

Technical data sheet

PUR control cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS 4000 PUR

For highest requirements



Identification

Type SU+ 4000 PUR 18G1,5
Part No. [113114](#)

Product version

Datasheet version 03

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, where corrosive gases need to be avoided in the event of fire
 - 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
 - Halogen-free, no corrosive gases
 - 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

Construction

Description SUPERFLEX® PLUS 4000 PUR
Number of conductors/cross-section 18G1,5

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 · 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 · info@luetze.de

07.12.2023 · Subject to technical modification

Part No. [113114](#) · Datasheet version: 03

page 1 of 3



SYSTEMATIC TECHNOLOGY

Technical data sheet

PUR control cables · C-track compatible · unshielded

Number of conductors	18
Cross-section, metric	1.5 mm ²
Jacket material	PUR
Jacket color	grey similar to RAL 7001
Outer Ø	14.2 mm
Weight	37.3 kg/100 m
Weight	249.91 Lbs/Mft
Cu-Index	26.9 kg/100 m

Construction Element 1

Element construction	18G1,5
Conductor	CU-wire bare
Conductor category	DIN EN 60228, Class 6 IEC 60228, Class 6 DIN EN 13602
Conductor marking	black · with white number print · green/yellow
Conductor insulation	TPE
Wrapping	Non-woven material

Overall construction

Overall stranding	conductors layered construction conductors twisted without mechanical stress layer pitch optimised
-------------------	--

Technical data

Rated voltage UL	1000 V
Test voltage type	4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	10 m/s ²
Torsion cycles	≥ 1 Mio
Torsion	± 60°/m
Speed of torsion	60 °/s
Acceleration of torsion	30 °/s ²

Technical Data Element 1

Element construction	18G1,5
Insulation resistance at 20 °C	100 MΩ×km
Conductor resistance	13.3 Ω/km
Operating capacitance wire-wire	61 pF/m

Technical data sheet

PUR control cables · C-track compatible · unshielded

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part VW-1 Flame Test CSA FT 1
Oil resistant according to	Oil Res II
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

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