

# NA2XY 1 x (10-800) mm<sup>2</sup> 0.6/1 kV

## AI / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009, IEC 60502-1 : 2004 / AMD1 : 2009

### Construction Data

| Nom. Cross Section Area | Overall Diameter | Cable Weight  |
|-------------------------|------------------|---------------|
| mm <sup>2</sup>         | approx. mm       | approx. kg/km |
| 10                      | 8.5              | 84            |
| 16                      | 9.7              | 113           |
| 25                      | 11.3             | 156           |
| 35                      | 12.5             | 196           |
| 50                      | 14.1             | 257           |
| 70                      | 16.2             | 335           |
| 95                      | 18.1             | 425           |
| 120                     | 19.6             | 500           |
| 150                     | 22.5             | 639           |
| 185                     | 25.0             | 783           |
| 240                     | 28.0             | 1,008         |
| 300                     | 30.5             | 1,208         |
| 400                     | 36.0             | 1,696         |
| 500                     | 39.0             | 1,982         |
| 630                     | 43.5             | 2,473         |
| 800                     | 48.0             | 3,037         |

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated



#### Note :

##### Conductor Shape

10 - 16 sqmm supplied in non compacted circular stranded (rm) conductor shape  
25 - 800 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

##### Standard Packing

10 - 800 sqmm supplied in wooden drum @ 1000 m  
Length Tolerance per drum  $\pm 2\%$

### Electrical Data

| Conductor                           |                            |                             | Inductance                                                                                                  |                                                                                                            | Current - Carrying Capacity at 30° C                                                |           |                                                                                       |           | Short<br>circuit current<br>at<br>1 sec |
|-------------------------------------|----------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|-----------|-----------------------------------------|
| Nom.<br>Cross<br>Sect.<br><br>(mm²) | DC<br>Resistance<br>@ 20°C | AC<br>Resistance<br>at 90°C | Trefoil<br>formation<br> | Flat<br>Formation*)<br> |  |           |  |           |                                         |
|                                     | Max.                       | Max.                        |                                                                                                             |                                                                                                            | in air                                                                              | in ground | in air                                                                                | in ground |                                         |
|                                     | (Ω/km)                     | (Ω/km)                      | (mH/km)                                                                                                     | (mH/km)                                                                                                    | Max.                                                                                | Max.      | Max.                                                                                  | Max.      |                                         |
|                                     |                            |                             |                                                                                                             |                                                                                                            | (A)                                                                                 | (A)       | (A)                                                                                   | (A)       | Max.<br>(kA)                            |
| 10                                  | 3.08                       | 3.942                       | 0.336                                                                                                       | 0.602                                                                                                      | 60                                                                                  | 69        | 80                                                                                    | 76        | 0.94                                    |
| 16                                  | 1.91                       | 2.445                       | 0.314                                                                                                       | 0.580                                                                                                      | 80                                                                                  | 90        | 106                                                                                   | 99        | 1.50                                    |
| 25                                  | 1.20                       | 1.536                       | 0.303                                                                                                       | 0.569                                                                                                      | 109                                                                                 | 116       | 142                                                                                   | 128       | 2.35                                    |
| 35                                  | 0.868                      | 1.111                       | 0.289                                                                                                       | 0.555                                                                                                      | 134                                                                                 | 139       | 175                                                                                   | 153       | 3.29                                    |
| 50                                  | 0.641                      | 0.821                       | 0.281                                                                                                       | 0.547                                                                                                      | 163                                                                                 | 165       | 212                                                                                   | 182       | 4.70                                    |
| 70                                  | 0.443                      | 0.567                       | 0.271                                                                                                       | 0.537                                                                                                      | 209                                                                                 | 203       | 270                                                                                   | 224       | 6.58                                    |
| 95                                  | 0.320                      | 0.410                       | 0.263                                                                                                       | 0.529                                                                                                      | 259                                                                                 | 244       | 333                                                                                   | 269       | 8.93                                    |
| 120                                 | 0.253                      | 0.325                       | 0.259                                                                                                       | 0.525                                                                                                      | 303                                                                                 | 278       | 388                                                                                   | 307       | 11.28                                   |
| 150                                 | 0.206                      | 0.265                       | 0.259                                                                                                       | 0.525                                                                                                      | 350                                                                                 | 311       | 444                                                                                   | 345       | 14.10                                   |
| 185                                 | 0.164                      | 0.211                       | 0.256                                                                                                       | 0.522                                                                                                      | 407                                                                                 | 354       | 516                                                                                   | 393       | 17.39                                   |
| 240                                 | 0.1250                     | 0.162                       | 0.252                                                                                                       | 0.518                                                                                                      | 489                                                                                 | 411       | 617                                                                                   | 458       | 22.56                                   |
| 300                                 | 0.1000                     | 0.130                       | 0.249                                                                                                       | 0.515                                                                                                      | 566                                                                                 | 464       | 713                                                                                   | 520       | 28.20                                   |
| 400                                 | 0.0778                     | 0.102                       | 0.247                                                                                                       | 0.513                                                                                                      | 666                                                                                 | 531       | 837                                                                                   | 599       | 37.60                                   |
| 500                                 | 0.0605                     | 0.081                       | 0.245                                                                                                       | 0.511                                                                                                      | 785                                                                                 | 607       | 988                                                                                   | 691       | 47.00                                   |
| 630                                 | 0.0469                     | 0.065                       | 0.243                                                                                                       | 0.509                                                                                                      | 918                                                                                 | 691       | 1160                                                                                  | 796       | 59.22                                   |
| 800                                 | 0.0367                     | 0.053                       | 0.241                                                                                                       | 0.507                                                                                                      | 1062                                                                                | 778       | 1354                                                                                  | 911       | 75.20                                   |

\* Flat Formation spacing 2 times overall diameter of cable

\*\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

# NA2XY 2 x (10-300) mm<sup>2</sup> 0.6/1 kV

AI / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009, IEC 60502-1 : 2004 / AMD1 : 2009

## Construction Data

| Nom. Cross Section Area | Overall Diameter approx. | Cable Weight approx. |
|-------------------------|--------------------------|----------------------|
| mm <sup>2</sup>         | mm                       | kg/km                |
| 10                      | 17.2                     | 347                  |
| 16                      | 19.7                     | 460                  |
| 25                      | 22.0                     | 587                  |
| 35                      | 24.5                     | 734                  |
| 50                      | 27.5                     | 836                  |
| 70                      | 31.5                     | 1,092                |
| 95                      | 35.5                     | 1,433                |
| 120                     | 39.0                     | 1,734                |
| 150                     | 42.5                     | 2,040                |
| 185                     | 48.5                     | 2,595                |
| 240                     | 53.5                     | 3,211                |
| 300                     | 59.0                     | 3,943                |

### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

### Special Features on Request

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated



### Note :

#### Conductor Shape

10 - 16 sqmm supplied in non compacted circular stranded (rm) conductor shape

25 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

#### Standard Packing

10 - 185 sqmm supplied in wooden drum @ 1000 m

240 - 300 sqmm will be supplied in wooden drum on available length

Length Tolerance per drum  $\pm 2\%$

## Electrical Data

| Nom. Cross Sect.   | Conductor             |                       | Inductance | Current - Carrying Capacity at 30°C * |           | Short circuit current at 1 sec |
|--------------------|-----------------------|-----------------------|------------|---------------------------------------|-----------|--------------------------------|
|                    | DC Resistance at 20°C | AC Resistance at 90°C |            | in air                                | in ground |                                |
|                    | Max. (Ω/km)           | Max. (Ω/km)           |            | Max. (A)                              | Max. (A)  | Max. (kA)                      |
| (mm <sup>2</sup> ) |                       |                       | (mH/km)    |                                       |           |                                |
| 10                 | 3.08                  | 3.949                 | 0.248      | 67                                    | 75        | 0.94                           |
| 16                 | 1.91                  | 2.449                 | 0.236      | 91                                    | 100       | 1.50                           |
| 25                 | 1.20                  | 1.539                 | 0.242      | 119                                   | 128       | 2.35                           |
| 35                 | 0.868                 | 1.113                 | 0.234      | 147                                   | 154       | 3.29                           |
| 50                 | 0.641                 | 0.822                 | 0.232      | 179                                   | 183       | 4.70                           |
| 70                 | 0.443                 | 0.568                 | 0.229      | 227                                   | 226       | 6.58                           |
| 95                 | 0.320                 | 0.411                 | 0.224      | 277                                   | 270       | 8.93                           |
| 120                | 0.253                 | 0.325                 | 0.223      | 322                                   | 308       | 11.28                          |
| 150                | 0.206                 | 0.265                 | 0.225      | 364                                   | 344       | 14.10                          |
| 185                | 0.164                 | 0.211                 | 0.225      | 425                                   | 391       | 17.39                          |
| 240                | 0.125                 | 0.162                 | 0.223      | 501                                   | 454       | 22.56                          |
| 300                | 0.100                 | 0.130                 | 0.222      | 574                                   | 511       | 28.20                          |

\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

# NA2XY 3 x (10-300) mm<sup>2</sup> 0.6/1 kV

## Al / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009, IEC 60502-1 : 2004 / AMD1 : 2009

### Construction Data

| Nom. Cross Section Area | Overall Diameter approx. | Cable Weight approx. |
|-------------------------|--------------------------|----------------------|
| mm <sup>2</sup>         | mm                       | kg/km                |
| 10                      | 18.0                     | 382                  |
| 16                      | 21.0                     | 510                  |
| 25                      | 23.5                     | 660                  |
| 35                      | 26.0                     | 830                  |
| 50                      | 28.0                     | 828                  |
| 70                      | 32.5                     | 1,126                |
| 95                      | 36.0                     | 1,422                |
| 120                     | 39.0                     | 1,716                |
| 150                     | 44.0                     | 2,113                |
| 185                     | 48.5                     | 2,577                |
| 240                     | 54.5                     | 3,279                |
| 300                     | 59.0                     | 3,963                |

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated



#### Note :

##### Conductor Shape

10 - 16 sqmm supplied in non compacted circular stranded (rm) conductor shape

25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape

50 - 300 sqmm supplied in sector shaped stranded (sm) conductor

##### Standard Packing

10 - 185 sqmm supplied in wooden drum @ 1000 m

240 - 300 sqmm will be supplied in wooden drum on available length

Length Tolerance per drum ± 2%

### Electrical Data

| Nom. Cross Sect.   | Conductor             |                       | Inductance | Current - Carrying Capacity at 30°C * |           | Short circuit current at 1 sec |
|--------------------|-----------------------|-----------------------|------------|---------------------------------------|-----------|--------------------------------|
|                    | DC Resistance at 20°C | AC Resistance at 90°C |            | in air                                | in ground |                                |
|                    | Max. (Ω/km)           | Max. (Ω/km)           |            | Max. (A)                              | Max. (A)  | Max. (kA)                      |
| (mm <sup>2</sup> ) |                       |                       | (mH/km)    |                                       |           |                                |
| 10                 | 3.08                  | 3.949                 | 0.248      | 57                                    | 63        | 0.94                           |
| 16                 | 1.91                  | 2.449                 | 0.236      | 77                                    | 84        | 1.50                           |
| 25                 | 1.20                  | 1.539                 | 0.242      | 101                                   | 107       | 2.35                           |
| 35                 | 0.868                 | 1.113                 | 0.234      | 125                                   | 129       | 3.29                           |
| 50                 | 0.641                 | 0.822                 | 0.232      | 155                                   | 157       | 4.70                           |
| 70                 | 0.443                 | 0.568                 | 0.229      | 195                                   | 193       | 6.58                           |
| 95                 | 0.320                 | 0.411                 | 0.224      | 240                                   | 231       | 8.93                           |
| 120                | 0.253                 | 0.325                 | 0.223      | 279                                   | 263       | 11.28                          |
| 150                | 0.206                 | 0.265                 | 0.225      | 319                                   | 294       | 14.10                          |
| 185                | 0.164                 | 0.211                 | 0.225      | 370                                   | 335       | 17.39                          |
| 240                | 0.125                 | 0.162                 | 0.223      | 439                                   | 388       | 22.56                          |
| 300                | 0.100                 | 0.130                 | 0.222      | 506                                   | 439       | 28.20                          |

\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

# NA2XY 4 x (10-300) mm<sup>2</sup> 0.6/1 kV

## AI / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009, IEC 60502-1 : 2004 / AMD1 : 2009

### Construction Data

| Nom. Cross Section Area | Overall Diameter approx. | Cable Weight approx. |
|-------------------------|--------------------------|----------------------|
| mm <sup>2</sup>         | mm                       | kg/km                |
| 10                      | 19.5                     | 446                  |
| 16                      | 23.0                     | 601                  |
| 25                      | 25.5                     | 787                  |
| 35                      | 28.5                     | 994                  |
| 50                      | 32.5                     | 1,058                |
| 70                      | 36.5                     | 1,431                |
| 95                      | 40.5                     | 1,820                |
| 120                     | 45.5                     | 2,275                |
| 150                     | 51.5                     | 2,749                |
| 185                     | 56.0                     | 3,336                |
| 240                     | 62.5                     | 4,243                |
| 300                     | 68.0                     | 5,131                |

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated



#### Note :

##### Conductor Shape

10 - 16 sqmm supplied in non compacted circular stranded (rm) conductor shape  
25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape  
50 - 300 sqmm supplied in sector shaped stranded (sm) conductor

##### Standard Packing

10 - 120 sqmm supplied in wooden drum @ 1000 m  
150 - 300 sqmm will be supplied in wooden drum on available length  
Length Tolerance per drum ± 2%

### Electrical Data

| Nom. Cross Sect.   | Conductor             |                       | Inductance | Current - Carrying Capacity at 30°C * |           | Short circuit current at 1 sec |
|--------------------|-----------------------|-----------------------|------------|---------------------------------------|-----------|--------------------------------|
|                    | DC Resistance at 20°C | AC Resistance at 90°C |            | in air                                | in ground |                                |
|                    | Max. (Ω/km)           | Max. (Ω/km)           |            | Max. (A)                              | Max. (A)  | Max. (kA)                      |
| (mm <sup>2</sup> ) |                       |                       | (mH/km)    |                                       |           |                                |
| 10                 | 3.08                  | 3.949                 | 0.248      | 63                                    | 69        | 0.94                           |
| 16                 | 1.91                  | 2.449                 | 0.236      | 85                                    | 90        | 1.50                           |
| 25                 | 1.20                  | 1.539                 | 0.242      | 112                                   | 116       | 2.35                           |
| 35                 | 0.868                 | 1.113                 | 0.234      | 139                                   | 140       | 3.29                           |
| 50                 | 0.641                 | 0.822                 | 0.232      | 164                                   | 162       | 4.70                           |
| 70                 | 0.443                 | 0.568                 | 0.229      | 206                                   | 197       | 6.58                           |
| 95                 | 0.320                 | 0.411                 | 0.224      | 253                                   | 237       | 8.93                           |
| 120                | 0.253                 | 0.325                 | 0.223      | 295                                   | 269       | 11.28                          |
| 150                | 0.206                 | 0.265                 | 0.225      | 343                                   | 305       | 14.10                          |
| 185                | 0.164                 | 0.211                 | 0.225      | 393                                   | 344       | 17.39                          |
| 240                | 0.125                 | 0.162                 | 0.223      | 466                                   | 399       | 22.56                          |
| 300                | 0.100                 | 0.130                 | 0.222      | 537                                   | 451       | 28.20                          |

\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

# NA2XY 5 x (10-50) mm<sup>2</sup> 0.6/1 kV

Al / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009, IEC 60502-1 : 2004 / AMD1 : 2009

## Construction Data

| Nom. Cross Section Area | Overall Diameter approx. | Cable Weight approx. |
|-------------------------|--------------------------|----------------------|
| mm <sup>2</sup>         | mm                       | kg/km                |
| 10                      | 21.5                     | 521                  |
| 16                      | 24.5                     | 709                  |
| 25                      | 27.5                     | 935                  |
| 35                      | 31.0                     | 1,187                |
| 50                      | 36.0                     | 1,479                |

### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

### Special Features on Request

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated



### Note :

#### Conductor Shape

10 - 16 sqmm supplied in non compacted circular stranded (rm) conductor shape

25 - 50 sqmm supplied in compacted circular stranded (cm) conductor shape

#### Standard Packing

10 - 50 sqmm supplied in wooden drum @ 1000 m

Length Tolerance per drum  $\pm 2\%$

## Electrical Data

| Nom. Cross Sect.   | Conductor             |                       | Inductance | Current - Carrying Capacity at 30°C * |           | Short circuit current at 1 sec |
|--------------------|-----------------------|-----------------------|------------|---------------------------------------|-----------|--------------------------------|
|                    | DC Resistance at 20°C | AC Resistance at 90°C |            | in air                                | in ground |                                |
|                    | Max. (Ω/km)           | Max. (Ω/km)           |            | Max. (A)                              | Max. (A)  | Max. (kA)                      |
| (mm <sup>2</sup> ) |                       |                       | (mH/km)    |                                       |           |                                |
| 10                 | 3.08                  | 3.949                 | 0.248      | 65                                    | 70        | 0.94                           |
| 16                 | 1.91                  | 2.449                 | 0.236      | 88                                    | 92        | 1.50                           |
| 25                 | 1.20                  | 1.539                 | 0.242      | 117                                   | 118       | 2.35                           |
| 35                 | 0.868                 | 1.113                 | 0.234      | 144                                   | 143       | 3.29                           |
| 50                 | 0.641                 | 0.822                 | 0.232      | 176                                   | 168       | 4.70                           |

\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information