

## Technical data sheet

PVC electronic cables · unshielded

### LÜTZE ELECTRONIC LiYY

Unshielded electronic cable UL recognized



#### Identification

Type LIYY 6×0,25  
Part No. [108616](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- Application
- In all areas of electronics, measuring, monitoring and regulation technologies
  - In low voltage switchgear, communications engineering
  - In dry and damp rooms
  - For flexible application for free movement and without tensile loading
- Properties
- Minimal cable diameter through thin-walled PVC conductor insulation according to UL
  - Outer jacket special-PVC Class 43 according to UL
  - Very good oil resistance
  - Largely resistant to acids and bases
  - Silicone free

#### Construction

Description ELETRONIC LiYY  
Number of conductors/cross-section 6×0.25  
Number of conductors 6  
Cross-section, metric 0.25 mm<sup>2</sup>  
Jacket material Special PVC  
Jacket color grey similar to RAL 7001  
Outer Ø 5.5 mm  
Outer Ø 0.22 inch  
Tolerance ±0.2 mm  
Weight 4.4 kg/100 m

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SYSTEMATIC TECHNOLOGY

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|                  |              |
|------------------|--------------|
| Separating agent | Talcum       |
| Weight           | 29.6 Lbs/Mft |
| Cu-Index         | 1.5 kg/100 m |
| Cu-Index         | 10.1 Lbs/Mft |

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#### Construction Element 1

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|                            |                                                               |
|----------------------------|---------------------------------------------------------------|
| Element construction       | 6×0.25                                                        |
| Conductor                  | CU-wire bare                                                  |
| Conductor category         | IEC 60228, Class 5<br>Finely stranded DIN VDE 0295<br>Class 5 |
| Conductor marking          | Color coded                                                   |
| Conductor marking standard | DIN 47100                                                     |
| Conductor insulation       | Special PVC                                                   |

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#### Overall construction

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|                        |                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------|
| Overall stranding      | layered construction                                                                    |
| Jacket characteristics | Flame-retardant<br>Oil resistant<br>acid-resistant<br>alkali-resistant<br>Silicone-free |

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#### Technical data

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|                               |                   |
|-------------------------------|-------------------|
| Rated voltage                 | 300 V             |
| Test voltage type             | AC 2000 V         |
| Temperature according to UL   | 80 °C             |
| Temperature range moving      | -10 °C ... +70 °C |
| Temperature range fixed       | -40 °C ... +80 °C |
| Minimum bending radius moving | 12×D              |
| Minimum bending radius fixed  | 5×D               |

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#### Technical Data Element 1

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|                                 |                |
|---------------------------------|----------------|
| Element construction            | 6×0.25         |
| Insulation resistance at 20 °C  | ≥20 MΩ×km      |
| Operating capacitance wire-wire | approx.90 pF/m |

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#### Certifications/Standards

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|                |                     |
|----------------|---------------------|
| Certifications | cURus               |
| UL style       | AWM 2464            |
| Conformity     | CE<br>RoHS<br>REACH |

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Burning behavior according to IEC 60332-1  
DIN EN 60332-1-2  
VDE 0482 322-1-2  
UL 1581 part VW-1 Flame Test  
UL FT1

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#### General

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Note CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU