

LiYCY 1kV Cca

Power and control cable, 0,6/1 kV
+70 °C service temperature, double screened, fire retardant, UV resistant
IEC 60502-1 and EN 50575

Application

Flexible collectively screened control cable with improved fire characteristics for various applications.
For installation in conduit, buried or open air.

Construction



1. Conductor: Copper conductor, bare, flexible (class 5)
2. Insulation: PVC
Core identification: according to HD 308 S2
3. Separator: Plastic tape
4. Screen: Laminated Alu/PETP tape with overlapping tinned copper wire braid
5. Outer sheath: PVC, grey

Technical information

| | | |
|---|--------------------|---------------------------------------|
| Rated voltage | U ₀ /U | 0,6/1 kV |
| Max. permissible temperature at conductor | | 70 °C |
| Max. short circuit temperature of the conductor | | 160 °C (max. 5 sec) |
| Min. operating temperature | fixed installation | -40 °C |
| Min. bending radius mm | | 5 x outer diameter in mm |
| Safety parameters | | |
| Reaction to fire | | EN 50399 C _{ca} – s3, d1, a3 |
| Additional parameters | | |
| UV resistance | | UNE 211605 |
| Water resistance | | AD5 |
| Chemical and oil resistance | | Good |
| Impact resistance | | AG2 |

LiYCY 1kV Cca

Power and control cable, 0,6/1 kV
+70 °C service temperature, double screened, fire retardant, UV resistant
IEC 60502-1 and EN 50575

| N° of cores and cross section mm ² | Outer diameter approx. mm | Weight approx. kg/km | Current rating open air A | Current rating buried A |
|--|------------------------------|-------------------------|---------------------------------|-------------------------------|
| 1 x 10 | 11,7 | 225 | 60 | 50 |
| 1 x 16 | 12,6 | 290 | 82 | 64 |
| 1 x 25 | 14,5 | 405 | 110 | 82 |
| 1 x 35 | 15,6 | 510 | 137 | 98 |
| 1 x 50 | 17,5 | 675 | 167 | 116 |
| 1 x 70 | 19,6 | 900 | 216 | 143 |
| 1 x 95 | 21,7 | 1.140 | 264 | 169 |
| 1 x 120 | 23,3 | 1.395 | 308 | 192 |
| 1 x 150 | 25,6 | 1.715 | 356 | 217 |
| 1 x 185 | 27,4 | 2.010 | 409 | 243 |
| 1 x 240 | 31,4 | 2.650 | 485 | 280 |
| 1 x 300 | 34,3 | 3.255 | 561 | 316 |
| 2 x 2,5 | 8,6 | 110 | 30 | 29 |
| 2 x 4 | 11,4 | 180 | 40 | 37 |
| 2 x 6 | 12,5 | 225 | 51 | 46 |
| 2 x 10 | 15,2 | 350 | 70 | 60 |
| 2 x 16 | 17,5 | 485 | 94 | 78 |
| 2 x 25 | 21,4 | 670 | 119 | 99 |
| 2 x 35 | 24,2 | 895 | 148 | 119 |
| 3 G 2,5 | 9,4 | 145 | 30 | 29 |
| 3 G 4 | 11,7 | 225 | 40 | 37 |
| 3 G 6 | 12,9 | 285 | 51 | 46 |
| 3 G 10 | 16,1 | 450 | 70 | 60 |
| 3 x 16 | 18,7 | 630 | 80 | 64 |
| 3 x 25 | 23,1 | 965 | 101 | 82 |
| 3 x 35 | 25,2 | 1.255 | 126 | 98 |
| 3 x 50 | 29,6 | 1.745 | 153 | 116 |
| 3 x 70 | 33,6 | 2.360 | 196 | 143 |
| 4 x 2,5 | 10,2 | 180 | 25 | 24 |
| 4 x 4 | 12,6 | 275 | 34 | 30 |
| 4 x 6 | 14,4 | 360 | 43 | 38 |
| 4 x 10 | 17,5 | 570 | 60 | 50 |
| 4 x 16 | 20,1 | 815 | 80 | 64 |
| 4 x 25 | 24,5 | 1.225 | 101 | 82 |
| 4 x 35 | 28,2 | 1.655 | 126 | 98 |
| 4 x 50 | 32,3 | 2.270 | 153 | 116 |
| 4 x 70 | 37,5 | 3.105 | 196 | 143 |
| 4 x 95 | 42,6 | 4.020 | 238 | 169 |
| 5 G 2,5 | 11,2 | 220 | 25 | 24 |
| 5 G 4 | 14,3 | 340 | 34 | 30 |
| 5 G 6 | 16,0 | 450 | 43 | 38 |
| 5 G 10 | 19,6 | 725 | 60 | 50 |
| 5 G 16 | 22,3 | 1.030 | 80 | 64 |
| 5 G 25 | 28,1 | 1.565 | 101 | 82 |
| 5 G 35 | 31,3 | 2.100 | 126 | 98 |

LiYCY 1kV Cca

Power and control cable, 0,6/1 kV
+70 °C service temperature, double screened, fire retardant, UV resistant
IEC 60502-1 and EN 50575

| N° of cores and cross section mm ² | Outer diameter approx. mm | Weight approx. kg/km | Current rating open air A | Current rating buried A |
|--|------------------------------|-------------------------|---------------------------------|-------------------------------|
| 6 G 2,5 | 12,4 | 255 | 30 | 29 |
| 7 G 2,5 | 12,5 | 275 | 30 | 29 |
| 10 G 2,5 | 14,9 | 375 | 30 | 29 |
| 12 G 2,5 | 15,6 | 445 | 30 | 29 |
| 14 G 2,5 | 16,9 | 505 | 30 | 29 |
| 16 G 2,5 | 17,8 | 575 | 30 | 29 |
| 19 G 2,5 | 18,9 | 665 | 30 | 29 |
| 24 G 2,5 | 21,4 | 825 | 30 | 29 |
| 27 G 2,5 | 22,4 | 925 | 30 | 29 |
| 30 G 2,5 | 23,3 | 1.015 | 30 | 29 |
| 37 G 2,5 | 25,5 | 1.280 | 30 | 29 |

Current-carrying capacities, in amperes, are calculated according to IEC 60364-5-52 and for the following conditions:

- Open air: Reference method F for single-core and method E for multicore cables according to IEC 60364-5-52 in open air at 30°C ambient temperature
- Buried: Reference method D1 according. In a duct buried at 0,7 m depth with soil thermal resistivity of 2,5 K·m/W and 20°C of ground temperature

For cables having 2 conductors or 3 cores up to 10 mm², it is supposed a single-phase circuit. For the rest of the cables are supposed a three-phase circuit.

For cables having 6 or more conductors, are supposed a single-phase circuit that not all conductors are fully charged.

La version française de cette fiche technique est disponible sur demande,
De technische gegevens zijn op aanvraag in het Nederlandads beschikbaar,