

N2XY

STANDARD

DIN VDE 0271 IEC 60502

FOREIGN ANALOGUE

ПВВГ НГ - GOST 31996-2012

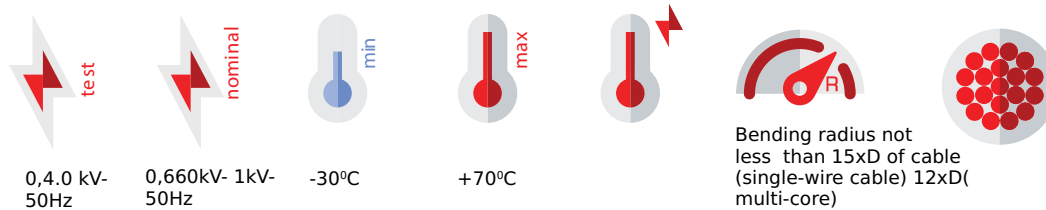
Power cable with copper core, with polyethylene insulation (XLPE) and polyvinylchloride insulation flame retardant low emission of gas and smoke polyvinylchloride sheath

APPLICATION

For transmission and distribution of electric power at stationary devices with rated voltage 0,660kV and 1 kV frequency 50Hz. For laying in ground, for overhead, into the concrete, for laying into cable channels. Using in electrical stations, in industrial equipment and in commutation systems. Working temperature on the conductor +90°C. While laying the cables in groups, they are flame retardant



- Fire Retardant in Multi layer



0,4.0 kV-
50Hz

0,660kV- 1kV-
50Hz

-30°C

+70°C

Bending radius not
less than 15xD of cable
(single-wire cable) 12xD(
multi-core)



- Installation temperature: not less than -15°C.
- The max. allowable core heating temperature in short circuit with duration of not more than 4 seconds must not exceed 250°C.
- Conductive lobe for long-term allowable heating temperature +90°C

CONSTRUCTION

The aluminum cores with section 2,5-50mm² inclusive are produced with one wire of 1 class flexibility, 70-240mm² inclusive with twisted multi-core wires 2 class flexibility, according to Gost 22483-77 standard IEK60228 : 2004. According to customer requested, it's possible to produce cross sections 16:50 with multi-core wires. Number of cores in the cable 1,2,3,4,5

THE CONSTRUCTION LENGTH OF THE CABLES

- 2.5-16 mm² – 450 M
- 25-70 mm – 300M
- 95-240 mm – 200 M

in case of supply in bundles the construction length is agreed with the customer. In case of agreement with the customer cables of different construction lengths can be produced

PACKING

On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle, or in case of request of the customer with inscription on top: "JSC Sakcable" cable brand, date of production. Labeling of conductive cores with colors or figures 0,1,2,3,4 with inscription on the top of insulated cores

SERVICE LIFETIME

not less than 30 years

WARRANTY PERIOD

5 years after entering into exploitation, In the proper installation and working conditions

N2XY DIN VDE 0271 IEC 60502

| Part Name | Conductor resistance [Ω/km] | Ampacity (in air) [A] | Thickness of insulation [mm] | Thickness of sheath [mm] | Outer diameter [mm] | Bending radius [mm] | Copper Weight [kg/km] | Weight [kg/km] |
|------------|-----------------------------|-----------------------|------------------------------|--------------------------|---------------------|---------------------|-----------------------|----------------|
| 1 x 1,5 re | 12,1 | 28 | 0,7 | 1,8 | 6,35 | 95 | 13,4 | 57,08 |
| 1 x 2,5 re | 7,41 | 36 | 0,7 | 1,8 | 6,73 | 101 | 22,3 | 69,39 |
| 1 x 4 re | 4,61 | 47 | 0,7 | 1,8 | 7,19 | 108 | 35,6 | 86,98 |
| 1 x 6 re | 3,08 | 59 | 0,7 | 1,8 | 7,7 | 115 | 53,35 | 109,95 |
| 1 x 10 rm | 1,83 | 82 | 0,7 | 1,8 | 8,99 | 135 | 88,9 | 162,1 |
| 1 x 16 rm | 1,15 | 108 | 0,7 | 1,8 | 10,01 | 150 | 142,3 | 224,08 |
| 1 x 25 rm | 0,727 | 146 | 0,9 | 1,8 | 11,7 | 175 | 222,25 | 327,69 |
| 1 x35 rm | 0,524 | 180 | 0,9 | 1,8 | 13,01 | 195 | 311,2 | 429,56 |
| 1 x 50 rm | 0,387 | 220 | 1 | 1,8 | 14,35 | 215 | 444,5 | 556,78 |
| 1 x 70 rm | 0,268 | 279 | 1,1 | 1,8 | 16,3 | 245 | 622,3 | 766 |
| 1 x95 rm | 0,193 | 345 | 1,1 | 1,8 | 18,15 | 272 | 844,6 | 1017,46 |
| 1 x 120 rm | 0,153 | 403 | 1,3 | 1,8 | 19,9 | 298 | 1066,8 | 1263,78 |
| 1 x 150 rm | 0,124 | 464 | 1,4 | 1,8 | 21,87 | 328 | 1333,5 | 1540,25 |
| 1 x 185 rm | 0,0991 | 538 | 1,7 | 1,8 | 24,09 | 361 | 1644,7 | 1901,88 |
| 1 x 240 rm | 0,0754 | 641 | 1,8 | 1,8 | 26,81 | 402 | 2133,6 | 2448,82 |
| 1x300 rm | 0,0601 | 739 | 1,8 | 1,8 | 29,43 | 442 | 2667 | 3033,19 |
| 1x400 rm | 0,047 | 860 | 2 | 1,9 | 33 | 495 | 3356,1 | 3870,25 |
| 2X1.5 re | 12,1 | 24 | 0,7 | 1,8 | 10,1 | 121 | 26,8 | 149,2 |
| 2X2.5 re | 7,41 | 33 | 0,7 | 1,8 | 10,86 | 130 | 44,6 | 183,11 |
| 2X4 re | 4,61 | 44 | 0,7 | 1,8 | 12,38 | 149 | 71,2 | 251,84 |
| 2X6 re | 3,08 | 56 | 0,7 | 1,8 | 13,8 | 166 | 106,7 | 330,94 |
| 2X10 rm | 1,83 | 76 | 0,7 | 1,8 | 16,38 | 197 | 177,8 | 489,27 |
| 2X16 rm | 1,15 | 101 | 0,7 | 1,8 | 18,82 | 226 | 184,6 | 688,06 |
| 2X25 rm | 0,727 | 134 | 0,9 | 1,8 | 22,5 | 270 | 444,5 | 1018,19 |
| 3 x 1,5 re | 12,1 | 22 | 0,7 | 1,8 | 10,51 | 126 | 41,4 | 166,28 |
| 3 x 2,5 re | 7,41 | 29 | 0,7 | 1,8 | 11,33 | 136 | 68,9 | 208,58 |
| 3 x 4 re | 4,61 | 41 | 0,7 | 1,8 | 12,92 | 155 | 110 | 291,01 |
| 3 x 6 re | 3,08 | 49 | 0,7 | 1,8 | 14,42 | 173 | 164,85 | 388,35 |
| 3 x 10 rm | 1,83 | 64 | 0,7 | 1,8 | 17,59 | 211 | 274,7 | 603,84 |
| 3 x 16 rm | 1,15 | 87 | 0,7 | 1,8 | 19,98 | 240 | 439,7 | 841,21 |
| 3 x 25 rm | 0,727 | 110 | 0,9 | 1,8 | 24,02 | 288 | 686,75 | 1259,38 |
| 3 x35 rm | 0,524 | 139 | 0,9 | 1,8 | 26,83 | 322 | 961,6 | 1639,79 |
| 4 x 1,5 re | 12,1 | 20 | 0,7 | 1,8 | 11,83 | 142 | 55,2 | 211,34 |
| 4 x 2,5 re | 7,41 | 27 | 0,7 | 1,8 | 12,74 | 153 | 91,87 | 265,41 |
| 4 x 4 re | 4,61 | 37 | 0,7 | 1,8 | 13,85 | 166 | 146,67 | 342,68 |
| 4 x 6 re | 3,08 | 45 | 0,7 | 1,8 | 15,88 | 191 | 219,8 | 480,06 |
| 4 x 10 rm | 1,83 | 59 | 0,7 | 1,8 | 19,59 | 235 | 366,26 | 758,53 |
| 4 x 16 rm | 1,15 | 80 | 0,7 | 1,8 | 22,04 | 264 | 586,27 | 1045,55 |
| 4 x 25 rm | 0,727 | 101 | 0,9 | 1,8 | 26,7 | 320 | 915,67 | 1583,04 |
| 4 x35 rm | 0,524 | 128 | 0,9 | 1,8 | 29,87 | 358 | 1282,14 | 2064,97 |
| 4 x 50 rm | 0,387 | 154 | 1 | 1,9 | 33,7 | 404 | 1831,3 | 2720,25 |
| 4 x 70 rm | 0,268 | 191 | 1,1 | 2,1 | 39,4 | 473 | 2563,87 | 3810,9 |
| 4 x95 rm | 0,193 | 234 | 1,1 | 2,2 | 44,06 | 529 | 3479,75 | 5011,18 |
| 4 x 120 rm | 0,153 | 277 | 1,3 | 2,4 | 48,68 | 584 | 4395,21 | 6224,4 |
| 5X1.5 re | 12,1 | 20 | 0,7 | 1,8 | 13,03 | 156 | 69,01 | 255,15 |
| 5X2.5 re | 7,41 | 27 | 0,7 | 1,8 | 14,05 | 169 | 114,85 | 321,29 |
| 5X4.0 re | 4,61 | 37 | 0,7 | 1,8 | 15,29 | 183 | 183,34 | 415,95 |
| 5x6 re | 3,08 | 45 | 0,7 | 1,8 | 17,27 | 207 | 274,75 | 569,78 |
| 5x10 rm | 1,83 | 59 | 0,7 | 1,8 | 21,55 | 259 | 457,84 | 915,03 |
| 5x16 rm | 1,15 | 80 | 0,7 | 1,8 | 24,51 | 294 | 732,85 | 1280,29 |
| 5x25 rm | 0,727 | 101 | 0,9 | 1,8 | 29,47 | 354 | 1144,59 | 1914,83 |
| 5x35 rm | 0,52+C12:C554 | 128 | 0,9 | 1,8 | 33,01 | 396 | 1602,68 | 2502,33 |



re - Single-core
rm - Multi-core