



# N2XSY

Mittelspannungskabel

No image available

## TECHNICAL DATA

|   |            |   |                       |
|---|------------|---|-----------------------|
| <b>Al Foil</b>                                | No         | <b>CE-Conformity</b>                                | yes                   |
| <b>Colour of insulation</b>                   | uncoloured | <b>Colour of sheath</b>                             | red or black          |
| <b>Conductive tape below screen</b>           | Yes        | <b>Conductor</b>                                    | Copper                |
| <b>Copper wire screen and tape</b>            | Yes        | <b>CPR class</b>                                    | Eca                   |
| <b>Insulation</b>                             | XLPE       | <b>Maximal operating conductor temperature (°C)</b> | +90                   |
| <b>Maximal short-circuit temperature (°C)</b> | +250       | <b>Minimal storage temperature (°C)</b>             | -25                   |
| <b>Minimal temperature for laying (°C)</b>    | -5         | <b>Non conducting tape above screen</b>             | Yes                   |
| <b>Operating temperature range (°C)</b>       | -35-+90    | <b>Packaging</b>                                    | wooden or metal drums |
| <b>Sheath</b>                                 | PVC        |   |                       |

## CROSS-SECTION DATA — 6/10 kV

|                                     |   |                                     |
|-------------------------------------|---|-------------------------------------|
| <b>Voltage</b>                      | <b>Test voltage</b>                     | <b>Operating temperature range</b>  |
| 6/10 kV                             | 21 kV                                   | -35-+90 °C                          |
| <b>Conductor temperature (max.)</b> | <b>Short-circuit temperature (max.)</b> | <b>Minimum laying temperature</b>   |
| +90 °C                              | +250 °C                                 | -5 °C                               |
| <b>Minimum storage temperature</b>  | <b>CPR class</b>                        | <b>Flame retardant</b>              |
| -25 °C                              | Eca                                     | EN 60 332-1-2 / EN 60 332-1-3 / ... |



## N2XSY

| Designation | Cond. | C [uF/km] | DI [mm] | RI [Ohm/km] | Wi [mm] | Ibl [A] | Ibe [A] | Ik [kA] | Wm [mm] | Rbv [mm] | Ø [mm] | G [kg/km] |
|-------------|-------|-----------|---------|-------------|---------|---------|---------|---------|---------|----------|--------|-----------|
| 1x35/16     | Cu    | 0.22      | 15.3    | 0.524       | 3.4     | 197     | 187     | 5       | 2.1     | 360      | 24     | 904       |
| 1x50/16     | Cu    | 0.24      | 16.3    | 0.387       | 3.4     | 238     | 220     | 7.1     | 2.1     | 390      | 26     | 1039      |
| 1x70/16     | Cu    | 0.28      | 17.9    | 0.268       | 3.4     | 294     | 268     | 10      | 2.1     | 405      | 27     | 1271      |
| 1x95/16     | Cu    | 0.3       | 19.4    | 0.193       | 3.4     | 358     | 320     | 13.6    | 2.1     | 435      | 29     | 1530      |
| 1x120/16    | Cu    | 0.34      | 20.9    | 0.153       | 3.4     | 413     | 363     | 17.1    | 2.1     | 450      | 30     | 1809      |
| 1x150/25    | Cu    | 0.36      | 22.3    | 0.124       | 3.4     | 468     | 405     | 21.4    | 2.1     | 480      | 32     | 2158      |
| 1x185/25    | Cu    | 0.4       | 23.9    | 0.099       | 3.4     | 535     | 456     | 26.4    | 2.1     | 495      | 33     | 2524      |
| 1x240/25    | Cu    | 0.44      | 26.4    | 0.075       | 3.4     | 631     | 526     | 34.3    | 2.1     | 540      | 36     | 3117      |
| 1x300/25    | Cu    | 0.49      | 28.8    | 0.06        | 3.4     | 722     | 591     | 42.9    | 2.1     | 570      | 38     | 3786      |
| 1x400/35    | Cu    | 0.54      | 31.4    | 0.047       | 3.4     | 827     | 662     | 57.2    | 2.1     | 615      | 41     | 4750      |
| 1x500/35    | Cu    | 0.61      | 34.6    | 0.037       | 3.4     | 949     | 744     | 71.4    | 2.1     | 660      | 44     | 5786      |

### CROSS-SECTION DATA — 12/20 kV

|   |  |   |
|---|--|---|
| <b>Voltage</b><br>12/20 kV                    | <b>Test voltage</b><br>42 kV                       | <b>Operating temperature range</b><br>-35+90 °C |
| <b>Conductor temperature (max.)</b><br>+90 °C | <b>Short-circuit temperature (max.)</b><br>+250 °C | <b>Minimum laying temperature</b><br>-5 °C      |
| <b>Minimum storage temperature</b><br>-25 °C  | <b>CPR class</b><br>Eca                            | <b>Flame retardant</b><br>EN 60 332-1-2         |

| Designation | Cond. | C [uF/km] | DI [mm] | RI [Ohm/km] | Wi [mm] | Ibl [A] | Ibe [A] | Ik [kA] | Wm [mm] | Rbv [mm] | Ø [mm] | G [kg/km] |
|-------------|-------|-----------|---------|-------------|---------|---------|---------|---------|---------|----------|--------|-----------|
| 1x35/16     | Cu    | 0.16      | 19.5    | 0.524       | 5.5     | 200     | 189     | 5       | 2.1     | 435      | 29     | 1069      |
| 1x50/16     | Cu    | 0.17      | 20.5    | 0.387       | 5.5     | 239     | 222     | 7.1     | 2.1     | 450      | 30     | 1203      |
| 1x70/16     | Cu    | 0.19      | 22.1    | 0.268       | 5.5     | 297     | 271     | 10      | 2.1     | 465      | 31     | 1447      |
| 1x95/16     | Cu    | 0.21      | 23.6    | 0.193       | 5.5     | 361     | 323     | 13.6    | 2.1     | 495      | 33     | 1718      |
| 1x120/16    | Cu    | 0.23      | 25.1    | 0.153       | 5.5     | 416     | 367     | 17.1    | 2.1     | 510      | 34     | 2007      |
| 1x150/25    | Cu    | 0.25      | 26.5    | 0.124       | 5.5     | 470     | 409     | 21.4    | 2.1     | 540      | 36     | 2364      |
| 1x185/25    | Cu    | 0.27      | 28.1    | 0.099       | 5.5     | 538     | 461     | 26.4    | 2.1     | 555      | 37     | 2744      |
| 1x240/25    | Cu    | 0.3       | 30.6    | 0.075       | 5.5     | 634     | 532     | 34.3    | 2.1     | 600      | 40     | 3352      |
| 1x300/25    | Cu    | 0.35      | 33      | 0.06        | 5.5     | 724     | 599     | 42.9    | 2.1     | 630      | 42     | 4032      |
| 1x400/35    | Cu    | 0.36      | 35.6    | 0.047       | 5.5     | 829     | 671     | 57.2    | 2.1     | 675      | 45     | 4988      |
| 1x500/35    | Cu    | 0.43      | 38.8    | 0.037       | 5.5     | 953     | 754     | 71.4    | 2.1     | 720      | 48     | 6080      |



## N2XSY

### CROSS-SECTION DATA — 18/30 kV

|  |   |  |
|--|---|--|
| Voltage<br>18/30 kV                    | Test voltage<br>63 kV                       | Operating temperature range<br>-35+90 °C |
| Conductor temperature (max.)<br>+90 °C | Short-circuit temperature (max.)<br>+250 °C | Minimum laying temperature<br>-5 °C      |
| Minimum storage temperature<br>-25 °C  | CPR class<br>Eca                            | Flame retardant<br>EN 60 332-1-2         |

| Designation | Cond. | C [uF/km] | DI [mm] | RI [Ohm/km] | Wi [mm] | Ibl [A] | Ibe [A] | Ik [kA] | Wm [mm] | Rbv [mm] | Ø [mm] | G [kg/km] |
|-------------|-------|-----------|---------|-------------|---------|---------|---------|---------|---------|----------|--------|-----------|
| 1x50/16     | Cu    | 0.13      | 25.5    | 0.387       | 8       | 241     | 225     | 7.1     | 2.1     | 525      | 35     | 1439      |
| 1x70/16     | Cu    | 0.15      | 27.1    | 0.268       | 8       | 299     | 274     | 10      | 2.1     | 540      | 36     | 1697      |
| 1x95/16     | Cu    | 0.16      | 28.6    | 0.193       | 8       | 363     | 327     | 13.6    | 2.1     | 570      | 38     | 1979      |
| 1x120/16    | Cu    | 0.17      | 30.1    | 0.153       | 8       | 418     | 371     | 17.1    | 2.1     | 585      | 39     | 2279      |
| 1x150/25    | Cu    | 0.19      | 31.5    | 0.124       | 8       | 472     | 414     | 21.4    | 2.1     | 615      | 41     | 2648      |
| 1x185/25    | Cu    | 0.2       | 33.1    | 0.099       | 8       | 539     | 466     | 26.4    | 2.1     | 630      | 42     | 3036      |
| 1x240/25    | Cu    | 0.22      | 35.6    | 0.075       | 8       | 635     | 539     | 34.3    | 2.1     | 675      | 45     | 3661      |
| 1x300/25    | Cu    | 0.24      | 38      | 0.06        | 8       | 725     | 606     | 42.9    | 2.1     | 705      | 47     | 4368      |
| 1x400/35    | Cu    | 0.26      | 40.6    | 0.047       | 8       | 831     | 680     | 57.2    | 2.1     | 750      | 50     | 5347      |
| 1x500/35    | Cu    | 0.29      | 43.8    | 0.037       | 8       | 953     | 765     | 71.4    | 2.4     | 795      | 53     | 6472      |