

## Technical data sheet

### Flexible Electronic Cable (C) PLTC PVC · Shielded

#### LUTZE ELECTRONIC (C) PLTC PVC For Stationary Applications



#### Identification

Type LIY(C)Y (25×AWG18) PLTC  
Part No. [A3131825](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• Multi-conductor industrial grade PLTC electronic cable</li><li>• Machine tools, machine and plant construction, VAC technology as well as other uses.</li><li>• Compliant with NFPA 79 requirements</li><li>• PLTC for installation in cable trays</li></ul>                                                                                                                                                                                                                 |
| Properties  | <ul style="list-style-type: none"><li>• Flexible for easy installation</li><li>• Easy strip design</li><li>• Color coded conductors</li><li>• Specially formulated jacket for oil resistance</li><li>• Premium durability</li><li>• Extended temperature range</li><li>• Sunlight resistant</li><li>• Gas/vapor-tight sheath per UL 1277</li><li>• Talc free and silicone free</li><li>• Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures</li></ul> |

#### Construction

|                                    |                         |
|------------------------------------|-------------------------|
| Description                        | ELECTRONIC (C) PLTC PVC |
| Number of conductors/cross-section | 25×AWG18                |
| Number of conductors               | 25                      |
| Cross-section, metric              | 1 mm <sup>2</sup>       |
| Cross-section AWG                  | AWG 18                  |
| Jacket material                    | PVC                     |

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|              |                          |
|--------------|--------------------------|
| Jacket color | grey similar to RAL 7001 |
| Outer Ø      | 13.6 mm                  |
| Outer Ø      | 0.535 inch               |
| Weight       | 260 Lbs/Mft              |
| Cu-Index     | 182 Lbs/Mft              |

#### Construction Element 1

|                        |                                                                                                                                                                                                                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Element construction   | AWG18/25C                                                                                                                                                                                                                                                                                |
| Conductor construction | AWG 18 (19/30)                                                                                                                                                                                                                                                                           |
| Conductor              | AWG conductor<br>CU-wire tin-plated                                                                                                                                                                                                                                                      |
| Conductor category     | fine wire                                                                                                                                                                                                                                                                                |
| Conductor marking      | black · red · white · green · orange · blue · brown · yellow · violet · grey ·<br>pink · tan · red/green · red/yellow · pink/black · white/black · white/red · white<br>/green · white/yellow · white/blue · white/brown · white/orange · white/grey ·<br>white/violet · white/black/red |
| Conductor insulation   | SR-PVC                                                                                                                                                                                                                                                                                   |

#### Overall construction

|                        |                                                                          |
|------------------------|--------------------------------------------------------------------------|
| Drain wire             | CU-wire tin-plated                                                       |
| Overall shield         | Aluminium laminate<br>Foil shield<br>Braid shield<br>tinned copper wires |
| Jacket characteristics | Flame-retardant<br>Oil resistant<br>Silicone-free                        |

#### Technical data

|                              |                    |
|------------------------------|--------------------|
| Rated voltage UL             | 300 V              |
| Temperature range fixed      | -40 °C ... +105 °C |
| Minimum bending radius fixed | 4×D                |

#### Technical Data Element 1

|                      |           |
|----------------------|-----------|
| Element construction | AWG18/25C |
|----------------------|-----------|

#### Certifications/Standards

|                |                                                                                                                                                             |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications | PLTC<br>UL Type CM<br>AWM II A/B<br>Meets NEC 392,800<br>Class I and II, Div. 2<br>Class 1 Div. 2 per NEC<br>501, 502, 505<br>(PLTC use only)<br>UL Type 13 |
| UL style       | AWM 2464                                                                                                                                                    |

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|                               |                             |
|-------------------------------|-----------------------------|
| Conformity                    | CE<br>RoHS<br>REACH<br>TSCA |
| Burning behavior according to | UL VW-1<br>UL FT4           |
| Oil resistant according to    | Oil Res II                  |

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