

## Technical data sheet

PVC Network cables · ETHERNET · shielded

### LÜTZE ELECTRONIC ETHERNET (C) PVC



#### Identification

Type EL ET (C) PVC Cat7 S/FTP (4×(2×AWG22/1))  
Part No. [A1040300](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | <ul style="list-style-type: none"><li>• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol</li><li>• For fixed installation or moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture</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></ul> |
| Properties  | <ul style="list-style-type: none"><li>• High protection against electromagnetic interferences (EMI)</li><li>• Talc free and silicone free</li><li>• RoHS compliant</li><li>• Specially formulated jacket for oil resistance</li></ul>                                                                                                                                                                                                                                                                                                                                        |

#### Construction

|                                    |                             |
|------------------------------------|-----------------------------|
| Ethernet Key                       | S/FTP                       |
| Description                        | ELECTRONIC ETHERNET (C) PVC |
| Number of conductors/cross-section | (4×(2×AWG22/1))             |
| Number of conductors               | 8                           |
| 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                            | 9.6 mm                      |

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Part No. [A1040300](#) • Datasheet version: 00

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|          |              |
|----------|--------------|
| Outer Ø  | 0.378 inch   |
| Weight   | 9.6 kg/100 m |
| Weight   | 65 Lbs/Mft   |
| Cu-Index | 5.3 kg/100 m |
| Cu-Index | 36 Lbs/Mft   |

#### Construction Element 1

|                        |                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| Element construction   | (4×(2×AWG22/1))                                                                                                        |
| Conductor construction | AWG 22/1                                                                                                               |
| Conductor              | AWG conductor<br>CU-wire bare                                                                                          |
| Conductor marking      | Twisted pair<br>• white/blue • blue •<br>• white/orange • orange •<br>• white/green • green •<br>• white/brown • brown |
| Conductor insulation   | foamed polyolefin                                                                                                      |
| Stranding              | conductors stranded in pairs                                                                                           |
| Element shielding      | Aluminium laminate<br>Foil shield                                                                                      |

#### Overall construction

|                        |                                                                   |
|------------------------|-------------------------------------------------------------------|
| Overall stranding      | stranded pairs                                                    |
| Overall wrapping       | Non-woven material                                                |
| Overall shield         | Braid shield<br>tinned copper wires<br>optical cover approx. 85 % |
| Jacket characteristics | Flame-retardant<br>Oil resistant<br>Silicone-free                 |

#### Technical data

|                               |                   |
|-------------------------------|-------------------|
| Rated voltage                 | 300 V             |
| Rated voltage $U_N$           | 600 V AWM 2570    |
| Test voltage type             | 1500 V            |
| Temperature according to UL   | 80 °C             |
| Temperature range moving      | -5 °C ... +70 °C  |
| Temperature range fixed       | -30 °C ... +80 °C |
| Minimum bending radius moving | 12×D              |
| Minimum bending radius fixed  | 6×D               |
| Category                      | Cat.7             |

#### Technical Data Element 1

|                                 |                 |
|---------------------------------|-----------------|
| Element construction            | (4×(2×AWG22/1)) |
| Insulation resistance at 20 °C  | ≥5000 MΩ×km     |
| Operating capacitance wire-wire | approx.50 pF/m  |

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|                 |             |
|-----------------|-------------|
| Loop resistance | ≤118.2 mΩ/m |
|-----------------|-------------|

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#### Certifications/Standards

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|                               |                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Certifications                | cULus<br>CMR<br>CMX Outdoor<br>PLTC<br>cURus<br>Class I and II, Div. 2<br>Class 1 Div. 2 per NEC<br>501, 502, 505 |
| UL style                      | AWM 2570                                                                                                          |
| Conformity                    | CE<br>RoHS<br>REACH<br>TSCA                                                                                       |
| Burning behavior according to | DIN EN 60332-1-2<br>DIN EN 60332-3-24<br>UL 1685<br>UL FT4                                                        |
| Oil resistant according to    | Oil Res I<br>UL 1581                                                                                              |

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