



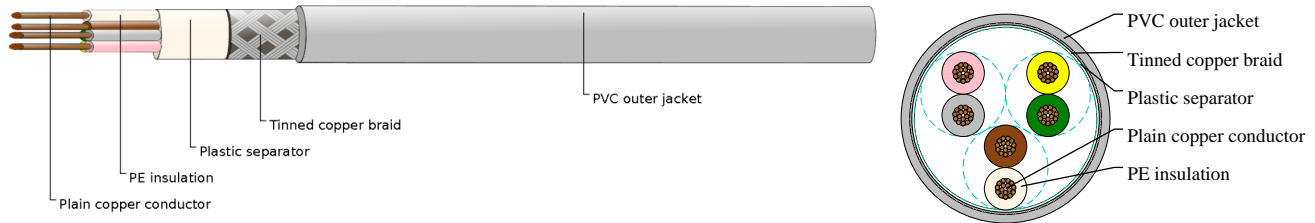
Caledonian

Industrial Cables (German Standard)

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Li2YCY TP



APPLICATIONS

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.

VOLTAGE RATING

250V

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
- Cores twisted into layers
- Plastic foil separator
- 85% tinned copper braid
- PVC outer jacket type YM2 grey to DIN VDE 0207 part 5

COLOUR CODE

Insulation Colour Code

Color coded to DIN 47100 with color repetition

3 Pairs - White_Brown+Green_Yellow+Grey_Pink

PHYSICAL AND THERMAL PROPERTIES

- Test voltage: Conductor to conductor 2000 V
Conductor to shield 1000 V
- Minimum bending radius: $7.5 \times \varnothing$
- Flexing temperature: -5°C to $+70^{\circ}\text{C}$
- Static temperature: -30°C to $+80^{\circ}\text{C}$
- Flame retardant: IEC 60332.1-2
- Insulation resistance: $5\text{G}\Omega \times \text{km}$
- Impedance: $100 \Omega + 15\Omega$



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- 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

DIMENSION AND PARAMETERS

| No. of Cores × Cross-sectional Area | AWG Size | Approx. Overall Diameter | Nominal Copper Weight | Approx. Weight |
|--|----------|-----------------------------|--------------------------|----------------|
| No. × mm ² | | mm | kg/km | kg/km |
| 3x2x0.5 | 20(7/28) | 11 | 88.1 | 157 |