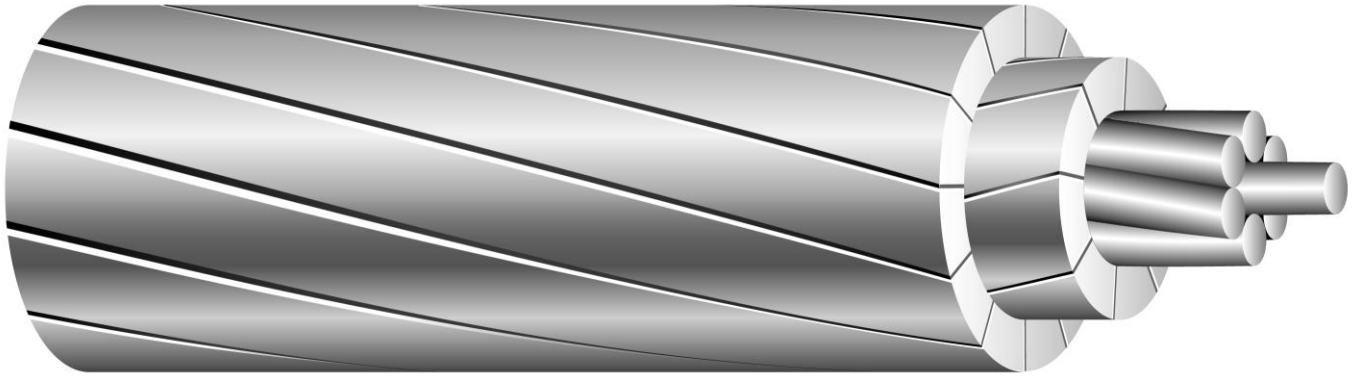


## Aluminum Conductor, Steel Reinforced. Trapezoidal Shaped Aluminum Strands. Bare.



### APPLICATIONS

Shaped Wire Compact Concentric-Lay-Stranded Aluminum Conductor, Steel-Reinforced (ACSR/TW) is designed for use as a bare overhead conductor. There are two designs of ACSR/TW. One design gives an equal area of aluminum when compared to the standard ACSR conductor sizes. The other design gives an overall outside diameter equal to standard ACSR conductor sizes. Use of this conductor in the equal area design allows equal ampacity in a smaller diameter conductor when compared with standard ACSR conductor. Use of this conductor in the equal diameter design allows more ampacity in an equal diameter conductor when compared with standard ACSR conductor.

### SPECIFICATIONS

Southwire's ACSR/TW conductor meets or exceeds the following ASTM specifications:

- B779 Shaped Wire Compact Concentric-Lay-Stranded Aluminum Conductors, Coated-Reinforced (ACSR/TW).

### CONSTRUCTION

Aluminum alloy 1350-H19 trapezoidal shaped wires, concentrically stranded about a steel core. Core wire for ACSR/TW is available with class A, B, or C galvanizing; "aluminized" aluminum coated (AZ); or aluminum-clad (AW <sup>1</sup>). Additional corrosion protection is available through the application of grease to the core or infusion of the complete cable with grease.

<sup>1</sup> For aluminum-clad ACSR/TW, contact your Southwire representative.

**Shaped Wire Concentric-Lay Compact Aluminum Conductors Steel Reinforced (ACSR/TW)**  
**Area Equal to Standard ACSR Sizes**

| Code Word    | Size (kcmil) | Type No. | Cross Sectional Area (in²) |        | Stranding                |                       |                                      | Diameter (in) |                | Weight (lbs/1000 ft) |       |        | Rated Breaking Strength (lbs) | Resistance (ohms/mile) |           | Ampacity (amps) |
|--------------|--------------|----------|----------------------------|--------|--------------------------|-----------------------|--------------------------------------|---------------|----------------|----------------------|-------|--------|-------------------------------|------------------------|-----------|-----------------|
|              |              |          | Aluminum                   | Total  | No of Layers of Aluminum | No. of Aluminum Wires | No. & Diameter Individual Steel Wire | Steel Core    | Complete Cable | Alum.                | Steel | Total  | Standard Strength             | DC @ 20°C              | AC @ 75°C | @ 75°C          |
| Partridge/TW | 266.8        | 16       | 0.2094                     | 0.2435 | 2                        | 14                    | 7 x 0.0788                           | 0.2364        | 0.595          | 250.5                | 115.6 | 366.1  | 11200                         | 0.3356                 | 0.4103    | 449             |
| Linnet/TW    | 336.4        | 16       | 0.2642                     | 0.3073 | 2                        | 16                    | 7 x 0.0885                           | 0.2655        | 0.667          | 316.1                | 145.8 | 461.9  | 14000                         | 0.2662                 | 0.3255    | 519             |
| Oriole/TW    | 336.4        | 23       | 0.2642                     | 0.3259 | 2                        | 16                    | 7 x 0.1059                           | 0.3177        | 0.693          | 317.6                | 208.7 | 526.4  | 17100                         | 0.2650                 | 0.3239    | 525             |
| Merlin/TW    | 336.4        | 6        | 0.2642                     | 0.2788 | 2                        | 14                    | 1 x 0.1367                           | 0.1367        | 0.630          | 315.5                | 49.5  | 365.0  | 8560                          | 0.0510                 | 0.0625    | 508             |
| Flicker/TW   | 447.0        | 13       | 0.3747                     | 0.4233 | 2                        | 18                    | 7 x 0.0940                           | 0.2820        | 0.776          | 447.8                | 164.5 | 612.3  | 17200                         | 0.0357                 | 0.0437    | 641             |
| Hawk/TW      | 447.0        | 16       | 0.3746                     | 0.4356 | 2                        | 18                    | 7 x 0.1054                           | 0.3162        | 0.790          | 448.7                | 206.4 | 655.1  | 19400                         | 0.0356                 | 0.0435    | 645             |
| Hen/TW       | 477.0        | 23       | 0.3745                     | 0.4619 | 2                        | 20                    | 7 x 0.1261                           | 0.3783        | 0.820          | 450.2                | 296.0 | 746.1  | 23600                         | 0.1869                 | 0.2287    | 653             |
| Parakeet/TW  | 556.5        | 13       | 0.4371                     | 0.4937 | 2                        | 18                    | 7 x 0.1015                           | 0.3045        | 0.835          | 523.2                | 191.7 | 714.9  | 20000                         | 0.0306                 | 0.0375    | 706             |
| Dove/TW      | 556.5        | 16       | 0.4371                     | 0.5083 | 2                        | 20                    | 7 x 0.1138                           | 0.3414        | 0.850          | 523.4                | 241.1 | 764.5  | 22600                         | 0.0305                 | 0.0374    | 711             |
| Swift/TW     | 636.0        | 3        | 0.4995                     | 0.5133 | 3                        | 27                    | 1 x 0.1329                           | 0.1329        | 0.850          | 599.2                | 46.8  | 646.0  | 13500                         | 0.0272                 | 0.0335    | 750             |
| Rook/TW      | 636.0        | 13       | 0.4995                     | 0.5643 | 2                        | 20                    | 7 x 0.1085                           | 0.3255        | 0.893          | 597.0                | 219.2 | 816.2  | 22900                         | 0.0268                 | 0.0329    | 766             |
| Scoter/TW    | 636.0        | 23       | 0.4994                     | 0.6159 | 2                        | 22                    | 7 x 0.1456                           | 0.4368        | 0.942          | 600.3                | 394.6 | 954.9  | 30400                         | 0.1402                 | 0.1718    | 782             |
| Grosbeak/TW  | 636.0        | 16       | 0.4995                     | 0.5808 | 2                        | 20                    | 7 x 0.1216                           | 0.3648        | 0.909          | 601.5                | 275.8 | 877.3  | 25400                         | 0.0267                 | 0.0327    | 772             |
| Tern/TW      | 795.0        | 7        | 0.6244                     | 0.6675 | 2                        | 17                    | 7 x 0.0886                           | 0.2658        | 0.960          | 745.9                | 146.1 | 892.0  | 21000                         | 0.0215                 | 0.0266    | 869             |
| Puffin/TW    | 795.0        | 10       | 0.6244                     | 0.6919 | 2                        | 18                    | 7 x 0.1108                           | 0.3324        | 0.980          | 746.9                | 228.4 | 975.3  | 25900                         | 0.0215                 | 0.0264    | 876             |
| Condor/TW    | 795.0        | 13       | 0.6244                     | 0.7053 | 2                        | 20                    | 7 x 0.1203                           | 0.3639        | 0.993          | 747.2                | 273.8 | 1021.0 | 28200                         | 0.0214                 | 0.0264    | 880             |
| Drake/TW     | 795.0        | 16       | 0.6244                     | 0.7261 | 2                        | 20                    | 7 x 0.1360                           | 0.4080        | 1.010          | 747.0                | 344.3 | 1091.3 | 31800                         | 0.0213                 | 0.0263    | 887             |
| Canary/TW    | 900.0        | 13       | 0.7066                     | 0.7983 | 2                        | 20                    | 7 x 0.1291                           | 0.3873        | 1.055          | 844.6                | 310.2 | 1154.8 | 31600                         | 0.0998                 | 0.1233    | 951             |
| Phoenix/TW   | 954.0        | 5        | 0.7493                     | 0.7876 | 3                        | 30                    | 7 x 0.0837                           | 0.2511        | 1.044          | 901.6                | 130.4 | 1032.0 | 23700                         | 0.0181                 | 0.0224    | 967             |
| Rail/TW      | 954.0        | 7        | 0.7493                     | 0.8011 | 3                        | 32                    | 7 x 0.0971                           | 0.2913        | 1.061          | 898.6                | 175.5 | 1074.1 | 25900                         | 0.0180                 | 0.0224    | 973             |

Ampacity based on referenced conductor temperature, 25°C ambient temperature, 2 ft/sec wind, in sun, with an emissivity of 0.5 and a coefficient of solar absorption of 0.5, at sea level.

| Shaped Wire Concentric-Lay Compact Aluminum Conductors Steel Reinforced (ACSR/TW)<br>Area Equal to Standard ACSR Sizes                                                                      |              |          |                                         |        |                          |                       |                                      |               |                |                      |       |        |                               |                        |           |                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|-----------------------------------------|--------|--------------------------|-----------------------|--------------------------------------|---------------|----------------|----------------------|-------|--------|-------------------------------|------------------------|-----------|-----------------|
| Code Word                                                                                                                                                                                   | Size (kcmil) | Type No. | Cross Sectional Area (in <sup>2</sup> ) |        | Stranding                |                       |                                      | Diameter (in) |                | Weight (lbs/1000 ft) |       |        | Rated Breaking Strength (lbs) | Resistance (ohms/mile) |           | Ampacity (amps) |
|                                                                                                                                                                                             |              |          | Aluminum                                | Total  | No of Layers of Aluminum | No. of Aluminum Wires | No. & Diameter Individual Steel Wire | Steel Core    | Complete Cable | Alum.                | Steel | Total  | Standard Strength             | DC @ 20°C              | AC @ 75°C | @ 75°C          |
| Cardinal/TW                                                                                                                                                                                 | 954.0        | 13       | 0.7493                                  | 0.8464 | 2                        | 20                    | 7 x 0.1329                           | 0.3987        | 1.080          | 895.5                | 328.8 | 1224.3 | 33500                         | 0.0178                 | 0.0221    | 985             |
| Snowbird/TW                                                                                                                                                                                 | 1033.5       | 5        | 0.8117                                  | 0.8534 | 3                        | 30                    | 7 x 0.0871                           | 0.2613        | 1.089          | 973.8                | 141.2 | 1115.0 | 25700                         | 0.0167                 | 0.0208    | 1017            |
| Ortolan/TW                                                                                                                                                                                  | 1033.5       | 7        | 0.8117                                  | 0.8678 | 3                        | 32                    | 7 x 0.1010                           | 0.3030        | 1.102          | 975.2                | 189.8 | 1165.0 | 28100                         | 0.0167                 | 0.0207    | 1021            |
| Curlew/TW                                                                                                                                                                                   | 1033.5       | 13       | 0.8117                                  | 0.9169 | 2                        | 22                    | 7 x 0.1383                           | 0.4149        | 1.132          | 970.1                | 356.1 | 1326.2 | 36300                         | 0.0165                 | 0.0204    | 1036            |
| Avocet/TW                                                                                                                                                                                   | 1113.0       | 5        | 0.8742                                  | 0.9191 | 3                        | 30                    | 7 x 0.0904                           | 0.2712        | 1.129          | 1048.9               | 152.1 | 1201.0 | 27500                         | 0.0155                 | 0.0193    | 1063            |
| Bluejay/TW                                                                                                                                                                                  | 1113.0       | 7        | 0.8742                                  | 0.9347 | 3                        | 33                    | 7 x 0.1049                           | 0.3147        | 1.143          | 1052.2               | 204.8 | 1257.0 | 30300                         | 0.0155                 | 0.0193    | 1069            |
| Finch/TW                                                                                                                                                                                    | 1113.0       | 13       | 0.8742                                  | 0.9851 | 3                        | 38                    | 19 x 0.0862                          | 0.4310        | 1.185          | 1052.6               | 376.4 | 1429.0 | 39100                         | 0.0154                 | 0.0191    | 1084            |
| Oxbird/TW                                                                                                                                                                                   | 1192.5       | 5        | 0.9366                                  | 0.9848 | 3                        | 30                    | 7 x 0.0936                           | 0.2808        | 1.170          | 1122.9               | 163.1 | 1286.0 | 29500                         | 0.0144                 | 0.0180    | 1111            |
| Bunting/TW                                                                                                                                                                                  | 1192.5       | 7        | 0.9366                                  | 1.0013 | 3                        | 34                    | 7 x 0.1085                           | 0.3255        | 1.181          | 1123.2               | 219.6 | 1342.8 | 32400                         | 0.0144                 | 0.0181    | 1114            |
| Grackle/TW                                                                                                                                                                                  | 1192.5       | 13       | 0.9366                                  | 1.0554 | 3                        | 38                    | 19 x 0.0892                          | 0.4460        | 1.225          | 1127.8               | 402.9 | 1530.7 | 41900                         | 0.0144                 | 0.0179    | 1130            |
| Scissortail/TW                                                                                                                                                                              | 1272.0       | 5        | 0.9991                                  | 1.0505 | 3                        | 30                    | 7 x 0.0967                           | 0.2901        | 1.203          | 1198.0               | 174.0 | 1372.0 | 31400                         | 0.0135                 | 0.0170    | 1152            |
| Bittern/TW                                                                                                                                                                                  | 1272.0       | 7        | 0.9990                                  | 1.0681 | 3                        | 38                    | 7 x 0.1121                           | 0.3363        | 1.224          | 1197.6               | 234.9 | 1423.5 | 34600                         | 0.0135                 | 0.0170    | 1159            |
| Pheasant/TW                                                                                                                                                                                 | 1272.0       | 13       | 0.9990                                  | 1.1256 | 3                        | 39                    | 19 x 0.0921                          | 0.4605        | 1.260          | 1201.0               | 429.5 | 1630.5 | 44100                         | 0.0135                 | 0.0168    | 1176            |
| Dipper/TW                                                                                                                                                                                   | 1351.5       | 7        | 1.0615                                  | 1.1348 | 3                        | 35                    | 7 x 0.1155                           | 0.3465        | 1.256          | 1274.0               | 248.0 | 1522.0 | 36700                         | 0.0127                 | 0.0160    | 1202            |
| Martin/TW                                                                                                                                                                                   | 1351.5       | 13       | 1.0615                                  | 1.1959 | 3                        | 42                    | 19 x 0.0949                          | 0.4745        | 1.300          | 1276.0               | 456.0 | 1732.0 | 46800                         | 0.0127                 | 0.0159    | 1219            |
| Bobolink/TW                                                                                                                                                                                 | 1431.0       | 7        | 1.1236                                  | 1.2017 | 3                        | 36                    | 7 x 0.1189                           | 0.3567        | 1.291          | 1350.0               | 263.0 | 1613.0 | 38900                         | 0.0120                 | 0.0152    | 1243            |
| Plover/TW                                                                                                                                                                                   | 1431.0       | 13       | 1.1239                                  | 1.2664 | 3                        | 44                    | 19 x 0.0977                          | 0.4885        | 1.337          | 1353.0               | 483.0 | 1836.0 | 49600                         | 0.0120                 | 0.0150    | 1262            |
| Lapwing/TW                                                                                                                                                                                  | 1590.0       | 7        | 1.2488                                  | 1.3351 | 3                        | 36                    | 7 x 0.1253                           | 0.3759        | 1.358          | 1497.6               | 292.3 | 1789.9 | 42200                         | 0.0183                 | 0.0138    | 1323            |
| Falcon/TW                                                                                                                                                                                   | 1590.0       | 13       | 1.2488                                  | 1.4071 | 3                        | 42                    | 19 x 0.1030                          | 0.5150        | 1.410          | 1502.8               | 537.2 | 2040.0 | 55100                         | 0.0108                 | 0.0136    | 1345            |
| Chukar/TW                                                                                                                                                                                   | 1780.0       | 8        | 1.3986                                  | 1.5120 | 3                        | 38                    | 19 x 0.0874                          | 0.4370        | 1.445          | 1680.6               | 386.8 | 2067.4 | 50700                         | 0.0096                 | 0.0124    | 1420            |
| Bluebird/TW                                                                                                                                                                                 | 2156.0       | 8        | 1.0934                                  | 1.8312 | 4                        | 64                    | 19 x 0.0961                          | 0.4805        | 1.608          | 2047.0               | 468.0 | 2515.0 | 61100                         | 0.0080                 | 0.0105    | 1586            |
| Ampacity based on referenced conductor temperature, 25°C ambient temperature, 2 ft/sec wind, in sun, with an emmissivity of 0.5 and a coefficient of solar absorption of 0.5, at sea level. |              |          |                                         |        |                          |                       |                                      |               |                |                      |       |        |                               |                        |           |                 |

| Shaped Wire Concentric-Lay Compact Aluminum Conductors Steel Reinforced (ACSR/TW)                                                                                                          |              |          |                                         |        |                          |                       |                                      |               |                |                      |       |        |                               |                        |           |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|-----------------------------------------|--------|--------------------------|-----------------------|--------------------------------------|---------------|----------------|----------------------|-------|--------|-------------------------------|------------------------|-----------|-----------------|
| Diameters Equal to Standard ACSR Sizes                                                                                                                                                     |              |          |                                         |        |                          |                       |                                      |               |                |                      |       |        |                               |                        |           |                 |
| Code Word                                                                                                                                                                                  | Size (kcmil) | Type No. | Cross Sectional Area (in <sup>2</sup> ) |        | Stranding                |                       |                                      | Diameter (in) |                | Weight (lbs/1000 ft) |       |        | Rated Breaking Strength (lbs) | Resistance (ohms/mile) |           | Ampacity (amps) |
|                                                                                                                                                                                            |              |          | Aluminum                                | Total  | No of Layers of Aluminum | No. of Aluminum Wires | No. & Diameter Individual Steel Wire | Steel Core    | Complete Cable | Alum.                | Steel | Total  | Standard Strength             | DC @ 20°C              | AC @ 75°C | @ 75°C          |
| Monongahela/TW                                                                                                                                                                             | 405.1        | 6        | 0.3181                                  | 0.3362 | 2                        | 14                    | 1 x 0.1520                           | 0.1520        | 0.680          | 379.8                | 61.2  | 441.0  | 10200                         | 0.0423                 | 0.0519    | 569             |
| Mohawk/TW                                                                                                                                                                                  | 571.7        | 13       | 0.4490                                  | 0.5074 | 2                        | 18                    | 7 x 0.1030                           | 0.3090        | 0.850          | 537.0                | 197.5 | 734.5  | 20700                         | 0.0298                 | 0.0365    | 718             |
| Calumet/TW                                                                                                                                                                                 | 565.3        | 16       | 0.4439                                  | 0.5165 | 2                        | 20                    | 7 x 0.1146                           | 0.3438        | 0.860          | 531.2                | 244.5 | 775.7  | 22900                         | 0.0300                 | 0.0368    | 718             |
| Mystic/TW                                                                                                                                                                                  | 666.6        | 13       | 0.5236                                  | 0.5914 | 2                        | 20                    | 7 x 0.1244                           | 0.3732        | 0.913          | 630.4                | 230.3 | 860.7  | 24000                         | 0.0255                 | 0.0314    | 790             |
| Oswego/TW                                                                                                                                                                                  | 664.8        | 16       | 0.5221                                  | 0.6072 | 2                        | 20                    | 7 x 0.1244                           | 0.3732        | 0.927          | 628.7                | 288.7 | 917.4  | 26600                         | 0.0255                 | 0.0313    | 794             |
| Nechako/TW                                                                                                                                                                                 | 768.9        | 3        | 0.6039                                  | 0.6220 | 3                        | 27                    | 1 x 0.1520                           | 0.1520        | 0.930          | 720.7                | 61.2  | 781.9  | 16400                         | 0.0255                 | 0.0278    | 843             |
| Maumee/TW                                                                                                                                                                                  | 768.2        | 13       | 0.6034                                  | 0.6819 | 2                        | 20                    | 7 x 0.1195                           | 0.3585        | 0.977          | 721.1                | 265.9 | 987.0  | 27700                         | 0.0222                 | 0.0273    | 862             |
| Wabash/TW                                                                                                                                                                                  | 762.8        | 16       | 0.5992                                  | 0.6966 | 2                        | 20                    | 7 x 0.1331                           | 0.3993        | 0.990          | 716.7                | 329.8 | 1046.5 | 30500                         | 0.0222                 | 0.0274    | 863             |
| Kettle/TW                                                                                                                                                                                  | 957.2        | 7        | 0.7518                                  | 0.8038 | 3                        | 32                    | 7 x 0.0973                           | 0.2919        | 1.060          | 902.8                | 176.2 | 1079.0 | 26000                         | 0.0180                 | 0.0223    | 974             |
| Fraser/TW                                                                                                                                                                                  | 946.7        | 10       | 0.7436                                  | 0.8168 | 3                        | 35                    | 7 x 0.1154                           | 0.3462        | 1.077          | 894.0                | 248.0 | 1142.0 | 29600                         | 0.0180                 | 0.0223    | 978             |
| Columbia/TW                                                                                                                                                                                | 966.2        | 13       | 0.7589                                  | 0.8573 | 2                        | 21                    | 7 x 0.1338                           | 0.4014        | 1.092          | 908.0                | 333.0 | 1241.0 | 34000                         | 0.0176                 | 0.0218    | 993             |
| Suwannee/TW                                                                                                                                                                                | 959.6        | 16       | 0.7537                                  | 0.8762 | 2                        | 22                    | 7 x 0.1493                           | 0.4479        | 1.110          | 901.6                | 415.0 | 1316.6 | 37000                         | 0.0177                 | 0.0218    | 996             |
| Cheyenne/TW                                                                                                                                                                                | 1168.1       | 5        | 0.9175                                  | 0.9646 | 3                        | 30                    | 7 x 0.0926                           | 0.2778        | 1.155          | 1100.4               | 159.6 | 1260.0 | 28900                         | 0.0148                 | 0.0185    | 1095            |
| Genesee/TW                                                                                                                                                                                 | 1158.0       | 7        | 0.9095                                  | 0.9733 | 3                        | 34                    | 7 x 0.1078                           | 0.3234        | 1.165          | 1092.0               | 216.0 | 1308.0 | 31600                         | 0.0149                 | 0.0186    | 1095            |
| Hudson/TW                                                                                                                                                                                  | 1158.4       | 13       | 0.9098                                  | 1.0281 | 2                        | 24                    | 7 x 0.1467                           | 0.4401        | 1.196          | 1087.3               | 400.7 | 1488.0 | 39600                         | 0.0147                 | 0.0183    | 1111            |
| Catawba/TW                                                                                                                                                                                 | 1272.0       | 5        | 0.9991                                  | 1.0505 | 3                        | 30                    | 7 x 0.0967                           | 0.2901        | 1.203          | 1198.0               | 174.0 | 1372.0 | 31400                         | 0.0135                 | 0.0170    | 1152            |
| Nelson/TW                                                                                                                                                                                  | 1257.1       | 7        | 0.9874                                  | 1.0557 | 3                        | 35                    | 7 x 0.1115                           | 0.3345        | 1.213          | 1185.7               | 231.3 | 1417.0 | 34200                         | 0.0137                 | 0.0172    | 1150            |
| Yukon/TW                                                                                                                                                                                   | 1233.6       | 13       | 0.9689                                  | 1.0925 | 3                        | 38                    | 19 x 0.0910                          | 0.4550        | 1.245          | 1166.7               | 419.3 | 1586.0 | 42900                         | 0.0139                 | 0.0173    | 1154            |
| Truckee/TW                                                                                                                                                                                 | 1372.5       | 5        | 1.0780                                  | 1.1334 | 3                        | 30                    | 7 x 0.1004                           | 0.3012        | 1.248          | 1293.4               | 187.6 | 1481.0 | 33400                         | 0.0126                 | 0.0159    | 1206            |
| Ampacity based on referenced conductor temperature, 25°C ambient temperature, 2 ft/sec wind, in sun, with an emissivity of 0.5 and a coefficient of solar absorption of 0.5, at sea level. |              |          |                                         |        |                          |                       |                                      |               |                |                      |       |        |                               |                        |           |                 |

| Shaped Wire Concentric-Lay Compact Aluminum Conductors Steel Reinforced (ACSR/TW)                                                                                                          |              |          |                                         |        |                          |                       |                                      |               |                |                      |       |        |                               |                        |           |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|-----------------------------------------|--------|--------------------------|-----------------------|--------------------------------------|---------------|----------------|----------------------|-------|--------|-------------------------------|------------------------|-----------|-----------------|
| Diameters Equal to Standard ACSR Sizes                                                                                                                                                     |              |          |                                         |        |                          |                       |                                      |               |                |                      |       |        |                               |                        |           |                 |
| Code Word                                                                                                                                                                                  | Size (kcmil) | Type No. | Cross Sectional Area (in <sup>2</sup> ) |        | Stranding                |                       |                                      | Diameter (in) |                | Weight (lbs/1000 ft) |       |        | Rated Breaking Strength (lbs) | Resistance (ohms/mile) |           | Ampacity (amps) |
|                                                                                                                                                                                            |              |          | Aluminum                                | Total  | No of Layers of Aluminum | No. of Aluminum Wires | No. & Diameter Individual Steel Wire | Steel Core    | Complete Cable | Alum.                | Steel | Total  | Standard Strength             | DC @ 20°C              | AC @ 75°C | @ 75°C          |
| Mackenzie/TW                                                                                                                                                                               | 1359.7       | 7        | 1.0679                                  | 1.1418 | 3                        | 36                    | 7 x 0.1559                           | 0.3477        | 1.259          | 1280.0               | 250.0 | 1530.0 | 36900                         | 0.0127                 | 0.0159    | 1206            |
| Thames/TW                                                                                                                                                                                  | 1334.6       | 13       | 1.3480                                  | 1.1809 | 3                        | 38                    | 19 x 0.0944                          | 0.4720        | 1.290          | 1260.1               | 451.2 | 1711.3 | 46300                         | 0.0128                 | 0.0160    | 1210            |
| St. Croix/TW                                                                                                                                                                               | 1467.8       | 5        | 1.1529                                  | 1.2124 | 3                        | 33                    | 7 x 0.1041                           | 0.3123        | 1.292          | 1383.0               | 202.0 | 1585.0 | 35800                         | 0.0117                 | 0.0149    | 1256            |
| Miramichi/TW                                                                                                                                                                               | 1455.3       | 7        | 1.1430                                  | 1.2222 | 3                        | 36                    | 7 x 0.1200                           | 0.3600        | 1.302          | 1372.0               | 268.0 | 1640.0 | 39200                         | 0.0118                 | 0.0150    | 1256            |
| Merrimack/TW                                                                                                                                                                               | 1433.6       | 13       | 1.1250                                  | 1.2677 | 3                        | 39                    | 19 x 0.0978                          | 0.4890        | 1.340          | 1355.8               | 484.3 | 1840.1 | 49700                         | 0.0119                 | 0.0150    | 1264            |
| Platte/TW                                                                                                                                                                                  | 1569.0       | 5        | 1.2323                                  | 1.2957 | 3                        | 33                    | 7 x 0.1074                           | 0.3222        | 1.334          | 1478.0               | 215.0 | 1693.0 | 38200                         | 0.0110                 | 0.0140    | 1306            |
| Potomac/TW                                                                                                                                                                                 | 1557.4       | 7        | 1.2232                                  | 1.3079 | 3                        | 36                    | 7 x 0.1241                           | 0.3723        | 1.350          | 1466.9               | 288.1 | 1755.0 | 41900                         | 0.0111                 | 0.0140    | 1307            |
| Rio Grande/TW                                                                                                                                                                              | 1533.3       | 13       | 1.2043                                  | 1.3571 | 3                        | 38                    | 19 x 0.1012                          | 0.5060        | 1.380          | 1449.0               | 519.0 | 1968.0 | 53200                         | 0.0112                 | 0.0141    | 1316            |
| Schuylkill/TW                                                                                                                                                                              | 1657.4       | 7        | 1.3020                                  | 1.3920 | 3                        | 36                    | 7 x 0.1280                           | 0.3840        | 1.386          | 1563.0               | 305.0 | 1868.0 | 44000                         | 0.0104                 | 0.0133    | 1356            |
| Pecos/TW                                                                                                                                                                                   | 1622.0       | 13       | 1.2739                                  | 1.4429 | 3                        | 39                    | 19 x 0.1064                          | 0.5320        | 1.420          | 1533.7               | 573.2 | 2106.9 | 57500                         | 0.0106                 | 0.0133    | 1363            |
| Pee Dee/TW                                                                                                                                                                                 | 1758.6       | 7        | 1.3810                                  | 1.4770 | 3                        | 38                    | 7 x 0.1319                           | 0.3957        | 1.427          | 1656.4               | 323.9 | 1980.3 | 46700                         | 0.0098                 | 0.0126    | 1404            |
| James/TW                                                                                                                                                                                   | 1730.6       | 13       | 1.3590                                  | 1.5314 | 3                        | 34                    | 19 x 0.1075                          | 0.5375        | 1.470          | 1636.0               | 585.0 | 2221.0 | 59400                         | 0.0099                 | 0.0126    | 1415            |
| Athabaska/TW                                                                                                                                                                               | 1949.6       | 7        | 1.5312                                  | 1.6377 | 3                        | 44                    | 7 x 0.1392                           | 0.4176        | 1.504          | 1838.0               | 361.0 | 2199.0 | 51900                         | 0.0088                 | 0.0115    | 1491            |
| Cumberland/TW                                                                                                                                                                              | 1926.9       | 13       | 1.5134                                  | 1.7049 | 3                        | 42                    | 19 x 0.1133                          | 0.5665        | 1.550          | 1821.0               | 650.0 | 2471.0 | 65300                         | 0.0089                 | 0.0114    | 1507            |
| Powder/TW                                                                                                                                                                                  | 2153.8       | 8        | 1.6912                                  | 1.8290 | 4                        | 64                    | 19 x 0.0961                          | 0.4805        | 1.602          | 2042.5               | 396.1 | 2438.6 | 61100                         | 0.0080                 | 0.0105    | 1584            |
| Santee/TW                                                                                                                                                                                  | 2627.3       | 8        | 2.0630                                  | 2.2268 | 4                        | 64                    | 19 x 0.1062                          | 0.5310        | 1.761          | 2491.5               | 571.1 | 3062.6 | 74500                         | 0.0066                 | 0.0089    | 1768            |
| Ampacity based on referenced conductor temperature, 25°C ambient temperature, 2 ft/sec wind, in sun, with an emissivity of 0.5 and a coefficient of solar absorption of 0.5, at sea level. |              |          |                                         |        |                          |                       |                                      |               |                |                      |       |        |                               |                        |           |                 |