



## LOW VOLTAGE CABLES

# N2XY



## APPLICATION

The N2XY is used in low-voltage systems for power distribution - for example in cable trays, conduits, on walls, or directly underground. It can be installed both indoors and outdoors and is also suitable for humid environments. Thanks to various core configurations (single-core to four-core) and cross-sections up to 630 mm<sup>2</sup>, the cable can be flexibly adapted to the respective application.

## TECHNICAL DATA

|                                             |               |
|---------------------------------------------|---------------|
| SCREEN                                      | No            |
| MAX. PERMISSIBLE CONDUCTOR TEMPERATURE (°C) | 90 °C         |
| MAXIMUM SHORT-CIRCUIT TEMPERATURE (°C)      | 250 °C        |
| MINIMUM LAYING TEMPERATURE (°C)             | -5 °C         |
| BENDING RADIUS (MM)                         | 15/12xD mm    |
| CPR CLASS                                   | Eca           |
| FLAME RETARDANT                             | IEC 60332-1-2 |
| MINIMUM STORAGE TEMPERATURE (°C)            | -35 °C        |
| OPERATING TEMPERATURE RANGE (°C)            | -35-+90 °C    |
| RATED VOLTAGE (KV)                          | 0.6/1 kV      |
| TEST VOLTAGE (KV)                           | 4 kV          |



## CROSS-SECTIONS/VOLTAGE — 0.6/1 KV

| CORES & CROSS-SECTION | COND. | SHAPE  | RI [OHM/KM] | WI [MM] | WM [MM] | RBV [MM] | Ø [MM] | G [KG/KM] |
|-----------------------|-------|--------|-------------|---------|---------|----------|--------|-----------|
| 1x10                  | Cu    | RE     | 1.83        | 0.7     | 1.8     | 12xD     | 9      | 166       |
| 1x16                  | Cu    | RE     | 1.15        | 0.7     | 1.8     | 12xD     | 10     | 229       |
| 1x25                  | Cu    | RMV    | 0.727       | 0.9     | 1.8     | 12xD     | 12     | 336       |
| 1x35                  | Cu    | RMV    | 0.524       | 0.9     | 1.8     | 12xD     | 13     | 436       |
| 1x50                  | Cu    | RMV    | 0.387       | 1       | 1.8     | 12xD     | 14     | 562       |
| 1x70                  | Cu    | RMV    | 0.268       | 1.1     | 1.8     | 12xD     | 16     | 774       |
| 1x95                  | Cu    | RMV    | 0.193       | 1.1     | 1.8     | 12xD     | 18     | 1027      |
| 1x120                 | Cu    | RMV    | 0.153       | 1.2     | 1.8     | 12xD     | 20     | 1267      |
| 1x150                 | Cu    | RMV    | 0.124       | 1.4     | 1.8     | 12xD     | 22     | 1555      |
| 1x185                 | Cu    | RMV    | 0.0991      | 1.6     | 1.8     | 12xD     | 24     | 1922      |
| 1x240                 | Cu    | RMV    | 0.0754      | 1.7     | 1.8     | 12xD     | 26     | 2471      |
| 1x300                 | Cu    | RMV    | 0.0601      | 1.8     | 1.8     | 12xD     | 29     | 3055      |
| 1x400                 | Cu    | RMV    | 0.047       | 2       | 1.9     | 12xD     | 32     | 3880      |
| 1x500                 | Cu    | RMV    | 0.0366      | 2.2     | 2       | 12xD     | 36     | 4938      |
| 3x10                  | Cu    | RE     | 1.83        | 0.7     | 1.8     | 12xD     | 17     | 581       |
| 3x16                  | Cu    | RE     | 1.15        | 0.7     | 1.8     | 12xD     | 19     | 800       |
| 3x25                  | Cu    | RMV    | 0.727       | 0.9     | 1.8     | 12xD     | 23     | 1193      |
| 3x35                  | Cu    | RMV    | 0.524       | 0.9     | 1.8     | 12xD     | 26     | 1553      |
| 3x50                  | Cu    | SM     | 0.387       | 1       | 1.8     | 12xD     | 26     | 1815      |
| 3x70                  | Cu    | SM     | 0.268       | 1.1     | 1.9     | 12xD     | 30     | 2519      |
| 3x95                  | Cu    | SM     | 0.193       | 1.1     | 2       | 12xD     | 33     | 3319      |
| 3x120                 | Cu    | SM     | 0.153       | 1.2     | 2.1     | 12xD     | 37     | 4089      |
| 3x150                 | Cu    | SM     | 0.124       | 1.4     | 2.3     | 12xD     | 41     | 5077      |
| 3x185                 | Cu    | SM     | 0.0991      | 1.6     | 2.4     | 12xD     | 45     | 6233      |
| 3x240                 | Cu    | SM     | 0.0754      | 1.7     | 2.6     | 12xD     | 51     | 8067      |
| 3x25+16               | Cu    | RMV/RE | 0.727       | 0.9/0.7 | 1.8     | 12xD     | 24     | 1357      |
| 3x35+16               | Cu    | SM/RE  | 0.524       | 0.9/0.7 | 1.8     | 12xD     | 26     | 1658      |
| 3x50+25               | Cu    | SM/RMV | 0.387       | 1.0/0.9 | 1.8     | 12xD     | 29     | 2170      |
| 3x70+35               | Cu    | SM     | 0.268       | 1.1/0.9 | 1.9     | 12xD     | 32     | 2932      |

|           |    |     |        |         |     |      |    |       |
|-----------|----|-----|--------|---------|-----|------|----|-------|
| 3x95+50   | Cu | SM  | 0.193  | 1.1/1.0 | 2.1 | 12xD | 37 | 3897  |
| 3x120+70  | Cu | SM  | 0.153  | 1.2/1.1 | 2.2 | 12xD | 40 | 4865  |
| 3x150+70  | Cu | SM  | 0.124  | 1.4/1.1 | 2.3 | 12xD | 45 | 5862  |
| 3x185+95  | Cu | SM  | 0.0991 | 1.6/1.1 | 2.5 | 12xD | 49 | 7293  |
| 3x240+120 | Cu | SM  | 0.0754 | 1.7/1.2 | 2.7 | 12xD | 56 | 9407  |
| 4x10      | Cu | RE  | 1.83   | 0.7     | 1.8 | 12xD | 18 | 698   |
| 4x16      | Cu | RE  | 1.15   | 0.7     | 1.8 | 12xD | 21 | 974   |
| 4x16      | Cu | RMV | 1.15   | 0.7     | 1.8 | 12xD | 21 | 995   |
| 4x25      | Cu | RMV | 0.727  | 0.9     | 1.8 | 12xD | 25 | 1469  |
| 4x35      | Cu | SM  | 0.524  | 0.9     | 1.8 | 12xD | 26 | 1818  |
| 4x50      | Cu | SM  | 0.387  | 1       | 1.9 | 12xD | 29 | 2354  |
| 4x70      | Cu | SM  | 0.268  | 1.1     | 2   | 12xD | 33 | 3268  |
| 4x95      | Cu | SM  | 0.193  | 1.1     | 2.1 | 12xD | 37 | 4341  |
| 4x120     | Cu | SM  | 0.153  | 1.2     | 2.3 | 12xD | 41 | 5429  |
| 4x150     | Cu | SM  | 0.124  | 1.4     | 2.4 | 12xD | 46 | 6637  |
| 4x185     | Cu | SM  | 0.0991 | 1.6     | 2.6 | 12xD | 51 | 8188  |
| 4x240     | Cu | SM  | 0.0754 | 1.7     | 2.8 | 12xD | 57 | 10609 |
| 5x10      | Cu | RE  | 1.83   | 0.7     | 1.8 | 12xD | 20 | 829   |
| 5x16      | Cu | RE  | 1.15   | 0.7     | 1.8 | 12xD | 22 | 1169  |
| 5x16      | Cu | RMV | 1.15   | 0.7     | 1.8 | 12xD | 23 | 1188  |
| 5x25      | Cu | RMV | 0.727  | 0.9     | 1.8 | 12xD | 27 | 1795  |
| 5x35      | Cu | RMV | 0.524  | 0.9     | 1.8 | 12xD | 31 | 2363  |
| 5x50      | Cu | RMV | 0.387  | 1       | 2   | 12xD | 35 | 3154  |
| 5x70      | Cu | SM  | 0.268  | 1.1     | 2.1 | 12xD | 38 | 4146  |
| 5x95      | Cu | SM  | 0.193  | 1.1     | 2.3 | 12xD | 42 | 5516  |
| 5x120     | Cu | SM  | 0.153  | 1.2     | 2.4 | 12xD | 47 | 6805  |