



Conductoare din otel-aliaj de aluminiu, tip AL3/ST1A (aliaj din aluminiu tip AL3, otel tip ST1A), conform EN 50182 , utilizate in Germania AACSR, Aluminium alloy conductors, Steel Reinforced, type AL3/ST1A (aluminium alloy type AL3, steel type ST1A), according to EN 50182, designed to be used in Germany

| Cod               | Cod vechi     | Sectiune aluminiu | Sectiune otel   | Sectiune totala | Numar sarme otel   | Diametru       | Numar sarme aluminiu | Diametru     | Diametru inima | Diametru conductor | Masa conductor | Forta de rupere nominala | Rezistenta electrica la 20°C | Capacitatea de transport a curentului |
|-------------------|---------------|-------------------|-----------------|-----------------|--------------------|----------------|----------------------|--------------|----------------|--------------------|----------------|--------------------------|------------------------------|---------------------------------------|
| Code name         | Old code name | AL. area          | ST. area        | AACSR area      | No. of steel wires | Steel diameter | No. of AL. wires     | AL. diameter | Core diameter  | Overall diameter   | Linear weight  | Breaking Load            | Resistance at 20°C           | Current carrying capacity             |
|                   |               | mm <sup>2</sup>   | mm <sup>2</sup> | mm <sup>2</sup> |                    | mm             |                      | mm           | mm             | mm                 | kg/km          | kN                       | Ohmi/km                      | A                                     |
| 15-AL3 / 3-ST1A   | 16/2.5        | 15.3              | 2.54            | 17.8            | 1                  | 1.80           | 6                    | 1.80         | 1.80           | 5.40               | 61.6           | 7.48                     | 2.1602                       | 134                                   |
| 24-AL3 / 4-ST1A   | 25/4          | 23.9              | 3.98            | 27.8            | 1                  | 2.25           | 6                    | 2.25         | 2.25           | 6.75               | 96.2           | 11.69                    | 1.3825                       | 179                                   |
| 34-AL3 / 6-ST1A   | 35/6          | 34.4              | 5.73            | 40.1            | 1                  | 2.70           | 6                    | 2.70         | 2.70           | 8.10               | 138.6          | 16.66                    | 0.9601                       | 226                                   |
| 44-AL3 / 32-ST1A  | 44/32         | 44.0              | 31.7            | 75.6            | 7                  | 2.40           | 14                   | 2.00         | 7.20           | 11.2               | 369.1          | 49.08                    | 0.7566                       | 279                                   |
| 48-AL3 / 8-ST1A   | 50/8          | 48.3              | 8.04            | 56.3            | 1                  | 3.20           | 6                    | 3.20         | 3.20           | 9.60               | 194.7          | 23.08                    | 0.6835                       | 281                                   |
| 51-AL3 / 30-ST1A  | 50/30         | 51.2              | 29.8            | 81.0            | 7                  | 2.33           | 12                   | 2.33         | 6.99           | 11.7               | 374.6          | 49.12                    | 0.6496                       | 307                                   |
| 70-AL3 / 11-ST1A  | 70/12         | 69.9              | 11.4            | 81.3            | 7                  | 1.44           | 26                   | 1.85         | 4.32           | 11.7               | 282.0          | 33.96                    | 0.4756                       | 356                                   |
| 94-AL3 / 15-ST1A  | 95/15         | 94.4              | 15.3            | 109.7           | 7                  | 1.67           | 26                   | 2.15         | 5.01           | 13.6               | 380.3          | 45.79                    | 0.3521                       | 432                                   |
| 97-AL3 / 56-ST1A  | 95/55         | 96.5              | 56.3            | 152.8           | 7                  | 3.20           | 12                   | 3.20         | 9.60           | 16.0               | 706.5          | 90.40                    | 0.3444                       | 458                                   |
| 106-AL3 / 76-ST1A | 105/75        | 105.7             | 75.5            | 181.2           | 19                 | 2.25           | 14                   | 3.10         | 11.3           | 17.5               | 885.0          | 119.56                   | 0.3155                       | 492                                   |
| 122-AL3 / 20-ST1A | 120/20        | 121.6             | 19.8            | 141.4           | 7                  | 1.90           | 26                   | 2.44         | 5.70           | 15.5               | 490.6          | 59.09                    | 0.2734                       | 510                                   |
| 122-AL3 / 71-ST1A | 120/70        | 122.1             | 71.3            | 193.4           | 7                  | 3.60           | 12                   | 3.60         | 10.8           | 18.0               | 894.2          | 114.41                   | 0.2721                       | 534                                   |
| 128-AL3 / 30-ST1A | 125/30        | 127.9             | 29.8            | 157.8           | 7                  | 2.33           | 30                   | 2.33         | 6.99           | 16.3               | 586.6          | 71.76                    | 0.2601                       | 530                                   |
| 149-AL3 / 24-ST1A | 150/25        | 148.9             | 24.2            | 173.1           | 7                  | 2.10           | 26                   | 2.70         | 6.30           | 17.1               | 600.3          | 72.28                    | 0.2233                       | 581                                   |
| 172-AL3 / 40-ST1A | 170/40        | 171.8             | 40.1            | 211.8           | 7                  | 2.70           | 30                   | 2.70         | 8.10           | 18.9               | 787.7          | 96.36                    | 0.1937                       | 642                                   |
| 184-AL3 / 30-ST1A | 185/30        | 183.8             | 29.8            | 213.6           | 7                  | 2.33           | 26                   | 3.00         | 6.99           | 19.0               | 740.4          | 88.24                    | 0.1809                       | 665                                   |
| 209-AL3 / 34-ST1A | 210/35        | 209.1             | 34.1            | 243.2           | 7                  | 2.49           | 26                   | 3.20         | 7.47           | 20.3               | 843.5          | 100.54                   | 0.1590                       | 724                                   |
| 212-AL3 / 49-ST1A | 210/50        | 212.1             | 49.5            | 261.5           | 7                  | 3.00           | 30                   | 3.00         | 9.00           | 21.0               | 972.5          | 118.96                   | 0.1569                       | 736                                   |
| 231-AL3 / 30-ST1A | 230/30        | 230.9             | 29.8            | 260.8           | 7                  | 2.33           | 24                   | 3.50         | 6.99           | 21.0               | 870.1          | 102.14                   | 0.1439                       | 769                                   |
| 243-AL3 / 39-ST1A | 240/40        | 243.1             | 39.5            | 282.5           | 7                  | 2.68           | 26                   | 3.45         | 8.04           | 21.8               | 979.4          | 116.72                   | 0.1368                       | 797                                   |
| 264-AL3 / 34-ST1A | 265/35        | 263.7             | 34.1            | 297.7           | 7                  | 2.49           | 24                   | 3.74         | 7.47           | 22.4               | 993.6          | 116.64                   | 0.1260                       | 837                                   |
| 304-AL3 / 49-ST1A | 300/50        | 304.3             | 49.5            | 353.7           | 7                  | 3.00           | 26                   | 3.86         | 9.00           | 24.4               | 1226.4         | 146.16                   | 0.1092                       | 923                                   |
| 305-AL3 / 39-ST1A | 305/40        | 304.6             | 39.5            | 344.1           | 7                  | 2.68           | 54                   | 2.68         | 8.04           | 24.1               | 1150.3         | 134.88                   | 0.1093                       | 919                                   |
| 339-AL3 / 30-ST1A | 340/30        | 339.3             | 29.8            | 369.1           | 7                  | 2.33           | 48                   | 3.00         | 6.99           | 25.0               | 1170.2         | 134.12                   | 0.0980                       | 981                                   |
| 382-AL3 / 49-ST1A | 380/50        | 381.7             | 49.5            | 431.2           | 7                  | 3.00           | 54                   | 3.00         | 9.00           | 27.0               | 1441.4         | 169.01                   | 0.0872                       | 1064                                  |
| 386-AL3 / 34-ST1A | 385/35        | 386.0             | 34.1            | 420.1           | 7                  | 2.49           | 48                   | 3.20         | 7.47           | 26.7               | 1332.4         | 152.74                   | 0.0862                       | 1067                                  |
| 434-AL3 / 56-ST1A | 435/55        | 434.3             | 56.3            | 490.6           | 7                  | 3.20           | 54                   | 3.20         | 9.60           | 28.8               | 1640.0         | 190.04                   | 0.0766                       | 1158                                  |
| 449-AL3 / 39-ST1A | 450/40        | 448.7             | 39.5            | 488.2           | 7                  | 2.68           | 48                   | 3.45         | 8.04           | 28.7               | 1547.7         | 177.39                   | 0.0741                       | 1176                                  |
| 490-AL3 / 64-ST1A | 490/65        | 490.3             | 63.6            | 553.8           | 7                  | 3.40           | 54                   | 3.40         | 10.2           | 30.6               | 1851.4         | 214.54                   | 0.0679                       | 1253                                  |
| 550-AL3 / 71-ST1A | 550/70        | 549.7             | 71.3            | 620.9           | 7                  | 3.60           | 54                   | 3.60         | 10.8           | 32.4               | 2075.6         | 240.52                   | 0.0605                       | 1350                                  |
| 562-AL3 / 49-ST1A | 560/50        | 561.7             | 49.5            | 611.2           | 7                  | 3.00           | 48                   | 3.86         | 9.00           | 32.2               | 1937.8         | 222.11                   | 0.0592                       | 1362                                  |
| 679-AL3 / 86-ST1A | 680/85        | 678.6             | 86.0            | 764.5           | 19                 | 2.40           | 54                   | 4.00         | 12.0           | 36.0               | 2547.6         | 298.17                   | 0.0490                       | 1549                                  |