

## Technical data sheet

### Flexible Electronic Cable PLTC PVC · Unshielded

#### LUTZE ELECTRONIC PLTC PVC For Stationary Applications



#### Identification

Type LiYY PLTC PVC 20×AWG18  
Part No. [A3031820](#)

#### 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, HVAC technology, refrigeration as well as many other areas of use.</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>• Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures</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 PLTC PVC |
| Number of conductors/cross-section | 20×AWG18            |
| Number of conductors               | 20                  |
| Cross-section, metric              | 1 mm <sup>2</sup>   |
| Cross-section AWG                  | AWG 18              |
| Jacket material                    | PVC                 |

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Part No. [A3031820](#) • Datasheet version: 00

page 1 of 3

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|              |                          |
|--------------|--------------------------|
| Jacket color | grey similar to RAL 7001 |
| Outer Ø      | 11.9 mm                  |
| Outer Ø      | 0.468 inch               |
| Weight       | 185 Lbs/Mft              |
| Cu-Index     | 121 Lbs/Mft              |

#### Construction Element 1

|                        |                                                                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Element construction   | AWG18/20C                                                                                                                                                                                                 |
| 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 • red/black • white/black • white/red • white/<br>green • white/yellow • white/blue |
| Conductor insulation   | SR-PVC                                                                                                                                                                                                    |

#### Overall construction

|                        |                                                   |
|------------------------|---------------------------------------------------|
| 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 | AWG18/20C |
|----------------------|-----------|

#### Certifications/Standards

|                               |                                                                                                                                                                          |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications                | PLTC<br>UL Type CM<br>AWM I/II A/B FT1<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)<br>UL 13 |
| 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