LiY-CY

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

TECHNICAL DATA

PVC data cable in alignment with DIN VDE 0812

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

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 TI2)
- 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 (mm²) 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. mm²	Outer ∅ mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	AWG, approx.
18191519	2 × 0,25	4,0	10,2	24,0	24
18191520	3 × 0,25	4,2	13,6	28,0	24
18191521	4 × 0,25	4,5	16,0	33,0	24
18191522	5 × 0,25	4,9	20,1	40,0	24
18191523	6 × 0,25	5,4	22,5	47,0	24
18191524	7 × 0,25	5,4	24,9	49,0	24
18191525	8 × 0,25	6,35	27,6	63,0	24
18191526	10 × 0,25	6,7	34,2	69,0	24
18191527	12 × 0,25	7,0	39,2	77,4	24
18191528	14 × 0,25	7,4	45,3	86,5	24
18191023	2 × 0,34	4,2	12,9	25,2	22
18191024	3 × 0,34	4,4	17,0	31,2	22
18191025	4 × 0,34	4,8	21,1	37,0	22
18191026	5 × 0,34	5,3	24,4	46,0	22
18191027	6 × 0,34	5,7	29,0	55,0	22
18191028	7 × 0,34	5,7	32,0	57,0	22
18191029	8 × 0,34	6,7	36,0	74,0	22
18191030	10 × 0,34	7,2	44,0	81,0	22
18191031	12 × 0,34	7,5	50,5	92,0	22
18052125	1 × 0,5	1,0	1,0	1,0	20
18048795	2 × 0,5	4,8	17,7	31,3	20
18048796	3 × 0,5	5,1	22,4	38,9	20
18048797	4 × 0,5	5,5	27,3	48,0	20
18048798	5 × 0,5	5,9	33,7	56,9	20
18048799	6 × 0,5	6,6	38,8	70,5	20
18048800	7 × 0,5	6,6	43,6	73,7	20
18052126	8 × 0,5	7,8	49,2	95,9	20
18048801	10 × 0,5	8,3	64,9	103,2	20
18052127	12 × 0,5	8,7	82,7	118,9	20
18052128	14 × 0,5	9,2	107,0	137,6	20

Part no.	No. cores x cross-sec. mm²	Outer ∅ mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	AWG, approx.
18052129	1 × 0,75	1,0	1,0	1,0	19
18048802	2 × 0,75	5,3	22,4	38,8	19
18048803	3 × 0,75	5,6	29,7	49,4	19
18048804	4 × 0,75	6,3	38,5	63,6	19
18048805	5 × 0,75	6,9	46,0	78,7	19
18048806	6 × 0,75	7,6	54,2	94,0	19
18048807	7 × 0,75	7,6	61,4	98,9	19
18052130	8 × 0,75	8,9	69,6	126,7	19
18048808	10 × 0,75	9,5	91,0	138,7	19
18052131	12 × 0,75	9,9	113,0	160,5	19
18052132	14 × 0,75	10,5	135,0	185,1	19
18048809	2 × 1	5,7	27,4	47,1	18
18048810	3 × 1	6,0	38,5	59,5	18
18048811	4 × 1	6,6	48,2	75,5	18
18048812	5 × 1	7,3	59,0	93,6	18
18048813	6 × 1	7,9	69,6	112,1	18
18048814	7 × 1	7,9	79,2	118,9	18
18048815	10 × 1	10,1	116,5	168,9	18
18048816	2 × 1,5	6,5	38,6	60,5	17
18048817	3 × 1,5	7,1	53,6	79,3	17
18048818	4 × 1,5	7,6	69,2	100,1	17
18048819	5 × 1,5	8,3	88,9	122,2	17
18048820	6 × 1,5	9,0	105,4	145,9	17
18048821	7 × 1,5	9,0	119,8	154,8	17