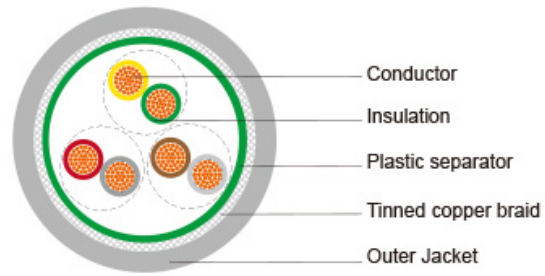


German Standard Industrial Cables Li2YCY/ Li2YCYv TP



Application and Description

The PE-insulated data cable is designed for computer application and data transmission. It is specially designed for wiring data systems with transmission rates up to 10MB/s, eg. for interfaces of types RS 422, RS 485. The twisted pair lay-up prevents electrical unbalances within the cable and this effectively suppresses cross-talk effect. It is designed for limited flexible use as well as for fixed installation in dry and damp interiors. Yv version reinforced with a black outer sheath suitable for outdoor and indoor use as well as for direct burial.

Standard and Approval

CE Low Voltage Directive 73/23/EEC and 93/68/EEC, ROHS compliant

Cable Construction

- Plain copper conductor
- 7-wires strands to DIN VDE 0881, Suitable for Termi-Point and solder-free connection technique
- PE core insulation type 2Y11 to DIN VDE 0207 part 2
- Color coded to DIN 47100 with color repetition
- Cores twisted into layers
- Plastic foil separator
- 85% tinned copper braid
- PVC outer jacket type YM2 grey to DIN VDE 0207 part 5

Technical Characteristics

- Working voltage: 250 volts
- Test voltage: Conductor to conductor 2000 V
Conductor to shield 1000 V
- Minimum bending radius: 7.5 x Ø
- Flexing temperature: -5° C to +70° C
- Static temperature: -30° C to +80° C
- Flame retardant: IEC 60332.1-2
- Insulation resistance: 5GΩ x km
- Impedance: 100 Ω + 15Ω
- Mutual capacitance at 800 Hz: max. 60 nF/km
- Loop resistance: max. 160 Ohm/km
- Inductance: approx. 0.66 mH/km
- Cross-Talk Attenuation: Up 1 MHz min. 50 dB / Up 10 MHz min. 40 dB

Cable Parameter

AWG	NO. OF CORES X NOMINAL CROSS SECTIONAL AREA # X MM ²	NOMINAL OVERALL DIAMETER MM	COPPER WEIGHT KG / KM	CABLE WEIGHT KG / KM
24(7/32)	2 x 2 x 0.22	7.3	31.0	95

24(7/32)	3 x 2 x 0.22	7.5	34.0	105
24(7/32)	4 x 2 x 0.22	9.3	45.0	140
24(7/32)	8 x 2 x 0.22	13.5	97.0	245
24(7/32)	10 x 2 x 0.22	14.0	108.0	325
22(7/30)	2 x 2 x 0.34	9.5	62.0	125
22(7/30)	3 x 2 x 0.34	10.0	78.2	140
22(7/30)	4 x 2 x 0.34	12.0	124.1	205
22(7/30)	8 x 2 x 0.34	17.0	178.7	330
22(7/30)	10 x 2 x 0.34	17.2	213.9	420
20(7/28)	2 x 2 x 0.50	10.1	73.1	139
20(7/28)	3 x 2 x 0.50	11.0	88.1	157
20(7/28)	4 x 2 x 0.50	12.4	137.2	213
20(7/28)	8 x 2 x 0.50	16.0	247.2	385
20(7/28)	10 x 2 x 0.50	17.6	288.7	433