

Application

YSLY-OZ is a flexible multicore control cable with fine-wire stranded plain copper conductors, PVC core insulation and a grey PVC outer sheath, rated 300/500 V. All cores are black and identified by printed white numbers; the cable has no green/yellow protective conductor (OZ configuration) and is unscreened. It is intended for the transmission of control and power signals in machinery, switchgear, plant construction and industrial installations, for fixed installation and for occasional, free movement without tensile load in dry and damp indoor environments. Where a protective conductor is required the JZ version with green/yellow core should be selected instead.



CONSTRUCTION

Conductor	Fine-wire stranded plain annealed copper, class 5 to IEC/EN 60228 (VDE 0295).
Insulation	PVC compound.
Screen	None (unscreened).
Sheath	PVC compound, grey.
Core identification	Black cores with printed white numbers in accordance with VDE 0293-334; no green/yellow protective conductor (OZ).

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	300/500 V.
Test voltage	2 kV.
Standard	No uniform product standard is stated by the reference sources; construction in line with the EN 50525-2 series for PVC control cables.
Flame-retardant	IEC/EN 60332-1-2 (VDE 0482-332-1-2).
Conductor standard	IEC/EN 60228 class 5 (VDE 0295).
Max. conductor temperature	70 °C.
Permitted outer cable temperature, fixed	-40 °C to +70 °C.
Permitted outer cable temperature, flexing	+5 °C to +70 °C.
Min. bending radius, fixed	6 × outer diameter.
Min. bending radius, moved	15 × outer diameter.
Reaction to fire (CPR)	Eca (EN 50575); as a flexible cable it falls outside CPR scope when used only for the connection of mobile equipment.

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
2 × 0.5	39	4.8	40
3 × 0.5	39	5.1	46
4 × 0.5	39	5.5	56
5 × 0.5	39	6.2	65
7 × 0.5	39	6.7	80
8 × 0.5	39	7.4	97
12 × 0.5	39	9.1	135
2 × 0.75	26	5.3	46
3 × 0.75	26	5.6	54
4 × 0.75	26	6.3	66
5 × 0.75	26	6.9	80
6 × 0.75	26	7.7	99
7 × 0.75	26	7.7	110
8 × 0.75	26	8.3	130
9 × 0.75	26	9.1	153
12 × 0.75	26	10.1	179
2 × 1	19.5	5.6	60
3 × 1	19.5	6.1	72
4 × 1	19.5	6.6	86
5 × 1	19.5	7.5	104
7 × 1	19.5	8.1	141
10 × 1	19.5	10.6	217
12 × 1	19.5	10.9	230
18 × 1	19.5	12.9	343
20 × 1	19.5	13.8	375
25 × 1	19.5	15.4	485
30 × 1	19.5	16.5	550
40 × 1	19.5	19.3	755
3 × 1.5	13.3	6.8	90
4 × 1.5	13.3	7.6	109
5 × 1.5	13.3	8.3	131
7 × 1.5	13.3	9.2	184
8 × 1.5	13.3	10.1	216
12 × 1.5	13.3	12.4	309
3 × 2.5	7.98	8.3	148
4 × 2.5	7.98	9.2	178
5 × 2.5	7.98	10.1	221
7 × 2.5	7.98	11.2	306
8 × 2.5	7.98	12.3	363

Outer diameter and weight are nominal manufacturer values of the leading reference source for the OZ configuration (numbered cores, no earth core); conductor resistance is the maximum value at 20 °C per IEC/EN 60228 class 5; all values are indicative and non-binding.