

## Technical data sheet

PVC electronic cables · shielded · paired

### LUTZE ELECTRONIC LiY(C)Y TP

Shielded electronic cable UL recognized



#### Identification

Type LiY(C)Y TP (2×2×0,75)  
Part No. [108934](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• For trouble-free transmission in all areas of electronics, measuring, monitoring and regulation technology</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><li>• Especially for industrial environments with high EMI potential in machine, plant and device construction</li></ul> |
| Properties  | <ul style="list-style-type: none"><li>• Minimal cable diameter through thin-walled PVC conductor insulation according to UL</li><li>• High protection against electromagnetic interferences (EMI)</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                        | ELECTRONIC LiY(C)Y TP    |
| Number of conductors/cross-section | (2×2×0.75)               |
| Number of conductors               | 4                        |
| Cross-section, metric              | 0.75 mm <sup>2</sup>     |
| Jacket material                    | Special PVC              |
| Jacket color                       | grey similar to RAL 7001 |
| Outer Ø                            | 9 mm                     |
| Outer Ø                            | 0.35 inch                |

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04.11.2024 • Subject to technical modification

Part No. [108934](#) • Datasheet version: 00

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|          |               |
|----------|---------------|
| Weight   | 11.4 kg/100 m |
| Weight   | 76.7 Lbs/Mft  |
| Cu-Index | 6.7 kg/100 m  |
| Cu-Index | 39 Lbs/Mft    |

#### Construction Element 1

|                            |                                                               |
|----------------------------|---------------------------------------------------------------|
| Element construction       | (2×2×0.75)                                                    |
| 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      | Stranded pairs                                                                          |
| Overall wrapping       | Foil taping                                                                             |
| Overall shield         | Braid shield<br>Tinned copper wires<br>Optical cover approx. 85 %                       |
| 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 | 15×D              |
| Minimum bending radius fixed  | 6×D               |

#### Technical Data Element 1

|                                   |                 |
|-----------------------------------|-----------------|
| Element construction              | (2×2×0.75)      |
| Insulation resistance at 20 °C    | ≥20 MΩ×km       |
| Operating capacitance wire-wire   | approx.110 pF/m |
| Operating capacitance wire-shield | approx.160 pF/m |

#### Certifications/Standards

|                |          |
|----------------|----------|
| Certifications | cURus    |
| UL style       | AWM 2464 |

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|                               |                                                                                               |
|-------------------------------|-----------------------------------------------------------------------------------------------|
| Conformity                    | CE<br>RoHS<br>REACH                                                                           |
| 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 |
|------|----------------------------------------------------------------------------------|