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| 0034302 | DATA SHEET |  |
| valid from: 01.01.2019 | UNITRONIC® LiYCY | |

Application

UNITRONIC® LiYCY is a screened data 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 but not appropriate for outside usage. The screen provides protection against electromagnetic interferences. The cable is used for example in computer systems, instrumentation technology, office equipment and balances.

Design

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| Design | Design based on standard VDE 0812 |
| Conductor | 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, wrapping with foil on the outer layer |
| Screen | Braiding with tinned copper wires |
| Outer sheath | special PVC-based compound colour: grey (similar RAL 7032) |

Electrical properties at 20°C

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| Specific volume resistivity | > 20 G Ω x cm |
| Mutual capacitance | C/C: approx. 120 nF/km C/S: approx. 160 nF/km (at 800 Hz) |
| Inductance | approx. 0.65 mH/km |
| Peak operating voltage | 0.14 mm ² : 350 V (not for power applications) ≥ 0.25 mm ² : 500 V (not for power applications) |
| Test voltage | 0.14 mm ² : 1200 V ≥ 0.25 mm ² : 1500 V |

Mechanical and thermal properties

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| Minimum bending radius | Flexing: 15 x cable \emptyset Fixed installation: 6 x cable \emptyset |
| Temperature range | Flexing: - 5 °C up to +70 °C Fixed installation: - 40 °C up to +80 °C |
| Flammability | flame retardant acc. to IEC 60332-1-2 |
| General requirements | This cable is conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances). |

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