

HELUDATA® JE-LiYCY Bd PVC

Cables for Industrial Electronics



HELUKABEL® JE-LiYCY Bd CE



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TECHNICAL DATA

PVC data cable in alignment with DIN VDE 0815

Temperature range	flexible -5°C to +50°C fixed -30°C to +70°C
Peak operating voltage	225 V (not for high power current installation purposes)
Test voltage core/core	500 V
Test voltage core/screen	2000 V
Conductor resistance at 20°C	max. 39.2 Ohm/km
Mutual capacitance core/core	at 800 Hz 2 - 4 pairs: approx. 120 pF/m 8 - 40 pairs: approx. 100 pF/m
Capacitive coupling k₁	at 800 Hz, max. 200 pF/100m
Cable attenuation	at 800 Hz, 1.1 dB/km (approx. value)
Inductance	approx. 0.70 mH/km
Minimum bending radius	fixed 6x Outer-Ø

■ CABLE STRUCTURE

- Copper wire bare, stranded
- Wire structure:
0.5 mm²: 7 x 0.3 mm
- Core insulation: semirigid PVC
- Core identification acc. to DIN VDE 0815, colour coded
- Cores stranded in pairs with optimal lay lengths, 4 pairs stranded into bundles with optimal lay lengths, bundles stranded in layers with optimal lay lengths
- Foil wrapping
- Screen: braided screen of bare or tinned copper wires, approx. coverage 85%
- Outer sheath: PVC acc. to DIN VDE 0207-5 (compound type YM1)

- Sheath colour: see table

■ PROPERTIES

- 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 60332-1-2

■ APPLICATION

The cables are used for the transmission of signals and measurements in symmetrical circuits for control technology, as well as for the transmission of information in data and process computer systems. They can be used in dry and damp operating areas, as well as in and under plaster and outdoors with fixed installation. Installation cables are not permitted for high voltage current installations or underground laying. EMC= Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding.

■ NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- 2-pair cables: cores stranded to a star quad
- with blue sheathing for the installation of intrinsically safe systems (ignition protection type -i-) in explosion-endangered areas according to DIN VDE 0165-1 / DIN EN 60079-14 / IEC 60079-14, Section 16.2.2

Sheath color: grey (RAL 7032)

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
48510	2 x 2 x 0.5	20	7.0	51.0	94.0
48511	4 x 2 x 0.5	20	8.6	87.0	154.0
48512	8 x 2 x 0.5	20	12.0	144.0	259.0
48513	12 x 2 x 0.5	20	13.1	196.0	340.0
48514	16 x 2 x 0.5	20	14.3	249.0	431.0
48515	20 x 2 x 0.5	20	15.5	299.0	494.0
48516	24 x 2 x 0.5	20	16.8	348.0	604.0
48517	32 x 2 x 0.5	20	20.5	444.0	737.0
48518	40 x 2 x 0.5	20	22.5	537.0	844.0

Sheath color: blue (RAL 5015)

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
48529	2 x 2 x 0.5	20	7.0	51.0	94.0
48530	4 x 2 x 0.5	20	8.6	87.0	154.0
48531	8 x 2 x 0.5	20	12.0	144.0	259.0
48532	12 x 2 x 0.5	20	13.1	196.0	340.0
48533	16 x 2 x 0.5	20	14.3	249.0	431.0
48534	20 x 2 x 0.5	20	15.5	299.0	494.0
48535	24 x 2 x 0.5	20	16.8	348.0	604.0
48536	32 x 2 x 0.5	20	20.5	444.0	737.0
48537	40 x 2 x 0.5	20	22.5	537.0	844.0