# N2XY

Low Voltage Cables


## DESCRIPTION

The N2XY cable is an unarmoured low-voltage cable for power and control applications up to 0.6/1 kV. It is suitable for fixed installation in buildings, outdoors, in humid environments, and for direct burial - wherever no special mechanical stresses occur.

## TECHNICAL DATA

| | | | |
|---|---|---|---|
| **Bending radius (mm)** | 15/12xD mm | **CPR class** | Eca |
| **Maximal operating conductor temperature (°C)** | 90 °C | **Maximal short-circuit temperature (°C)** | 250 °C |
| **Minimal storage temperature (°C)** | -35 °C | **Minimal temperature for laying (°C)** | -5 °C |
| **Operating temperature range (°C)** | -35-+90 °C | **Rated voltage (kV)** | 0.6/1 kV |
| **Self-extinguishing of single cable** | IEC 60332-1-2 | **Test voltage (kV)** | 4 kV |

## CROSS-SECTION DATA — 0.6/1 kV

| | | | |
|---|---|---|---|
| **Voltage** | 0.6/1 kV | **Test voltage** | 4 kV |
| **Operating temperature range** | -35-+90 °C | **Conductor temperature (max.)** | 90 °C |
| **Short-circuit temperature (max.)** | 250 °C | **Minimum laying temperature** | -5 °C |
| **Minimum storage temperature** | -35 °C | **CPR class** | Eca |
| **Flame retardant** | IEC 60332-1-2 | | |

| Cores & CS | Cond. | Shape | Rl [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 |