

## PRODUCT CATALOG – ACSR/AE (Aluminum Conductor, Steel Reinforced, Air Expanded)

| ACSR/AE - PHYSICAL CHARACTERISTICS |                |                 |                       |                                |  |                   |               |                    |            |
|------------------------------------|----------------|-----------------|-----------------------|--------------------------------|--|-------------------|---------------|--------------------|------------|
| Conductor Designation              | Cross Section  |                 | Total in <sup>2</sup> | Current Carrying Capacity Amps | Stranding Number and Diameter of Strands In. |                   |               | Diameter In.       |            |
|                                    | Aluminum Cmils | In <sup>2</sup> |                       |                                | Aluminum 1350-H19                            | Aluminum 6201-T81 | Steel         | Complete Conductor | Steel Core |
| <b>1.385 ACSR/AE</b>               | 1,115,400      | .8761           | .9143                 | 1055                           | 27 x 1385                                    | 21 x .1385        | 7 x .0834     | 1.385              | 0.250      |
|                                    |                |                 |                       |                                |  | 8 x .1560         |               |                    |            |
| <b>1.75 ACSR/AE</b>                | 1,595,000      | 1.251           | 1.393                 | 1375                           | 30 x .1591                                   | 24 x .1591        | 19 x .0977 AW | 1.75               | 0.488      |
|                                    |                |                 |                       |                                |  | 8 x .1680         |               |                    |            |
| <b>2.50 ACSR/AE</b>                | 3,108,000      | 2.4414          | 2.7174                | 2190                           | 60 x .2035                                   | -                 | 19 x .1360    | 2.50               | 0.680      |
|                                    |                |                 |                       |                                | 8 x .2600                                    |                   |               |                    |            |

| ACSR/AE - PHYSICAL CHARACTERISTICS |                |                 |                       |                                |   |                   |           |                    |            |
|------------------------------------|----------------|-----------------|-----------------------|--------------------------------|---|-------------------|-----------|--------------------|------------|
| Conductor Designation              | Cross Section  |                 | Total Mm <sup>2</sup> | Current Carrying Capacity Amps | Stranding Number and Diameter of Strands mm |                   |           | Diameter mm.       |            |
|                                    | Aluminum Cmils | Mm <sup>2</sup> |                       |                                | Aluminum 1350-H19                           | Aluminum 6201-T81 | Steel     | Complete Conductor | Steel Core |
| <b>1.385 ACSR/AE</b>               | 1,115,400      | 565.6           | 590.3                 | 1055                           | 27 x 3.52                                   | 21 x 3.52         | 7 x 2.12  | 35.18              | 6.36       |
|                                    |                |                 |                       |                                |   | 8 x 3.96          |           |                    |            |
| <b>1.75 ACSR/AE</b>                | 1,595,000      | 806.8           | 898.6                 | 1375                           | 30 x 4.04                                   | 24 x 4.04         | 19 x 2.48 | 44.45              | 12.40      |
|                                    |                |                 |                       |                                |   | 8 x 4.27          |           |                    |            |
| <b>2.50 ACSR/AE</b>                | 3,108,000      | 1575            | 1753.8                | 2190                           | 62 x 5.17                                   |                   | 19 x 3.45 | 63.50              | 17.25      |
|                                    |                |                 |                       |                                | 8 x 6.60                                    |                   |           |                    |            |

| ACSR/AE - PHYSICAL CHARACTERISTICS |       |                                    |       |       |                       |        |          |        |        |                       |
|------------------------------------|-------|------------------------------------|-------|-------|-----------------------|--------|----------|--------|--------|-----------------------|
| Conductor Designation              | Total | Nominal Mass Pounds Per 1,000 Feet |       |       | Percent of Total Mass |        |          |        |        | Rated Strength Pounds |
|                                    |       | Aluminum                           | Steel | Total | Per Mile Aluminum     | Steel  | Aluminum | Steel  |        |                       |
| <b>1.385 ACSR/AE</b>               | 1200  | 1070                               | 130   | 6336  | 5650                  | 686    | 89.2     | 10.8   | 34,900 |                       |
| <b>1.75 ACSR/AE</b>                | 1943  | 1532                               | 411AW | 10259 | 8089                  | 2170AW | 78.8     | 21.2AW | 62,225 |                       |
| <b>2.50 ACSR/AE</b>                | 3910  | 2960                               | 950   | 20645 | 15629                 | 5016   | 75.7     | 24.3   | 92,000 |                       |

| ACSR/AE - PHYSICAL CHARACTERISTICS |       |   |        |       |                       |         |                   |
|------------------------------------|-------|---|--------|-------|-----------------------|---------|-------------------|
| Conductor Designation              | Total | Nominal Mass Kilograms Per 1,000 Meters |        |       | Percent of Total Mass |         | Rated Strength kN |
|                                    |       | Aluminum                                | Steel  | Total | Aluminum              | Steel   |                   |
| <b>1.385 ACSR/AE</b>               | 1786  | 1592                                    | 194    |       | 89.2                  | 10.8    | 155.2             |
| <b>1.75 ACSR/AE</b>                | 2891  | 2280                                    | 611 AW |       | 78.8                  | 21.2 AW | 276.8             |
| <b>2.50 ACSR/AE</b>                | 5819  | 4405                                    | 1414   |       | 75.7                  | 24.3    | 409.2             |

US Pat. No. 3,291.898