

# LiY-CY Data Cable

Flexible, screened, colour coded to DIN 47100

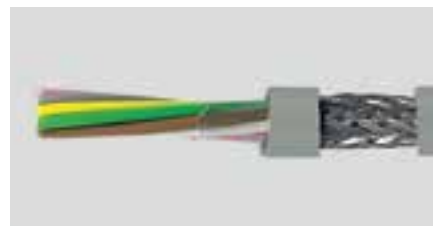
## APPLICATION

These screened cables are used for flexible use with free movement without tensile stress or forced movements in dry, moist and wet rooms but not suitable for open air, wherever the construction requirements call for a minimum outer diameter. This applies especially to such areas as tool making and machine industries as well as electronic, computer, measurement and control sectors.

The extremely small outer diameter make suitable for miniature plugs etc.

**EMC**= Electromagnetic compatibility

To optimise the EMC features we recommend a large round contact of the copper braiding on both ends.



## TECHNICAL DATA

- Special PVC data screened cables, adapted to DIN VDE 0812
- **Temperature range**  
flexing -5 °C to +80 °C  
fixed installation -40 °C to +80 °C
- **Nominal voltage**  
0,25 mm<sup>2</sup> = 500 V  
Test voltage  
core/core 1200 V  
core/screen 800 V  
Breakdown voltage min. 2400 V  
Insulation resistance min. 200 MOhm x km  
Capacitance(approx.-value)  
at 800 Hz  
core/core 0,25 mm<sup>2</sup> = 150 pF/m  
core/screen 0,25 mm<sup>2</sup> = 270 pF/m
- **Inductance** approx. 0,65 mH/km
- **Impedance** approx. 78 Ohm
- **Coupling resistance** max. 250 Ohm/km
- **Minimum bending radius**  
flexing 10x cable ø  
fixed installation 5x cable ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg  
(up to 80 Mrad)

## CABLE STRUCTURE

- Bare copper, fine wire conductors for 0,5mm<sup>2</sup> to DIN VDE 0295 cl.5 and IEC 60228 cl.5
- Conductor make-up for 0,25mm<sup>2</sup> = 14x0,15mm
- Special PVC core insulation TI2, to DIN VDE 0281 part1
- Cores stranded in layers with optimal lay-length
- Colour coded to DIN 47100, but
- Core wrapping with foil
- Drain-wire, tinned
- Tinned, copper braided screen, approx. 85% coverage
- Special PVC outer sheath TM2, to DIN VDE 0281 part1
- Colour grey (RAL 7001)
- with meter marking, change-over in 2011

## PROPERTIES

- Extensively oil resistant, oil-/chemical Resistance
- PVC self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Part no.	No.cores x cross-sec mm <sup>2</sup>	Outer Ø approx. mm	Weight approx. kg/km
20029	2 x 0.25	4.2	31.0
20031	4 x 0.25	4.7	40.0
20034	8 x 0.25	6.3	82.0
20036	12 x 0.25	7.3	90.0
20040	20 x 0.25	9.4	152.0
20047	40 x 0.25	12.4	247.0