

YSLCY-EB

Flexible control cable PVC insulated, with Cu screen and blue coloured PVC sheath, for Ex-zones

Alternative mark: **CY-EB**

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

YSLCY-EB-OZ: black numbered 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
EB - blue coloured sheath for Ex zones



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 Ω 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:** blue (RAL 5015)



Application

Flexible control cable for application in Ex-zones (with possible explosion danger), for equipment with independent supply source. 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 loads. Laid 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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Dimensions - nominal cross-section	Construction of individual conductor (No. of wires x diameter)	External diameter	Conductor resistance	Cu weight	Cable weight	Packing*
nominal N x mm ²	nominal n x mm	mm	max. Ω/km	kg/km	nominal kg/km	
2 x 0,75	24 x 0,20	6,2	26	43	59	CUT
3 x 0,75	24 x 0,20	6,5	26	54	66	CUT
4 x 0,75	24 x 0,20	7	26	63	77	CUT
5 x 0,75	24 x 0,20	7,7	26	77	93	CUT
7 x 0,75	24 x 0,20	8,3	26	108	130	CUT
12 x 0,75	24 x 0,20	10,9	26	166	202	CUT
18 x 0,75	24 x 0,20	12,7	26	228	292	CUT
24 x 0,75	24 x 0,20		26	250	435	CUT
25 x 0,75	24 x 0,20	14,8	26	280		CUT
2 x 1	32 x 0,20	6,5	19,5	61	65	CUT
3 x 1	32 x 0,20	6,8	19,5	77	80	CUT
4 x 1	32 x 0,20	7,2	19,5	88	98	CUT
5 x 1	32 x 0,20	8,1	19,5	105	127	CUT
7 x 1	32 x 0,20	8,8	19,5	132	158	CUT
12 x 1	32 x 0,20	11,5	19,5	205	260	CUT
18 x 1	32 x 0,20	13,9	19,5	270	380	CUT
24 x 1	32 x 0,20	14,5	19,5	320	493	CUT
25 x 1	32 x 0,20	15,9	19,5	354		CUT
2 x 1,5	30 x 0,25	7,1	13,3	72	88	CUT
3 x 1,5	30 x 0,25	7,5	13,3	99	100	CUT
4 x 1,5	30 x 0,25	8,2	13,3	121	126	CUT
5 x 1,5	30 x 0,25	8,9	13,3	138	160	CUT
7 x 1,5	30 x 0,25	9,9	13,3	175	208	CUT
12 x 1,5	30 x 0,25	13	13,3	279	338	CUT
18 x 1,5	30 x 0,25	15,6	13,3	404	479	CUT
24 x 1,5	30 x 0,25	16,3	13,3	448	690	CUT
25 x 1,5	30 x 0,25	17,9	13,3	530		CUT

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

Control cables