

# LiY-CY

flexible, colour code DIN 47100, screen, EMC-preferred type



## TECHNICAL DATA

PVC data cable in alignment with DIN VDE 0812

<b>Temperature range</b>	flexible -5°C to +70°C fixed -30°C to +80°C
<b>Peak operating voltage</b>	300/300 V (ATTENTION: not for high power current installation purposes)
<b>Test voltage</b>	core/core 1200 V core/screen 800 V
<b>Breakdown voltage</b>	min. 2400 V
<b>Mutual capacitance at 800 Hz</b>	core/core ≈ 150 pF/m core/screen ≈ 270 pF/m
<b>Inductance</b>	approx. 0,65 mH/km
<b>Impedance</b>	approx. 78 Ohm
<b>Coupling resistance</b>	max. 250 Ohm/km
<b>Minimum bending radius</b>	flexible 10x Outer-Ø fixed 5x Outer-Ø

## ■ CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: PVC acc. to DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type T12)
- Core identification in alignment with DIN 47100, colour coded, without colour repetition (from 12 core inclusive, the second color is in the form of a longitudinal stripe)
- Cores stranded in layers with optimal lay lengths
- Foil wrapping
- Screen: braided screen of tinned copper wires, approx. 70% coverage
- Outer sheath: PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM2)
- Sheath colour: grey (RAL 7001)
- Length marking: in metres

## ■ PROPERTIES

- resistant to: oil and chemical compounds, for details, see chapter Y – "Technical Information"
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

## ■ TESTS

Flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-22

## ■ NOTES

The conductor is metrically (mm<sup>2</sup>) constructed, AWG numbers are approximated, and are for reference only

## ■ APPLICATION

Used for flexible connections with medium mechanical stress, where there are no tensile stresses and forced movement. Installed in dry, damp and wet rooms, but not outdoors. Used everywhere where the smallest outer diameter of the cable is required. This feature is especially important in such areas as: tool production and machine industry, as well as the electronics, computer, measurement and control sectors. The very small outer diameter makes it suitable for e.g. for miniature plugs.

**EMC**=Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding. (e.g. cable glands EMC).

Continuation ►

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Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	AWG, approx.
18191023	2x0,34	4,2	12,9	25,2	22
18191024	3x0,34	4,4	17,0	31,2	22
18191025	4x0,34	4,8	21,1	37,0	22
18191026	5x0,34	5,3	24,4	46,0	22
18191027	6x0,34	5,7	29,0	55,0	22
18191028	7x0,34	5,7	32,0	57,0	22
18191029	8x0,34	6,7	36,0	74,0	22
18191030	10x0,34	7,2	44,0	81,0	22
18191031	12x0,34	7,5	50,5	92,0	22
18052125	1x0,5	1,0	1,0	1,0	20
18048795	2x0,5	4,8	17,7	31,3	20
18048796	3x0,5	5,1	22,4	38,9	20
18048797	4x0,5	5,5	27,3	48,0	20
18048798	5x0,5	5,9	33,7	56,9	20
18048799	6x0,5	6,6	38,8	70,5	20
18048800	7x0,5	6,6	43,6	73,7	20
18052126	8x0,5	7,8	49,2	95,9	20
18048801	10x0,5	8,3	64,9	103,2	20
18052127	12x0,5	8,7	82,7	118,9	20
18052128	14x0,5	9,2	107,0	137,6	20
18052129	1x0,75	1,0	1,0	1,0	19
18048802	2x0,75	5,3	22,4	38,8	19

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	AWG, approx.
18048803	3x0,75	5,6	29,7	49,4	19
18048804	4x0,75	6,3	38,5	63,6	19
18048805	5x0,75	6,9	46,0	78,7	19
18048806	6x0,75	7,6	54,2	94,0	19
18048807	7x0,75	7,6	61,4	98,9	19
18052130	8x0,75	8,9	69,6	126,7	19
18048808	10x0,75	9,5	91,0	138,7	19
18052131	12x0,75	9,9	113,0	160,5	19
18052132	14x0,75	10,5	135,0	185,1	19
18048809	2x1	5,7	27,4	47,1	18
18048810	3x1	6,0	38,5	59,5	18
18048811	4x1	6,6	48,2	75,5	18
18048812	5x1	7,3	59,0	93,6	18
18048813	6x1	7,9	69,6	112,1	18
18048814	7x1	7,9	79,2	118,9	18
18048815	10x1	10,1	116,5	168,9	18
18048816	2x1,5	6,5	38,6	60,5	17
18048817	3x1,5	7,1	53,6	79,3	17
18048818	4x1,5	7,6	69,2	100,1	17
18048819	5x1,5	8,3	88,9	122,2	17
18048820	6x1,5	9,0	105,4	145,9	17
18048821	7x1,5	9,0	119,8	154,8	17