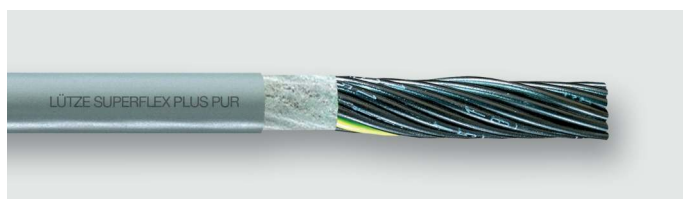


## Technical data sheet

PUR control cables · C-track compatible · unshielded

### LÜTZE SUPERFLEX® PLUS N PUR 600 V

For highest requirements



#### Identification

Type SU+N PUR 18G1,5 600V  
Part No. [113410](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- Application
- Machine and device construction, transport and conveyor technology, heating and climate technology
  - In areas with high concentrations of people or material assets
  - As a monitoring, measurement and control cable for industrial applications
  - Especially for harsh environments
  - For installation in energy chains with constant linear movement
- Properties
- Reduced friction due to very smooth conductor insulation (HGI) for high mechanical loads
  - Low capacitance, very good electrical properties
  - Flame-retardant, self-extinguishing
  - Very good alternating bending strength
  - Low adhesion, abrasion-resistant, nick-resistant, tear-resistant
  - Hydrolysis-resistant, microbe-resistant, and rot-resistant
  - Weathering, ozone and UV resistant (normal lighting conditions)
  - Industrial and salt water resistant
  - Excellent coolant and lubricant resistance
  - Largely resistant to oils, greases, alcohol-free benzines and kerosene
  - Silicone free
  - Halogen free

#### Construction

Description SUPERFLEX® PLUS N PUR 600V  
Number of conductors/cross-section 18G1.5  
Number of conductors 18

#### United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington · GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0 · Fax +44 (0)1827 31333-2  
[www.lutze.com](http://www.lutze.com) · [sales.gb@lutze.co.uk](mailto:sales.gb@lutze.co.uk)

#### Germany: Friedrich Lütze GmbH

Postfach 12 24 (PLZ 71366) · Bruckwiesenstraße 17-19 · D-71384 Weinstadt  
Tel. +49 (0)7151 6053-0 · Fax +49 (0)7151 6053-277(-288)  
[www.luetze.de](http://www.luetze.de) · [info@luetze.de](mailto:info@luetze.de)

22.07.2022 · Subject to technical modification

Part No. [113410](#) · Datasheet version: 00

page 1 of 3



SYSTEMATIC TECHNOLOGY

## Technical data sheet

PUR control cables · C-track compatible · unshielded

---

Cross-section, metric	1.5 mm <sup>2</sup>
Cross-section AWG	AWG 16
Jacket material	PUR
Jacket color	grey similar to RAL 7001
Outer Ø	15.3 mm
Outer Ø	0.602 inch
Weight	38.9 kg/100 m
Weight	255 Lbs/Mft
Cu-Index	26.5 kg/100 m
Cu-Index	178 Lbs/Mft

---

### Construction Element 1

---

Element construction	18G1.5
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 marking standard	DIN EN 50334
Conductor insulation	Special TPE

---

### Overall construction

---

Overall stranding	conductors layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
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 <sub>0</sub> /U	300/500 V
Rated voltage UL	600 V
Test voltage type	AC 6000 V
Temperature according to UL	80 °C
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Travel distance	≤20 m
Speed	≤5 m/s

---

## Technical data sheet

PUR control cables · C-track compatible · unshielded

---

Acceleration	≤10 m/s <sup>2</sup>
Torsion cycles	≥ 1 Mio
Torsion	± 60°/m
Speed of torsion	60 °/s
Acceleration of torsion	30 °/s <sup>2</sup>

---

### Technical Data Element 1

---

Element construction	18G1.5
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.75 pF/m

---

### Certifications/Standards

---

Certifications	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
Oil resistant according to	Oil Res II
Halogen free according to	DIN EN 60754-1 IEC 60754-1
UV-resistant according to	DIN EN ISO 4892-2-A

---

### General

---

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