

LiYY Data Cable

Flexible, colour coded to DIN 47100

APPLICATION

These 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, TRONIC is the suitable cable to use.

This applies especially to such areas as tool making and machine industries as well as electronic, computer, measurement and control sectors.



Technical data

- Special PVC data cables, adapted to DIN VDE 0812
- **Temperature range**
flexing -5 °C to +80 °C
fixed installation -40 °C to +80 °C
- **Nominal voltage**
(not for purposes of high current and power installation)
0,25 mm² = 500 V
- **Test voltage**
0,25 mm² 1200 V
- **Breakdown voltage**
0,25 mm² 2400 V
- **Insulation resistance**
min. 20 MOhm x km
- **Capacitance**
(approx.-value) at 800 Hz
0,14 mm² 120 pF/m
0,25 mm² 150 pF/m
- **Inductance** approx. 0,65 mH/km
- **Minimum bending radius**
flexing 7,5x cable ø
fixed installation 4x cable ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg
(up to 80 Mrad)

Cable structure

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl.5 and IEC 60228 cl. 5
- Conductor make-up for
0,14 mm² = 18x0,1 mm
0,25 mm² = 14x0,15 mm
0,34 mm² = 7x0,25 mm
- Special PVC core insulation TI2, to DIN VDE 0281 part1
- Colour coded to DIN 47100, but without colour repetition
- Cores stranded in layers with optimal lay-length
- Special PVC outer sheath TM2, to DIN VDE 0281 part 1
- Colour grey (RAL 7001)
- with meter marking, change-over in 2011

Properties

- Extremely oil resistant, oil-/ chemical Resistance - see Informations
- PVC self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-12/IEC 60332-1 (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 ²	Outer Ø approx. mm	Weight approx. kg/km
18029	2 x 0.25	3.8	18.0
18031	4 x 0.25	4.3	26.0
18035	8 x 0.25	5.7	49.0
18037	12 x 0.25	6.8	66.0
18040	18 x 0.25	8.1	72.0
18043	24 x 0.25	9.4	120.0
18047	36 x 0.25	11.3	182.0