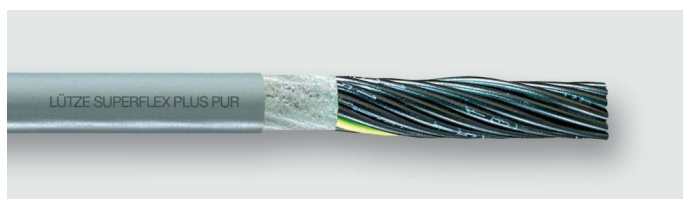


## Technical data sheet

PUR control cables · C-track compatible · unshielded

### LÜTZE SUPERFLEX® PLUS N PUR 600 V

For highest requirements



#### Identification

Type SU+N PUR 18G1,0 600V  
Part No. [113576](#)

#### 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 18G1.0  
Number of conductors 18  
Cross-section, metric 1 mm<sup>2</sup>  
Cross-section AWG AWG 18  
Jacket material PUR  
Jacket color grey similar to RAL 7001

#### USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA  
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223  
www.lutze.com • info@lutze.com

22.07.2022 • Subject to technical modification

Part No. [113576](#) • Datasheet version: 00

page 1 of 3



SYSTEMATIC TECHNOLOGY

## Technical data sheet

PUR control cables · C-track compatible · unshielded

---

Outer Ø	13.8 mm
Outer Ø	0.543 inch
Weight	28.9 kg/100 m
Weight	189 Lbs/Mft
Cu Index	17.9 kg/100 m
Cu Index	120 Lbs/Mft

---

### Construction Element 1

---

Element construction	18G1.0
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 $U_0/U$	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×cable OD
Minimum bending radius fixed	4×cable OD
Bending cycles	≥10 Mio
Travel distance	≤20 m
Speed	≤5 m/s
Acceleration	≤10 m/s <sup>2</sup>
Torsion cycles	≥ 1 Mio
Torsion	± 60°/m
Speed of torsion	60 °/s

---

## Technical data sheet

PUR control cables · C-track compatible · unshielded

---

Acceleration of torsion 30 °/s<sup>2</sup>

---

### Technical Data Element 1

---

Element construction 18G1.0  
Insulation resistance at 20 °C ≥1000 MΩ×km  
Operating capacitance wire-wire approx.70 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  
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