

# YSLY-CY

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

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

**YSLY-CY-JZ:** black numbered cores, with green-yellow core

**YSLY-CY-OZ:** black numbered cores, without green-yellow core

**YSLY-CY-JB:** coloured cores, with green-yellow core

**YSLY-CY-OB:** coloured cores, without green-yellow core

**standards:** DIN VDE 0245

Control cables

Y - PVC insulation  
SL - flexible control cable  
Y - PVC inner sheath  
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 M $\Omega$  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 ( $\geq 3$  cores) or without green-yellow core
  - core marking: (acc. to DIN VDE 0293) black numbered or coloured
  - cores stranded in layers
3. **Inner sheath:** PVC compound
4. **Screen:** braid of tinned copper wires of 0,16 mm diameter, with min 75% coverage
5. **External 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. 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	Specific. el. resistance of insulation at 70°C	Conductor resistance at 20°C
nominal mm <sup>2</sup>	nominal n x mm	nominal mm	min. MΩ x km	max. Ω/km
0,5	16 x 0,20	0,4	0,013	39
0,75	24 x 0,20	0,4	0,011	26
1	32 x 0,20	0,4	0,01	19,5
1,5	30 x 0,25	0,5	0,009	13,3
2,5	50 x 0,25	0,7	0,008	7,98

Dimensions - number of cores x conductor cross-section	External diameter	Cu weight	Cable weight	Packing*
nominal N x mm <sup>2</sup>	approx. mm	kg/km	approx. kg/km	
2 x 0,5	7	41	75	CUT
3 x 0,5	7,3	45,5	83	CUT
4 x 0,5	7,9	55	99	CUT
5 x 0,5	8,4	66	112	CUT
7 x 0,5	8,9	80,5	132	CUT
10 x 0,5	10,6	83	170	CUT
12 x 0,5	11,3	138,5	202	CUT
18 x 0,5	13,3	156,4	289	CUT
21 x 0,5	13,9	160	315	CUT
25 x 0,5	15,2	250	378	CUT
30 x 0,5	16,1	297	429	CUT
40 x 0,5	18,2	343	542	CUT
50 x 0,5	20	390	680	CUT
61 x 0,5	21,5	475	780	CUT
2 x 0,75	7,4	46	86	CUT
3 x 0,75	7,9	57,9	100	CUT
4 x 0,75	8,4	64	115	CUT
5 x 0,75	8,9	77,4	130	CUT
7 x 0,75	9,7	102	161	CUT
12 x 0,75	12,3	177	247	CUT
18 x 0,75	14,5	243	356	CUT
20 x 0,75	15	230	420	CUT
25 x 0,75	16,6	307,3	465	CUT
34 x 0,75	18,9	323,2	601	CUT
40 x 0,75	20,5	369,4	734	CUT
41 x 0,75	20,6	400	728	CUT
50 x 0,75	22	530	875	CUT
61 x 0,75	23,5	620	1050	CUT
2 x 1	7,9	56	98	CUT
3 x 1	8,2	65,3	111	CUT
4 x 1	8,7	78,1	130	CUT
5 x 1	9,5	89,4	153	CUT
7 x 1	10,2	113,3	185	CUT
12 x 1	13,3	188,1	307	CUT
16 x 1	14,6	216	390	CUT
18 x 1	15,5	286	418	CUT
25 x 1	17,5	388,5	544	CUT
34 x 1	20,3	505	738	CUT
41 x 1	22	578	864	CUT
50 x 1	23,8	688	1011	CUT
61 x 1	25,3	750	1320	CUT
2 x 1,5	8,5	65	117	CUT
3 x 1,5	8,9	83	136	CUT
4 x 1,5	9,6	100	163	CUT
5 x 1,5	10,3	125	188	CUT
7 x 1,5	11,3	196	237	CUT
12 x 1,5	14,8	280	393	CUT
18 x 1,5	17,3	300	535	CUT
21 x 1,5	18	385	635	CUT
25 x 1,5	20,1	535	745	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 <sup>2</sup>	approx. mm	kg/km	approx. kg/km	
34 x 1,5	22,8	702	964	CUT
41 x 1,5	24,7	844,6	1123	CUT
50 x 1,5	27,1	1006	1372	CUT
61 x 1,5	28,6	1070	1680	CUT
2 x 2,5	9,9	112	202	CUT
3 x 2,5	10,3	146	192	CUT
4 x 2,5	11,3	167	233	CUT
5 x 2,5	12,6	200	283	CUT
7 x 2,5	13,9	288	371	CUT
12 x 2,5	17,6	477,3	585	CUT
18 x 2,5	20,8	490	830	CUT
25 x 2,5	24,6	775	1150	CUT
34 x 2,5	28	990	1475	CUT
42 x 2,5	29,4	1090	1790	CUT

\*) Packing:

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

