

Power cable

E-YCY



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

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	ÖVE/ÖNORM E 8200-603 (HD 603)
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	PVC DIV 4
Concentric conductor:	Copper wires + counter helix
Sheathing material:	PVC
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Max. short circuit temperature at conductor, °C:	160 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	12 x Ø
Bending radius, moving application:	15 x Ø
Maximum tensile strength at the conductor:	50 N/mm ²
Meter mark:	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_o: 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 _{bl} [A]	l _{be} [A]	l _k [kA]	W _m [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_o: 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 _k [kA]	W _m [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	7.41	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

Nominal voltage U_o:	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]	I _{bl} [A]	I _{be} [A]	I _k [kA]	W _m [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 _{bl}	Ampacity in air (30 °C)
I _{be}	Ampacity in ground (20 °C)
I _k	Short-circuit current (1 s)
W _m	Wall thickness of sheath
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000