

## Technical data sheet

### LUTZE SINGLE PAIR ETHERNET (C) PVC · shielded

#### Flexible Ethernet Cable for Stationary Applications



#### Identification

|          |                              |
|----------|------------------------------|
| Type     | SPE (C) PVC (1×2×AWG22/7) TL |
| Part No. | <a href="#">A1040295</a>     |

#### Product version

|                   |    |
|-------------------|----|
| Datasheet version | 00 |
|-------------------|----|

#### Use/Application/Properties

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• For the cabling of Industrial Single Pair Ethernet systems</li><li>• Cable design for harsh industrial environments and operating conditions with high noise levels</li><li>• Application in automation technology, transport and conveyor technology, machine tool manufacture</li><li>• Compliant with NFPA 79 requirements</li><li>• Designed to IEC 61156-11 (40 m) and IEEE 802.3cg (25 m)</li><li>• PODL compatible</li></ul> |
| Properties  | <ul style="list-style-type: none"><li>• High protection against electromagnetic interferences (EMI)</li><li>• Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures</li><li>• Talc free and silicone free</li></ul>                                                                                                                                                                                             |

#### Construction

|                                    |                              |
|------------------------------------|------------------------------|
| Ethernet Key                       | SF/UTP                       |
| Description                        | SINGLE PAIR ETHERNET (C) PVC |
| Number of conductors/cross-section | (1×2×AWG22/7)                |
| Number of conductors               | 2                            |
| Cross-section, metric              | 0.34 mm <sup>2</sup>         |
| Cross-section AWG                  | AWG 22                       |
| Jacket material                    | PVC                          |
| Jacket color                       | teal similar to RAL 5018     |
| Outer Ø                            | 5.8 mm                       |
| Outer Ø                            | 0.228 inch                   |
| Weight                             | 4.4 kg/100 m                 |
| Weight                             | 29.5 Lbs/Mft                 |
| Cu Index                           | 2 kg/100 m                   |
| Cu Index                           | 13.4 Lbs/Mft                 |

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#### Construction Element 1

|                        |                               |
|------------------------|-------------------------------|
| Element construction   | (1×2×AWG22/7)                 |
| Conductor construction | AWG 22/7                      |
| Conductor              | AWG conductor<br>CU-wire bare |
| Conductor marking      | white • blue                  |
| Conductor insulation   | Special Polyolefin            |

#### Overall construction

|                        |                                                                                  |
|------------------------|----------------------------------------------------------------------------------|
| Overall shield         | Foil shield<br>Braid shield<br>Optical cover approx. 85 %<br>Tinned copper wires |
| Jacket characteristics | Flame-retardant<br>Silicone free<br>Oil resistant                                |

#### Technical data

|                               |                   |
|-------------------------------|-------------------|
| Rated voltage UL              | 300 V             |
| Test voltage type             | AC 2000 V         |
| Temperature range moving      | -10 °C ... +70 °C |
| Temperature range fixed       | -40 °C ... +80 °C |
| Minimum bending radius moving | 8×cable OD        |
| Minimum bending radius fixed  | 4×cable OD        |
| Ethernet standard             | 1000BASE-T1       |
| Tensile strength moving       | max.80            |
| Tensile strength fixed        | max.20            |

#### Technical Data Element 1

|                                 |               |
|---------------------------------|---------------|
| Element construction            | (1×2×AWG22/7) |
| Operating capacitance wire-wire | 50 pF/m       |
| Loop resistance                 | <110 mΩ/m     |
| Impedance                       | 100 Ω         |
| HF Characteristics according to | IEC 61156-11  |

#### Approvals/Standards

|            |                                                                                  |
|------------|----------------------------------------------------------------------------------|
| Approvals  | CMG<br>PLTC<br>Class I and II, Div. 2<br>Class 1 Div. 2 per NEC<br>501, 502, 505 |
| UL style   | AWM 21695                                                                        |
| Conformity | CE<br>RoHS<br>REACH<br>TSCA                                                      |

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|                               |                                               |
|-------------------------------|-----------------------------------------------|
| Burning behavior according to | DIN EN 60332-1-2<br>IEC 60332-3-24<br>UL 1685 |
| Oil resistant according to    | Oil Res I<br>UL 2556                          |
| UV-resistant according to     | UL 1581/2556-300h                             |

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