

Technical data sheet · LÜTZE SUPERFLEX[®] PLUS N (C) PUR 600 V

For highest requirements



PUR control cables · C-track compatible · shielded

| | | |
|-----------------------|----------|---------------------------|
| Identification | Type | SU+N(C)PUR(12G1,5)UL 600V |
| | Part-No. | 113321 |

Use/Application/Characteristics

| | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Machine and device construction, transport and conveyor technology, HVAC technology• In areas with high concentrations of people or material assets, where corrosive gases need to be avoided in the event of fire• As a monitoring, measurement and control cable for industrial applications• Especially for rough environments• For installation in energy chains with constant linear movement• Anywhere where electrical interference fields can influence the signal transmission |
|-------------|--|

28.04.2017 – Subject to technical modification

Part-No. 113321

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SYSTEMATIC TECHNOLOGY

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| | |
|-----------------|--|
| Characteristics | <ul style="list-style-type: none"> • Reduced friction due to very smooth conductor insulation (HGI) for high mechanical loads • High active and passive interference resistance (EMC) • Braided shield optimized for continuous flexing applications • Low capacitance, very good electrical properties • Flame-retardant, self-extinguishing • Halogen-free, no corrosive gases • Very good flexing strength • Low adhesion, Abrasion-resistant, Tear resistant • Hydrolysis-resistant, microbe-resistant, and rot-resistant • Weathering, ozone and UV resistant (normal lighting conditions) • Good resistance to wear and salt water • Excellent coolant and lubricant resistance • Largely resistant to oils, greases, alcohol-free benzines and kerosene • Silicone free • RoHS-compliant |
|-----------------|--|

Construction

| | |
|------------------------------------|--------------------------------|
| Description | SUPERFLEX PLUS N (C) PUR 600 V |
| Number of conductors/cross-section | (12G1.5) |
| Jacket material | PUR |
| Jacket color | grey RAL 7001 |
| Outer Ø | 14.9 mm |
| Outer Ø | 0.587 inches |
| Weight | 35.4 kg/100 m |
| Weight | 222 Lbs/Mft |
| Cu-Index | 22 kg/100 m |
| Cu-Index | 147 Lbs/Mft |

Element 1

| | |
|----------------------|--|
| Element construction | (12G1.5) |
| Conductor | CU-wire bare |
| Conductor category | IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6 |
| Conductor marking | black with white number print green/yellow |
| Conductor insulation | Special TPE |

overall construction

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| Overall stranding | Conductors stranded layers layer pitch optimised Conductors twisted without mechanical stress |
| Overall wrapping | Non-woven material |
| Inner jacket | TPE |
| Overall shield | Braid shield Tinned copper wires optical cover approx. 85% |
| Jacket characteristics | Flame-retardant self-extinguishing Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free |

Technical data

| | |
|-------------------------------|-------------------|
| Rated voltage U_0/U | 300/500 V |
| Rated voltage UL | 600 V |
| Test voltage type | AC 6000 V |
| Temperature range moving | -25 °C ... +80 °C |
| Temperature range fixed | -40 °C ... +80 °C |
| Minimum bending radius moving | 10×D |
| Minimum bending radius fixed | 6×D |

Element 1

| | |
|-----------------------------------|------------|
| Element construction | (12G1.5) |
| Insulation resistance at 20°C | 1000 MΩ×km |
| Operating capacitance Ader-Ader | 75 pF/m |
| Operating capacitance wire-shield | 108 pF/m |

Approvals/Standards

| | |
|-------------------------------|---|
| Approvals | cURus |
| UL style | AWM 20234 |
| Conformity | CE RoHS REACH |
| Burning behavior according to | IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 Part VW-1 Flame Test UL FT1 |

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Halogen free according to

DIN EN 60754-1
IEC 60754-1

General

Note

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

Symbols



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