# **DATA SHEET**

valid from: 01.01.2019

**UNITRONIC® LIYD11Y** 



## Application

UNITRONIC<sup>®</sup> LiYD11Y is a screened cable for low frequency applications. The cable is designed for fixed installation and for conditional flexible use. It is used in dry and damp interiors and appropriate for outside usage.

The cable is appropriate to make spiral cables.

The screen provides protection against electromagnetic interferences.

This data and signal cable is used in computer systems, electronic control and office equipment.

The outer sheath of Polyurethane is resistant to mineral oils and abrasion.

## Design

| Design                   | Design based on standard VDE 0812                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------|
| Conductor                | extra-fine wire strands of bare copper wires                                                     |
| Insulation               | special PVC-based compound                                                                       |
| Core identification code | according to DIN 47100                                                                           |
| Stranding                | cores are stranded in layers,<br>2 layer stranding only: wrapping with fleece on the outer layer |
| Screen                   | Spinning of bare copper wires, wrapping with fleece                                              |
| Outer sheath             | special PUR-based compound<br>colour: black, similar RAL 9005                                    |

#### Electrical properties at 20°C

| Specific volume resistivity | > 20 G Ω x cm                                                   |
|-----------------------------|-----------------------------------------------------------------|
| Mutual capacitance          | C/C: approx. 120 nF/km<br>C/S: approx. 160 nF/km<br>(at 800 Hz) |
| Inductance                  | approx. 0.65 mH/km                                              |
| Peak operating voltage      | 250 V (not for power applications)                              |
| Test voltage                | 1200 V                                                          |

#### Mechanical and thermal properties

| Minimum bending radius | Flexing: 10 x cable Ø<br>Fixed installation: 6 x cable Ø                                                             |
|------------------------|----------------------------------------------------------------------------------------------------------------------|
| Temperature range      | Flexing: - 5°C up to +70°C<br>Fixed installation: - 40°C up to +80°C                                                 |
| Flammability           | flame retardant acc. to IEC 60332-2-2                                                                                |
| General requirements   | This cable is conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances). |