

## Technical data sheet

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

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



#### Identification

Type LiY(C)Y TP PLTC PVC (2×2×AWG18)  
Part No. [A3141804](#)

#### 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 and 13</li><li>• Talc free and silicone free</li></ul> |

#### Construction

|                                    |                            |
|------------------------------------|----------------------------|
| Description                        | ELECTRONIC (C) PLTC PVC TP |
| Number of conductors/cross-section | 2×2×AWG18                  |
| Number of conductors               | 4                          |
| Cross-section, metric              | 1 mm <sup>2</sup>          |
| Cross-section AWG                  | AWG 18                     |
| Jacket material                    | PVC                        |
| Jacket color                       | grey RAL 7001              |
| Outer Ø                            | 8.4 mm                     |

#### United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2  
[www.lutze.com](http://www.lutze.com) • [sales.gb@lutze.co.uk](mailto:sales.gb@lutze.co.uk)

#### Germany: Friedrich Lütze GmbH

Postfach 12 24 (PLZ 71366) • Bruckwiesenstraße 17-19 • D-71384 Weinstadt  
Tel. +49 (0)7151 6053-0 • Fax +49 (0)7151 6053-277(-288)  
[www.luetze.de](http://www.luetze.de) • [info@luetze.de](mailto:info@luetze.de)

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|          |            |
|----------|------------|
| Outer Ø  | 0.33 inch  |
| Weight   | 72 Lbs/Mft |
| Cu-Index | 44 Lbs/Mft |

#### Construction Element 1

|                        |                                     |
|------------------------|-------------------------------------|
| Element construction   | AWG18/2TP                           |
| Conductor construction | AWG 18 (19/30)                      |
| Conductor              | AWG conductor<br>CU-wire tin-plated |
| Conductor category     | fine wire                           |
| Conductor marking      | black • red • black • white         |
| Conductor insulation   | SR-PVC                              |
| Stranding              | conductors stranded in pairs        |

#### Overall construction

|                        |                                                                        |
|------------------------|------------------------------------------------------------------------|
| Drain wire             | CU-wire tin-plated                                                     |
| Overall shield         | aluminium-laminated film 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 | AWG18/2TP |
|----------------------|-----------|

#### Certifications/Standards

|                               |                                                                                                                                                           |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications                | PLTC<br>UL Type CM<br>AWM II A/B<br>Meets NEC 392,800<br>NEC 725<br>Class I and II, Div. 2 and Class I<br>Zone 2 per NEC 501, 502, 505<br>(PLTC use only) |
| UL style                      | AWM 2464                                                                                                                                                  |
| Conformity                    | CE<br>RoHS<br>REACH<br>TSCA                                                                                                                               |
| Burning behavior according to | UL VW-1<br>UL FT4                                                                                                                                         |

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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