

Power cable NYCY acc. to VDE 0276-603



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|---|--|
| CPR-performance: | Eca |
| Conductor material: | bare copper |
| Conductor class: | class 1, from 25 sqmm class 2 |
| Insulation: | PVC DIV 4 |
| Concentric conductor: | Cu |
| Sheathing material: | PVC DMV 5 |
| Colour outer sheath: | black |
| Meter mark: | yes |
| Flame-retardant: | VDE 0482-332-1-2/IEC 60332-1-2 |
| UV-resistant: | yes |
| Maximum permitted conductor temperature: | 70 °C |
| Permitted outer cable temperature, fixed: | 70 °C |
| Permitted outer cable temperature, in motion/ during installation: | -5 - +70 °C |
| Nominal voltage U₀: | 600 V |
| Nominal voltage U: | 1 kV |
| Maximum permitted operating voltage in three-phase systems: | 1,2 kV |
| Test voltage: | 4 kV |
| Core identification: | colours acc. to HD 308; more than 5 cores: numbers |

Application: For fixed installation indoors, outdoors, in the ground, in water and in concrete.



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Table: Technical characteristics NYCY

| p/n | part name | | R _l [Ω/km] | W _i [mm] | I _{bl} [A] | I _{be} [A] | I _k [kA] | L _b [mH/km] | R _{bv} [mm] | W _m [mm] | D _A [mm] | F _{ZV} [N] | Cu [kg/km] | G [kg/km] |
|--------|--------------------|----|--------------------------|------------------------|------------------------|------------------------|------------------------|---------------------------|-------------------------|------------------------|------------------------|------------------------|---------------|--------------|
| 080030 | NYCY 02X1,5/1,5 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | | 156 | 1,8 | 13 | 150 | 52 | 200 |
| 080031 | NYCY 02X2,5/2,5 SW | RE | 7,41 | 0,8 | 26 | 36 | 0,29 | | 163 | 1,8 | 13,6 | 250 | 80 | 260 |
| 080032 | NYCY 02X4/4 SW | RE | 4,61 | 1 | 34 | 47 | 0,46 | | 185 | 1,8 | 15,4 | 400 | 123 | 350 |
| 080033 | NYCY 02X6/6 SW | RE | 3,08 | 1 | 44 | 59 | 0,69 | | 203 | 1,8 | 16,9 | 600 | 182 | 430 |
| 080077 | NYCY 02X10/10 SW | RE | 1,83 | 1 | 60 | 79 | 1,15 | | 222 | 1,8 | 18,5 | 1000 | 312 | 520 |
| 080078 | (N)YCY 02X16/16 SW | RE | 1,15 | 1 | 80 | 102 | 1,84 | | 246 | 1,8 | 20,5 | 1600 | 489 | 720 |
| 080035 | NYCY 03X1,5/1,5 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | 0,343 | 158 | 1,8 | 13,2 | 225 | 66 | 220 |
| 080037 | NYCY 03X2,5/2,5 SW | RE | 7,41 | 0,8 | 26 | 36 | 0,29 | 0,317 | 170 | 1,8 | 14,2 | 375 | 104 | 280 |
| 080147 | NYCY 03X2,5/10 SW | RE | 7,41 | 0,8 | 26 | 36 | 0,29 | 0,317 | 173 | 1,8 | 14,4 | 375 | 192 | 359 |

| p/n | part name | | R _i [Ω/km] | W _i [mm] | I _{bl} [A] | I _{be} [A] | I _k [kA] | L _b [mH/km] | R _{bv} [mm] | W _m [mm] | D _A [mm] | F _{zv} [N] | Cu [kg/km] | G [kg/km] |
|--------|---------------------|----|--------------------------|------------------------|------------------------|------------------------|------------------------|---------------------------|-------------------------|------------------------|------------------------|------------------------|---------------|--------------|
| 080206 | (N)YCY 03X2,5/16 SW | RE | 7,41 | 0,8 | 26 | 36 | | | | 1,8 | | | 240 | 350 |
| 080038 | NYCY 03X4/4 SW | RE | 4,61 | 1 | 34 | 47 | 0,46 | 0,316 | 196 | 1,8 | 16,3 | 600 | 161 | 390 |
| 080039 | NYCY 03X6/6 SW | RE | 3,08 | 1 | 44 | 59 | 0,69 | 0,298 | 207,6 | 1,8 | 17,3 | 900 | 240 | 500 |
| 080079 | NYCY 03X10/10 SW | RE | 1,83 | 1 | 60 | 79 | 1,15 | 0,278 | 240 | 1,8 | 20 | 1500 | 408 | 680 |
| 080080 | NYCY 03X16/16 SW | RE | 1,15 | 1 | 80 | 102 | 1,84 | 0,262 | 276 | 1,8 | 23 | 2400 | 643 | 1010 |
| 080040 | NYCY 04X1,5/1,5 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | 0,366 | 171 | 1,8 | 14,2 | 300 | 81 | 250 |
| 080041 | NYCY 04X2,5/2,5 SW | RE | 7,41 | 0,8 | 26 | 36 | 0,29 | 0,34 | 184 | 1,8 | 15,3 | 500 | 128 | 340 |
| 080042 | NYCY 04X4/4 SW | RE | 4,61 | 1 | 34 | 47 | 0,46 | 0,339 | 208 | 1,8 | 17,3 | 800 | 200 | 460 |
| 080043 | NYCY 04X6/6 SW | RE | 3,08 | 1 | 44 | 59 | 0,69 | 0,321 | 221 | 1,8 | 18,4 | 1200 | 297 | 580 |
| 080081 | NYCY 04X10/10 SW | RE | 1,83 | 1 | 60 | 79 | 1,15 | 0,301 | 252 | 1,8 | 21 | 2000 | 504 | 765 |
| 080082 | NYCY 04X16/16 SW | RE | 1,15 | 1 | 80 | 102 | 1,84 | 0,285 | 276 | 1,8 | 23 | 3200 | 796 | 1060 |
| 080044 | NYCY 05X1,5/1,5 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | 0,375 | 180 | 1,8 | 15 | 375 | 95 | 330 |
| 080076 | NYCY 05X2,5/2,5 SW | RE | 7,41 | 0,8 | 26 | 36 | 0,29 | 0,349 | 192 | 1,8 | 16 | 625 | 152 | 400 |
| 080083 | NYCY 05X4/4 SW | RE | 4,61 | 1 | 34 | 47 | 0,46 | 0,348 | 228 | 1,8 | 19 | 1000 | 238 | 550 |
| 080084 | NYCY 05X6/6 SW | RE | 3,08 | 1 | 44 | 59 | 0,69 | 0,33 | 252 | 1,8 | 21 | 1500 | 355 | 700 |
| 080045 | NYCY 07X1,5/2,5 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | | 184 | 1,8 | 15,3 | 525 | 133 | 350 |
| 080046 | NYCY 07X2,5/2,5 SW | RE | 7,41 | 0,8 | 25 | 36 | 0,29 | | 209 | 1,8 | 17,4 | 875 | 200 | 450 |
| 080047 | NYCY 07X4/4 SW | RE | 4,61 | 1 | 34 | 47 | 0,46 | | 240 | 1,8 | 20 | 1400 | 315 | 600 |
| 080085 | NYCY 07X6/6 SW | RE | 3,08 | 1 | 43 | 59 | 0,69 | | 270 | 1,8 | 22,5 | 2100 | 470 | 790 |
| 080048 | NYCY 10X1,5/2,5 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | | 221 | 1,8 | 18,4 | 750 | 176 | 410 |
| 080049 | NYCY 10X2,5/4 SW | RE | 7,41 | 1 | 25 | 36 | 0,29 | | 245 | 1,8 | 20,4 | 1250 | 286 | 600 |
| 080086 | NYCY 10X4/6 SW | RE | 4,61 | 0,8 | 34 | 47 | 0,46 | | 282 | 1,8 | 23,5 | 2000 | 451 | 900 |
| 080050 | NYCY 12X1,5/2,5 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | | 233 | 1,8 | 19,4 | 900 | 205 | 470 |
| 080051 | NYCY 12X2,5/4 SW | RE | 7,41 | 0,8 | 25 | 36 | 0,29 | | 246 | 1,8 | 20,5 | 1500 | 334 | 660 |
| 080069 | NYCY 12X4/6 SW | RE | 4,61 | 1 | 34 | 47 | 0,46 | | 294 | 1,8 | 24,5 | 2400 | 528 | 1060 |
| 080052 | NYCY 14X1,5/2,5 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | | 245 | 1,8 | 20,4 | 1050 | 234 | 520 |
| 080053 | NYCY 14X2,5/6 SW | RE | 7,41 | 0,8 | 25 | 36 | 0,29 | | 258 | 1,8 | 21,5 | 1750 | 403 | 750 |
| 080073 | NYCY 16X1,5/4 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | | 240 | 1,8 | 20 | 1200 | 276 | 620 |
| 080054 | NYCY 16X2,5/6 SW | RE | 7,41 | 0,8 | 25 | 36 | 0,29 | | 270 | 1,8 | 22,5 | 2000 | 451 | 800 |
| 080055 | NYCY 19X1,5/4 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | | 270 | 1,8 | 22,5 | 1425 | 320 | 660 |
| 080056 | NYCY 19X2,5/6 SW | RE | 7,41 | 0,8 | 25 | 36 | 0,29 | | 282 | 1,8 | 23,5 | 2375 | 523 | 940 |
| 080308 | NYCY 19X4/10 SW | RE | 4,61 | 1 | 34 | 47 | 0,46 | | | 1,8 | 27,1 | 3800 | 850 | 1376 |
| 080057 | NYCY 21X1,5/6 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | | 276 | 1,8 | 23 | 1575 | 369 | 790 |
| 080058 | NYCY 24X1,5/6 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | | 306 | 1,8 | 25,5 | 1800 | 413 | 850 |
| 080059 | NYCY 24X2,5/10 SW | RE | 7,41 | 0,8 | 25 | 36 | 0,29 | | 331 | 1,8 | 27,6 | 3000 | 696 | 1150 |
| 080223 | NYCY 24X4/10 SW | RE | 4,61 | 1 | 34 | 47 | 0,46 | | 388 | 1,8 | 32,3 | 1152 | 1042 | 1813 |
| 080068 | NYCY 30X1,5/6 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | | 318 | | 26,5 | 2250 | 499 | 1020 |
| 080087 | NYCY 30X2,5/10 SW | RE | 7,41 | 0,8 | 25 | 36 | 0,29 | | 354 | 1,8 | 29,5 | 3750 | 840 | 1600 |
| 080074 | NYCY 40X1,5/10 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | | 360 | 1,8 | 30 | 3000 | 696 | 1280 |
| 080075 | NYCY 40X2,5/10 SW | RE | 7,41 | 0,8 | 25 | 36 | 0,29 | | 396 | 1,8 | 33 | 5000 | 1080 | 1660 |
| 080072 | NYCY 52X1,5/10 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | | 384 | 1,8 | 32 | 3900 | 869 | 1600 |
| 080088 | NYCY 52X2,5/10 SW | RE | 7,41 | 0,8 | 25 | 36 | 0,29 | | 420 | 1,8 | 35 | 6500 | 1368 | 2000 |
| 080089 | NYCY 61X1,5/10 SW | RE | 12,1 | 0,8 | 19 | 27 | 0,17 | | 396 | 1,8 | 33 | 4575 | 998 | 2000 |
| 080090 | NYCY 61X2,5/10 SW | RE | 7,41 | 0,8 | 25 | 36 | 0,29 | | 432 | 1,8 | 36 | 7625 | 1584 | 2280 |

The current rating in air I_{bl} refers to an ambient temperature of 30 °C and a load factor of 1,0. The current rating in ground I_{be} refers to ground temperature of 20 °C and a load factor of 0,7.

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|-----------------|--|
| R _i | Conductor resistance |
| W _i | Insulation wall thickness |
| I _{bl} | Ampacity in air (30 °C) |
| I _{be} | Ampacity in ground (20 °C) |
| I _k | Short-circuit current (1 s) |
| L _b | Specific inductivity |
| R _{bv} | Bending radius, fixed installation |
| W _m | Wall thickness of sheath |
| D _A | Outer diameter approx. |
| F _{zv} | Tensile strength (during installation) |
| Cu | Copper weight (GER) |
| G | weight |