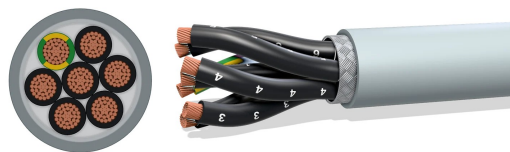


Application

YSLYCY-JZ (also known as CY) is a flexible multicore control cable with class 5 fine-wire plain copper conductors, PVC core insulation, a tinned copper wire braid screen and a PVC outer sheath, rated 300/500 V. The braid screen limits electromagnetic interference to and from the cable, making the type suitable for control, signalling and measuring circuits in machinery, plant and process installations where EMC requirements apply. It is intended for fixed installation and for occasional free movement without tensile load or forced guiding, in dry and damp indoor locations; the sheath is resistant to common oils and greases.



CONSTRUCTION

Conductor	Fine-wire stranded plain (bare) copper, class 5 to IEC/EN 60228.
Insulation	PVC; cores laid up in layers.
Screen	Tinned copper wire braid over a PVC inner sheath.
Sheath	PVC outer sheath, grey or transparent.
Core identification	Black cores with white numbers to VDE 0293-334; green/yellow protective conductor in the outer layer from 3 cores upwards; 2-core numbered without green/yellow. Also available with coloured cores to HD 308 (JB/OB) on request.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	300/500 V.
Test voltage	2000 V.
Standard	Based on EN 50525-2-51 (not harmonised).
Flame-retardant	IEC/EN 60332-1-2.
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	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	67
3 × 0.5	39	7.5	83
4 × 0.5	39	7.9	94
5 × 0.5	39	8.6	108
6 × 0.5	39	9.3	125
7 × 0.5	39	9.3	136
8 × 0.5	39	9.9	150
10 × 0.5	39	11.2	170
12 × 0.5	39	11.5	195
14 × 0.5	39	12.3	223
16 × 0.5	39	12.8	250
18 × 0.5	39	13.7	277
20 × 0.5	39	14.3	310
21 × 0.5	39	14.3	331
24 × 0.5	39	15.8	390
25 × 0.5	39	15.8	407
30 × 0.5	39	16.7	520
32 × 0.5	39	17.2	550
36 × 0.5	39	17.9	585
40 × 0.5	39	18.5	654
41 × 0.5	39	19.4	671
50 × 0.5	39	20.9	740
61 × 0.5	39	22.1	850
80 × 0.5	39	25.4	1080
100 × 0.5	39	28.1	1350
2 × 0.75	26	7.7	87
3 × 0.75	26	8	98
4 × 0.75	26	8.9	113
5 × 0.75	26	9.5	130
6 × 0.75	26	10.1	156
7 × 0.75	26	10.1	184
8 × 0.75	26	10.9	221
10 × 0.75	26	12.6	270
12 × 0.75	26	13	292
14 × 0.75	26	13.8	315
16 × 0.75	26	14.4	335
18 × 0.75	26	15.2	358
20 × 0.75	26	16.2	420
21 × 0.75	26	16.2	454
24 × 0.75	26	17.7	480
25 × 0.75	26	17.7	508
27 × 0.75	26	17.7	535
30 × 0.75	26	18.5	640
32 × 0.75	26	19.5	688
36 × 0.75	26	20.1	730

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
40 × 0.75	26	20.9	950
41 × 0.75	26	21.5	971
50 × 0.75	26	23.6	1100
61 × 0.75	26	25	1290
80 × 0.75	26	28.6	1510
100 × 0.75	26	31.6	1640
2 × 1	19.5	8	97
3 × 1	19.5	8.6	103
4 × 1	19.5	9.3	146
5 × 1	19.5	9.9	169
6 × 1	19.5	10.7	199
7 × 1	19.5	10.7	219
8 × 1	19.5	11.8	270
10 × 1	19.5	13.6	330
12 × 1	19.5	14	350
14 × 1	19.5	14.7	400
16 × 1	19.5	15.3	422
18 × 1	19.5	16.3	514
20 × 1	19.5	17	545
24 × 1	19.5	18.6	640
25 × 1	19.5	18.6	689
28 × 1	19.5	19.9	710
30 × 1	19.5	19.9	762
34 × 1	19.5	21.3	910
40 × 1	19.5	22.2	1070
41 × 1	19.5	23	1092
50 × 1	19.5	25.3	1315
61 × 1	19.5	26.9	1370
80 × 1	19.5	30.7	1610
100 × 1	19.5	33.9	1840
2 × 1.5	13.3	9	130
3 × 1.5	13.3	9.4	152
4 × 1.5	13.3	10	168
5 × 1.5	13.3	10.9	202
7 × 1.5	13.3	12	304
8 × 1.5	13.3	13	336
10 × 1.5	13.3	15	420
12 × 1.5	13.3	15.4	434
14 × 1.5	13.3	16.4	480
16 × 1.5	13.3	17.1	525
18 × 1.5	13.3	18	640
20 × 1.5	13.3	19	690
21 × 1.5	13.3	19	720
24 × 1.5	13.3	21	770
25 × 1.5	13.3	21	805
28 × 1.5	13.3	22.2	900
30 × 1.5	13.3	22.2	950

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
35 × 1.5	13.3	24	1100
40 × 1.5	13.3	25	1350
41 × 1.5	13.3	25.9	1381
50 × 1.5	13.3	28.4	1675
61 × 1.5	13.3	30.2	1800
80 × 1.5	13.3	34.4	2300
100 × 1.5	13.3	38.4	2600
2 × 2.5	7.98	10.4	180
3 × 2.5	7.98	10.9	216
4 × 2.5	7.98	12	267
5 × 2.5	7.98	12.9	347
7 × 2.5	7.98	14.2	407
10 × 2.5	7.98	18	660
12 × 2.5	7.98	18.5	722
2 × 4	4.95	12	302
3 × 4	4.95	12.6	340
4 × 4	4.95	13.9	410
5 × 4	4.95	15.2	502
7 × 4	4.95	16.6	638
2 × 6	3.3	14	350
3 × 6	3.3	14.9	450
4 × 6	3.3	16.4	559
5 × 6	3.3	17.9	702
7 × 6	3.3	19.6	907
2 × 10	1.91	17	500
3 × 10	1.91	18.1	750
4 × 10	1.91	19.9	1020
5 × 10	1.91	22	1115
7 × 10	1.91	24	1500
4 × 16	1.21	24.1	1380
5 × 16	1.21	26.7	1553
4 × 25	0.78	29.1	1890
5 × 25	0.78	32.2	2270
4 × 35	0.554	32.1	2390
5 × 35	0.554	35.5	2885
4 × 50	0.386	37.9	3315
5 × 50	0.386	42	4150
4 × 70	0.272	43	4600
5 × 70	0.272	47.8	5750
4 × 95	0.206	49.6	6060
5 × 95	0.206	54.8	7580
4 × 120	0.161	54.6	7315
5 × 120	0.161	59.7	9150
4 × 150	0.129	59.8	9680
5 × 150	0.129	65.5	10170

Outer diameters and weights are nominal manufacturer values of the leading reference source; conductor resistance is the maximum permitted per IEC/EN 60228 class 5; all values are indicative and non-binding.