

**Code****A2X2Y-AF      AL/XLPE/PVC/HDPE****Voltage Rating****0.6/1 kV AC   -   1000 / 1800 V DC****Standards****IEC 60228  
EN 61034  
EN 50267  
EN 60332-3****Conductor  
Smoke Density  
Halogen Free  
Flame Retardant (Cat C)****Reaction to Fire Classification ( CPR )****EN 60332-1-2****Flame Retardant****Conductor****Flexible Aluminum Conductor (Class 5)****Insulation****XLPE (Cross-linked Polyethylene)****Filler****PVC Filler****Armour****-****Sheath****HDPE (High Density Polyethylene) - UV Resistance****Waterproof ACC. AD8****Technical Data**

|                                   |          |                                    |
|-----------------------------------|----------|------------------------------------|
| <b>Max. Operating Temperature</b> | <b>:</b> | <b>90°C</b>                        |
| <b>Short Circuit Temperature</b>  | <b>:</b> | <b>250°C (max.5 sec)</b>           |
| <b>Bending Radius</b>             | <b>:</b> | <b>6D ( 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 distributions, industrial plants, where there is no risk of mechanical damage.Suitable for comparatively high maximum permissible conductor temperature.**

| 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 |
| 1x1,5*                                      | 6,9                      | 47,6                  | 1000                   | 19,25                          | -                         | -              |
| 1x2,5*                                      | 7,4                      | 55,0                  | 1000                   | 11,55                          | -                         | -              |
| 1x4*                                        | 8,0                      | 66,1                  | 1000                   | 7,22                           | -                         | -              |
| 1x6*                                        | 8,3                      | 76,8                  | 1000                   | 4,81                           | -                         | -              |
| 1x10                                        | 9,6                      | 100,5                 | 1000                   | 3,08                           | -                         | -              |
| 1x16                                        | 10,4                     | 125,0                 | 1000                   | 1,91                           | -                         | -              |
| 1x25                                        | 12,5                     | 178,1                 | 1000                   | 1,20                           | 114                       | 106            |
| 1x35                                        | 13,5                     | 216,7                 | 1000                   | 0,868                          | 136                       | 130            |
| 1x50                                        | 14,7                     | 268,9                 | 1000                   | 0,641                          | 162                       | 161            |
| 1x70                                        | 16,9                     | 352,2                 | 1000                   | 0,443                          | 199                       | 204            |
| 1x95                                        | 18,8                     | 447,0                 | 1000                   | 0,320                          | 238                       | 252            |
| 1x120                                       | 21,3                     | 558,6                 | 1000                   | 0,253                          | 272                       | 295            |
| 1x150                                       | 23,0                     | 674,2                 | 1000                   | 0,206                          | 305                       | 339            |
| 1x185                                       | 25,7                     | 829,3                 | 1000                   | 0,164                          | 347                       | 395            |
| 1x240                                       | 28,7                     | 1056,7                | 1000                   | 0,125                          | 404                       | 472            |
| 1x300                                       | 31,7                     | 1305,0                | 1000                   | 0,100                          | 457                       | 547            |
| 1x400                                       | 35,2                     | 1644,2                | 500                    | 0,0778                         | 525                       | 643            |
| 1x500                                       | 40,2                     | 2080,8                | 500                    | 0,0605                         | 601                       | 754            |
| 1x630                                       | 44,1                     | 2573,8                | 500                    | 0,0469                         | 687                       | 882            |

| 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 |
| 2x1,5*                                      | 10,4                     | 118,7                 | 1000                   | 19,25                          | -                         | -              |
| 2x2,5*                                      | 11,3                     | 142,8                 | 1000                   | 11,55                          | -                         | -              |
| 2x4*                                        | 12,6                     | 179,8                 | 1000                   | 7,22                           | -                         | -              |
| 2x6*                                        | 13,5                     | 221,1                 | 1000                   | 4,81                           | -                         | -              |
| 2x10                                        | 15,8                     | 298,0                 | 1000                   | 3,08                           | -                         | -              |
| 2x16                                        | 17,5                     | 377,9                 | 1000                   | 1,91                           | -                         | -              |
| 2x25                                        | 21,5                     | 576,0                 | 1000                   | 1,20                           | 112                       | 102            |
| 2x35                                        | 23,8                     | 722,0                 | 1000                   | 0,868                          | 135                       | 126            |
| 2x50                                        | 26,3                     | 916,6                 | 1000                   | 0,641                          | 158                       | 149            |
| 2x70                                        | 30,9                     | 1237,8                | 1000                   | 0,443                          | 196                       | 191            |
| 2x95                                        | 35,0                     | 1586,0                | 1000                   | 0,320                          | 234                       | 234            |
| 2x120                                       | 39,3                     | 2015,7                | 1000                   | 0,253                          | 268                       | 273            |
| 2x150                                       | 43,0                     | 2449,4                | 1000                   | 0,206                          | 300                       | 311            |
| 2x185                                       | 48,2                     | 3047,2                | 500                    | 0,164                          | 342                       | 360            |
| 2x240                                       | 54,3                     | 3906,2                | 500                    | 0,125                          | 398                       | 427            |

| 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 |
| 3x1,5*                                      | 10,9                     | 128,4                 | 1000                   | 19,25                          | -                         | -              |
| 3x2,5*                                      | 11,8                     | 155,8                 | 1000                   | 11,55                          | -                         | -              |
| 3x4*                                        | 13,2                     | 197,6                 | 1000                   | 7,22                           | -                         | -              |
| 3x6*                                        | 14,2                     | 245,2                 | 1000                   | 4,81                           | -                         | -              |
| 3x10                                        | 16,7                     | 332,3                 | 1000                   | 3,08                           | -                         | -              |
| 3x16                                        | 18,5                     | 427,0                 | 1000                   | 1,91                           | -                         | -              |
| 3x25                                        | 22,9                     | 651,2                 | 1000                   | 1,20                           | 112                       | 102            |
| 3x35                                        | 25,3                     | 821,5                 | 1000                   | 0,868                          | 135                       | 126            |
| 3x50                                        | 28,1                     | 1059,8                | 1000                   | 0,641                          | 158                       | 149            |
| 3x70                                        | 33,2                     | 1424,5                | 1000                   | 0,443                          | 196                       | 191            |
| 3x95                                        | 37,5                     | 1839,9                | 1000                   | 0,320                          | 234                       | 234            |
| 3x120                                       | 42,2                     | 2317,0                | 1000                   | 0,253                          | 268                       | 273            |
| 3x150                                       | 46,3                     | 2827,9                | 1000                   | 0,206                          | 300                       | 311            |
| 3x185                                       | 51,8                     | 3526,9                | 500                    | 0,164                          | 342                       | 360            |
| 3x240                                       | 58,6                     | 4530,0                | 500                    | 0,125                          | 398                       | 427            |
| 3x300                                       | 64,4                     | 5616,3                | 500                    | 0,100                          | 457                       | 507            |
| 3x400                                       | 72,5                     | 7151,1                | 250                    | 0,0778                         | 529                       | 600            |

| 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 |
| 3x16+10                                     | 19,7                     | 482,6                 | 1000                   | 1,91 - 3,08                    | -                         | -              |
| 3x25+16                                     | 23,9                     | 712,6                 | 1000                   | 1,20 - 1,91                    | 112                       | 102            |
| 3x35+16                                     | 25,9                     | 864,7                 | 1000                   | 0,868 - 1,91                   | 135                       | 126            |
| 3x50+25                                     | 29,4                     | 1156,2                | 1000                   | 0,641 - 1,20                   | 158                       | 149            |
| 3x70+35                                     | 34,6                     | 1548,1                | 1000                   | 0,443 - 0,868                  | 196                       | 191            |
| 3x95+50                                     | 39,0                     | 1997,1                | 1000                   | 0,320 - 0,641                  | 234                       | 234            |
| 3x120+70                                    | 44,3                     | 2570,1                | 500                    | 0,253 - 0,443                  | 268                       | 273            |
| 3x150+70                                    | 47,7                     | 3025,9                | 500                    | 0,206 - 0,443                  | 300                       | 311            |
| 3x185+95                                    | 53,7                     | 3785,6                | 500                    | 0,164 - 0,320                  | 342                       | 360            |
| 3x240+120                                   | 60,4                     | 4859,8                | 500                    | 0,125 - 0,253                  | 398                       | 427            |
| 3x300+150                                   | 66,6                     | 5965,5                | 250                    | 0,100 - 0,206                  | 457                       | 507            |
| 3x400+185                                   | 74,8                     | 7537,2                | 250                    | 0,0778 - 0,164                 | 529                       | 600            |

| 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 |
| 4x1,5*                                      | 11,6                     | 147,3                 | 1000                   | 19,25                          | -                         | -              |
| 4x2,5*                                      | 12,7                     | 180,4                 | 1000                   | 11,55                          | -                         | -              |
| 4x4*                                        | 14,2                     | 231,0                 | 1000                   | 7,22                           | -                         | -              |
| 4x6*                                        | 15,4                     | 288,5                 | 1000                   | 4,81                           | -                         | -              |
| 4x10                                        | 18,2                     | 395,5                 | 1000                   | 3,08                           | -                         | -              |
| 4x16                                        | 20,2                     | 513,1                 | 1000                   | 1,91                           | -                         | -              |
| 4x25                                        | 25,1                     | 787,7                 | 1000                   | 1,20                           | 112                       | 102            |
| 4x35                                        | 27,8                     | 997,7                 | 1000                   | 0,868                          | 135                       | 126            |
| 4x50                                        | 31,1                     | 1302,2                | 1000                   | 0,641                          | 158                       | 149            |
| 4x70                                        | 36,7                     | 1749,3                | 500                    | 0,443                          | 196                       | 191            |
| 4x95                                        | 41,6                     | 2261,9                | 500                    | 0,320                          | 234                       | 234            |
| 4x120                                       | 46,8                     | 2862,5                | 500                    | 0,253                          | 268                       | 273            |
| 4x150                                       | 51,3                     | 3500,9                | 250                    | 0,206                          | 300                       | 311            |
| 4x185                                       | 57,5                     | 4357,8                | 250                    | 0,164                          | 342                       | 360            |
| 4x240                                       | 65,0                     | 5628,2                | 250                    | 0,125                          | 398                       | 427            |
| 4x300                                       | 71,6                     | 6884,9                | 250                    | 0,100                          | 457                       | 507            |
| 4x400                                       | 80,6                     | 8784,2                | 250                    | 0,0778                         | 529                       | 600            |

| 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 |
| 5x1,5*                                      | 12,5                     | 173,5                 | 1000                   | 19,25                          | -                         | -              |
| 5x2,5*                                      | 13,7                     | 214,8                 | 1000                   | 11,55                          | -                         | -              |
| 5x4*                                        | 15,4                     | 278,2                 | 1000                   | 7,22                           | -                         | -              |
| 5x6*                                        | 16,6                     | 354,9                 | 1000                   | 4,81                           | -                         | -              |
| 5x10                                        | 19,8                     | 485,5                 | 1000                   | 3,08                           | -                         | -              |
| 5x16                                        | 22,0                     | 634,2                 | 1000                   | 1,91                           | -                         | -              |
| 5x25                                        | 27,5                     | 984,4                 | 1000                   | 1,20                           | 112                       | 102            |
| 5x35                                        | 30,7                     | 1260,2                | 1000                   | 0,868                          | 135                       | 126            |
| 5x50                                        | 34,5                     | 1643,1                | 1000                   | 0,641                          | 158                       | 149            |
| 5x70                                        | 40,5                     | 2226,5                | 500                    | 0,443                          | 196                       | 191            |
| 5x95                                        | 46,0                     | 2865,7                | 500                    | 0,320                          | 234                       | 234            |
| 5x120                                       | 51,8                     | 3623,3                | 500                    | 0,253                          | 268                       | 273            |
| 5x150                                       | 56,8                     | 4458,0                | 250                    | 0,206                          | 300                       | 311            |
| 5x185                                       | 63,6                     | 5545,3                | 250                    | 0,164                          | 342                       | 360            |
| 5x240                                       | 71,9                     | 7167,9                | 250                    | 0,125                          | 398                       | 427            |
| 5x300                                       | 79,3                     | 8762,2                | 250                    | 0,100                          | 457                       | 507            |
| 5x400                                       | 89,4                     | 11222,8               | 250                    | 0,0778                         | 529                       | 600            |

**Note 1:**

\* Conductor resistance calculated theoretically. Conductor resistances are taken from EN 60228 Class-2 Aluminum values.

**Note 2:**

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

