

Technical data sheet

PUR control cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS 4000 PUR

For highest requirements



Identification

Type SU+ 4000 PUR 5G1,0
Part No. [113103](#)

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 5G1,0

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Number of conductors	5
Cross-section, metric	1 mm ²
Jacket material	PUR
Jacket color	grey similar to RAL 7001
Outer Ø	7.6 mm
Weight	8.67 kg/100 m
Weight	58.06 Lbs/Mft
Cu-Index	4.8 kg/100 m

Construction Element 1

Element construction	5G1,0
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
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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	5G1,0
Insulation resistance at 20 °C	100 MΩ×km
Conductor resistance	19.5 Ω/km
Operating capacitance wire-wire	59 pF/m

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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
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