

# AAAC 6201

## All Aluminium Alloy Conductor 6201

Standard Specification : SPLN 41-8 : 1981



Aluminium Alloy 6201

### Technical Data

| Size            | Number / Dia.<br>of Wire | Calculated<br>Cross Sect.<br>Area | Approx.<br>Overall<br>Diameter | Approx.<br>Weight | Calculated<br>Breaking<br>Load | DC Resistance<br>at 20° C<br>Max. | Current<br>Carrying<br>Capacity * | Standard<br>Length<br>per Reel |
|-----------------|--------------------------|-----------------------------------|--------------------------------|-------------------|--------------------------------|-----------------------------------|-----------------------------------|--------------------------------|
| mm <sup>2</sup> | No. / mm                 | mm <sup>2</sup>                   | mm                             | kg/km             | kN                             | Ohm/km                            | A                                 | m                              |
| 16              | 7 / 1.75                 | 16.8                              | 5.25                           | 46                | 4.7                            | 1.955                             | 101                               | 2,000                          |
| 25              | 7 / 2.25                 | 27.8                              | 6.75                           | 76                | 7.7                            | 1.183                             | 139                               | 2,000                          |
| 35              | 7 / 2.50                 | 34.4                              | 7.50                           | 94                | 9.6                            | 0.958                             | 159                               | 2,000                          |
| 50              | 7 / 3.00                 | 49.5                              | 9.00                           | 135               | 13.8                           | 0.665                             | 201                               | 2,000                          |
| 50              | 19 / 1.75                | 45.7                              | 8.75                           | 126               | 12.7                           | 0.724                             | 191                               | 2,000                          |
| 55              | 7 / 3.25                 | 58.1                              | 9.75                           | 159               | 16.2                           | 0.567                             | 222                               | 2,000                          |
| 70              | 19 / 2.25                | 75.5                              | 11.25                          | 208               | 21.1                           | 0.438                             | 263                               | 2,000                          |
| 95              | 19 / 2.50                | 93.3                              | 12.50                          | 256               | 26.1                           | 0.355                             | 301                               | 2,000                          |
| 100             | 7 / 4.25                 | 99.3                              | 12.75                          | 272               | 27.7                           | 0.332                             | 313                               | 2,000                          |
| 120             | 19 / 2.75                | 112.9                             | 13.75                          | 310               | 31.6                           | 0.293                             | 340                               | 2,000                          |
| 150             | 19 / 3.25                | 157.6                             | 16.25                          | 433               | 44.0                           | 0.210                             | 421                               | 2,000                          |
| 150             | 37 / 2.25                | 147.1                             | 15.75                          | 405               | 41.1                           | 0.225                             | 404                               | 2,000                          |
| 185             | 37 / 2.50                | 181.6                             | 17.50                          | 500               | 50.7                           | 0.183                             | 461                               | 2,000                          |
| 240             | 61 / 2.25                | 242.5                             | 20.25                          | 669               | 67                             | 0.137                             | 555                               | 2,000                          |
| 240             | 19 / 4.00                | 238.8                             | 20.00                          | 656               | 68                             | 0.139                             | 549                               | 2,000                          |
| 300             | 61 / 2.50                | 299.4                             | 22.50                          | 826               | 84                             | 0.111                             | 636                               | 2,000                          |
| 400             | 61 / 3.00                | 431.2                             | 27.00                          | 1,190             | 120                            | 0.077                             | 803                               | 2,000                          |
| 500             | 61 / 3.25                | 506.0                             | 29.25                          | 1,397             | 141                            | 0.066                             | 886                               | 2,000                          |
| 630             | 91 / 3.00                | 643.2                             | 33.00                          | 1,780             | 180                            | 0.052                             | 1,029                             | 2,000                          |
| 800             | 91 / 3.25                | 754.9                             | 35.75                          | 2,089             | 211                            | 0.044                             | 1,140                             | 2,000                          |
| 1000            | 91 / 3.75                | 1005.1                            | 41.25                          | 2,781             | 281                            | 0.033                             | 1,357                             | 1,000                          |

\*Note : Ambient temperature : 35°C Continuous operating temperature of conductor : 80°C  
Wind velocity : 0.5 m/sec Conductivity of Al : 52.5% IACS