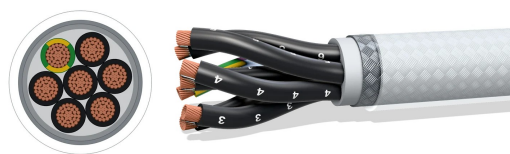


Application

YSLYSY-JZ (also known as SY) is a flexible multicore control cable with class 5 plain copper conductors, PVC-insulated cores, a PVC inner sheath, a galvanised steel wire braid and a transparent PVC outer sheath, rated 300/500 V. The steel braid gives mechanical protection and a degree of screening, while the transparent sheath allows visual inspection of the braid for damage or corrosion. It is used for the interconnection of control, measuring and regulating equipment in machine tools, production and assembly lines, conveyors and air-conditioning plant, indoors or in dry to damp locations, for fixed installation and occasional flexing. It is not intended for continuous flexing, drag-chain or outdoor buried use; where low-smoke zero-halogen performance is required an LSZH variant should be specified instead.



CONSTRUCTION

Conductor	Plain (bare) copper, class 5 fine-stranded (flexible), IEC/EN 60228.
Insulation	PVC, type YI2.
Bedding	PVC inner sheath, type YM2.
Braid	Galvanised steel wire braid (GSWB) of round or flat steel wires.
Sheath	PVC, type YM2, transparent.
Core identification	Black cores with white numbers; green/yellow earth core from 3 cores. Also available with coloured cores to HD 308 (JB/OB) on request.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	300/500 V.
Standard	Based on EN 50525-2-51 (not harmonised).
Test voltage	4000 V.
Flame-retardant	IEC/EN 60332-1-2.
Conductor standard	IEC/EN 60228, class 5.
Max. conductor temperature	70 °C.
Permitted ambient temperature, fixed installation	-40 °C to +70 °C.
Permitted ambient temperature, flexing	+5 °C to +70 °C.
Oil resistance	Largely oil-resistant.
Min. bending radius, fixed	12 × outer diameter.
Min. bending radius, moved	20 × outer diameter.
Reaction to fire (CPR)	Eca acc. to EN 50575.

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
2 × 0.5	39	7.4	80
3 × 0.5	39	7.7	92
4 × 0.5	39	8.1	102
5 × 0.5	39	9	119
7 × 0.5	39	9.5	157
10 × 0.5	39	10.8	205
12 × 0.5	39	11.8	218
14 × 0.5	39	12.5	242
18 × 0.5	39	13.7	340
21 × 0.5	39	14.3	370
25 × 0.5	39	15.8	406
30 × 0.5	39	16.7	439
35 × 0.5	39	17.9	500
40 × 0.5	39	18.5	565
42 × 0.5	39	19.4	593
50 × 0.5	39	20.9	690
61 × 0.5	39	22.1	843
80 × 0.5	39	25.4	1050
100 × 0.5	39	28.1	1240
2 × 0.75	26	7.9	98
3 × 0.75	26	8.2	103
4 × 0.75	26	9.1	122
5 × 0.75	26	9.7	142
6 × 0.75	26	10.5	180
7 × 0.75	26	10.5	185
8 × 0.75	26	11.1	201
9 × 0.75	26	12.1	249
10 × 0.75	26	12.1	252
12 × 0.75	26	13.2	292
15 × 0.75	26	14.4	335
18 × 0.75	26	15.2	388
21 × 0.75	26	16.2	474
25 × 0.75	26	17.7	503
32 × 0.75	26	19.5	644
34 × 0.75	26	20.1	663
41 × 0.75	26	21.5	741
50 × 0.75	26	23.6	925
61 × 0.75	26	25	1082
2 × 1	19.5	8.2	112
3 × 1	19.5	9	132
4 × 1	19.5	9.5	143
5 × 1	19.5	10.1	166
6 × 1	19.5	10.9	220
7 × 1	19.5	10.9	227
8 × 1	19.5	12	277

Cores × mm2	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
9 × 1	19.5	12.8	295
12 × 1	19.5	13.9	340
14 × 1	19.5	14.7	420
18 × 1	19.5	16.3	500
20 × 1	19.5	17	532
25 × 1	19.5	18.6	664
34 × 1	19.5	21.3	845
36 × 1	19.5	21.3	857
41 × 1	19.5	23	993
50 × 1	19.5	25.3	1112
56 × 1	19.5	25.9	1225
61 × 1	19.5	26.9	1306
65 × 1	19.5	27.8	1504
80 × 1	19.5	30.7	1750
100 × 1	19.5	33.9	1950
2 × 1.5	13.3	9.2	129
3 × 1.5	13.3	9.6	149
4 × 1.5	13.3	10.4	185
5 × 1.5	13.3	11.1	205
6 × 1.5	13.3	12.2	255
7 × 1.5	13.3	12.2	285
8 × 1.5	13.3	13.2	340
9 × 1.5	13.3	14.1	347
10 × 1.5	13.3	14.1	418
11 × 1.5	13.3	14.1	430
12 × 1.5	13.3	15.3	444
14 × 1.5	13.3	16.4	533
18 × 1.5	13.3	18	593
25 × 1.5	13.3	21	781
32 × 1.5	13.3	23.1	1015
34 × 1.5	13.3	24	1124
42 × 1.5	13.3	25.9	1401
50 × 1.5	13.3	28.4	1583
61 × 1.5	13.3	30.2	1810
80 × 1.5	13.3	34.4	2316
100 × 1.5	13.3	38.4	2900
2 × 2.5	7.98	10.6	185
3 × 2.5	7.98	11.1	248
4 × 2.5	7.98	12.2	290
5 × 2.5	7.98	13.3	347
7 × 2.5	7.98	14.2	420
12 × 2.5	7.98	18.3	660
14 × 2.5	7.98	19.7	750
18 × 2.5	7.98	21.6	893
20 × 2.5	7.98	23	1169
25 × 2.5	7.98	25.6	1458
30 × 2.5	7.98	27.3	1686

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
34 × 2.5	7.98	29.4	1869
50 × 2.5	7.98	34.7	2200
61 × 2.5	7.98	36.8	3000
3 × 4	4.95	12.6	350
4 × 4	4.95	13.9	428
5 × 4	4.95	15.2	504
7 × 4	4.95	16.6	640
11 × 4	4.95	19.7	1204
4 × 6	3.3	16.4	571
5 × 6	3.3	17.9	671
7 × 6	3.3	19.6	845
4 × 10	1.91	19.9	943
5 × 10	1.91	22	1065
7 × 10	1.91	24	1551
4 × 16	1.21	24.1	1360
5 × 16	1.21	26.7	1740
7 × 16	1.21	29.2	2166
4 × 25	0.78	29.1	2020
5 × 25	0.78	32.2	2465
4 × 35	0.554	32.1	2570
5 × 35	0.554	35.5	3185
4 × 50	0.386	37.9	3513
5 × 50	0.386	42	4248
4 × 70	0.272	43	4810
5 × 70	0.272	47.8	5880
4 × 95	0.206	49.6	6360
5 × 95	0.206	54.8	8071
4 × 120	0.161	54.6	8170
4 × 150	0.129	59.8	9970

Dimensions are nominal manufacturer values for the leading reference source; conductor resistance is the maximum per IEC/EN 60228, class 5; all values are indicative and non-binding.