

**Code****YAVV , NAYY AL/PVC/PVC****Voltage Rating****0.6/1 kV****Standards****TS IEC 60502-1 , VDE 0276****IEC 60228****Conductor****Reaction to Fire Classification ( CPR )****EN 60332-1-2****Flame Retardant****Conductor****Solid Aluminum Conductor (Class 1)****Stranded Aluminum Conductor (Class 2)****Insulation****PVC (Polyvinyl Chloride)****Filler****PVC Filler****Armour****-****Sheath****PVC (Polyvinyl Chloride) - UV Resistance****Technical Data**

|                                   |          |                                     |
|-----------------------------------|----------|-------------------------------------|
| <b>Max. Operating Temperature</b> | <b>:</b> | <b>70°C</b>                         |
| <b>Short Circuit Temperature</b>  | <b>:</b> | <b>160°C (max.5 sec)</b>            |
| <b>Bending Radius</b>             | <b>:</b> | <b>12D ( D : Overall Diameter )</b> |
| <b>Test Voltage</b>               | <b>:</b> | <b>3,5 kV</b>                       |

**Application:****For installation indoors and outdoors, in cable ducts, underground , in power or switching stations, local energy distribution industrial plants, where there is no risk of mechanical damage.**

| Nominal Cross Section<br>(mm <sup>2</sup> ) | Overall Diameter<br>(mm) | Net Weight<br>(kg/km) | Delivery Length<br>(m) | Resistance at 20°C<br>(ohm/km) | Current Carrying Capacity |                |
|---------------------------------------------|--------------------------|-----------------------|------------------------|--------------------------------|---------------------------|----------------|
|                                             |                          |                       |                        |                                | In Ground at 20°C         | In Air at 30°C |
| 1x10                                        | 8,5                      | 107,8                 | 1000                   | 3,08                           | -                         | -              |
| 1x16                                        | 9,5                      | 136,9                 | 1000                   | 1,91                           | -                         | -              |
| 1x25                                        | 11,1                     | 193,3                 | 1000                   | 1,20                           | 106                       | 87             |
| 1x35                                        | 12,1                     | 235,8                 | 1000                   | 0,868                          | 127                       | 107            |
| 1x50                                        | 13,7                     | 280,3                 | 1000                   | 0,641                          | 151                       | 131            |
| 1x70                                        | 15,7                     | 355,7                 | 1000                   | 0,443                          | 185                       | 166            |
| 1x95                                        | 17,7                     | 466,1                 | 1000                   | 0,320                          | 222                       | 205            |
| 1x120                                       | 19,2                     | 578,2                 | 1000                   | 0,253                          | 253                       | 239            |
| 1x150                                       | 21,7                     | 700,0                 | 1000                   | 0,206                          | 284                       | 273            |
| 1x185                                       | 24,0                     | 871,9                 | 1000                   | 0,164                          | 322                       | 317            |
| 1x240                                       | 26,8                     | 1087,6                | 1000                   | 0,125                          | 375                       | 378            |
| 1x300                                       | 29,8                     | 1415,2                | 1000                   | 0,100                          | 425                       | 437            |
| 1x400                                       | 33,4                     | 1797,3                | 1000                   | 0,0778                         | 487                       | 513            |
| 1x500                                       | 37,1                     | 2205,0                | 500                    | 0,0605                         | 558                       | 600            |
| 1x630                                       | 41,0                     | 2661,7                | 500                    | 0,0469                         | 635                       | 701            |
| 1x800                                       | 45,1                     | 3295,1                | 250                    | 0,0367                         | 716                       | 809            |

| Nominal Cross Section<br>(mm <sup>2</sup> ) | Overall Diameter<br>(mm) | Net Weight<br>(kg/km) | Delivery Length<br>(m) | Resistance at 20°C<br>(ohm/km) | Current Carrying Capacity |                |
|---------------------------------------------|--------------------------|-----------------------|------------------------|--------------------------------|---------------------------|----------------|
|                                             |                          |                       |                        |                                | In Ground at 20°C         | In Air at 30°C |
| 2x4 re *                                    | 13,0                     | 252,1                 | 1000                   | 7,22                           | -                         | -              |
| 2x6 re *                                    | 14,0                     | 294,3                 | 1000                   | 4,81                           | -                         | -              |
| 2x10                                        | 16,0                     | 348,2                 | 1000                   | 3,08                           | -                         | -              |
| 2x16                                        | 18,0                     | 449,1                 | 1000                   | 1,91                           | -                         | -              |
| 2x25                                        | 21,1                     | 647,1                 | 1000                   | 1,20                           | 102                       | 82             |
| 2x35                                        | 23,4                     | 806,4                 | 1000                   | 0,868                          | 123                       | 100            |
| 2x50                                        | 26,6                     | 936,5                 | 1000                   | 0,641                          | 144                       | 119            |
| 2x70                                        | 31,1                     | 1337,0                | 1000                   | 0,443                          | 179                       | 152            |
| 2x95                                        | 35,1                     | 1715,4                | 1000                   | 0,320                          | 215                       | 186            |
| 2x120                                       | 38,4                     | 2070,5                | 1000                   | 0,253                          | 245                       | 216            |
| 2x150                                       | 43,6                     | 2615,4                | 1000                   | 0,206                          | 275                       | 246            |
| 2x185                                       | 48,6                     | 3236,3                | 1000                   | 0,164                          | 313                       | 285            |
| 2x240                                       | 54,1                     | 4042,7                | 500                    | 0,125                          | 364                       | 338            |
| 2x300                                       | 60,1                     | 5093,1                | 500                    | 0,100                          | 419                       | 400            |
| 2x400                                       | 67,7                     | 6481,3                | 500                    | 0,0778                         | 484                       | 472            |

| Nominal Cross Section<br>(mm <sup>2</sup> ) | Overall Diameter<br>(mm) | Net Weight<br>(kg/km) | Delivery Length<br>(m) | Resistance at 20°C<br>(ohm/km) | Current Carrying Capacity |                |
|---------------------------------------------|--------------------------|-----------------------|------------------------|--------------------------------|---------------------------|----------------|
|                                             |                          |                       |                        |                                | In Ground at 20°C         | In Air at 30°C |
| 3x10                                        | 16,9                     | 405,8                 | 1000                   | 3,08                           | -                         | -              |
| 3x16                                        | 19,0                     | 519,0                 | 1000                   | 1,91                           | -                         | -              |
| 3x25                                        | 22,4                     | 718,5                 | 1000                   | 1,20                           | 102                       | 82             |
| 3x35                                        | 24,9                     | 920,9                 | 1000                   | 0,868                          | 123                       | 100            |
| 3x50                                        | 28,5                     | 1101,6                | 1000                   | 0,641                          | 144                       | 119            |
| 3x70                                        | 33,2                     | 1481,4                | 1000                   | 0,443                          | 179                       | 152            |
| 3x95                                        | 37,7                     | 1982,5                | 1000                   | 0,320                          | 215                       | 186            |
| 3x120                                       | 41,2                     | 2366,5                | 1000                   | 0,253                          | 245                       | 216            |
| 3x150                                       | 46,7                     | 3102,2                | 500                    | 0,206                          | 275                       | 246            |
| 3x185                                       | 52,1                     | 3840,3                | 500                    | 0,164                          | 313                       | 285            |
| 3x240                                       | 58,1                     | 4809,2                | 500                    | 0,125                          | 364                       | 338            |
| 3x300                                       | 64,5                     | 6221,4                | 250                    | 0,100                          | 419                       | 400            |
| 3x400                                       | 72,7                     | 7771,4                | 250                    | 0,0778                         | 484                       | 472            |

| Nominal Cross Section<br>(mm <sup>2</sup> ) | Overall Diameter<br>(mm) | Net Weight<br>(kg/km) | Delivery Length<br>(m) | Resistance at 20°C<br>(ohm/km) | Current Carrying Capacity |                |
|---------------------------------------------|--------------------------|-----------------------|------------------------|--------------------------------|---------------------------|----------------|
|                                             |                          |                       |                        |                                | In Ground at 20°C         | In Air at 30°C |
| 3x10+6 *                                    | 17,8                     | 489,2                 | 1000                   | 3,08 - 4,81                    | -                         | -              |
| 3x16+10                                     | 20,2                     | 610,1                 | 1000                   | 1,91 - 3,08                    | -                         | -              |
| 3x25+16                                     | 23,6                     | 823,6                 | 1000                   | 1,20 - 1,91                    | 102                       | 82             |
| 3x35+16                                     | 25,7                     | 1016,8                | 1000                   | 0,868 - 1,91                   | 123                       | 100            |
| 3x50+25                                     | 29,8                     | 1284,3                | 1000                   | 0,641 - 1,20                   | 144                       | 119            |
| 3x70+35                                     | 34,5                     | 1723,8                | 1000                   | 0,443 - 0,868                  | 179                       | 152            |
| 3x95+50                                     | 39,3                     | 2236,7                | 1000                   | 0,320 - 0,641                  | 215                       | 186            |
| 3x120+70                                    | 43,5                     | 2785,8                | 500                    | 0,253 - 0,443                  | 245                       | 216            |
| 3x150+70                                    | 48,2                     | 3266,0                | 500                    | 0,206 - 0,443                  | 275                       | 246            |
| 3x185+95                                    | 54,0                     | 4193,1                | 500                    | 0,164 - 0,320                  | 313                       | 285            |
| 3x240+120                                   | 59,9                     | 5274,1                | 250                    | 0,125 - 0,253                  | 364                       | 338            |
| 3x300+150                                   | 67,3                     | 6796,6                | 250                    | 0,100 - 0,206                  | 419                       | 400            |
| 3x400+185                                   | 75,2                     | 9224,8                | 250                    | 0,0778 - 0,164                 | 484                       | 472            |

| Nominal Cross Section<br>(mm <sup>2</sup> ) | Overall Diameter<br>(mm) | Net Weight<br>(kg/km) | Delivery Length<br>(m) | Resistance at 20°C<br>(ohm/km) | Current Carrying Capacity |                |
|---------------------------------------------|--------------------------|-----------------------|------------------------|--------------------------------|---------------------------|----------------|
|                                             |                          |                       |                        |                                | In Ground at 20°C         | In Air at 30°C |
| 4x10                                        | 18,4                     | 482,4                 | 1000                   | 3,08                           | -                         | -              |
| 4x16                                        | 20,8                     | 644,9                 | 1000                   | 1,91                           | -                         | -              |
| 4x25                                        | 24,6                     | 912,5                 | 1000                   | 1,20                           | 102                       | 82             |
| 4x35                                        | 27,3                     | 1123,4                | 1000                   | 0,868                          | 123                       | 100            |
| 4x50                                        | 31,5                     | 1421,5                | 1000                   | 0,641                          | 144                       | 119            |
| 4x70                                        | 36,8                     | 1887,7                | 1000                   | 0,443                          | 179                       | 152            |
| 4x95                                        | 41,7                     | 2439,7                | 1000                   | 0,320                          | 215                       | 186            |
| 4x120                                       | 45,7                     | 3025,0                | 500                    | 0,253                          | 245                       | 216            |
| 4x150                                       | 51,8                     | 3840,5                | 500                    | 0,206                          | 275                       | 246            |
| 4x185                                       | 57,9                     | 4734,0                | 500                    | 0,164                          | 313                       | 285            |
| 4x240                                       | 64,5                     | 5832,0                | 250                    | 0,125                          | 364                       | 338            |
| 4x300                                       | 72,2                     | 7732,0                | 250                    | 0,100                          | 419                       | 400            |
| 4x400                                       | 80,9                     | 9807,9                | 250                    | 0,0778                         | 484                       | 472            |
| 4x500                                       | 89,9                     | 11841,3               | 250                    | 0,0605                         | 553                       | 539            |

| Nominal Cross Section<br>(mm <sup>2</sup> ) | Overall Diameter<br>(mm) | Net Weight<br>(kg/km) | Delivery Length<br>(m) | Resistance at 20°C<br>(ohm/km) | Current Carrying Capacity |                |
|---------------------------------------------|--------------------------|-----------------------|------------------------|--------------------------------|---------------------------|----------------|
|                                             |                          |                       |                        |                                | In Ground at 20°C         | In Air at 30°C |
| 5x10                                        | 20,0                     | 663,4                 | 1000                   | 3,08                           | -                         | -              |
| 5x16                                        | 22,7                     | 852,6                 | 1000                   | 1,91                           | -                         | -              |
| 5x25                                        | 26,9                     | 1191,7                | 1000                   | 1,20                           | 102                       | 82             |
| 5x35                                        | 30,1                     | 1484,2                | 1000                   | 0,868                          | 123                       | 100            |
| 5x50                                        | 34,7                     | 1884,2                | 1000                   | 0,641                          | 144                       | 119            |
| 5x70                                        | 40,6                     | 2519,5                | 500                    | 0,443                          | 179                       | 152            |
| 5x95                                        | 46,1                     | 3248,9                | 500                    | 0,320                          | 215                       | 186            |
| 5x120                                       | 50,5                     | 3896,8                | 500                    | 0,253                          | 245                       | 216            |
| 5x150                                       | 57,4                     | 4899,6                | 500                    | 0,206                          | 275                       | 246            |
| 5x185                                       | 64,0                     | 6105,0                | 250                    | 0,164                          | 313                       | 285            |
| 5x240                                       | 71,5                     | 7686,7                | 250                    | 0,125                          | 364                       | 338            |
| 5x300                                       | 80,0                     | 9845,3                | 250                    | 0,100                          | 419                       | 400            |
| 5x400                                       | 89,7                     | 12528,0               | 250                    | 0,0778                         | 484                       | 472            |

| Nominal Cross Section<br>(mm <sup>2</sup> ) | Overall Diameter<br>(mm) | Net Weight<br>(kg/km) | Delivery Length<br>(m) | Resistance at 20°C<br>(ohm/km) | Current Carrying Capacity |                |
|---------------------------------------------|--------------------------|-----------------------|------------------------|--------------------------------|---------------------------|----------------|
|                                             |                          |                       |                        |                                | In Ground at 20°C         | In Air at 30°C |
| 4x16+10                                     | 22,1                     | 754,7                 | 1000                   | 1,91 - 3,08                    | -                         | -              |
| 4x25+16                                     | 26,1                     | 1053,8                | 1000                   | 1,20 - 1,91                    | 102                       | 82             |
| 4x35+16                                     | 28,6                     | 1295,2                | 1000                   | 0,868 - 1,91                   | 123                       | 100            |
| 4x50+25                                     | 33,2                     | 1665,9                | 1000                   | 0,641 - 1,20                   | 144                       | 119            |
| 4x70+35                                     | 38,6                     | 2264,8                | 500                    | 0,443 - 0,868                  | 179                       | 152            |
| 4x95+50                                     | 43,9                     | 2946,1                | 500                    | 0,320 - 0,641                  | 215                       | 186            |
| 4x120+70                                    | 48,6                     | 3630,6                | 500                    | 0,253 - 0,443                  | 245                       | 216            |
| 4x150+70                                    | 54,1                     | 4415,4                | 500                    | 0,206 - 0,443                  | 275                       | 246            |
| 4x185+95                                    | 60,6                     | 5549,0                | 250                    | 0,164 - 0,320                  | 313                       | 285            |
| 4x240+120                                   | 67,3                     | 6904,1                | 250                    | 0,125 - 0,253                  | 364                       | 338            |
| 4x300+150                                   | 75,6                     | 8894,7                | 250                    | 0,100 - 0,206                  | 419                       | 400            |
| 4x400+185                                   | 84,6                     | 11235,3               | 250                    | 0,0778 - 0,164                 | 484                       | 472            |
| 4x240+185                                   | 70,0                     | 7390,0                | 250                    | 0,125 - 0,164                  | 364                       | 338            |
| 4x35+1,5                                    | 27,3                     | 1140,0                | 1000                   | 0,868 - 12,1                   | 123                       | 100            |
| 4x35+2,5                                    | 27,3                     | 1150,4                | 1000                   | 0,868 - 7,41                   | 123                       | 100            |
| 4x25+2,5                                    | 24,6                     | 944,5                 | 1000                   | 1,20 - 7,41                    | 102                       | 82             |
| 4x150+1,5                                   | 51,8                     | 3863,8                | 500                    | 0,206 - 12,1                   | 275                       | 246            |

**Note 1:**

\* Conductor resistance calculated theoretically.

**Note 2:**

Current carrying capacities are valid at 30°C ambient temperature.