

# PUR Robot cables for the highest requirements

## LÜTZE SUPERFLEX® PLUS Robot N PUR LÜTZE SUPERFLEX® PLUS Robot N (C) PUR



halogenfree

### Application

- Machine and device construction, transport and conveyor technology
- Through full PUR jacket and TPE conductor insulation optimally suited, extremely harsh operating conditions, aggressive coolants and lubricants
- Anywhere where a torsional strain is present

### Properties

- Flame-retardant, self-extinguishing
- halogen-free, no corrosive gases
- Very good alternating bending strength
- Good pressure and roll-over resistance
- Low adhesion, abrasion-proof, nick-resistant, tear-propagation-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant
- Weathering, ozone and UV resistant (normal lighting conditions)
- Good industrial- and salt water resistance
- Excellent coolant and lubricant resistance
- Widely resistant to oils, greases, alcohol-free benzines and kerosene
- Free from paint wetting disruptive substances (LABS-free), RoHS-compliant

### Technical data

|                        |  |
|------------------------|--|
| Voltage                |  |
| U <sub>0</sub> /U      | 300/500 V  |
| Test voltage           | 3000   |
| Isolation resistance   | min. 100 MΩ × km   |
| Temperature range      |  |
| moving                 | -25 °C to +80 °C   |
| run                    | -40 °C to +80 °C   |
| Minimum bending radius |  |
| moving                 | Cable diameter × 15  |
| fixed                  | Cable diameter × 7   |
| Torsion area           | max. ± 160° for the cable length equal 80XD                                    |
| Burning behaviour      | Flame-retardant according to VDE 0482 T 265-2-1; DIN EN 50265-2-1; IEC 60332-1 |
| Halogen-free           | according to DIN EN 50264-1, EN 50267-2-1 and EN 60684-2                       |

### Design

- Bare copper wire, finest multi-strand according to DIN VDE 0295 class 6, IEC 60228 class 6
- Special-TPE conductor insulation
- Conductor labelling Conductors black with white number print according to DIN EN 50334
- Ground conductor green/yellow according to DIN EN 50334 in the top layer
- Conductors twisted without mechanical stress, layer pitch optimised
- Non-woven material over stranded cable
- Optional galvanised Cu wire braid, optical coverage ≥ 85 %
- Full polyurethane jacket, matt, adhesion-free surface

| Part-No.                                 | Number of strands/cross-section | Outer-∅ approx. mm | Weight kg/100 m | Cu-Index kg/100 m |
|--|---------------------------------|--------------------|-----------------|-------------------|
| <b>Unshielded - Jacket colour orange</b> |                                 |                    |                 |                   |
| 111255                                   | 3×1,0                           | 6.2                | 8.1             | 2.9               |
| 111256                                   | 4×1,0                           | 6.7                | 9.5             | 3.9               |
| 111250                                   | 7×1,0                           | 9.1                | 14.9            | 6.7               |
| 111251                                   | 12×1,0                          | 10.2               | 25.9            | 11.5              |
| 111252                                   | 18×1,0                          | 12.0               | 42.0            | 17.3              |
| 111253                                   | 25×1,0                          | 14.9               | 54.0            | 24.0              |
| 111254                                   | 34×1,0                          | 16.4               | 69.6            | 32.6              |
| 111257                                   | 18×1,5                          | 13.0               | 45.8            | 25.9              |
| 111258                                   | 25×1,5                          | 16.0               | 60.4            | 36.0              |
| 111259                                   | 4×2,5                           | 9.2                | 19.4            | 9.6               |
| 111266                                   | 25×0,34 (Jacket colour grey)    | 10.3               | 24.5            | 8.2               |
| <b>shielded - Jacket colour grey</b>     |                                 |                    |                 |                   |
| 111262                                   | (4×1,5+(2×1,0))                 | 11.0               | 21.8            | 12.8              |
| 111261                                   | (4×2×0,14)                      | 6.9                | 7.3             | 3.6               |
| 111260                                   | (12×0,25)                       | 7.0                | 10.5            | 4.5               |

CE These products are in conformity to the EC Low Voltage Directive 73/23/EWG or 93/68/EWG respectively