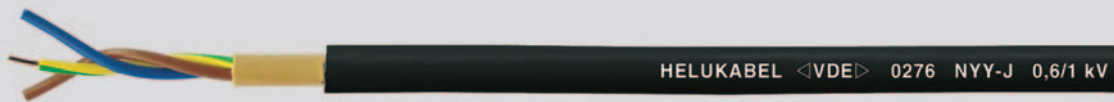


**NYY power cable, 0,6/1kV, VDE approved****Technical data**

- Power and control cable to DIN VDE 0276 part 603, HD 603 S1 and IEC 60502, 7 core and above to DIN VDE 0276 part 627, HD 627 S1 and IEC 60502
- **Temperature range**  
flexing -5°C to +50°C  
fixed installation -40°C to +70°C
- Permissible **operating temperature** at conductor +70°C
- Permissible **short circuit temperature** (short circuit duration max. 5 s)  
≤ 300 mm<sup>2</sup> +160°C  
> 300 mm<sup>2</sup> +140°C
- **Nominal voltage** U<sub>0</sub>/U 0,6/1 kV
- **Test voltage** 4 kV
- Max. permissible **tensile stress** with cable grip at conductor 50 N/mm<sup>2</sup>
- **Minimum bending radius**  
single-core 15x cable Ø  
multi-core 12x cable Ø
- **Caloric load values**  
see Technical Informations

**Cable structure**

- Bare copper-conductor, to DIN VDE 0295 cl.1 or cl.2, single-wire or multi-wire, BS 6360 cl.1 or cl.2, IEC 60228 cl.1 or cl.2
- Core insulation of PVC compound type DIV4 to HD 603 S1
- Core identification to DIN VDE 0293-308, 0276 part 603
- Core colour for 3+½ conductor  
J-version: GN-YE (½), BN, BK, GY  
O-version: BU (½), BN, BK, GY
- Cores stranded in concentric layers
- Outer sheath of PVC compound type DMV5 to HD 603 S1
- Sheath colour black

**Properties**

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

**Tests**

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

**Highest permissible voltage**

- Direct current systems 1,8 kV
- Alternating current systems
  - Single-phase systems  
both outer conductors insulated 1,4 kV
  - Single-phase systems  
one outer conductor earthed 0,7 kV
- Three-phase systems 1,2 kV

**Note**

- re = round conductor, single-wire  
rm = round conductor, multi-wire  
sm = sectional conductor, multi-wire
- J-version = with GN-YE conductor  
O-version = without GN-YE conductor
- In respect to 3+½ conductors  
Whereby only one conductor is allowed to contain a smaller cross-section (as per DIN VDE 0276 part 603 table 5) and permitted to place as insulated core (green-yellow and blue as ½-conductor), stranded in layer.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

**Application**

Power cables for energy supply are installed in open air, in underground, in water, in concrete, indoors, in cable ducts, power stations, for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

☑= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

| No. cores x cross-sec. mm <sup>2</sup> |    | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | J type Part no. | AWG-No.    |   | O type Part no. | AWG-No.    |   |
|--|----|-----------------|---------------------|---------------------|-----------------|------------|---|-----------------|------------|---|
| 1 x 4                                  | re | 9,0             | 38,0                | 115,0               | 32001           | 12         | - | 32089           | 12         | - |
| 1 x 6                                  | re | 9,5             | 58,0                | 135,0               | 32002           | 10         | - | 32090           | 10         | - |
| 1 x 10                                 | re | 10,0            | 96,0                | 179,0               | 32003           | 8          | - | 32091           | 8          | - |
| 1 x 16                                 | re | 11,0            | 154,0               | 245,0               | 32004           | 6          | - | 32092           | 6          | - |
| 1 x 25                                 | rm | 12,0            | 240,0               | 360,0               | 32005           | 4          | - | 32093           | 4          | - |
| 1 x 35                                 | rm | 13,0            | 336,0               | 470,0               | 32006           | 2          | - | 32094           | 2          | - |
| 1 x 50                                 | rm | 15,0            | 480,0               | 620,0               | 32007           | 1          | - | 32095           | 1          | - |
| 1 x 70                                 | rm | 16,5            | 672,0               | 810,0               | 32008           | 2/0        | - | 32096           | 2/0        | - |
| 1 x 95                                 | rm | 19,0            | 912,0               | 1110,0              | 32009           | 3/0        | - | 32097           | 3/0        | - |
| 1 x 120                                | rm | 20,5            | 1152,0              | 1360,0              | 32010           | 4/0        | - | 32098           | 4/0        | - |
| 1 x 150                                | rm | 22,5            | 1440,0              | 1670,0              | 32011           | 300 kcmil  | - | 32099           | 300 kcmil  | - |
| 1 x 185                                | rm | 25,0            | 1776,0              | 2050,0              | 32012           | 350 kcmil  | - | 32100           | 350 kcmil  | - |
| 1 x 240                                | rm | 28,0            | 2304,0              | 2630,0              | 32013           | 500 kcmil  | - | 32101           | 500 kcmil  | - |
| 1 x 300                                | rm | 30,0            | 2880,0              | 3200,0              | 32014           | 600 kcmil  | - | 32102           | 600 kcmil  | - |
| 1 x 400                                | rm | 34,0            | 3840,0              | 4150,0              | 32015           | 750 kcmil  | - | 32103           | 750 kcmil  | - |
| 1 x 500                                | rm | 38,0            | 4800,0              | 5200,0              | 32556           | 1000 kcmil | - | 32558           | 1000 kcmil | - |
| 1 x 630                                | rm | 43,0            | 6048,0              | 6650,0              | 32557           | 1250 kcmil | - | 32559           | 1250 kcmil | - |

Continuation ▶

**NYN** power cable, 0,6/1kV, VDE approved

| No. cores x cross-sec. mm² |    | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | J type Part no. | AWG-No.   | O type Part no. | AWG-No. |           |   |
|----------------------------|----|-----------------|---------------------|---------------------|-----------------|-----------|-----------------|---------|-----------|---|
| 2 x 1,5                    | re | 11,0            | 29,0                | 175,0               | 32016           | 16        | -               | 32104   | 16        | - |
| 2 x 2,5                    | re | 12,0            | 48,0                | 215,0               | 32017           | 14        | -               | 32105   | 14        | - |
| 2 x 4                      | re | 14,0            | 77,0                | 295,0               | 32018           | 12        | -               | 32106   | 12        | - |
| 2 x 6                      | re | 15,0            | 115,0               | 370,0               | 32019           | 10        | -               | 32107   | 10        | - |
| 2 x 10                     | re | 16,5            | 192,0               | 495,0               | 32020           | 8         | -               | 32108   | 8         | - |
| 2 x 16                     | re | 18,5            | 307,0               | 670,0               | 32021           | 6         | -               | 32109   | 6         | - |
| 2 x 25                     | rm | 23,5            | 480,0               | 960,0               | 32022           | 4         | -               | 32110   | 4         | - |
| 3 x 1,5                    | re | 11,5            | 43,0                | 195,0               | 32023           | 16        | -               | 32111   | 16        | - |
| 3 x 2,5                    | re | 12,5            | 72,0                | 250,0               | 32024           | 14        | -               | 32112   | 14        | - |
| 3 x 4                      | re | 14,0            | 115,0               | 340,0               | 32025           | 12        | -               | 32113   | 12        | - |
| 3 x 6                      | re | 15,0            | 173,0               | 430,0               | 32026           | 10        | -               | 32114   | 10        | - |
| 3 x 10                     | re | 17,0            | 288,0               | 590,0               | 32027           | 8         | -               | 32115   | 8         | - |
| 3 x 16                     | re | 19,0            | 461,0               | 820,0               | 32028           | 6         | -               | 32116   | 6         | - |
| 3 x 25                     | rm | 24,0            | 720,0               | 1320,0              | 32029           | 4         | -               | 32117   | 4         | - |
| 3 x 35                     | sm | 25,0            | 1008,0              | 1450,0              | 32030           | 2         | -               | 32118   | 2         | - |
| 3 x 50                     | sm | 26,5            | 1440,0              | 1850,0              | 32031           | 1         | -               | 32119   | 1         | - |
| 3 x 70                     | sm | 30,0            | 2016,0              | 2450,0              | 32032           | 2/0       | -               | 32120   | 2/0       | - |
| 3 x 95                     | sm | 34,5            | 2736,0              | 3300,0              | 32033           | 3/0       | -               | 32121   | 3/0       | - |
| 3 x 120                    | sm | 37,0            | 3456,0              | 4100,0              | 32034           | 4/0       | -               | 32122   | 4/0       | - |
| 3 x 150                    | sm | 40,0            | 4320,0              | 4900,0              | 32293           | 300 kcmil | -               | 32296   | 300 kcmil | - |
| 3 x 185                    | sm | 46,0            | 5328,0              | 6500,0              | 32294           | 350 kcmil | -               | 32297   | 350 kcmil | - |
| 3 x 240                    | sm | 51,0            | 6912,0              | 8300,0              | 32295           | 500 kcmil | -               | 32298   | 500 kcmil | - |
| 4 x 1,5                    | re | 12,0            | 58,0                | 230,0               | 32044           | 16        | -               | 32132   | 16        | - |
| 4 x 2,5                    | re | 13,5            | 96,0                | 300,0               | 32045           | 14        | -               | 32133   | 14        | - |
| 4 x 4                      | re | 15,0            | 154,0               | 410,0               | 32046           | 12        | -               | 32134   | 12        | - |
| 4 x 6                      | re | 16,5            | 230,0               | 520,0               | 32047           | 10        | -               | 32135   | 10        | - |
| 4 x 10                     | re | 18,5            | 384,0               | 730,0               | 32048           | 8         | -               | 32136   | 8         | - |
| 4 x 16                     | re | 21,5            | 614,0               | 1045,0              | 32049           | 6         | -               | 32137   | 6         | - |
| 4 x 25                     | rm | 26,0            | 960,0               | 1640,0              | 32050           | 4         | -               | 32138   | 4         | - |
| 4 x 35                     | sm | 27,5            | 1344,0              | 1760,0              | 32051           | 2         | -               | 32139   | 2         | - |
| 4 x 50                     | sm | 30,0            | 1920,0              | 2350,0              | 32052           | 1         | -               | 32140   | 1         | - |
| 4 x 70                     | sm | 34,0            | 2688,0              | 3100,0              | 32053           | 2/0       | -               | 32141   | 2/0       | - |
| 4 x 95                     | sm | 39,0            | 3648,0              | 4250,0              | 32054           | 3/0       | -               | 32142   | 3/0       | - |
| 4 x 120                    | sm | 42,5            | 4608,0              | 5300,0              | 32055           | 4/0       | -               | 32143   | 4/0       | - |
| 4 x 150                    | sm | 47,5            | 5760,0              | 6400,0              | 32056           | 300 kcmil | -               | 32144   | 300 kcmil | - |
| 4 x 185                    | sm | 52,0            | 7104,0              | 8500,0              | 32057           | 350 kcmil | -               | 32145   | 350 kcmil | - |
| 4 x 240                    | sm | 58,0            | 9216,0              | 11000,0             | 32058           | 500 kcmil | -               | 32146   | 500 kcmil | - |
| 5 x 1,5                    | re | 13,0            | 72,0                | 270,0               | 32059           | 16        | -               | 32147   | 16        | - |
| 5 x 2,5                    | re | 14,5            | 120,0               | 360,0               | 32060           | 14        | -               | 32148   | 14        | - |
| 5 x 4                      | re | 16,5            | 192,0               | 490,0               | 32061           | 12        | -               | 32149   | 12        | - |
| 5 x 6                      | re | 18,0            | 288,0               | 600,0               | 32062           | 10        | -               | 32150   | 10        | - |
| 5 x 10                     | re | 20,0            | 480,0               | 890,0               | 32063           | 8         | -               | 32151   | 8         | - |
| 5 x 16                     | re | 22,5            | 768,0               | 1255,0              | 32064           | 6         | -               | 32152   | 6         | - |
| 5 x 25                     | rm | 28,0            | 1200,0              | 1960,0              | 32065           | 4         | -               | -       | -         | - |
| 5 x 35                     | rm | 34,0            | 1680,0              | 2400,0              | 32300           | 2         | -               | -       | -         | - |
| 5 x 50                     | rm | 40,0            | 2400,0              | 3500,0              | 32257           | 1         | -               | -       | -         | - |
| 5 x 70                     | rm | 42,7            | 3360,0              | 4470,0              | 79608           | 2/0       | -               | -       | -         | - |
| 5 x 95                     | rm | 50,3            | 4560,0              | 6149,0              | 700939          | 3/0       | -               | -       | -         | - |
| 7 x 1,5                    | re | 15,5            | 101,0               | 310,0               | 32066           | 16        | -               | 32153   | 16        | - |
| 7 x 2,5                    | re | 16,5            | 168,0               | 450,0               | 32076           | 14        | -               | 32163   | 10        | - |
| 7 x 4                      | re | 18,5            | 269,0               | 640,0               | 32086           | 12        | -               | 32173   | 12        | - |
| 7 x 6                      | re | 20,0            | 403,0               | 850,0               | 32087           | 10        | -               | 32174   | 10        | - |
| 7 x 10                     | re | 23,5            | 672,0               | 1200,0              | 32088           | 8         | -               | 32175   | 8         | - |
| 10 x 1,5                   | re | 18,0            | 144,0               | 380,0               | 32067           | 16        | -               | 32154   | 16        | - |
| 10 x 2,5                   | re | 19,5            | 240,0               | 520,0               | 32077           | 14        | -               | 32164   | 10        | - |
| 12 x 1,5                   | re | 19,0            | 173,0               | 420,0               | 32068           | 16        | -               | 32155   | 16        | - |
| 12 x 2,5                   | re | 20,5            | 288,0               | 600,0               | 32078           | 14        | -               | 32165   | 14        | - |
| 14 x 1,5                   | re | 20,0            | 202,0               | 470,0               | 32069           | 16        | -               | 32156   | 16        | - |
| 14 x 2,5                   | re | 21,0            | 336,0               | 680,0               | 32079           | 14        | -               | 32166   | 14        | - |
| 16 x 1,5                   | re | 21,0            | 230,0               | 520,0               | 32070           | 16        | -               | 32157   | 16        | - |
| 16 x 2,5                   | re | 22,0            | 384,0               | 750,0               | 32080           | 14        | -               | 32167   | 14        | - |
| 19 x 1,5                   | re | 22,0            | 274,0               | 570,0               | 32071           | 16        | -               | 32158   | 16        | - |
| 19 x 2,5                   | re | 23,0            | 456,0               | 850,0               | 32081           | 14        | -               | 32168   | 14        | - |
| 21 x 1,5                   | re | 23,0            | 302,0               | 650,0               | 32072           | 16        | -               | 32159   | 16        | - |
| 21 x 2,5                   | re | 24,5            | 504,0               | 980,0               | 32082           | 14        | -               | -       | -         | - |
| 24 x 1,5                   | re | 25,0            | 346,0               | 750,0               | 32073           | 16        | -               | 32160   | 16        | - |
| 24 x 2,5                   | re | 27,0            | 576,0               | 1100,0              | 32083           | 14        | -               | 32170   | 14        | - |
| 30 x 1,5                   | re | 26,0            | 432,0               | 860,0               | 32074           | 16        | -               | 32161   | 16        | - |
| 30 x 2,5                   | re | 28,0            | 720,0               | 1280,0              | 32084           | 14        | -               | 32171   | 14        | - |
| 40 x 1,5                   | re | 29,0            | 576,0               | 1070,0              | 32075           | 16        | -               | 32162   | 16        | - |
| 40 x 2,5                   | re | 31,5            | 960,0               | 1700,0              | 32085           | 14        | -               | 32172   | 14        | - |
| 52 x 2,5                   | re | 35,0            | 1248,0              | 2150,0              | 32169           | 14        | -               | -       | -         | - |
| 61 x 1,5                   | re | 34,0            | 878,0               | 1680,0              | 32176           | 16        | -               | -       | -         | - |

**3+1/2-conductors**

| No. cores x cross-sec. mm² |       | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | J type Part no. | AWG-No.   | O type Part no. | AWG-No. |           |   |
|----------------------------|-------|-----------------|---------------------|---------------------|-----------------|-----------|-----------------|---------|-----------|---|
| 3 x 25 / 16                | rm/re | 24,5            | 874,0               | 1530,0              | 32035           | 4         | -               | 32123   | 4         | - |
| 3 x 35 / 16                | sm/re | 26,0            | 1162,0              | 1750,0              | 32036           | 2         | -               | 32124   | 2         | - |
| 3 x 50 / 25                | sm    | 29,0            | 1680,0              | 2350,0              | 32037           | 1         | -               | 32125   | 1         | - |
| 3 x 70 / 35                | sm/rm | 32,0            | 2352,0              | 2850,0              | 32038           | 2/0       | -               | 32126   | 2/0       | - |
| 3 x 95 / 50                | sm    | 38,0            | 3216,0              | 3850,0              | 32039           | 3/0       | -               | 32127   | 3/0       | - |
| 3 x 120 / 70               | sm    | 41,0            | 4128,0              | 4780,0              | 32040           | 4/0       | -               | 32128   | 4/0       | - |
| 3 x 150 / 70               | sm    | 46,0            | 4992,0              | 5800,0              | 32041           | 300 kcmil | -               | 32129   | 300 kcmil | - |
| 3 x 185 / 95               | sm    | 51,0            | 6240,0              | 7600,0              | 32042           | 350 kcmil | -               | 32130   | 350 kcmil | - |
| 3 x 240 / 120              | sm    | 58,0            | 8064,0              | 9800,0              | 32043           | 500 kcmil | -               | 32131   | 500 kcmil | - |
| 3 x 300 / 150              | sm    | 64,0            | 10080,0             | 11500,0             | 32256           | 600 kcmil | -               | -       | -         | - |

Dimensions and specifications may be changed without prior notice. (RQ01)