

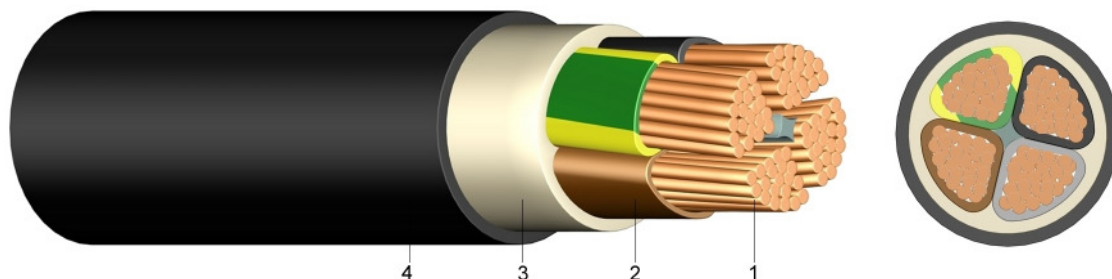
## Datasheet NYY

Version 1/2009

## PVC Insulated Core 0,6/1kV Single and Multicore

### Application:

This power cable is suitable for fixed installations, preferably in cable ducts, indoors, outdoors, in water or underground if no mechanical damage is to be expected.



### Construction:

- 1 ..... solid (RE) or stranded (RM/SM) bare copper
- 2 ..... core insulation of polyvinylchloride (PVC)
- 3 ..... PVC core covering or taping
- 4 ..... outer sheath of polyvinylchloride (PVC), black

### Information:

short circuit temperature on core (max. 5 sec.)  
 $\leq 300 \text{ mm}^2 \rightarrow 160^\circ\text{C}$   
 $> 300 \text{ mm}^2 \rightarrow 140^\circ\text{C}$

### According to:

DIN VDE 0276-603  
 HD 603 S1:1994 + A2:2003  
 DIN EN 60228 class 1 and 2 (construction)  
 HD 308 S2 (core identification)

### Technical data:

|                         |                                       |                          |                                      |
|-------------------------|---------------------------------------|--------------------------|--------------------------------------|
| Nominal voltage $U_0/U$ |                                       | [V]                      | 600 / 1000 Volt                      |
| Test voltage            |                                       | [V] <sub>AC</sub>        | 4000                                 |
| Temperature range       | in motion<br>fixed                    |                          | - 5°C till +70°C<br>-20°C till +70°C |
| Bending radius          | single-core style<br>multi-core style | x diameter<br>x diameter | 15<br>12                             |
| Flammability            | standard                              |                          | EN 60332-1-2                         |

| Number of cores and nominal cross section | Copper figure | Overall diameter | Weight        | Current carrying capacity ground | Current carrying capacity air |
|-------------------------------------------|---------------|------------------|---------------|----------------------------------|-------------------------------|
| mm <sup>2</sup>                           | kg/km         | appr. mm         | appr. kg / km | A                                | A                             |
| 1 x 16 RE                                 | 160           | 11               | 233           | 107                              | 84                            |
| 1 x 25 RM                                 | 250           | 12               | 370           | 138                              | 114                           |
| 1 x 35 RM                                 | 350           | 14               | 480           | 164                              | 139                           |
| 1 x 50 RM                                 | 500           | 16               | 640           | 195                              | 169                           |
| 1 x 70 RM                                 | 700           | 17               | 850           | 238                              | 213                           |
| 1 x 95 RM                                 | 950           | 19               | 1.120         | 286                              | 264                           |
| 1 x 120 RM                                | 1.200         | 21               | 1.375         | 325                              | 307                           |
| 1 x 150 RM                                | 1.500         | 23               | 1.660         | 365                              | 352                           |
| 1 x 185 RM                                | 1.850         | 25               | 2.050         | 413                              | 406                           |
| 1 x 240 RM                                | 2.400         | 28               | 2.634         | 479                              | 483                           |
| 1 x 300 RM                                | 3.000         | 30               | 3.295         | 541                              | 557                           |
| 1 x 400 RM                                | 4.000         | 32               | 4.231         | 614                              | 646                           |
| 1 x 500 RM                                | 5.000         | 34               | 5.284         | 693                              | 747                           |
| 1 x 630 RM                                | 6.300         | 42               | 6.850         | 777                              | 858                           |

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| Number of cores and nominal cross section |       |  | Copper figure | Overall diameter | Weight        | Current carrying capacity ground | Current carrying capacity air |
|-------------------------------------------|-------|--|---------------|------------------|---------------|----------------------------------|-------------------------------|
| mm <sup>2</sup>                           |       |  | kg/km         | appr. mm         | appr. kg / km | A                                | A                             |
| 2 x 1,5                                   | RE    |  | 30            | 11               | 220           | 27                               | 20                            |
| 2 x 2,5                                   | RE    |  | 50            | 12               | 267           | 36                               | 25                            |
| 2 x 4                                     | RE    |  | 80            | 14               | 342           | 47                               | 34                            |
| 2 x 6                                     | RE    |  | 120           | 15               | 412           | 59                               | 43                            |
| 2 x 10                                    | RE    |  | 200           | 16               | 510           | 79                               | 59                            |
| 2 x 16                                    | RM    |  | 320           | 18               | 670           | 102                              | 79                            |
| 3 x 1,5                                   | RE    |  | 45            | 13               | 244           | 27                               | 20                            |
| 3 x 2,5                                   | RE    |  | 75            | 14               | 294           | 36                               | 25                            |
| 3 x 4                                     | RE    |  | 120           | 16               | 393           | 47                               | 34                            |
| 3 x 6                                     | RE    |  | 180           | 17               | 481           | 59                               | 43                            |
| 3 x 10                                    | RE    |  | 300           | 18               | 645           | 79                               | 59                            |
| 3 x 16                                    | RE    |  | 480           | 20               | 872           | 102                              | 79                            |
| 3 x 16                                    | RM    |  | 480           | 20               | 872           | 102                              | 79                            |
| 3 x 25                                    | RM    |  | 750           | 25               | 1.350         | 133                              | 106                           |
| 3 x 35                                    | SM    |  | 1.050         | 25               | 1.460         | 159                              | 129                           |
| 3 x 50                                    | SM    |  | 1.500         | 25               | 1.460         | 159                              | 129                           |
| 3 x 70                                    | SM    |  | 2.100         | 25               | 1.460         | 159                              | 129                           |
| 3 x 95                                    | SM    |  | 2.850         | 35               | 3.560         | 280                              | 246                           |
| 3 x 120                                   | SM    |  | 3.600         | 38               | 4.310         | 318                              | 285                           |
| 3 x 150                                   | SM    |  | 4.500         | 42               | 5.310         | 359                              | 326                           |
| 3 x 185                                   | SM    |  | 5.550         | 47               | 6.630         | 406                              | 374                           |
| 3 x 240                                   | SM    |  | 7.200         | 53               | 8.480         | 473                              | 445                           |
| 3 x 25/16                                 | RM/RE |  | 910           | 25               | 1.513         | 133                              | 106                           |
| 3 x 35/16                                 | SM/RE |  | 1.210         | 27               | 1.804         | 159                              | 129                           |
| 3 x 50/25                                 | SM/RM |  | 1.750         | 31               | 2.349         | 188                              | 157                           |
| 3 x 70/35                                 | SM    |  | 2.450         | 35               | 3.117         | 232                              | 199                           |
| 3 x 95/50                                 | SM    |  | 3.350         | 39               | 4.167         | 280                              | 246                           |
| 3 x 120/70                                | SM    |  | 4.300         | 44               | 5.190         | 318                              | 285                           |
| 3 x 150/70                                | SM    |  | 5.200         | 47               | 6.161         | 359                              | 326                           |
| 3 x 185/95                                | SM    |  | 6.500         | 53               | 7.673         | 406                              | 374                           |
| 3 x 240/120                               | SM    |  | 8.400         | 59               | 9.850         | 473                              | 445                           |
| 3 x 300/150                               | SM    |  | 10.500        | 65               | 11.900        | 535                              | 511                           |
| 4 x 1,5                                   | RE    |  | 60            | 14               | 278           | 27                               | 20                            |
| 4 x 2,5                                   | RE    |  | 100           | 15               | 340           | 36                               | 25                            |
| 4 x 4                                     | RE    |  | 160           | 17               | 460           | 47                               | 34                            |
| 4 x 6                                     | RE    |  | 240           | 18               | 570           | 59                               | 43                            |
| 4 x 10                                    | RE    |  | 400           | 20               | 775           | 79                               | 59                            |
| 4 x 10                                    | RM    |  | 400           | 20               | 775           | 79                               | 59                            |
| 4 x 16                                    | RE    |  | 640           | 22               | 1.072         | 102                              | 79                            |
| 4 x 16                                    | RM    |  | 640           | 22               | 1.072         | 102                              | 79                            |
| 4 x 25                                    | RM    |  | 1.000         | 27               | 1.632         | 133                              | 106                           |
| 4 x 35                                    | SM    |  | 1.400         | 27               | 1.959         | 159                              | 129                           |
| 4 x 50                                    | SM    |  | 2.000         | 32               | 2.595         | 188                              | 157                           |
| 4 x 70                                    | SM    |  | 2.800         | 36               | 3.488         | 232                              | 199                           |
| 4 x 95                                    | SM    |  | 3.800         | 41               | 4.637         | 280                              | 246                           |
| 4 x 120                                   | SM    |  | 4.800         | 43               | 5.689         | 318                              | 285                           |
| 4 x 150                                   | SM    |  | 6.000         | 49               | 6.973         | 359                              | 326                           |
| 4 x 185                                   | SM    |  | 7.400         | 54               | 8.663         | 406                              | 374                           |
| 4 x 240                                   | SM    |  | 9.600         | 60               | 11.140        | 473                              | 445                           |
| 5 x 1,5                                   | RE    |  | 75            | 15               | 317           | *                                | *                             |
| 5 x 2,5                                   | RE    |  | 125           | 16               | 391           | *                                | *                             |
| 5 x 4                                     | RE    |  | 200           | 18               | 537           | *                                | *                             |
| 5 x 6                                     | RE    |  | 300           | 19               | 672           | *                                | *                             |
| 5 x 10                                    | RE    |  | 500           | 21               | 921           | *                                | *                             |
| 5 x 10                                    | RM    |  | 500           | 21               | 921           | *                                | *                             |
| 5 x 16                                    | RE    |  | 800           | 24               | 1.294         | *                                | *                             |

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| Number of cores and nominal cross section | Copper figure | Overall diameter | Weight        | Current carrying capacity ground A | Current carrying capacity air A |
|-------------------------------------------|---------------|------------------|---------------|------------------------------------|---------------------------------|
| mm <sup>2</sup>                           | kg/km         | appr. mm         | appr. kg / km |                                    |                                 |
| 5 x 16 RM                                 | 800           | 24               | 1.294         | *                                  | *                               |
| 5 x 25 RM                                 | 1.250         | 29               | 2.004         | *                                  | *                               |
| 5 x 35 RM                                 | 1.750         | 30               | 2.575         | *                                  | *                               |
| 5 x 50 RM                                 | 2.500         | 36               | 3.193         | *                                  | *                               |
| 5 x 70 RM                                 | 3.500         | 40               | 4.319         | *                                  | *                               |
| 5 x 95 RM                                 | 4.750         | 46               | 5.783         | *                                  | *                               |
| 5 x 120 RM                                | 6.000         | 50               | 7.095         | *                                  | *                               |
| 5 x 150 RM                                | 7.500         | 59               | 8.240         | *                                  | *                               |
| 7 x 1,5 RE                                | 105           | 16               | 376           | *                                  | *                               |
| 10 x 1,5 RE                               | 150           | 19               | 495           | *                                  | *                               |
| 12 x 1,5 RE                               | 180           | 18               | 440           | *                                  | *                               |
| 14 x 1,5 RE                               | 210           | 20               | 494           | *                                  | *                               |
| 16 x 1,5 RE                               | 240           | 21               | 600           | *                                  | *                               |
| 19 x 1,5 RE                               | 285           | 22               | 614           | *                                  | *                               |
| 21 x 1,5 RE                               | 315           | 23               | 700           | *                                  | *                               |
| 24 x 1,5 RE                               | 360           | 24               | 769           | *                                  | *                               |
| 30 x 1,5 RE                               | 450           | 26               | 918           | *                                  | *                               |
| 40 x 1,5 RE                               | 600           | 29               | 1.250         | *                                  | *                               |
| 7 x 2,5 RE                                | 175           | 17               | 472           | *                                  | *                               |
| 10 x 2,5 RE                               | 250           | 20               | 530           | *                                  | *                               |
| 12 x 2,5 RE                               | 300           | 21               | 578           | *                                  | *                               |
| 14 x 2,5 RE                               | 350           | 22               | 680           | *                                  | *                               |
| 16 x 2,5 RE                               | 400           | 23               | 750           | *                                  | *                               |
| 19 x 2,5 RE                               | 475           | 24               | 870           | *                                  | *                               |
| 21 x 2,5 RE                               | 525           | 25               | 900           | *                                  | *                               |
| 24 x 2,5 RE                               | 600           | 26               | 1.035         | *                                  | *                               |
| 30 x 2,5 RE                               | 750           | 28               | 1.300         | *                                  | *                               |
| 40 x 2,5 RE                               | 1.000         | 31               | 1.700         | *                                  | *                               |
| 7 x 4 RE                                  | 280           | 18               | 600           | *                                  | *                               |
| 7 x 6 RE                                  | 420           | 20               | 760           | *                                  | *                               |
| 7 x 10 RE                                 | 700           | 22               | 1.080         | *                                  | *                               |

\* The current carrying capacity of the cables depends on the number of cores loaded (see DIN VDE 0276-627)