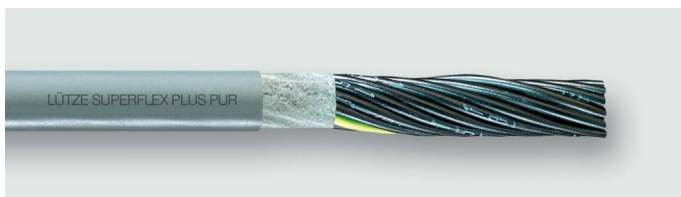


Technical data sheet

PUR control cables · C-track compatible · unshielded

LÜTZE SUPERFLEX® PLUS N PUR 600 V

For highest requirements



Identification

Type SU+N PUR 12G2,5 600V
Part No. [113426](#)

Product version

Datasheet version 00

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• 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• Halogen free |

Construction

Description SUPERFLEX® PLUS N PUR 600V
Number of conductors/cross-section 12G2.5
Number of conductors 12

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05.11.2024 · Subject to technical modification

Part No. [113426](#) · Datasheet version: 00

page 1 of 3



SYSTEMATIC TECHNOLOGY

Technical data sheet

PUR control cables · C-track compatible · unshielded

Cross-section, metric	2.5 mm ²
Cross-section AWG	AWG 14
Jacket material	PUR
Jacket color	grey similar to RAL 7001
Outer Ø	15.3 mm
Outer Ø	0.602 inch
Weight	40.7 kg/100 m
Weight	271 Lbs/Mft
Cu-Index	29.2 kg/100 m
Cu-Index	192 Lbs/Mft

Construction Element 1

Element construction	12G2.5
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 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×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Travel distance	≤20 m
Speed	≤5 m/s

Technical data sheet

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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	12G2.5
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.85 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
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