

# YSLY-EB

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

Alternative mark: **Y-EB**

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

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

**standards:** DIN VDE 0245

Control cables

Y - PVC insulation  
SL - flexible control cable  
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 MΩ x km

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

- fixed installed: 4D
- at application with bending: 15D

**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)

## Application

Flexible control cable for application in Ex-zones (with possible explosion danger), for equipment with independent supply source. 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.

## 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
  - cores stranded in layers
3. **Sheath:** PVC compound TM2 acc. to HD 21.1 / DIN VDE 0281 or YM2 acc. to VDE 0207.5
  - **sheath colour:** blue (RAL 5015)

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Dimensions - number of cores x conductor cross-section	Construction of individual conductor (No. of wires x diameter)	External diameter	Conductor resistance at 20°C	Cu weight	Cable weight	Packing*
nominal N x mm <sup>2</sup>	nominal n x mm	approx. mm	max. Ω/km	kg/km	approx. kg/km	
<b>2 x 0,75</b>	24 x 0,20	5,9	26	14,7	50	CUT
<b>3 x 0,75</b>	24 x 0,20	6,2	26	22,1	60	CUT
<b>4 x 0,75</b>	24 x 0,20	6,7	26	29,4	81	CUT
<b>5 x 0,75</b>	24 x 0,20	7,3	26	36,8	88	CUT
<b>7 x 0,75</b>	24 x 0,20	7,8	26	51,5	115	CUT
<b>12 x 0,75</b>	24 x 0,20	10,6	26	88,2	185	CUT
<b>18 x 0,75</b>	24 x 0,20	12,5	26	132,3	282	CUT
<b>25 x 0,75</b>	24 x 0,20	14,2	26	183,8	393	CUT
<b>2 x 1</b>	32 x 0,20	6,3	19,5	19,7	57	CUT
<b>3 x 1</b>	32 x 0,20	6,6	19,5	29,6	73	CUT
<b>5 x 1</b>	32 x 0,20	7,8	19,5	49,4	105	CUT
<b>7 x 1</b>	32 x 0,20	8,4	19,5	69,1	138	CUT
<b>12 x 1</b>	32 x 0,20	11,4	19,5	118,4	231	CUT
<b>18 x 1</b>	32 x 0,20	13,4	19,5	177,7	331	CUT
<b>25 x 1</b>	32 x 0,20	18,6	19,5	240	470	CUT
<b>2 x 1,5</b>	30 x 0,25	7,2	13,3	29	89	CUT
<b>3 x 1,5</b>	30 x 0,25	7,6	13,3	43	115	CUT
<b>4 x 1,5</b>	30 x 0,25	8,3	13,3	58	145	CUT
<b>5 x 1,5</b>	30 x 0,25	9,3	13,3	72	180	CUT
<b>7 x 1,5</b>	30 x 0,25	9,9	13,3	101	216	CUT
<b>12 x 1,5</b>	30 x 0,25	13,7	13,3	173	339	CUT
<b>18 x 1,5</b>	30 x 0,25	16,6	13,3	259	513	CUT
<b>25 x 1,5</b>	30 x 0,25	18,7	13,3	360	698	CUT

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

Control cables