

# Power cable

## E-AYY-J/-O



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

### Construction and technical data:

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

## E-AYY-J

<b>Nominal voltage U<sub>o</sub>:</b>	0.6 kV
<b>Nominal voltage U:</b>	1 kV
<b>Maximum permitted operating voltage in three-phase systems:</b>	1.2 kV
<b>Test voltage:</b>	4 kV
<b>Protective conductor:</b>	yes

part no.	part name	RI [Ohm/km]	I <sub>bl</sub> [A]	I <sub>be</sub> [A]	I <sub>k</sub> [kA]	R <sub>bv</sub> [mm]	Ø [mm]	Al	G [kg]
090448	04X25 RM	1.2	81	102	1.9	300	25	290	851
090447	04X35 SM	0.868	99	122	2.66	336	28	406	690
090449	04X50 SM	0.641	119	144	3.8	360	30	580	832
090450	04X70 SM	0.443	152	179	5.32	420	35	810	1147
090456	04X95 SM	0.32	186	215	7.22	468	39	1102	1460
090503	04X120 SM	0.253	216	245	9.12	492	41	1392	1861
090451	04X150 SM	0.206	246	275	11.4	540	45	1740	2318
090511	04X185 SM	0.164	285	313	14.1	576	48	2146	3250
090452	04X240 SM	0.125	338	364	18.2	660	55	2780	3616

## E-AYY-O

<b>Nominal voltage U<sub>o</sub>:</b>	0.6 kV
<b>Nominal voltage U:</b>	1 kV
<b>Maximum permitted operating voltage in three-phase systems:</b>	1.2 kV
<b>Test voltage:</b>	4 kV
<b>Protective conductor:</b>	no

part no.	part name	RI [Ohm/km]	I <sub>bl</sub> [A]	I <sub>be</sub> [A]	I <sub>k</sub> [kA]	R <sub>bv</sub> [mm]	Ø [mm]	Al	G [kg]
090524	04X25 RM	1.2	81	102	1.9	300	25	290	851
090525	04X35 SM	0.868	99	122	2.66	336	28	406	690
090526	04X50 SM	0.641	119	144	3.8	360	30	580	832
090527	04X70 SM	0.443	152	179	5.32	420	35	810	1147
090528	04X95 SM	0.32	186	215	7.22	468	39	1102	1460
090512	04X120 SM	0.253	216	245	9.12	492	41	1392	1861
090529	04X150 SM	0.206	246	275	11.4	540	45	1740	2318
090513	04X185 SM	0.164	285	313	14.1	576	48	2146	3250

RI	Conductor resistance
I <sub>bl</sub>	Ampacity in air (30 °C)
I <sub>be</sub>	Ampacity in ground (20 °C)
I <sub>k</sub>	Short-circuit current (1 s)
R <sub>bv</sub>	Bending radius, fixed installation
Ø	outer diameter approx.
Al	Aluminium weight (GER)
G	net weight per 1000