

Application

YSLYCY-OZ is a flexible, screened PVC control cable for signal and control circuits in machinery, plant construction and industrial installations where electromagnetic interference has to be kept out of, or contained within, the cable. The tinned copper wire braid provides an effective overall screen and the fine-stranded class 5 conductors allow easy routing in dry and damp indoor locations, fixed installation and occasional free movement without tensile stress. All cores are black and numbered; this OZ configuration has **no green/yellow protective conductor** and is therefore intended for circuits in which no earth core is required in the cable. Not suitable for outdoor use without protection, for direct burial or for continuous flexing in drag chains.



CONSTRUCTION

Conductor	Fine-stranded plain (bare) copper, class 5 acc. to IEC/EN 60228 (VDE 0295).
Insulation	PVC compound; cores stranded in layers.
Screen	Braid of tinned copper wires over a PVC inner sheath, optical coverage approx. 70 % or more.
Sheath	PVC outer sheath, grey.
Core identification	Black cores with consecutive white numbers acc. to VDE 0293-334; without green/yellow protective conductor (OZ).

ELECTRICAL & THERMAL PROPERTIES

Rated voltage U ₀ /U	300/500 V.
Test voltage	2 kV.
Standard	Manufacturer's specification; design in line with EN 50525-2-51 / VDE 0285-525-2-51 (not claimed as harmonised).
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	20 × 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	7	75
3 × 0.5	39	7.3	83
4 × 0.5	39	7.9	99
5 × 0.5	39	8.4	112
7 × 0.5	39	8.9	132
12 × 0.5	39	11.3	202
2 × 0.75	26	7.4	86
3 × 0.75	26	7.9	100
4 × 0.75	26	8.4	115
5 × 0.75	26	8.9	130
7 × 0.75	26	9.7	161
12 × 0.75	26	12.3	247
18 × 0.75	26	14.5	356
40 × 0.75	26	20.5	734
2 × 1	19.5	7.9	98
3 × 1	19.5	8.2	111
4 × 1	19.5	8.7	130
2 × 1.5	13.3	8.5	117
3 × 1.5	13.3	8.9	136
4 × 1.5	13.3	9.6	163
5 × 1.5	13.3	10.3	188
7 × 1.5	13.3	11.3	237
2 × 2.5	7.98	9.9	165
2 × 4	4.95	11.4	247
2 × 6	3.3	13.6	353
2 × 10	1.91	16.4	492
2 × 16	1.21	18.6	698

Dimensions and weights are nominal manufacturer values of the leading reference source for the OZ configuration (no earth core); conductor resistance is the maximum value per IEC/EN 60228 class 5; all values are indicative and non-binding.