 61/3.25        | 29.25            | 1,398      | 0.066                                 | 14,420                        | 41,460  | 835                          | 2,000                    |
| 630                          | 91/3.00        | 33.00            | 1,782      | 0.052                                 | 18,330                        | 79,817  | 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°, Air temperature = 35°, wind velocity = 0.6 m/sec

## AAAC ASTM B 399 All Aluminium Alloy Conductor

Application : Used for overhead distribution line

### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Nominal Cross<br>Sectional Area |                 | No/Dia of Wire | Approximately       |            | DC Conductor<br>Resistance at<br>20°C, Max | Calculated<br>Breaking Load,<br>Min |         | Current<br>Carrying<br>Capacity *) | Standard<br>Delivery<br>Length |
|---------------------------------|-----------------|----------------|---------------------|------------|--------------------------------------------|-------------------------------------|---------|------------------------------------|--------------------------------|
|                                 |                 |                | Overall<br>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                               | 94,47   | 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                              | 116,14  | 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°, Air temperature = 35°, wind velocity = 0.6 m/sec

## TAAAC (TAL)

IEC 61089, IEC 62004

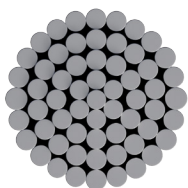
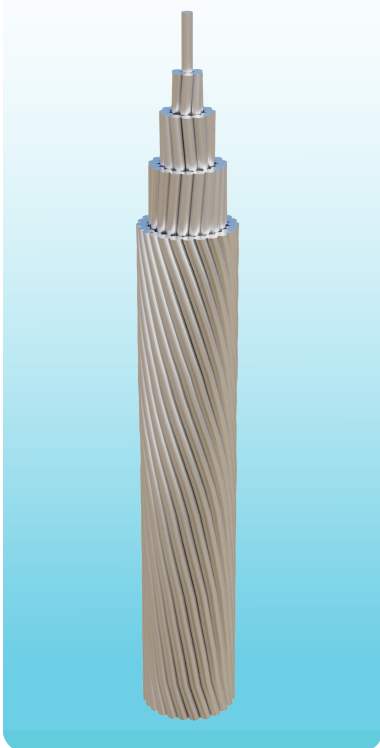
### Thermal Resistance Aluminium Alloy Conductor

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

#### 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 |                                      | Kgf                           | N       |                              |                          |
| mm <sup>2</sup>      | pcs/mm         | mm               | Kg/Km      | Ω/Km                                 |                               |         | 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                        | 1,000                    |
| 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 = 80°, Air temperature = 35°, wind velocity = 0.6 m/sec



## ACSR/AS SPLN 41-7

### Aluminium Conductor Steel Reinforced

Application : Used for overhead distribution and transmission line

#### 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                           | 5,95    | 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                               | 1,29                          | 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                          | 5,000                    |
| 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                        | 26/185         | 7/1.44  | 69.9                 | 11.4  | 81.3  | 11.7             | 284        | 0.4130                               | 2,732                         | 26,800  | 260                          | 3,000                    |
| 95/15                        | 26/2.25        | 7/1.67  | 94.4                 | 15.3  | 109.7 | 13.6             | 383        | 0.3053                               | 3,645                         | 35,750  | 315                          | 3,000                    |
| 95/55                        | 12/3.20        | 7/3.20  | 96.5                 | 56.3  | 152.3 | 16               | 723        | 0.2992                               | 8,089                         | 79,350  | 335                          | 5,000                    |
| 105/75                       | 14/3.10        | 9/2.25  | 105.7                | 75.5  | 181.5 | 17.5             | 908        | 0.2736                               | 11,056                        | 108,450 | 355                          | 3,000                    |
| 120/20                       | 26/2.44        | 7/1.901 | 121.6                | 19.8  | 141.4 | 15.5             | 494        | 0.2374                               | 4,654                         | 45,650  | 370                          | 3,000                    |
| 120/70                       | 12/3.60        | 7/3.60  | 122                  | 71.3  | 193.4 | 18               | 915        | 0.2364                               | 10,194                        | 100,00  | 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                       | 26/270         | 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                       | 26/3.210       | 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°, Air temperature = 35°, wind velocity = 0.6 m/sec

## ACSR SPLN 41-7

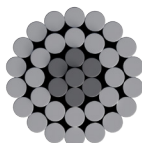
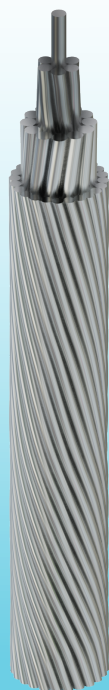
### Aluminium Conductor Steel Reinforced

Application : Used for overhead distribution and transmission line

#### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Nominal cross<br>Sectional<br>Area | No/Dia of Wire |         | Cross Sectional Area |       |         | Approximately       |            | DC Conductor<br>Resistance at<br>20°C, Max | Calculated<br>Breaking Load,<br>Min |         | Current<br>Carrying<br>Capacity *) | Standard<br>Delivery<br>Length |
|------------------------------------|----------------|---------|----------------------|-------|---------|---------------------|------------|--------------------------------------------|-------------------------------------|---------|------------------------------------|--------------------------------|
|                                    | Aluminium      | Steel   | Aluminium            | Steel | Total   | Overall<br>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                          |
| 340/50                             | 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                | 2,08       | 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                                    | 13,884c                             | 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°, Air temperature = 35°, wind velocity = 0.6 m/sec



## ACSR/AS (A1/SA1A)

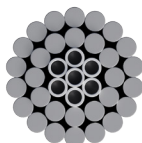
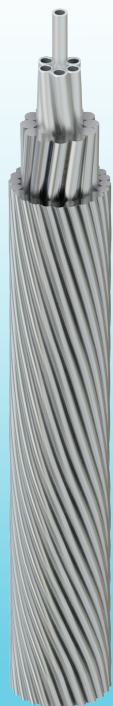
**SPLN T3. 001-1**

### Aluminium Conductor - Aluminium Clad Steel Reinforced

Application : Used for overhead distribution and transmission line

#### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Tipe             | Kuat Hantar Arus | 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 |          |      |               |            |                        |
|                  |                  |            | mm <sup>2</sup> |      |       | -            |      | mm             |      | mm       |      | kg/Km         | kN         | Ω/Km                   |
| 250-A1/SA1A-26/7 | 674              | 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 | 728              | 13,0       | 436             | 56,5 | 492   | 54           | 7    | 3,21           | 3,21 | 9,62     | 28,9 | 1578,2        | ≥139,72    | ≤0.0642                |



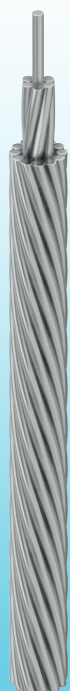
## ACSR BS EN 50182

### Aluminium Conductor Steel Reinforced

Application : Used for overhead distribution and transmission line

#### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code Name        | Old Code | Nominal<br>Cross<br>Sectional<br>Area | No/ Dia of Wire |         | Cross Sectional Area |       |                     | Approximately |      | DC Conductor<br>Resistance at<br>20°C, max | Calculated<br>Breaking Load, Min |         | Current<br>Carrying<br>Capacity *) | Standard<br>Delivery<br>Length |
|------------------|----------|---------------------------------------|-----------------|---------|----------------------|-------|---------------------|---------------|------|--------------------------------------------|----------------------------------|---------|------------------------------------|--------------------------------|
|                  |          |                                       | Aluminium       | Steel   | Aluminium            | Steel | Total               |               |      |                                            | Kgf                              | N       |                                    |                                |
|                  |          | -                                     | pcs/mm          | mm      |                      |       | Overall<br>diameter | Net<br>weight | Ω/Km |                                            |                                  |         | A                                  | m                              |
| 15-AL 1/3-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-AL 1/4-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-AL 1/6-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-AL 1/32-ST1A  | 44/32    | 44/32                                 | 24/2.40         | 7/2.40  | 44,0                 | 31,7  | 75,7                | 11,2          | 379  | 0,6573                                     | 4.384                            | 43.000  | 205                                | 5.000                          |
| 48-AL 1/30-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-AL 1/30-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-AL 1/11-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-AL 1/15-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-AL 1/56-ST1A  | 95/55    | 95/55                                 | 12/3.20         | 7/3.20  | 96,5                 | 56,3  | 152,3               | 16            | 723  | 0,2992                                     | 8.8089                           | 79.350  | 335                                | 3.000                          |
| 106-AL 1/76-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-AL 1/20-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-AL 1/71-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-AL 1/30-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-AL 1/30-ST1A | 150/25   | 150/25                                | 26/2.70         | 7/2.10  | 149,9                | 24,7  | 173,1               | 17,1          | 604  | 0,1939                                     | 5.633                            | 55.250  | 420                                | 3.000                          |
| 172-AL 1/40-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-AL 1/30-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-AL 1/34-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-AL 1/49-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-AL 1/30-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-AL 1/39-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-AL 1/34-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                          |



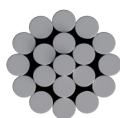
## ACSR BS EN 50182

### Aluminium Conductor Steel Reinforced

Application : Used for overhead distribution and transmission line

#### 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            |               |       |                                      | Kgf                           | N       |                              |                          |
|                  |          | -                            | pcs/mm          | mm      |                      |       | Overall Diameter | Net Weight    | Ω/Km  |                                      |                               |         |                              |                          |
| 304-AL 1/49-ST1A | 300/50   | 300/50                       | 26/3.86         | 7/3.00  | 304,3                | 49,5  | 353,8            | 24,4          | 1.234 | 0,9490                               | 10.908                        | 107.000 | 755                          | 2.000                    |
| 305-AL 1/39-ST1A | 305/40   | 305/40                       | 54/2.68         | 7/2.68  | 304,6                | 39,5  | 344,1            | 24,1          | 1.153 | 0,9490                               | 10.133                        | 99.400  | 750                          | 2.000                    |
| 339-AL 1/30-ST1A | 340/30   | 340/30                       | 48/3.00         | 7/2.33  | 339,3                | 29,8  | 369,1            | 25            | 1.169 | 0,8525                               | 9.470                         | 92.900  | 800                          | 2.000                    |
| 382-AL 1/49-ST1A | 380/50   | 380/50                       | 54/3.00         | 7/3.00  | 381,7                | 49,5  | 431,2            | 27            | 1.445 | 0,7573                               | 12.549                        | 123.100 | 865                          | 2.000                    |
| 386-AL 1/34-ST1A | 385/35   | 385/35                       | 48/3.20         | 7/2.49  | 386,0                | 34,1  | 420,1            | 26,7          | 1.331 | 0,07493                              | 10683                         | 104.800 | 870                          | 2.000                    |
| 434-AL 1/56-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                        | 135.450 | 940                          | 1.500                    |
| 449-AL 1/39-ST1A | 450/40   | 450/40                       | 48/3.45         | 7/3.68  | 448,7                | 39,5  | 488,2            | 28,7          | 1.546 | 0,06446                              | 12.309                        | 120.750 | 955                          | 1.500                    |
| 490-AL 1/64-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-AL 1/71-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                        | 170.600 | 1.090                        | 1.500                    |
| 562-AL 1/49-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-AL 1/86-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                    |



## ACSR ASTM B 232

### 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           | 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                         | 76,88   | 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        | 9/2.48  | 18.14            | 1,006      | 0.2813                               | 12,92                         | 126,745 | 355                          | 2,000                    |
| Cochin    | 211.3                | 107.10 | 62.47 | 169.57 | 12/3.37        | 7/3.371 | 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°, Air temperature = 35°, wind velocity = 0.6 m/sec

## ACSR ASTM B 232

### 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           | 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                         | 77,43   | 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                               | 10,74                         | 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°, Air temperature = 35°, wind velocity = 0.6 m/sec

## ACSR ASTM B 232

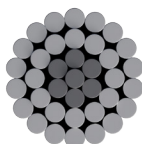
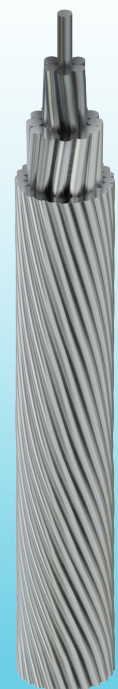
### Aluminium Conductor Steel Reinforced

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           | mm <sup>2</sup> |       |        | pcs/mm         |         | mm               | Kg/Km      | Ω/Km                                 |                               |         | 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°, Air temperature = 35°, wind velocity = 0.6 m/sec



## ACSR ASTM B 232

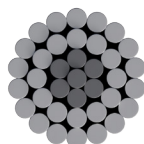
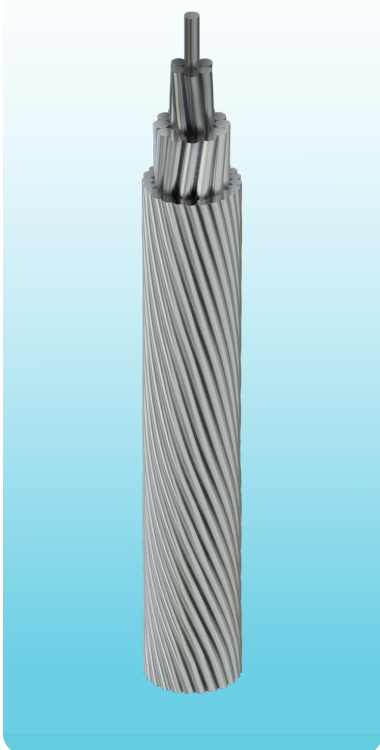
### Aluminium Conductor Steel Reinforced

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 | 44.95  | 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                              | 9,92                          | 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                              | 19,678                        | 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                              | 12,54                         | 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°, Air temperature = 35°, wind velocity = 0.6 m/sec



## ACSR ASTM B 232

### 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                        |
| 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                      |

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



## ACSR BS EN 50182

### Aluminium Conductor Steel Reinforced

Application : Used for overhead distribution and transmission line

#### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code            | Old Code | Areas           |       |       | No. of Wire |       | Wire diameter |       | Diameter |      | Mass per unit lenght | Rated Strenght | DC resistance |
|-----------------|----------|-----------------|-------|-------|-------------|-------|---------------|-------|----------|------|----------------------|----------------|---------------|
|                 |          | Al              | Steel | Total |             |       | Al            | Steel | Core     | Cond |                      |                |               |
|                 |          | 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             | 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              | 12,5  | 87,5  | 6           | 1     | 3,99          | 3,99  | 3,99     | 12,0 | 302,9                | 25,76          | 0,3820        |

## ACSR BS EN 50182

### Aluminium Conductor Steel Reinforced

Application : Used for overhead distribution and transmission line

#### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code             | Old Code | Areas           |       |       | No. of Wire |       | Wire Diameter |       | Diameter |      | Mass per Unit Length | Rated Strength | DC Resistance |
|------------------|----------|-----------------|-------|-------|-------------|-------|---------------|-------|----------|------|----------------------|----------------|---------------|
|                  |          | Al              | Steel | Total |             |       | Al            | Steel | Core     | Cond |                      |                |               |
|                  |          | mm <sup>2</sup> |       |       | Al          | Steel | mm            | mm    | mm       | mm   | Kg/km                | kN             | Ω/km          |
| 79-AL1/13-ST1A   | Racoon   | 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    | 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             | 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             | 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        |

## ACSR/AS ASTM B 549

### Aluminium Conductor-Aluminium Clad 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            |        | 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                    |
| Duorking  | 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                        | 87,22   | 390                          | 3,000                    |
| Turkey    | 6                    | 13.28  | 2.21    | 15.49  | 6/1.68         | 1/1.68  | 5.03             | 52         | 20.428                               | 515                          | 5,052   | 95                           | 10,000                   |
| Swan      | 4                    | 21.14  | 3.52    | 24.66  | 6/2.12         | 1/2.12  | 6.35             | 82         | 12.874                               | 808                          | 7,926   | 125                          | 10,000                   |
| Swanate   | 4                    | 21.14  | 5.37    | 26.51  | 7/1.96         | 1/2.61  | 6.54             | 94         | 12.513                               | 1,037                        | 110     | 130                          | 10,000                   |
| Sparrow   | 2                    | 33.64  | 5.61    | 39.25  | 6/2.67         | 1/2.67  | 8.02             | 130        | 0.8083                               | 1,255                        | 712     | 170                          | 10,000                   |
| Sparate   | 2                    | 33.65  | 8.55    | 42.20  | 7/2.47         | 1/3.30  | 8.25             | 149        | 0.7844                               | 1,591                        | 15,6    | 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                   |
| Ravel     | 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°, Air temperature = 35°, wind velocity = 0.6 m/sec



## ACSR/AS ASTM B 549

### Aluminium Conductor-Aluminium Clad 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            | AS Wire         | Total | Aluminium      | AS Wire | Overall Diameter | Net Weight |                                      | Kgf                          | N       |                              |                          |
| -         | AWG or MCM           | mm <sup>2</sup> |       | pcs/mm         |         | mm               | Kg/Km      | Ω/Km                                 |                              |         | A                            | m                        |
| Pigeon    | 3/0                  | 85.00           | 14.17 | 99.17          | 6/4.25  | 1/4.25           | 12.74      | 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      | 0.2533                               | 3,48                         | 34,138  | 350                          | 5,000                    |
| Waxwing   | 266.8                | 135.10          | 7.50  | 142.60         | 18/3.09 | 1/3.09           | 15.46      | 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      | 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      | 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      | 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      | 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      | 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      | 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      | 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      | 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      | 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      | 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      | 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      | 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      | 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      | 0.1004                               | 5,993                        | 58,791  | 625                          | 3,000                    |

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

## ACSR/AS ASTM B 549

### Aluminium Conductor-Aluminium Clad 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            | 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                        |
| 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     | 556.6                | 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     | 556.6                | 281.90          | 65.78 | 347.68 | 30/3.46        | 97/3.46 | 24.21            | 1,219      | 0.0954                               | 12,088                       | 118,583 | 655                          | 2,000                    |
| Peacock   | 605                  | 306.70          | 39.78 | 346.48 | 24/4.03        | 7/2.6   | 24.21            | 1,114      | 0.0905                               | 9,493                        | 93,126  | 675                          | 2,000                    |
| Squab     | 605                  | 306.30          | 49.88 | 356.18 | 26/3.87        | 17/3.01 | 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        | 7/3.6   | 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                               | 9,97                         | 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                               | 1,233                        | 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                               | 13,381                       | 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°, Air temperature = 35°, wind velocity = 0.6 m/sec

## ACSR/AS ASTM B 549

### Aluminium Conductor-Aluminium Clad 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 Lenght |
|-----------|----------------------|-------|---------|--------|----------------|---------|------------------|------------|--------------------------------------|-------------------------------|---------|------------------------------|--------------------------|
|           | Aluminium            |       | AS Wire | Total  | Aluminium      | AS Wire | Overall Diameter | Net Weight |                                      | Kgn                           | 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        | 9/2.35  | 27.45            | 1,555      | 0.07437                              | 15,107                        | 148,199 | 770                          | 1,500                    |
| Cuckao    | 795                  | 402.9 | 52.19   | 455.09 | 24/4.62        | 7/3.51  | 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        | 7/3.38  | 26.42            | 1,185      | 0.07092                              | 7,372                         | 72,319  | 780                          | 2,000                    |
| Tern      | 795                  | 402.8 | 27.83   | 430.63 | 45/3.38        | 7/3.28  | 27.01            | 1,301      | 0.07027                              | 9,637                         | 94,538  | 785                          | 2,000                    |
| Condor    | 795                  | 402.6 | 52.19   | 454.79 | 54/3.08        | 7/3.081 | 27.73            | 1,462      | 0.06892                              | 12,509                        | 122,713 | 800                          | 2,000                    |
| Mallard   | 795                  | 402.9 | 91.93   | 494.83 | 30/4.14        | 7/3.08  | 28.95            | 1,730      | 0.06689                              | 16,813                        | 164,935 | 820                          | 1,500                    |
| Ruddy     | 900                  | 456   | 31.54   | 487.54 | 45/3.59        | 7/2.66  | 28.74            | 1,473      | 0.06207                              | 10,914                        | 107,066 | 850                          | 1,500                    |
| Canary    | 900                  | 456   | 59.11   | 515.11 | 54/3.28        | 7/2.57  | 29.51            | 1,656      | 0.06085                              | 13,971                        | 137,055 | 865                          | 1,500                    |
| Catbird   | 954                  | 483.4 | 13.43   | 496.83 | 36/4.14        | 7/2.47  | 28.95            | 1,423      | 0.05908                              | 8,803                         | 86,357  | 870                          | 2,000                    |
| Rail      | 954                  | 483.3 | 33.43   | 516.73 | 45/3.70        | 7/2.40  | 29.59            | 1,562      | 0.05857                              | 11,567                        | 113,472 | 880                          | 1,500                    |
| Cardinal  | 954                  | 483.4 | 62.66   | 546.06 | 54/3.38        | 7/2.25  | 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        | 19/2.48 | 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        | 19/2.19 | 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        | 1/4.30  | 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        | 1/4.14  | 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        | 1/3.77  | 32.83            | 2,046      | 0.04947                              | 17,071                        | 167,466 | 980                          | 1,000                    |

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

## ACSR/AS ASTM B 549

### Aluminium Conductor-Aluminium Clad 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 Lenght |       |
|-----------|----------------------|----------|---------|----------------|-----------|---------------|------------------|--------------------------------------|-------------------------------|--------|------------------------------|--------------------------|-------|
|           | Aluminium            |          | AS Wire | Total          | Aluminium | AS Wire       | Overall Diameter |                                      | Net Weight                    | Kgn    |                              |                          | N     |
| -         | AWG or MCM           | mm²      |         | pcs/mm         |           | mm            | Kg/Km            | Ω/Km                                 |                               |        | 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                | 24.60    | 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                | 725.207  | 91.85   | 817.05         | 54/4.14   | 19/2.48       | 37.22            | 2,62                                 | 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   | 1,59                 | 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    | 1,59                 | 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    | 1,78                 | 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                       | 22,22  | 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°, Air temperature = 35°, wind velocity = 0.6 m/sec

## ACSR/AS

**BS EN 50182, ASTM B502**

### Aluminium Conductor-Aluminium Clad Steel Reinforced

Application : Used for overhead distribution and transmission line

#### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code            | Code Name | Cross Section Area |       |       | No. of Wire |         | Approximately    |            | DC Conductor Resistance at 20°C, Max | Rated Strenght | Current Carrying Capacity *) | Standard Delivery Lenght |
|-----------------|-----------|--------------------|-------|-------|-------------|---------|------------------|------------|--------------------------------------|----------------|------------------------------|--------------------------|
|                 |           | Al                 | Steel | Total |             |         | Overall Diameter | Net Weight |                                      |                |                              |                          |
| -               | -         | mm <sup>2</sup>    |       |       | Aluminium   | AS Wire | 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                    |

## ACSR/AS

**BS EN 50182, ASTM B502**

### Aluminium Conductor-Aluminium Clad Steel Reinforced

Application : Used for overhead distribution and transmission line

#### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code             | Code Name |                 |       |       | No/ Dia of Wire |         | Approximately    |            | DC Conductor Resistance at 20°C, Max | Rated Strenght | Current Carrying Capacity *) | Standard Delivery Lenght |
|------------------|-----------|-----------------|-------|-------|-----------------|---------|------------------|------------|--------------------------------------|----------------|------------------------------|--------------------------|
|                  |           | 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-AL1/20-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                               | 111,5          | 633                          | 2.000                    |
| 324-AL1/76-ST1A  | Goat      | 324,3           | 75,7  | 400,0 | 30/3.71         | 7/3.71  | 26               | 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      | 0,0714                               | 256,3          | 790                          | 2.000                    |
| 382-AL1/49-ST1A  | Bison     | 381,7           | 49,5  | 431,2 | 54/3.00         | 7/3.00  | 27               | 1.383      | 0,07254                              | 121,3          | 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            | 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                              | 146,4          | 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                              | 198,8          | 924                          | 2.500                    |
| 528-AL1/69-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                    |

## ACSR/AS

**BS EN 50182, ASTM B502**

### Aluminium Conductor-Aluminium Clad Steel Reinforced

Application : Used for overhead distribution and transmission line

#### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code            | Code Name | 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 |               |                                      |                               |                              |                          |
| -               | -         | pcs/mm          |         | mm <sup>2</sup>      |         |       | 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                        | 105                          | 10.000                   |
| 24-AL/4-ST1A    | 25/4      | 6/2.25          | 1/2.25  | 23,9                 | 3,98    | 27,8  | 6,75          | 96,3                                 | 1,2012                        | 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                        | 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                        | -                            | 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                        | 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                        | -                            | 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                        | 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                         | 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                        | -                            | 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                        | -                            | 3.000                    |
| 122-AL1/20-ST1A | 120/20    | 26/2.44         | 7/1.90  | 212,6                | 19,8    | 241,4 | 15,5          | 491,0                                | 0,2376                        | 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                        | -                            | 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                        | 425                          | 5.000                    |
| 149-AL1/24-ST1A | 150/25    | 26/2.70         | 7/2.10  |                      | 24,2    | 173,1 | 17,1          | 600,8                                | 0,1940                        | 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                        | 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                        | 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                        | 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                        | 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                        | 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                        | 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                        | 680                          | 3.000                    |



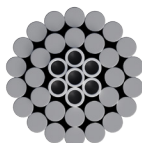
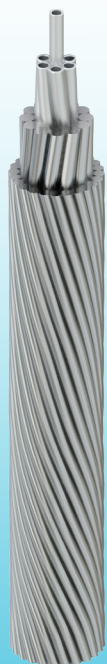
## ACSR/AS BS EN 50182

### Aluminium Conductor-Aluminium Clad Steel Reinforced

Application : Used for overhead distribution and transmission line

#### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Code             | Nominal Cross Section Area | No/Dia of Wire  |         | Cross Section Area |         |         | Approximately    |            | DC Conductor Resistance at 20°C, Max | Rated Strenght | Current Carrying Capacity *) | Standard Delivery Lenght |
|------------------|----------------------------|-----------------|---------|--------------------|---------|---------|------------------|------------|--------------------------------------|----------------|------------------------------|--------------------------|
|                  |                            | Aluminium       | AS Wire | Aluminium          | AS Wire | Total   | Overall diameter | Net Weight |                                      |                |                              |                          |
| -                | -                          | 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                      |



## TACSR/AS

IEC 62004, IEC 61232, IEC 61089

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

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

#### DIMENSIONAL & MECHANICAL/ELECTRICAL DATA

| Nominal Cross Section 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                                 |                               |         | 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   | 12.0             | 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             | 1,236      | 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                        | 50                       |

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



SUPREME CABLE

## CONVERSION TABLE

## BARE CONDUCTOR

| 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  | -   | -   |
| 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  |
| 4                            | 0.0051           | 6,532              | 3.309                 | 12  | -   | -   |
|                              | 0.0054           | 6,891              | 3.491                 | -   | 14  | -   |
|                              | 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 |
|                              | 0.0005           | 644                | 0.325                 | 22  | -   | -   |
|                              | 0.0006           | 487                | 0.397                 | -   | 22  | 22  |
|                              | 0.0006           | 821                | 0.416                 | 21  | -   | -   |
| 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  |
| 4                            | 0.0051           | 6,532              | 3.309                 | 12  | -   | -   |
|                              | 0.0054           | 6,891              | 3.491                 | -   | 14  | -   |
|                              | 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  | -   |



## 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 |
| 6                            | 0.0093           | 11,844             | -                     | -   | -   | -   |
|                              | 0.0103           | 13,092             | 6.632                 | 9   | -   | -   |
|                              | 0.0106           | 13,459             | 6.816                 | -   | -   | 11  |
|                              | 0.0113           | 14,404             | 7.297                 | -   | 11  | -   |
|                              | 0.0129           | 16,388             | 8.302                 | -   | -   | 10  |
| 10                           | 0.0130           | 16,518             | 8.368                 | 8   | -   | -   |
|                              | 0.0141           | 17,959             | 9.098                 | -   | 10  | -   |
|                              | 0.0155           | 19,740             | -                     | -   | -   | -   |
|                              | 0.0163           | 20,766             | 10.520                | -   | -   | 9   |
|                              | 0.0164           | 20,826             | 10.550                | 7   | -   | -   |
| 16                           | 0.0172           | 21,911             | 11.100                | -   | 9   | -   |
|                              | 0.0201           | 25,603             | 12.970                | -   | -   | 8   |
|                              | 0.0206           | 26,254             | 13.300                | 6   | -   | -   |
|                              | 0.0214           | 27,241             | 13.800                | -   | 8   | -   |
|                              | 0.0243           | 30,992             | 15.700                | -   | -   | 7   |
| 16                           | 0.0248           | 31,584             | -                     | -   | -   | -   |
|                              | 0.0255           | 32,413             | 16.420                | -   | 7   | -   |
|                              | 0.0260           | 33,104             | 16.770                | 5   | -   | -   |

| Nominal Cross Sectional Area |                  |                    | Wire Gauge            |     |     |     |
|------------------------------|------------------|--------------------|-----------------------|-----|-----|-----|
| mm <sup>2</sup>              | Inc <sup>2</sup> | Circular Mils (CM) | Equivalent Metric CSA | AWG | BWG | SWG |
| 150                          | 0.2325           | 296,100            | -                     | -   | -   | -   |
| -                            | 0.2356           | 300,048            | 152.00                | -   | -   | -   |
| -                            | 0.2642           | 336,488            | 170.46                | 6/0 | -   | -   |
| 185                          | 0.2868           | 365,190            | -                     | -   | -   | -   |
| -                            | 0.3142           | 400,150            | 202.71                | -   | -   | -   |
| 240                          | 0.3720           | 473,760            | -                     | -   | -   | -   |
| -                            | 0.3927           | 500,113            | 253.35                | -   | -   | -   |
| 300                          | 0.4650           | 592,200            | -                     | -   | -   | -   |
| -                            | 0.4712           | 600,096            | 304.00                | -   | -   | -   |
| -                            | 0.5498           | 700,198            | 354.71                | -   | -   | -   |
| 400                          | 0.6200           | 789,600            | -                     | -   | -   | -   |
| -                            | 0.6283           | 800,161            | 405.35                | -   | -   | -   |
| 500                          | 0.7750           | 987,000            | -                     | -   | -   | -   |
| -                            | 0.7854           | 1,000,246          | 506.71                | -   | -   | -   |
| 625                          | 0.9688           | 1,233,750          | -                     | -   | -   | -   |
| 630                          | 0.9765           | 1,243,620          | -                     | -   | -   | -   |
| 800                          | 1.2400           | 1,597,200          | -                     | -   | -   | -   |
| 1,000                        | 1.5500           | 1,974,000          | -                     | -   | -   | -   |