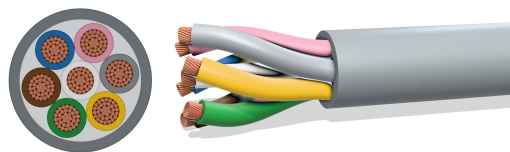


Application

LiYY is an unscreened, flexible multicore cable for low-frequency signal and data transmission in control, measuring and instrumentation circuits where no external interference protection is required. The fine-stranded bare copper conductors and the PVC insulation and sheath make the cable suitable for fixed installation and for occasional movement in dry and damp indoor environments, for example in switchgear, machinery, computer and office equipment and process-control installations. Cores are colour-coded to DIN 47100, which allows fast and unambiguous termination. The cable is not intended for the transmission of power or for outdoor use.



CONSTRUCTION

Conductor	Bare copper, fine-stranded to IEC 60228 / VDE 0295 class 5 (0.34 mm ² : 7 × 0.25 mm).
Insulation	PVC.
Screen	None (unscreened).
Sheath	PVC, grey.
Core identification	Colour-coded to DIN 47100.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage	250 V (U _o /U); max. peak operating voltage 350 V for 0.14 mm ² , 500 V for 0.25 mm ² and above. Not for power transmission.
Test voltage	1200 V (0.14 mm ²); 1500 V (0.25 mm ² and above), core/core.
Standard	Based on DIN VDE 0812.
Flame-retardant	IEC / EN 60332-1-2.
Max. conductor temperature	80 °C.
Permitted outer cable temperature, fixed	-30 °C to +80 °C.
Permitted outer cable temperature, moved	-5 °C to +70 °C.
Min. bending radius, fixed	5 × outer diameter.
Min. bending radius, moved	10 × 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 × 0.14	138	3.2	13.2
3 × 0.14	138	3.4	16
4 × 0.14	138	3.6	18.9
5 × 0.14	138	3.9	22.2
7 × 0.14	138	4.2	28.4
8 × 0.14	138	4.9	35.2
10 × 0.14	138	5.2	41.2
12 × 0.14	138	5.6	48.4
14 × 0.14	138	5.8	52.9
16 × 0.14	138	6.1	59.1
20 × 0.14	138	7	70.8
25 × 0.14	138	7.8	87.2
36 × 0.14	138	8.6	126.8
37 × 0.14	138	8.9	118
40 × 0.14	138	9.3	139.1
50 × 0.14	138	10.4	170.9
56 × 0.14	138	10.7	187
2 × 0.25	79	3.8	18
3 × 0.25	79	4	22
4 × 0.25	79	4.3	26.2
5 × 0.25	79	4.7	31
6 × 0.25	79	5.1	39
7 × 0.25	79	5.1	42
8 × 0.25	79	6.2	49.2
10 × 0.25	79	6.8	58
12 × 0.25	79	7	67
14 × 0.25	79	7.3	75.3
16 × 0.25	79	7.7	84.3
18 × 0.25	79	8.1	93
20 × 0.25	79	8.6	102
25 × 0.25	79	9.6	134
30 × 0.25	79	10.3	155
32 × 0.25	79	10.7	164
36 × 0.25	79	11.1	182.2
37 × 0.25	79	11.4	185
40 × 0.25	79	12	200
50 × 0.25	79	12.9	257.1
2 × 0.34	57	4.2	25
3 × 0.34	57	4.4	31
4 × 0.34	57	4.8	43.2
5 × 0.34	57	5.5	53.8
6 × 0.34	57	5.9	55
7 × 0.34	57	5.9	62
8 × 0.34	57	7.1	73.1
10 × 0.34	57	7.6	82

Cores × mm2	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
12 × 0.34	57	7.8	102
14 × 0.34	57	8.2	109
16 × 0.34	57	8.7	127
20 × 0.34	57	9.6	159.3
21 × 0.34	57	10.4	167
25 × 0.34	57	11.2	190
30 × 0.34	57	11.6	226
36 × 0.34	57	12.5	284
40 × 0.34	57	13.5	317
50 × 0.34	57	15	407
2 × 0.5	39	4.7	30
3 × 0.5	39	5	39
4 × 0.5	39	5.6	49
5 × 0.5	39	6.1	65
7 × 0.5	39	6.9	82
8 × 0.5	39	8	90
10 × 0.5	39	8.6	117
12 × 0.5	39	8.9	133
16 × 0.5	39	10.2	170
20 × 0.5	39	11.4	214
25 × 0.5	39	12.7	265
30 × 0.5	39	13.2	304
40 × 0.5	39	15.8	392
2 × 0.75	26	5.1	48
3 × 0.75	26	5.6	57
4 × 0.75	26	6.1	69
5 × 0.75	26	6.9	78
7 × 0.75	26	7.5	112
8 × 0.75	26	8.7	126
10 × 0.75	26	9.4	149
12 × 0.75	26	10.1	176
16 × 0.75	26	11.2	218
20 × 0.75	26	12.4	274
25 × 0.75	26	14	320
2 × 1	19.5	5.6	55
3 × 1	19.5	5.9	70
4 × 1	19.5	6.4	79
5 × 1	19.5	7.3	98
2 × 1.5	13.3	6.2	74
3 × 1.5	13.3	6.8	89
4 × 1.5	13.3	7.4	105

Dimensions, weights and conductor resistance (max. at 20 °C) are nominal manufacturer values of the leading reference source; all values are indicative and non-binding, actual supply may deviate.