



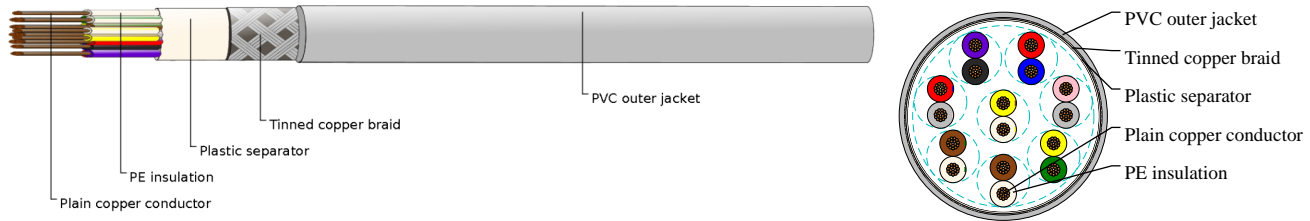
# Caledonian

Industrial Cables (German Standard)

www.caledonian-cables.com

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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

8 Pairs - White\_Brown+Green\_Yellow+Grey\_Pink+Blue\_Red+Black\_Violet+Grey/Pink\_Red/Blue+White/  
Green\_Brown/Green+White/Yellow\_Yellow/Brown

## 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:  $-5^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
- Static temperature:  $-30^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$
- Flame retardant: IEC 60332.1-2
- Insulation resistance:  $5\text{G}\Omega \times \text{km}$



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- Impedance:  $100 \Omega + 15\Omega$
- 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 <sup>2</sup>		mm	kg/km	kg/km
8x2x0.5	20(7/28)	16	247.2	385