

Technical data sheet

PUR control cables · C-track compatible · unshielded

LÜTZE SUPERFLEX® PLUS 3000 PUR

For highest requirements



Identification

Type SU+ 3000 PUR 12G1,0
Part No. [113054](#)

Product version

Datasheet version 02

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• 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 |

Construction

Description SUPERFLEX® PLUS 3000 PUR
Number of conductors/cross-section 12G1,0
Number of conductors 12

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Cross-section, metric	1 mm ²
Jacket material	PUR
Jacket color	grey similar to RAL 7001
Outer Ø	9.9 mm
Weight	16.87 kg/100 m
Weight	113.05 Lbs/Mft
Cu-Index	11.88 kg/100 m

Construction Element 1

Element construction	12G1,0
Conductor	CU-wire bare
Conductor category	DIN EN 60228, Class 6 IEC 60228, Class 6 DIN EN 13602
Conductor marking standard	DIN VDE 0293
Conductor insulation	TPE
Stranding	Conductors layered construction Conductors twisted without mechanical stress Layer pitch optimised

Overall construction

Overall stranding	Conductors layered construction Conductors twisted without mechanical stress Layer pitch optimised
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Technical data

Rated voltage U ₀ /U	300/500 V
Rated voltage UL	300 V
Test voltage type	AC 2000 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	12G1,0
Insulation resistance at 20 °C	100 MΩ×km
Conductor resistance	19.5 Ω/km
Operating capacitance wire-wire	70 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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