

# Power cable E-YCY



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

## Construction and technical data:

<b>CPR-classification according to EN 50575:</b>	Eca
<b>Standard:</b>	ÖVE/ÖNORM E 8200-603 (HD 603)
<b>Conductor material:</b>	copper, bare
<b>Conductor construction:</b>	class 1, from 25 sqmm class 2
<b>Insulation:</b>	PVC DIV 4
<b>Concentric conductor:</b>	Copper wires + counter helix
<b>Sheathing material:</b>	PVC
<b>Colour of outer sheath:</b>	black
<b>Flame-retardant:</b>	VDE 0482-332-1-2/IEC 60332-1-2
<b>UV-resistant:</b>	yes
<b>For outdoor use:</b>	yes
<b>Max. temperature at conductor, °C:</b>	70 °C
<b>Max. short circuit temperature at conductor, °C:</b>	160 °C
<b>Permitted outer cable temperature, fixed, °C:</b>	-30 - +70 °C
<b>Permitted outer cable temperature, moved, °C:</b>	-5 - +70 °C
<b>Bending radius, fixed installation:</b>	12 x Ø
<b>Bending radius, moving application:</b>	15 x Ø
<b>Maximum tensile strength at the conductor:</b>	50 N/mm <sup>2</sup>
<b>Meter mark:</b>	yes



*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

Number of cores	with protective conductor	without protective conductor
2	-	blue, brown
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	-
>5	green-yellow + numbers	numbers

## E-YCY-O

**Nominal voltage U<sub>o</sub>:** 0.6 kV

**Nominal voltage U:** 1 kV

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

**Test voltage:** 4 kV

part no.	part name		RI [Ohm/km]	Wi [mm]	l <sub>bl</sub> [A]	l <sub>be</sub> [A]	l <sub>k</sub> [kA]	W <sub>m</sub> [mm]	Ø [mm]	Cu	G [kg]
080361	02x4 RE/16	RE	4.61	1	37	54	0.46	1.8	16	259	436
080358	04X2,5 RE/16	RE	7.41	0.8	36	25	0.29	1.8	16	278	330
080359	04X4 RE/16	RE	4.61	1	46	34	0.46	1.8	18	336	630
080369	05x4 RE/16	RE	4.61	1	25.5	32	0.46	1.8	19	374	614
080371	05x6 RE/16	RE	3.08	1	32	41	0.69	1.8	21	470	754
080372	05x10 RE/16	RE	1.83	1	44	55	1.15	2	25	662	1034
080373	05x16 RE/16	RE	1.15	1	59	71	1.84	2	27	950	1364

## E-YCY-OZ

**Nominal voltage U<sub>o</sub>:** 0.6 kV

**Nominal voltage U:** 1 kV

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

**Test voltage:** 4 kV

part no.	part name		RI [Ohm/km]	Wi [mm]	l <sub>k</sub> [kA]	W <sub>m</sub> [mm]	Ø [mm]	Cu	G [kg]
080374	07x1,5 RE/16	RE	12.1	0.8	0.17	1.8	17	283	461
080375	07x2,5 RE/16	RE	7.41	0.8	0.29	1.8	18	350	545
080376	07x4 RE/16	RE	4.61	1	0.46	1.8	24	451	714
080377	10x1,5 RE/16	RE	12.1	0.8	0.17	1.8	20	326	558
080378	10x2,5 RE/16	RE	7.41	0.8	0.29	1.8	21	422	677
080379	12x1,5 RE/16	RE	12.1	0.8	0.17	1.8	20	355	605
080360	12X2.5 RE/16	RE	7.41	0.8	0.29	1.8	22	470	890
080380	14x1,5 RE/16	RE	12.1	0.8	0.17	1.8	21	384	657
080381	14x2,5 RE/16	RE	7.41	0.8	0.29	1.8	23	518	815
080382	19x1,5 RE/16	RE	12.1	0.8	0.17	1.8	23	456	781
080383	19x2,5 RE/16	RE	7.41	0.8	0.29	1.8	26	638	1013
080384	24x1,5 RE/16	RE	12.1	0.8	0.17	2	27	528	945
080385	24X2.5 RE/16	RE	7.41	0.8	0.29	2	29	758	1212
080386	30X1,5 RE/16	RE	12.1	0.8	0.17	2	28	614	1086
080387	30X2,5 RE/16	RE	7.41	0.8	0.29	2	30	902	1412

## E-YCY-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

part no.	part name		RI [Ohm/km]	Wi [mm]	I <sub>bl</sub> [A]	I <sub>be</sub> [A]	I <sub>k</sub> [kA]	W <sub>m</sub> [mm]	Ø [mm]	Cu	G [kg]
080368	05x2,5 RE/16	RE	7.41	0.8	19.5	25	0.29	1.8	17	302	480
080370	05x4 RE/16	RE	4.61	1	25.5	32	0.46	1.8	19	374	614
080363	03x2,5 RE/16	RE	7.41	0.8	25	36	0.29	1.8	14	254	394

RI	Conductor resistance
Wi	Insulation wall thickness
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)
W <sub>m</sub>	Wall thickness of sheath
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000