# Power cable
# E-AYY-J/-O

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

**Construction and technical data:**

| | |
|---|---|
| **Standard:** | ÖVE/ÖNORM E 8200-603 (HD 603) |
| **Conductor material:** | aluminium |
| **Insulation:** | PVC |
| **Sheathing material:** | PVC |
| **Colour of outer sheath:** | black |
| **Flame-retardant:** | EN 60332-1-2 |
| **UV-resistant:** | yes |
| **For outdoor use:** | yes |
| **Max. temperature at conductor, °C:** | 70 °C |
| **Permitted outer cable temperature, fixed, °C:** | 70 °C |
| **Permitted outer cable temperature, moved, °C:** | -5 - +70 °C |
| **Bending radius, fixed installation, multicore:** | 12 x Ø |
| **Bending radius, fixed installation, singlecore:** | 15 x Ø |

*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.*

Core identification acc. to HD 308 S2

| Number of cores | with protective conductor | without protective conductor |
|---|---|---|
| 1 | green-yellow | black |
| 3 | green-yellow, blue, brown | brown, black, grey |
| 4 | green-yellow, brown, black, grey | blue, brown, black, grey |
| 5 | green-yellow, blue, brown, black, grey | blue, brown, black, grey, black |

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E-AYY-J

**Nominal voltage Uo:** 0.6 kV

**Nominal voltage U:** 1 kV

**Maximum permitted operating voltage in three-phase systems:** 1.2 kV

**Test voltage:** 4 kV

**Protective conductor:** yes

| part no. | part name | Rl [Ohm/km] | Ibl [A] | Ibe [A] | Ik [kA] | Ø [mm] | Al | G [kg] |
|---|---|---|---|---|---|---|---|---|
| 090448 | 04X25 RM | 1.2 | 81 | 102 | 1.9 | 25 | 290 | 851 |
| 090447 | 04X35 SM | 0.868 | 99 | 122 | 2.66 | 28 | 406 | 690 |
| 090449 | 04X50 SM | 0.641 | 119 | 144 | 3.8 | 30 | 580 | 832 |
| 090450 | 04X70 SM | 0.443 | 152 | 179 | 5.32 | 35 | 810 | 1147 |
| 090456 | 04X95 SM | 0.32 | 186 | 215 | 7.22 | 39 | 1102 | 1460 |
| 090503 | 04X120 SM | 0.253 | 216 | 245 | 9.12 | 41 | 1392 | 1861 |
| 090451 | 04X150 SM | 0.206 | 246 | 275 | 11.4 | 45 | 1740 | 2318 |
| 090511 | 04X185 SM | 0.164 | 285 | 313 | 14.1 | 48 | 2146 | 3250 |
| 090452 | 04X240 SM | 0.125 | 338 | 364 | 18.2 | 55 | 2780 | 3616 |

E-AYY-O

**Nominal voltage Uo:** 0.6 kV

**Nominal voltage U:** 1 kV

**Maximum permitted operating voltage in three-phase systems:** 1.2 kV

**Test voltage:** 4 kV

**Protective conductor:** no

| part no. | part name | Rl [Ohm/km] | Ibl [A] | Ibe [A] | Ik [kA] | Ø [mm] | Al | G [kg] |
|---|---|---|---|---|---|---|---|---|
| 090524 | 04X25 RM | 1.2 | 81 | 102 | 1.9 | 25 | 290 | 851 |
| 090525 | 04X35 SM | 0.868 | 99 | 122 | 2.66 | 28 | 406 | 690 |
| 090526 | 04X50 SM | 0.641 | 119 | 144 | 3.8 | 30 | 580 | 832 |
| 090527 | 04X70 SM | 0.443 | 152 | 179 | 5.32 | 35 | 810 | 1147 |
| 090528 | 04X95 SM | 0.32 | 186 | 215 | 7.22 | 39 | 1102 | 1460 |
| 090512 | 04X120 SM | 0.253 | 216 | 245 | 9.12 | 41 | 1392 | 1861 |
| 090529 | 04X150 SM | 0.206 | 246 | 275 | 11.4 | 45 | 1740 | 2318 |
| 090513 | 04X185 SM | 0.164 | 285 | 313 | 14.1 | 48 | 2146 | 3250 |

| | |
|---|---|
| Rl | Conductor resistance |
| Ibl | Ampacity in air (30 °C) |
| Ibe | Ampacity in ground (20 °C) |
| Ik | Short-circuit current (1 s) |
| Ø | outer diameter approx. |
| Al | Aluminium weight (GER) |
| G | net weight per 1000 |

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