

## Technical data sheet

PVC electronic cables · unshielded

### LÜTZE ELECTRONIC LiYY

Unshielded electronic cable UL recognized



#### Identification

Type LIYY 25×0,5  
Part No. [108646](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• In all areas of electronics, measuring, monitoring and regulation technologies</li><li>• In low voltage switchgear, communications engineering</li><li>• In dry and damp rooms</li><li>• For flexible application for free movement and without tensile loading</li></ul> |
| Properties  | <ul style="list-style-type: none"><li>• Minimal cable diameter through thin-walled PVC conductor insulation according to UL</li><li>• Outer jacket special-PVC Class 43 according to UL</li><li>• Very good oil resistance</li><li>• Largely resistant to acids and bases</li><li>• Silicone free</li></ul>       |

#### Construction

|                                    |                          |
|------------------------------------|--------------------------|
| Description                        | ELETRONIC LiYY           |
| Number of conductors/cross-section | 25×0.5                   |
| Number of conductors               | 25                       |
| Cross-section, metric              | 0.5 mm <sup>2</sup>      |
| Jacket material                    | Special PVC              |
| Jacket color                       | grey similar to RAL 7001 |
| Outer Ø                            | 12.6 mm                  |
| Outer Ø                            | 0.5 inch                 |
| Tolerance                          | ±0.4 mm                  |
| Weight                             | 25.5 kg/100 m            |

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|                  |               |
|------------------|---------------|
| Separating agent | Talcum        |
| Weight           | 171.6 Lbs/Mft |
| Cu-Index         | 12.5 kg/100 m |
| Cu-Index         | 84.1 Lbs/Mft  |

#### Construction Element 1

|                            |                                                               |
|----------------------------|---------------------------------------------------------------|
| Element construction       | 25×0.5                                                        |
| 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                                                   |

#### Overall construction

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

#### Technical data

|                               |                   |
|-------------------------------|-------------------|
| 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               |

#### Technical Data Element 1

|                                 |                |
|---------------------------------|----------------|
| Element construction            | 25×0.5         |
| Insulation resistance at 20 °C  | ≥20 MΩ×km      |
| Operating capacitance wire-wire | approx.90 pF/m |

#### Certifications/Standards

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

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