

YSLCY

Flexible control cable, PVC insulated,
with Cu screen and PVC sheath

Alternative mark: **CY (-JZ, -OZ,..)**

YSLCY-JZ: black numbered cores, with green-yellow core

YSLCY-OZ: black numbered cores, without green-yellow core

YSLCY-JB: coloured cores, with green-yellow core

YSLCY-OB: coloured cores, without green-yellow core

standards: DIN VDE 0245

Control cables

Y - PVC insulation
SL - flexible control cable
C - screen, Cu braid
Y - PVC sheath



Technical data

Temperature range:

- during installation and application with bending: -5 °C up to +50 °C
- fixed installed: -30 °C up to +70 °C

Nominal voltage: $U_0/U = 300/500$ V

Test voltage: min. 4000 V

Insulation resistance: min. 20 MΩ x km

Minimal inner bending radius: (D = external cable diameter)

- fixed installed: 6D
- at application with bending: 20D

Behaviour in fire: Flame retardant (self-extinguishing) cable acc. to **IEC 60332-1** / EN 60332-1 (earlier EN 50265-2-1) / VDE 0482-332-1 (earlier VDE 0482-265-2-1, also DIN VDE 0472 part 804 test method B)



Construction

1. **Conductor:** bare copper conductor, fine wired stranded, class 5 acc. to IEC 60228 / HD 383 / DIN VDE 0295
2. **Insulation:** PVC compound T12 acc. to HD 21.1 / DIN VDE 0281 or Y12 acc. to VDE 0207.4
 - with green-yellow core, always in external layer (≥ 3 cores) or without green-yellow core
 - core marking: (acc. to DIN VDE 0293) black numbered
 - cores stranded in layers
3. **Separator:** transparent plastic foil
4. **Screen:** Braid of tinned copper wires of 0,16 mm diameter, with min. 75% coverage
5. **Sheath:** PVC compound TM2 acc. to HD 21.1 / DIN VDE 0281 or YM2 acc. to VDE 0207.5
 - **sheath colour:** grey (RAL 7001) or transparent



Application

Flexible control cable used for signalling and control of static or mobile devices in industry, electric plants or offices. Screen of braided copper wires serves as protection against electromagnetic impacts and control disturbances. Lightweight and relatively thin, resistant to medium mechanical loads, used for fixed or limitedly mobile installations (not permanently mobile) without tensile load. Installed in dry or damp premises, outdoor application only under protection against UV-irradiation. Not intended for laying in ground or water.

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Conductor cross-section	Construction of individual conductor (No. of wires x diameter)	Insulation thickness	Conductor resistance at 20°C
nominal mm ²	nominal n x mm	nominal mm	max. Ω/km
0,5	16 x 0,20	0,4	39
0,75	24 x 0,20	0,4	26
1	32 x 0,20	0,4	19,5
1,5	30 x 0,25	0,5	13,3
2,5	50 x 0,25	0,7	7,98
4	56 x 0,30	0,8	4,95
6	84 x 0,30	0,8	3,3
10	80 x 0,40	1	1,91
16	128 x 0,40	1	1,21

Dimensions - number of cores x conductor cross-section	External diameter	Cu weight	Cable weight	Packing*
nominal N x mm ²	approx. mm	kg/km	approx. kg/km	
2 x 0,5	5,3	5,3	32	45 CUT
3 x 0,5	5,6	5,6	39	55 CUT
4 x 0,5	6,3	6,3	46	61 CUT
5 x 0,5	6,6	6,6	52	74 CUT
6 x 0,5	7,2	7,2	66	89 CUT
7 x 0,5	7,6	7,6	68	98 CUT
8 x 0,5	8,3	8,3	80	117 CUT
10 x 0,5	9	9	81	135 CUT
12 x 0,5	9,5	9,5	117	157 CUT
14 x 0,5	10,4	10,4	122	190 CUT
16 x 0,5	11,2	11,2	123	210 CUT
18 x 0,5	11	11	156	217 CUT
20 x 0,5	11,8	11,8	173	240 CUT
21 x 0,5	12,3	12,3	189	250 CUT
24 x 0,5	13	13	236	300 CUT
25 x 0,5	13,6	13,6	250	314 CUT
30 x 0,5	14	14	297	360 CUT
32 x 0,5	15,2	15,2	301	425 CUT
34 x 0,5	15,3	15,3	312	433 CUT
36 x 0,5	15,7	15,7	320	446 CUT
40 x 0,5	16,5	16,5	343	475 CUT
50 x 0,5	18,4	18,4	407	573 CUT
2 x 0,75	6,2	6,2	39	59 CUT
3 x 0,75	6,2	6,2	49	66 CUT
4 x 0,75	6,7	6,7	57	77 CUT
5 x 0,75	7,4	7,4	70	93 CUT
6 x 0,75	8	8	78	113 CUT
7 x 0,75	8,6	8,6	98	130 CUT
8 x 0,75	9,2	9,2	106	145 CUT
10 x 0,75	10,3	10,3	140	180 CUT
12 x 0,75	10,7	10,7	151	202 CUT
14 x 0,75	11,4	11,4	144	225 CUT
16 x 0,75	12	12	172	275 CUT
18 x 0,75	12,8	12,8	207	292 CUT
20 x 0,75	13,4	13,4	220	320 CUT
24 x 0,75	15,5	15,5	250	435 CUT
25 x 0,75	15,6	15,6	271	415 CUT
27 x 0,75	15,8	15,8	287	435 CUT
30 x 0,75	16,1	16,1	297	450 CUT
32 x 0,75	16,6	16,6	330	484 CUT
34 x 0,75	17,2	17,2	370	535 CUT
37 x 0,75	18,1	18,1	386	592 CUT
42 x 0,75	18,8	18,8	430	610 CUT
50 x 0,75	20,8	20,8	480	777 CUT
61 x 0,75	23,7	23,7	555	900 CUT
2 x 1	6,7	6,7	55	65 CUT
3 x 1	7	7	70	80 CUT
4 x 1	7,1	7,1	80	98 CUT
5 x 1	8,5	8,5	95	127 CUT

Control cables

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Dimensions - number of cores x conductor cross-section	External diameter	Cu weight	Cable weight	Packing*
nominal N x mm ²	approx. mm	kg/km	approx. kg/km	
6 x 1	9,1	105	144	CUT
7 x 1	9,7	120	158	CUT
8 x 1	11	130	197	CUT
10 x 1	12	138	232	CUT
12 x 1	12,4	186	260	CUT
14 x 1	13	198	302	CUT
16 x 1	13,9	203	346	CUT
18 x 1	14,5	245	380	CUT
20 x 1	15,8	286	440	CUT
25 x 1	18	342	534	CUT
34 x 1	20,6	440	741	CUT
37 x 1	21	485	790	CUT
50 x 1	24,2	626	1025	CUT
61 x 1	27,3	710	1205	CUT
2 x 1,5	7,3	65	88	CUT
3 x 1,5	7,7	90	100	CUT
4 x 1,5	8,3	110	126	CUT
5 x 1,5	9,4	125	160	CUT
7 x 1,5	10,7	159	208	CUT
8 x 1,5	12	172	244	CUT
10 x 1,5	13,4	193	315	CUT
12 x 1,5	13,6	254	338	CUT
14 x 1,5	13,7	272	383	CUT
16 x 1,5	14,3	285	424	CUT
18 x 1,5	16,3	367	479	CUT
21 x 1,5	17	424	560	CUT
24 x 1,5	19,7	448	690	CUT
25 x 1,5	20,3	492	705	CUT
34 x 1,5	21,3	683	950	CUT
42 x 1,5	25,8	782	1060	CUT
50 x 1,5	26,7	977	1290	CUT
61 x 1,5	29,1	1120	1705	CUT
2 x 2,5	9	98	130	CUT
3 x 2,5	9,9	148	167	CUT
4 x 2,5	10,2	174	195	CUT
5 x 2,5	11,6	200	223	CUT
7 x 2,5	13,7	235	344	CUT
10 x 2,5	15,8	335	460	CUT
12 x 2,5	18,2	440	570	CUT
18 x 2,5	19	569	978	CUT
25 x 2,5	22,2	827	1358	CUT
3 x 4	11,5	178	245	CUT
4 x 4	12,9	290	310	CUT
5 x 4	14,3	328	385	CUT
7 x 4	15,4	355	500	CUT
3 x 6	13	240	315	CUT
4 x 6	14,7	360	415	CUT
5 x 6	16,4	441	509	CUT
7 x 6	18	505	672	CUT
3 x 10	16,9	371	490	CUT
4 x 10	18,9	535	731	CUT
5 x 10	20,7	714	853	CUT
7 x 10	22,6	820	1291	CUT
4 x 16	20,8	809	993	CUT
5 x 16	22,9	1050	1295	CUT
7 x 16	24,8	1470	1813	CUT

*) Packing:

CUT = cable in different lengths on drum or reel, possible cutting at required length