

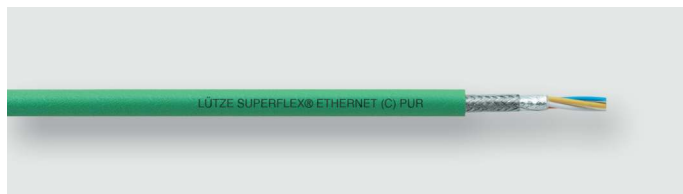
## Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

### LÜTZE SUPERFLEX® ETHERNET (C) PUR

For highest requirements

Cat. 5e



#### Identification

Type SU ET (C) PUR (2×2×AWG26/19)StC Cat5e  
Part No. [104379](#)

#### 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 continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture</li></ul>                                                                                                                                                                                                                                                                                                                       |
| Properties  | <ul style="list-style-type: none"><li>• High protection against electromagnetic interferences (EMI)</li><li>• Silicone free</li><li>• Flame retardant</li><li>• Hydrolysis-resistant, microbe-resistant, and rot-resistant</li><li>• Industrial and salt water resistant</li><li>• Weathering, ozone and UV resistant (normal lighting conditions)</li><li>• Excellent coolant and lubricant resistance</li><li>• Largely resistant to oils, greases, alcohol-free benzines and kerosene</li><li>• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant</li><li>• Very good alternating bending strength</li></ul> |

#### Construction

|                                    |                             |
|------------------------------------|-----------------------------|
| Ethernet Key                       | SF/UTQ                      |
| Description                        | SUPERFLEX® ETHERNET (C) PUR |
| Number of conductors/cross-section | (2×2×AWG26/19)StC           |
| Cross-section, metric              | 0.14 mm <sup>2</sup>        |
| Cross-section AWG                  | AWG 26                      |
| Jacket material                    | PUR                         |

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|              |                           |
|--------------|---------------------------|
| Jacket color | green similar to RAL 6018 |
| Outer Ø      | 5.3 mm                    |
| Outer Ø      | 0.209 inch                |
| Surface      | adhesion-free             |
| Weight       | 3.5 kg/100 m              |
| Weight       | 65 Lbs/Mft                |
| Cu-Index     | 2 kg/100 m                |
| Cu-Index     | 13.4 Lbs/Mft              |

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#### Construction Element 1

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|                            |                               |
|----------------------------|-------------------------------|
| Element construction       | (2×2×AWG26/19)                |
| Conductor construction     | AWG 26/19                     |
| Conductor                  | AWG conductor<br>CU-wire bare |
| Conductor marking standard | ISO IEC 11801                 |
| Conductor insulation       | Special Polyolefin            |

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#### Overall construction

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

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#### Technical data

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|                               |                     |
|-------------------------------|---------------------|
| Rated voltage                 | 300 V               |
| Test voltage type             | AC 1500 V           |
| Temperature range moving      | -30 °C ... +70 °C   |
| Temperature range fixed       | -40 °C ... +80 °C   |
| Minimum bending radius moving | 12×D                |
| Minimum bending radius fixed  | 6×D                 |
| Category                      | Cat.5e              |
| Bending cycles                | ≥5 Mio              |
| Travel distance               | ≤3.5 m              |
| Speed                         | 5 m/s               |
| Acceleration                  | 10 m/s <sup>2</sup> |

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#### Technical Data Element 1

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|                                 |                |
|---------------------------------|----------------|
| Element construction            | (2×2×AWG26/19) |
| Operating capacitance wire-wire | approx.48 pF/m |
| Loop resistance                 | ≤280 mΩ/m      |
| Impedance                       | nom.100 Ω      |

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### Certifications/Standards

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|                               |                                                                                               |
|-------------------------------|-----------------------------------------------------------------------------------------------|
| Certifications                | cURus                                                                                         |
| UL style                      | AWM 21198                                                                                     |
| Conformity                    | CE<br>RoHS<br>REACH                                                                           |
| Burning behavior according to | IEC 60332-1<br>DIN EN 60332-1-2<br>VDE 0482 322-1-2<br>UL 1581 part VW-1 Flame Test<br>UL FT1 |
| Halogen free according to     | DIN EN 60754-1<br>IEC 60754-1                                                                 |

### General

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|      |                                                                                  |
|------|----------------------------------------------------------------------------------|
| Note | CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU |
|------|----------------------------------------------------------------------------------|