



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**ACSR/AW**

Standard: **ASTM**

| Code name          | AL/No | Al wire diameter (mm) | St/No | St wire diameter (mm) | Overall diameter (mm) | Cross section (mm <sup>2</sup> ) | Linear weight (kg/km) | Breaking load (kgf) | Rdc (ohm/km) | Rac (ohm/km): | Rac (ohm/km): | Ampacity at Min tem. A ** | Ampacity at Max tem. A ** |
|--------------------|-------|-----------------------|-------|-----------------------|-----------------------|----------------------------------|-----------------------|---------------------|--------------|---------------|---------------|---------------------------|---------------------------|
|                    |       |                       |       |                       |                       |                                  |                       |                     | 20degree C   | 25degree C    | 75degree C    |                           |                           |
| <b>SWALLOW/AW</b>  | 6     | 2.38                  | 1     | 2.38                  | 7.14                  | 31.14                            | 103                   | 1031                | 1.01744      | 1.03795       | 1.24296       | 153                       | 128                       |
| <b>GROUSE/AW</b>   | 8     | 2.54                  | 1     | 4.24                  | 9.322                 | 54.67                            | 205                   | 2254                | 0.63587      | 0.64911       | 0.77733       | 212                       | 177                       |
| <b>PATREL/AW</b>   | 12    | 2.34                  | 7     | 2.34                  | 11.695                | 81.64                            | 342                   | 4486                | 0.46883      | 0.55773       | 0.66789       | 266                       | 223                       |
| <b>MINORCA/AW</b>  | 12    | 2.44                  | 7     | 2.44                  | 12.205                | 88.91                            | 372                   | 4885                | 0.43047      | 0.51237       | 0.61357       | 281                       | 236                       |
| <b>LEGHORN/AW</b>  | 12    | 2.69                  | 7     | 2.69                  | 13.45                 | 107.98                           | 452                   | 5899                | 0.35446      | 0.42229       | 0.50570       | 320                       | 268                       |
| <b>GUINEA/AW</b>   | 12    | 2.92                  | 7     | 2.92                  | 14.62                 | 127.58                           | 534                   | 6931                | 0.30000      | 0.35740       | 0.42800       | 357                       | 300                       |
| <b>DOTTEREL/AW</b> | 12    | 3.08                  | 7     | 3.08                  | 15.42                 | 141.93                           | 594                   | 7666                | 0.26968      | 0.32169       | 0.38523       | 384                       | 322                       |
| <b>DORKING/AW</b>  | 12    | 3.20                  | 7     | 3.20                  | 16.015                | 153.09                           | 641                   | 8269                | 0.25001      | 0.29823       | 0.35714       | 403                       | 338                       |



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**ACSR/AW**

Standard: **ASTM**

| Code name         | AL/No | Al wire diameter (mm) | St/No | St wire diameter (mm) | Overall diameter (mm) | Cross section (mm <sup>2</sup> ) | Linear weight (kg/km) | Breaking load (kgf) | Rdc (ohm/km) | Rac (ohm/km): | Rac (ohm/km): | Ampacity at Min tem. A ** | Ampacity at Max tem. A ** |
|-------------------|-------|-----------------------|-------|-----------------------|-----------------------|----------------------------------|-----------------------|---------------------|--------------|---------------|---------------|---------------------------|---------------------------|
|                   |       |                       |       |                       |                       |                                  |                       |                     | 20degree C   | 25degree C    | 75degree C    | 25                        | 40                        |
| <b>BRAHMA/AW</b>  | 16    | 2.86                  | 19    | 2.48                  | 18.136                | 194.93                           | 895                   | 12280               | 0.21585      | 0.28388       | 0.33995       | 452                       | 380                       |
| <b>COCHIN/AW</b>  | 12    | 3.37                  | 7     | 3.37                  | 16.855                | 169.57                           | 710                   | 8896                | 0.22571      | 0.26925       | 0.32243       | 432                       | 362                       |
| <b>TURKEY/AW</b>  | 6     | 1.68                  | 1     | 1.68                  | 5.037                 | 15.50                            | 51                    | 526                 | 2.04439      | 2.08566       | 2.49762       | 96                        | 81                        |
| <b>SWAN/AW</b>    | 6     | 2.12                  | 1     | 2.12                  | 6.354                 | 24.66                            | 81                    | 827                 | 1.28473      | 1.31079       | 1.56970       | 131                       | 110                       |
| <b>SWANATE/AW</b> | 7     | 1.96                  | 1     | 2.61                  | 6.536                 | 26.51                            | 93                    | 1064                | 1.24970      | 1.27504       | 1.52689       | 134                       | 113                       |
| <b>SPARROW/AW</b> | 6     | 2.67                  | 1     | 2.67                  | 8.016                 | 39.25                            | 129                   | 1283                | 0.80722      | 0.82375       | 0.98645       | 179                       | 150                       |
| <b>SPARATE/AW</b> | 7     | 2.47                  | 1     | 3.30                  | 8.247                 | 42.20                            | 149                   | 1631                | 0.78512      | 0.80120       | 0.95945       | 183                       | 153                       |
| <b>ROBIN/AW</b>   | 6     | 3.00                  | 1     | 3.00                  | 9                     | 49.48                            | 163                   | 1596                | 0.64036      | 0.65370       | 0.78282       | 208                       | 175                       |



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**ACSR/AW**

Standard: **ASTM**

| Code name           | AL/No | Al wire diameter (mm) | St/No | St wire diameter (mm) | Overall diameter (mm) | Cross section (mm <sup>2</sup> ) | Linear weight (kg/km) | Breaking load (kgf) | Rdc (ohm/km) | Rac (ohm/km): | Rac (ohm/km): | Ampacity at Min tem. A ** | Ampacity at Max tem. A ** |
|---------------------|-------|-----------------------|-------|-----------------------|-----------------------|----------------------------------|-----------------------|---------------------|--------------|---------------|---------------|---------------------------|---------------------------|
|                     |       |                       |       |                       |                       |                                  |                       |                     | 20degree C   | 25degree C    | 75degree C    | 25                        | 40                        |
| <b>RAVEN/AW</b>     | 6     | 3.37                  | 1     | 3.37                  | 10.113                | 62.47                            | 206                   | 891                 | 0.50716      | 0.51773       | 0.61999       | 243                       | 204                       |
| <b>QUAIL/AW</b>     | 6     | 3.78                  | 1     | 3.78                  | 11.346                | 78.64                            | 259                   | 2353                | 0.40292      | 0.41154       | 0.49283       | 283                       | 238                       |
| <b>PIGEON/AW</b>    | 6     | 4.25                  | 1     | 4.25                  | 12.741                | 99.16                            | 327                   | 2916                | 0.31952      | 0.32665       | 0.39117       | 331                       | 277                       |
| <b>PENGUIN/AW</b>   | 6     | 4.77                  | 1     | 4.77                  | 14.31                 | 125.09                           | 412                   | 3555                | 0.25330      | 0.25928       | 0.31049       | 386                       | 323                       |
| <b>WAXWING/AW</b>   | 18    | 3.09                  | 1     | 3.09                  | 15.455                | 142.57                           | 422                   | 3101                | 0.20950      | 0.21483       | 0.25726       | 435                       | 364                       |
| <b>PARTRIDGE/AW</b> | 26    | 2.57                  | 7     | 2.00                  | 16.28                 | 156.86                           | 519                   | 4899                | 0.20352      | 0.21854       | 0.26170       | 449                       | 376                       |
| <b>OSTRICH/AW</b>   | 26    | 2.73                  | 7     | 2.12                  | 17.275                | 176.70                           | 585                   | 5515                | 0.18064      | 0.19442       | 0.23282       | 485                       | 407                       |
| <b>MERLIN/AW</b>    | 18    | 3.47                  | 1     | 3.47                  | 17.36                 | 179.88                           | 533                   | 3880                | 0.16604      | 0.17067       | 0.20438       | 507                       | 425                       |



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**ACSR/AW**

Standard: **ASTM**

| Code name           | AL/No | Al wire diameter (mm) | St/No | St wire diameter (mm) | Overall diameter (mm) | Cross section (mm <sup>2</sup> ) | Linear weight (kg/km) | Breaking load (kgf) | Rdc (ohm/km) | Rac (ohm/km): | Rac (ohm/km): | Ampacity at Min tem. A ** | Ampacity at Max tem. A ** |
|---------------------|-------|-----------------------|-------|-----------------------|-----------------------|----------------------------------|-----------------------|---------------------|--------------|---------------|---------------|---------------------------|---------------------------|
|                     |       |                       |       |                       |                       |                                  |                       |                     | 20degree C   | 25degree C    | 75degree C    | 25                        | 40                        |
| <b>LINNE/AW</b>     | 26    | 2.89                  | 7     | 2.25                  | 18.287                | 198.02                           | 656                   | 6099                | 0.16119      | 0.17348       | 0.20774       | 524                       | 439                       |
| <b>ORIOLE/AW</b>    | 30    | 2.69                  | 7     | 2.69                  | 18.83                 | 210.27                           | 737                   | 7608                | 0.15779      | 0.17312       | 0.20731       | 535                       | 448                       |
| <b>CHICKADEE/AW</b> | 18    | 3.77                  | 1     | 3.77                  | 26.418                | 212.54                           | 629                   | 4410                | 0.14053      | 0.14490       | 0.17352       | 635                       | 533                       |
| <b>BRAN/AW</b>      | 24    | 3.27                  | 7     | 2.18                  | 19.613                | 227.53                           | 731                   | 6330                | 0.13776      | 0.14737       | 0.17648       | 579                       | 486                       |
| <b>IBIS/AW</b>      | 26    | 3.14                  | 7     | 2.44                  | 19.879                | 233.96                           | 775                   | 7112                | 0.13643      | 0.14730       | 0.17639       | 585                       | 490                       |
| <b>LARK/AW</b>      | 30    | 2.92                  | 7     | 2.92                  | 20.468                | 248.45                           | 871                   | 8894                | 0.13354      | 0.14697       | 0.17600       | 597                       | 501                       |
| <b>PELICAN/AW</b>   | 18    | 4.14                  | 1     | 4.14                  | 20.675                | 255.14                           | 755                   | 5246                | 0.11706      | 0.12118       | 0.14511       | 638                       | 535                       |
| <b>FLICKER/AW</b>   | 24    | 3.58                  | 7     | 2.39                  | 21.488                | 273.06                           | 878                   | 7600                | 0.11479      | 0.12329       | 0.14765       | 653                       | 547                       |



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**ACSR/AW**

Standard: **ASTM**

| Code name         | AL/No | Al wire diameter (mm) | St/No | St wire diameter (mm) | Overall diameter (mm) | Cross section (mm <sup>2</sup> ) | Linear weight (kg/km) | Breaking load (kgf) | Rdc (ohm/km) | Rac (ohm/km): | Rac (ohm/km): | Ampacity at Min tem. A ** | Ampacity at Max tem. A ** |
|-------------------|-------|-----------------------|-------|-----------------------|-----------------------|----------------------------------|-----------------------|---------------------|--------------|---------------|---------------|---------------------------|---------------------------|
|                   |       |                       |       |                       |                       |                                  |                       |                     | 20degree C   | 25degree C    | 75degree C    | 25                        | 40                        |
| <b>HAWK/AW</b>    | 26    | 3.44                  | 7     | 2.68                  | 21.781                | 280.84                           | 930                   | 8143                | 0.11367      | 0.12320       | 0.14754       | 659                       | 553                       |
| <b>HEN/AW</b>     | 30    | 3.20                  | 7     | 3.20                  | 22.421                | 298.12                           | 1045                  | 10558               | 0.11129      | 0.12297       | 0.14726       | 673                       | 564                       |
| <b>OSPREY/AW</b>  | 18    | 4.47                  | 1     | 4.47                  | 22.325                | 297.49                           | 881                   | 6204                | 0.10040      | 0.10443       | 0.12506       | 705                       | 591                       |
| <b>PARAKEE/AW</b> | 24    | 3.87                  | 7     | 2.58                  | 23.206                | 318.55                           | 1024                  | 8728                | 0.09840      | 0.10619       | 0.12716       | 722                       | 605                       |
| <b>DOVE/AW</b>    | 26    | 3.72                  | 7     | 2.89                  | 23.55                 | 328.49                           | 1087                  | 9880                | 0.09715      | 0.10581       | 0.12671       | 730                       | 612                       |
| <b>EAGLE/AW</b>   | 30    | 3.46                  | 7     | 3.46                  | 24.213                | 347.68                           | 1219                  | 12094               | 0.09543      | 0.10660       | 0.12765       | 742                       | 622                       |
| <b>PEACOCK/AW</b> | 24    | 4.03                  | 7     | 2.69                  | 24.19                 | 345.91                           | 1112                  | 9489                | 0.09063      | 0.09842       | 0.11786       | 760                       | 638                       |
| <b>SQUAB/AW</b>   | 26    | 3.87                  | 7     | 3.01                  | 24.51                 | 355.63                           | 1177                  | 10668               | 0.08976      | 0.09836       | 0.11778       | 768                       | 644                       |



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**ACSR/AW**

Standard: **ASTM**

| Code name           | AL/No | Al wire diameter (mm) | St/No | St wire diameter (mm) | Overall diameter (mm) | Cross section (mm <sup>2</sup> ) | Linear weight (kg/km) | Breaking load (kgf) | Rdc (ohm/km) | Rac (ohm/km): | Rac (ohm/km): | Ampacity at Min tem. A ** | Ampacity at Max tem. A ** |
|---------------------|-------|-----------------------|-------|-----------------------|-----------------------|----------------------------------|-----------------------|---------------------|--------------|---------------|---------------|---------------------------|---------------------------|
|                     |       |                       |       |                       |                       |                                  |                       |                     | 20degree C   | 25degree C    | 75degree C    | 25                        | 40                        |
| <b>WOOD DUCK/AW</b> | 30    | 3.61                  | 7     | 3.61                  | 25.249                | 378.07                           | 1325                  | 12906               | 0.08776      | 0.09803       | 0.11739       | 784                       | 658                       |
| <b>TEAL/AW</b>      | 30    | 3.61                  | 19    | 2.16                  | 25.24                 | 376.67                           | 1315                  | 12915               | 0.08781      | 0.09858       | 0.11805       | 784                       | 658                       |
| <b>KINGBIRD/AW</b>  | 18    | 4.78                  | 1     | 4.78                  | 23.9                  | 340.95                           | 1009                  | 6885                | 0.08760      | 0.09168       | 0.10978       | 770                       | 646                       |
| <b>ROOK/AW</b>      | 24    | 4.14                  | 7     | 2.76                  | 24.84                 | 364.94                           | 1173                  | 10001               | 0.08589      | 0.09326       | 0.11168       | 788                       | 661                       |
| <b>GROSBEAK/AW</b>  | 26    | 3.97                  | 7     | 3.09                  | 25.15                 | 374.33                           | 1240                  | 11235               | 0.08529      | 0.09346       | 0.11192       | 794                       | 666                       |
| <b>SCOTER/AW</b>    | 30    | 3.70                  | 7     | 3.70                  | 25.886                | 397.39                           | 1393                  | 13315               | 0.08349      | 0.09394       | 0.11249       | 808                       | 678                       |
| <b>EGRET/AW</b>     | 30    | 3.70                  | 19    | 2.22                  | 25.9                  | 396.10                           | 1384                  | 13614               | 0.08355      | 0.09384       | 0.11237       | 811                       | 680                       |
| <b>SWIFT/AW</b>     | 36    | 3.38                  | 1     | 3.38                  | 23.632                | 331.19                           | 948                   | 6266                | 0.08863      | 0.09275       | 0.11107       | 763                       | 639                       |



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**ACSR/AW**

Standard: **ASTM**

| Code name          | AL/No | Al wire diameter (mm) | St/No | St wire diameter (mm) | Overall diameter (mm) | Cross section (mm <sup>2</sup> ) | Linear weight (kg/km) | Breaking load (kgf) | Rdc (ohm/km) | Rac (ohm/km): | Rac (ohm/km): | Ampacity at Min tem. A ** | Ampacity at Max tem. A ** |
|--------------------|-------|-----------------------|-------|-----------------------|-----------------------|----------------------------------|-----------------------|---------------------|--------------|---------------|---------------|---------------------------|---------------------------|
|                    |       |                       |       |                       |                       |                                  |                       |                     | 20degree C   | 25degree C    | 75degree C    | 25                        | 40                        |
| <b>FLAMINGO/AW</b> | 24    | 4.23                  | 7     | 2.82                  | 25.38                 | 380.98                           | 1224                  | 10441               | 0.08227      | 0.08998       | 0.10775       | 808                       | 678                       |
| <b>GANNET/AW</b>   | 26    | 4.07                  | 7     | 3.16                  | 25.76                 | 393.15                           | 1301                  | 11776               | 0.08117      | 0.08957       | 0.10726       | 818                       | 686                       |
| <b>STILT/AW</b>    | 24    | 4.39                  | 7     | 2.92                  | 26.32                 | 409.77                           | 1317                  | 11228               | 0.07649      | 0.08365       | 0.10017       | 849                       | 712                       |
| <b>STARLING/AW</b> | 26    | 4.21                  | 7     | 3.28                  | 26.68                 | 421.07                           | 1395                  | 12451               | 0.07583      | 0.08371       | 0.10024       | 856                       | 718                       |
| <b>REDWING/AW</b>  | 30    | 3.92                  | 19    | 2.35                  | 2.35                  | 444.46                           | 1553                  | 15093               | 0.07445      | 0.08421       | 0.10084       | 379                       | 313                       |
| <b>CUCKOO/AW</b>   | 24    | 4.62                  | 7     | 3.08                  | 27.72                 | 454.47                           | 1461                  | 12455               | 0.06897      | 0.07607       | 0.09110       | 905                       | 759                       |
| <b>DRAKE/AW</b>    | 26    | 4.44                  | 7     | 3.45                  | 28.11                 | 467.98                           | 1549                  | 13809               | 0.06820      | 0.07591       | 0.09090       | 915                       | 767                       |
| <b>COOT/AW</b>     | 36    | 3.77                  | 1     | 3.77                  | 26.418                | 413.89                           | 1185                  | 7752                | 0.07092      | 0.07539       | 0.09029       | 878                       | 736                       |



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**ACSR/AW**

Standard: **ASTM**

| Code name          | AL/No | Al wire diameter (mm) | St/No | St wire diameter (mm) | Overall diameter (mm) | Cross section (mm <sup>2</sup> ) | Linear weight (kg/km) | Breaking load (kgf) | Rdc (ohm/km) | Rac (ohm/km): | Rac (ohm/km): | Ampacity at Min tem. A ** | Ampacity at Max tem. A ** |
|--------------------|-------|-----------------------|-------|-----------------------|-----------------------|----------------------------------|-----------------------|---------------------|--------------|---------------|---------------|---------------------------|---------------------------|
|                    |       |                       |       |                       |                       |                                  |                       |                     | 20degree C   | 25degree C    | 75degree C    | 25                        | 40                        |
| <b>TERN/AW</b>     | 45    | 3.38                  | 7     | 2.25                  | 27.03                 | 431.59                           | 1304                  | 9657                | 0.07011      | 0.07602       | 0.09104       | 890                       | 746                       |
| <b>CONDOR/AW</b>   | 54    | 3.08                  | 7     | 3.08                  | 27.72                 | 454.47                           | 1461                  | 12506               | 0.06897      | 0.07607       | 0.09110       | 905                       | 759                       |
| <b>MALLARD/AW</b>  | 30    | 4.14                  | 19    | 2.48                  | 2.48                  | 495.61                           | 1731                  | 16819               | 0.06675      | 0.07614       | 0.09118       | 404                       | 334                       |
| <b>RUDDY/AW</b>    | 45    | 3.59                  | 7     | 2.40                  | 28.74                 | 487.16                           | 1472                  | 10926               | 0.06214      | 0.06806       | 0.08150       | 961                       | 805                       |
| <b>CANARY/AW</b>   | 54    | 3.28                  | 7     | 3.28                  | 29.52                 | 515.41                           | 1656                  | 13986               | 0.06081      | 0.06774       | 0.08112       | 980                       | 822                       |
| <b>CATBIRD/AW</b>  | 36    | 4.14                  | 1     | 4.14                  | 28.945                | 496.86                           | 1422                  | 9029                | 0.05908      | 0.09908       | 0.11865       | 790                       | 662                       |
| <b>RAIL/AW</b>     | 45    | 3.70                  | 7     | 2.47                  | 29.61                 | 517.37                           | 1563                  | 11594               | 0.05850      | 0.06480       | 0.07760       | 994                       | 834                       |
| <b>CARDINAL/AW</b> | 54    | 3.38                  | 7     | 3.38                  | 30.42                 | 547.32                           | 1759                  | 14852               | 0.05727      | 0.06452       | 0.07727       | 1015                      | 851                       |





# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**ACSR/AW**

Standard: **ASTM**

| Code name         | AL/No | Al wire diameter (mm) | St/No | St wire diameter (mm) | Overall diameter (mm) | Cross section (mm <sup>2</sup> ) | Linear weight (kg/km) | Breaking load (kgf) | Rdc (ohm/km) | Rac (ohm/km): | Rac (ohm/km): | Ampacity at Min tem. A ** | Ampacity at Max tem. A ** |
|-------------------|-------|-----------------------|-------|-----------------------|-----------------------|----------------------------------|-----------------------|---------------------|--------------|---------------|---------------|---------------------------|---------------------------|
|                   |       |                       |       |                       |                       |                                  |                       |                     | 20degree C   | 25degree C    | 75degree C    | 25                        | 40                        |
| <b>TENAGER/AW</b> | 36    | 4.30                  | 1     | 4.30                  | 30.121                | 538.05                           | 1540                  | 9777                | 0.05456      | 0.05924       | 0.07094       | 1035                      | 868                       |
| <b>ORTLAN/AW</b>  | 45    | 3.85                  | 7     | 2.57                  | 30.81                 | 560.17                           | 1693                  | 12310               | 0.05403      | 0.05985       | 0.07167       | 1049                      | 879                       |
| <b>CURLEW/AW</b>  | 54    | 3.52                  | 7     | 3.52                  | 31.68                 | 593.60                           | 1908                  | 15874               | 0.05280      | 0.06026       | 0.07216       | 1064                      | 892                       |
| <b>BLUEJAY/AW</b> | 45    | 4.00                  | 7     | 2.66                  | 31.98                 | 604.37                           | 1825                  | 13253               | 0.05006      | 0.05616       | 0.06726       | 1096                      | 919                       |
| <b>FINCH/AW</b>   | 54    | 3.65                  | 19    | 2.19                  | 32.85                 | 636.58                           | 2049                  | 17102               | 0.04939      | 0.05654       | 0.06771       | 1114                      | 934                       |
| <b>BUNTING/AW</b> | 45    | 4.14                  | 7     | 2.76                  | 33.12                 | 647.62                           | 1957                  | 14222               | 0.04673      | 0.05319       | 0.06369       | 1140                      | 955                       |
| <b>GRACKLE/AW</b> | 54    | 3.77                  | 19    | 2.27                  | 33.97                 | 679.66                           | 2189                  | 18513               | 0.04628      | 0.05377       | 0.06439       | 1156                      | 969                       |
| <b>SKYLARK/AW</b> | 36    | 4.78                  | 1     | 4.78                  | 33.425                | 662.56                           | 1897                  | 11916               | 0.04430      | 0.04943       | 0.05920       | 1174                      | 984                       |



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**ACSR/AW**

Standard: **ASTM**

| Code name          | AL/No | Al wire diameter (mm) | St/No | St wire diameter (mm) | Overall diameter (mm) | Cross section (mm <sup>2</sup> ) | Linear weight (kg/km) | Breaking load (kgf) | Rdc (ohm/km) | Rac (ohm/km): | Rac (ohm/km): | Ampacity at Min tem. A ** | Ampacity at Max tem. A ** |
|--------------------|-------|-----------------------|-------|-----------------------|-----------------------|----------------------------------|-----------------------|---------------------|--------------|---------------|---------------|---------------------------|---------------------------|
|                    |       |                       |       |                       |                       |                                  |                       |                     | 20degree C   | 25degree C    | 75degree C    | 25                        | 40                        |
| <b>BIFTERN/AW</b>  | 45    | 4.27                  | 7     | 2.85                  | 34.17                 | 689.04                           | 2082                  | 15141               | 0.04392      | 0.05000       | 0.05987       | 1188                      | 996                       |
| <b>PHEASANT/AW</b> | 54    | 3.90                  | 19    | 2.34                  | 35.1                  | 726.77                           | 2339                  | 19225               | 0.04326      | 0.05105       | 0.06113       | 1199                      | 1005                      |
| <b>DIPPER/AW</b>   | 45    | 4.40                  | 7     | 2.92                  | 35.16                 | 731.09                           | 2207                  | 16013               | 0.04138      | 0.04784       | 0.05729       | 1226                      | 1028                      |
| <b>MARTIN/AW</b>   | 54    | 4.02                  | 19    | 2.41                  | 36.17                 | 772.04                           | 2484                  | 20410               | 0.04072      | 0.04805       | 0.05754       | 1248                      | 1047                      |
| <b>BOBOLINK/AW</b> | 45    | 4.53                  | 7     | 3.02                  | 36.24                 | 775.39                           | 2343                  | 17027               | 0.03903      | 0.04592       | 0.05499       | 1264                      | 1060                      |
| <b>PLOVER/AW</b>   | 54    | 4.14                  | 19    | 2.48                  | 37.24                 | 818.67                           | 2634                  | 21630               | 0.03840      | 0.04609       | 0.05520       | 1287                      | 1079                      |
| <b>NUTHATCH/AW</b> | 45    | 4.65                  | 7     | 3.10                  | 37.2                  | 817.01                           | 2468                  | 17941               | 0.03704      | 0.04358       | 0.05219       | 1309                      | 1097                      |
| <b>PARROT/AW</b>   | 54    | 4.25                  | 19    | 2.55                  | 38.25                 | 863.07                           | 2778                  | 22831               | 0.03643      | 0.04456       | 0.05337       | 1321                      | 1107                      |



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**ACSR/AW**

Standard: **ASTM**

| Code name          | AL/No | Al wire diameter (mm) | St/No | St wire diameter (mm) | Overall diameter (mm) | Cross section (mm <sup>2</sup> ) | Linear weight (kg/km) | Breaking load (kgf) | Rdc (ohm/km) | Rac (ohm/km): | Rac (ohm/km): | Ampacity at Min tem. A ** | Ampacity at Max tem. A ** |
|--------------------|-------|-----------------------|-------|-----------------------|-----------------------|----------------------------------|-----------------------|---------------------|--------------|---------------|---------------|---------------------------|---------------------------|
|                    |       |                       |       |                       |                       |                                  |                       |                     | 20degree C   | 25degree C    | 75degree C    | 25                        | 40                        |
| <b>LAPWING/AW</b>  | 45    | 4.77                  | 7     | 3.18                  | 38.16                 | 859.72                           | 2597                  | 18879               | 0.03520      | 0.04220       | 0.05054       | 1342                      | 1125                      |
| <b>FALCON/AW</b>   | 54    | 4.36                  | 19    | 2.62                  | 39.26                 | 908.63                           | 2925                  | 24064               | 0.03461      | 0.04234       | 0.05071       | 1367                      | 1146                      |
| <b>CHUKAR/AW</b>   | 84    | 3.70                  | 19    | 2.22                  | 40.7                  | 976.69                           | 3004                  | 22506               | 0.03136      | 0.03859       | 0.04622       | 1439                      | 1206                      |
| <b>BLUEBIRD/AW</b> | 84    | 4.07                  | 19    | 2.44                  | 36.619                | 1181.19                          | 3633                  | 26714               | 0.02593      | 0.03411       | 0.04084       | 1471                      | 1230                      |
| <b>KIWI/AW</b>     | 72    | 4.41                  | 7     | 2.94                  | 35.259                | 1145.72                          | 3374                  | 22241               | 0.02612      | 0.03390       | 0.04060       | 1445                      | 1209                      |
| <b>THRASHER/AW</b> | 76    | 4.43                  | 19    | 2.07                  | 36.92                 | 1235.20                          | 3687                  | 25042               | 0.02440      | 0.03258       | 0.03902       | 1501                      | 1255                      |



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**ACSR/AW**

Standard:

**ASTM**

| Code name | AL/No | Al wire diameter (mm) | St/No | St wire diameter (mm) | Overall diameter (mm) | Cross section (mm <sup>2</sup> ) | Linear weight (kg/km) | Breaking load (kgf) | Rdc (ohm/km) | Rac (ohm/km): | Rac (ohm/km): | Ampacity at Min tem. A ** | Ampacity at Max tem. A ** |
|-----------|-------|-----------------------|-------|-----------------------|-----------------------|----------------------------------|-----------------------|---------------------|--------------|---------------|---------------|---------------------------|---------------------------|
|           |       |                       |       |                       |                       |                                  |                       |                     | 20degree C   | 25degree C    | 75degree C    | 25                        | 40                        |

**Design conditions : \*\***

|                           |             |     |                                    |                 |      |
|---------------------------|-------------|-----|------------------------------------|-----------------|------|
| <b>Wind velocity:</b>     | <b>M/S</b>  | 0.6 | <b>Sun absorbtion:</b>             | <b>WATTS/M2</b> | 1033 |
| <b>Frequency:</b>         | <b>HZ</b>   | 50  | <b>Working temp. of conductor:</b> | <b>CENT</b>     | 75   |
| <b>Min ambient temp.:</b> | <b>CENT</b> | 25  | <b>Emissivity:</b>                 |                 | 0.5  |
| <b>Min ambient temp.:</b> | <b>CENT</b> | 40  | <b>sea level:</b>                  | <b>m</b>        | 1500 |