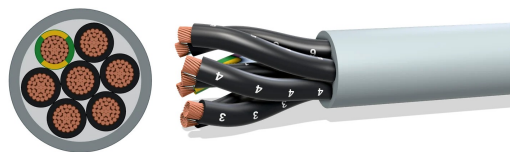


Application

YSLY-JZ (also known as YY) is a flexible multicore control cable with class 5 plain copper conductors, PVC-insulated cores and a grey PVC outer sheath, rated 300/500 V. It is used for the interconnection of control and measuring equipment in machine tools, assembly lines and control-panel wiring, where flexibility and mechanical protection are required. Where low-smoke zero-halogen performance is needed, an LSZH variant should be specified instead.



CONSTRUCTION

Conductor	Copper, bare, class 5 (fine stranded / flexible), IEC 60228.
Insulation	PVC.
Screen / armour	None (unscreened).
Sheath	PVC, grey.
Core identification	Black cores with white numbers; green/yellow earth 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.
Test voltage	2 kV.
Standard	Based on EN 50525-2-51 (not harmonised).
Flame-retardant	IEC/EN 60332-1-2.
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.
Conductor standard	IEC/EN 60228, class 5.
Max. conductor temperature	70 °C.
Permitted outer cable temperature, fixed	-20 °C to +70 °C.
Permitted outer cable temperature, flexing	+5 °C to +70 °C.
Min. bending radius, fixed	4 x outer diameter.
Min. bending radius, moved	15 x outer diameter.

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
3 × 0.5	39.0	5.1	47
4 × 0.5	39.0	5.7	58
5 × 0.5	39.0	6.2	75
7 × 0.5	39.0	6.8	93
8 × 0.5	39.0	7	115
10 × 0.5	39.0	8.6	142
12 × 0.5	39.0	8.8	150
14 × 0.5	39.0	9.5	172
18 × 0.5	39.0	10.5	on request
19 × 0.5	39.0	10.6	187
21 × 0.5	39.0	10.9	249
25 × 0.5	39.0	12.6	257
30 × 0.5	39.0	13.4	303
34 × 0.5	39.0	14.6	398
40 × 0.5	39.0	15.4	452
42 × 0.5	39.0	16.2	471
50 × 0.5	39.0	17.5	510
61 × 0.5	39.0	19.1	670
65 × 0.5	39.0	21.4	714
3 × 0.75	26.0	5.6	66
4 × 0.75	26.0	6.4	78
5 × 0.75	26.0	7	91
6 × 0.75	26.0	7.1	108
7 × 0.75	26.0	7.5	124
8 × 0.75	26.0	8.2	143
9 × 0.75	26.0	8.7	162
10 × 0.75	26.0	9.8	185
12 × 0.75	26.0	10	191
15 × 0.75	26.0	11.2	229
18 × 0.75	26.0	11.8	283
20 × 0.75	26.0	12.5	288
21 × 0.75	26.0	13.5	293
25 × 0.75	26.0	13.8	388
30 × 0.75	26.0	15.2	445
32 × 0.75	26.0	15.6	467
34 × 0.75	26.0	15.8	546
41 × 0.75	26.0	17	668
42 × 0.75	26.0	17.5	673
50 × 0.75	26.0	19.8	730
61 × 0.75	26.0	21.2	890
65 × 0.75	26.0	24.2	948
80 × 0.75	26.0	26	1165
3 × 1	19.5	6.1	68
4 × 1	19.5	7	85
5 × 1	19.5	7.6	110

Cores × mm2	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
6 × 1	19.5	8.1	135
7 × 1	19.5	8.2	146
8 × 1	19.5	9.2	148
9 × 1	19.5	9.5	178
10 × 1	19.5	10.7	210
12 × 1	19.5	10.8	232
14 × 1	19.5	11.4	271
16 × 1	19.5	12.1	300
18 × 1	19.5	13.1	328
19 × 1	19.5	13.2	346
20 × 1	19.5	13.7	357
21 × 1	19.5	14	444
25 × 1	19.5	16.3	531
34 × 1	19.5	17.7	618
41 × 1	19.5	19.2	715
42 × 1	19.5	19.3	731
50 × 1	19.5	21.1	843
56 × 1	19.5	21.8	962
61 × 1	19.5	22.5	1080
65 × 1	19.5	25.7	1150
80 × 1	19.5	27.5	1416
100 × 1	19.5	28.3	1602
3 × 1.5	13.3	6.8	95
4 × 1.5	13.3	7.3	117
5 × 1.5	13.3	8.1	152
6 × 1.5	13.3	9.1	183
7 × 1.5	13.3	9.2	192
8 × 1.5	13.3	10.1	205
9 × 1.5	13.3	10.7	220
10 × 1.5	13.3	11.5	252
11 × 1.5	13.3	11.8	295
12 × 1.5	13.3	11.7	312
14 × 1.5	13.3	12.6	349
16 × 1.5	13.3	13.6	403
18 × 1.5	13.3	14.5	456
20 × 1.5	13.3	16.5	507
21 × 1.5	13.3	17.5	573
25 × 1.5	13.3	on request	638
32 × 1.5	13.3	19.2	820
34 × 1.5	13.3	19.7	860
42 × 1.5	13.3	21.7	1052
50 × 1.5	13.3	23.7	1296
61 × 1.5	13.3	25.4	1502
65 × 1.5	13.3	26.3	1600
80 × 1.5	13.3	30.6	1970
100 × 1.5	13.3	35.2	2460
3 × 2.5	7.98	8.2	148

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
4 × 2.5	7.98	9.3	236
5 × 2.5	7.98	10.2	263
7 × 2.5	7.98	11.2	298
8 × 2.5	7.98	13.4	339
12 × 2.5	7.98	14.7	522
14 × 2.5	7.98	15.9	588
16 × 2.5	7.98	on request	665
18 × 2.5	7.98	18.1	on request
19 × 2.5	7.98	18.2	670
20 × 2.5	7.98	20.8	832
21 × 2.5	7.98	21.5	928
25 × 2.5	7.98	on request	1024
34 × 2.5	7.98	24.6	1513
40 × 2.5	7.98	26.9	1660
42 × 2.5	7.98	27.1	1800
50 × 2.5	7.98	29.9	2200
61 × 2.5	7.98	34.4	2553
3 × 4	4.95	9.8	235
4 × 4	4.95	10.9	299
5 × 4	4.95	12.3	363
7 × 4	4.95	13.9	488
12 × 4	4.95	19.5	790
3 × 6	3.3	11.6	415
4 × 6	3.3	12.9	480
5 × 6	3.3	14.4	583
7 × 6	3.3	15.7	782
19 × 6	3.3	26.7	1600
3 × 10	1.91	14.8	682
4 × 10	1.91	16.5	737
5 × 10	1.91	18.4	914
7 × 10	1.91	19.9	1191
3 × 16	1.21	16.9	827
4 × 16	1.21	19.6	1087
5 × 16	1.21	22	1370
7 × 16	1.21	23.9	1779
4 × 25	0.78	23.8	1582
5 × 25	0.78	27.5	1998
7 × 25	0.78	31.2	2597
4 × 35	0.554	28.8	2106
5 × 35	0.554	31.8	2485
7 × 35	0.554	38.3	2998
3 × 50	0.386	27.9	2550
4 × 50	0.386	34.9	2943
5 × 50	0.386	38.3	3936

Dimensions are nominal manufacturer values for the JZ configuration (numbered cores + green/yellow earth); conductor resistance is the maximum per IEC/EN 60228, class 5. Values are indicative and non-binding.