

Technical data sheet - LÜTZE SUPERFLEX[®] TRONIC (C) PUR

Shielded electronic cable UL recognized

For highest requirements



PVC electronic cables · C-track compatible · Shielded

| | | |
|-----------------------|----------|----------|
| Identification | Type | (7×0.25) |
| | Part-No. | 117103 |

Use/Application/Characteristics

| | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Robots, drag chains as well as everywhere where signals are transmitted to continuously moving system or machine parts• Machine and device construction, transport and conveyor technology, heating, climate technology• In dry and damp rooms• As monitoring, measurement and control cable for continuous flexing applications• Especially for industrial environments with high EMI potential in machine, plant and device construction |
|-------------|--|

17.06.2015 – Subject to technical modification

Part-No. 117103

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| | |
|-----------------|---|
| Characteristics | <ul style="list-style-type: none"> • 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 • 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 |
|-----------------|---|

Technical data

| | | |
|------------------------|---|------------------|
| UL approval | AWM 20549 | |
| Nominal voltage | 300 V 80 °C | |
| Test voltage | 3000 V | |
| Insulation resistance | min. 1000 MΩ × km | |
| Temperature range | moving | -25 °C to +80 °C |
| | fixed | -40 °C to +80 °C |
| Minimum bending radius | moving | D × 12 |
| | fixed | D × 6 |
| Jacket material | PUR | |
| Burning behavior | Flame-retardant according to DIN EN 60332-2-2, UL Horizontal Flame Test | |
| Halogen free | according to EN 50267-2-1 | |
| OD Ø | 0.228 inches | |
| Weight | 34.0 Lbs/Mft | |
| Copper | 21 Lbs/Mft | |

Construction

| | |
|---------------------------------|--|
| Number of strands/cross-section | (7 × 0.25) |
| Conductor structure | Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6 |
| Conductor insulation | Special-TPE |
| Conductor marking | Conductors color-coded according to DIN 47100 |
| Stranding | Conductors cabled without mechanical stress, layer pitch optimized |
| Banding | Fleece wrap over cable core |
| Overall shield | Braid from tinned copper wire, optical coverage ≥ 85 % |
| Outer jacket | Jacket special-PUR, matte, adhesion-free surface |
| Jacket color | gray RAL 7001 |

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SYSTEMATIC TECHNOLOGY

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General

Note

CE These products are in conformity with the EU Low Voltage Directive 2006/95/EC

Symbols



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