

LiY-CY

flexible, colour coded to DIN 47100, screened, EMC, meter marking



Technical data

- PVC data cable adapted to DIN VDE 0812
- **Temperature range**
flexing -5°C to $+80^{\circ}\text{C}$
fixed installation -40°C to $+80^{\circ}\text{C}$
- **Operating peak voltage**
300/300 V
(not for heavy current installation purposes)
- **Test voltage**
core/core 1200 V
core/screen 800 V
- **Breakdown voltage**
min. 2400 V
- **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 resistanc**
max. 250 Ohm/km
- **Minimum bending radius**
flexing: 10x cable \varnothing
fixed installation: 5x cable \varnothing

Cable structure

- Bare copper conductor cl. 5 fine wire acc. to DIN VDE 0295/IEC 60228
- Core insulation: PVC type T12 acc. to DIN VDE 0207-363-3/DIN EN 50363-3
- Core identification adapted to DIN 47100, without colour repetition
- Cores stranded in layers with optimal lay length
- Foil wrapping
- Tinned, copper braided screen, approx. 70% coverage
- Outer sheath of PVC type TM2 acc. to DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Outer sheath colour: grey (RAL 7001)
- With meter marking

Properties

- Oil- / chemical resistance, see: chapter Y – Technical Information “Chemical Resistance”
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Tests

- Vertical flame retardant for single insulated cable acc. to DIN VDE 0482-332-1-2/DIN EN 60332-1-2/IEC 60332-1-2

Note

- AWG sizes are approximate equivalent values. The actual cross section is in mm^2 .

Application

Cable is used for flexible use with free movement without tensile stress or forced movements in dry, moist and wet rooms but not suitable for open air. Used wherever the smallest possible outer diameter of the conductor is required. This property is especially important in areas such as: production of tools and machinery, electronic, computer, measurement and control sectors. The very small outer diameter makes it suitable for miniature plugs etc.

EMC = Electromagnetic compatibility.

To optimise EMC features we recommend two-sided, circumferential contact of copper braiding with EMC-type cable glands as clamps.

CE = product conforms with LVD 2014/35/EU.

Cat. no	Number of wires x cross-section mm ²	Outer diameter ca mm	Cu weight kg / km	Weight ca kg / km	AWG No
18048795	2 x 0,5	4,8	17,7	31,3	20
18048796	3 x 0,5	5,1	22,4	38,9	20
18048797	4 x 0,5	5,5	27,3	48,0	20
18048798	5 x 0,5	5,9	33,7	56,9	20
18048799	6 x 0,5	6,6	38,8	70,5	20
18048800	7 x 0,5	6,6	43,6	73,7	20
18048801	10 x 0,5	8,3	64,9	103,2	20
18048802	2 x 0,75	5,3	22,4	38,8	19
18048803	3 x 0,75	5,6	29,7	49,4	19
18048804	4 x 0,75	6,3	38,5	63,6	19
18048805	5 x 0,75	6,9	46,0	78,7	19
18048806	6 x 0,75	7,6	54,2	94,0	19
18048807	7 x 0,75	7,6	61,4	98,9	19
18048808	10 x 0,75	9,5	91,0	138,7	19

Cat. no	Number of wires x cross-section mm ²	Outer diameter ca mm	Cu weight kg / km	Weight ca kg / km	AWG No
18048809	2 x 1	5,7	27,4	47,1	18
18048810	3 x 1	6,0	38,5	59,5	18
18048811	4 x 1	6,6	48,2	75,5	18
18048812	5 x 1	7,3	59,0	93,6	18
18048813	6 x 1	7,9	69,6	112,1	18
18048814	7 x 1	7,9	79,2	118,9	18
18048815	10 x 1	10,1	116,5	168,9	18
18048816	2 x 1,5	6,5	38,6	60,5	17
18048817	3 x 1,5	7,1	53,6	79,3	17
18048818	4 x 1,5	7,6	69,2	100,1	17
18048819	5 x 1,5	8,3	88,9	122,2	17
18048820	6 x 1,5	9,0	105,4	145,9	17
18048821	7 x 1,5	9,0	119,8	154,8	17

Dimension and specifications may be changed without prior notice.

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