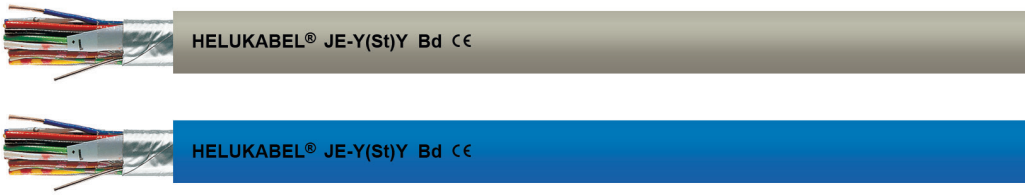
JE-Y(St)Y Bd

Cables for Industrial Electronics



TECHNICAL DATA

PVC data cable acc. to 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. 36.6 Ohm/km
Mutual capacitance core/core	at 800 Hz 1 - 4 pairs: approx. 120 pF/m 8 - 80 pairs: approx. 100 pF/m
Capacitive coupling k_1	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 conductor bare, solid, conductor diameter: 0.8 mm
- Core insulation: PVC acc. to DIN VDE 0207-4 (compound type YI3)
- 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
- drain wire, tinned copper
- Screen: plastic-coated aluminium foil (St), approx. overlap 25%
- 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
- certifications and approvals:
  EAC

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.

NOTES

- 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 conductor-ø mm	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
48500	1 x 2 x 0.8	5.0	20.0	43.0
48501	2 x 2 x 0.8	6.6	25.0	60.0
48502	4 x 2 x 0.8	8.3	45.0	95.0
48503	8 x 2 x 0.8	10.5	85.0	157.0
48504	12 x 2 x 0.8	11.8	126.0	224.0
48505	16 x 2 x 0.8	13.5	166.0	290.0
48506	20 x 2 x 0.8	14.7	206.0	350.0
48507	32 x 2 x 0.8	19.0	327.0	545.0
48508	40 x 2 x 0.8	20.7	407.0	660.0
48509	80 x 2 x 0.8	29.5	809.0	1160.0

Sheath color: blue (RAL 5015)

Part no.	No. cores x conductor-ø mm	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
48519	1 x 2 x 0.8	5.0	20.0	43.0
48520	2 x 2 x 0.8	6.6	25.0	60.0
48521	4 x 2 x 0.8	8.3	45.0	95.0
48522	8 x 2 x 0.8	10.5	85.0	157.0
48523	12 x 2 x 0.8	11.8	126.0	224.0
48524	16 x 2 x 0.8	13.5	166.0	290.0
48525	20 x 2 x 0.8	14.7	206.0	350.0
48526	32 x 2 x 0.8	19.0	327.0	545.0
48527	40 x 2 x 0.8	20.7	407.0	660.0
48528	80 x 2 x 0.8	29.5	809.0	1160.0