Technical data sheet

PUR control cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS 3000 PUR
For highest requirements

Identification

Type	SU+ 3000 PUR 3G1,0
Part No.	113050

Product version

Datasheet version	02

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

Construction

Description	SUPERFLEX® PLUS 3000 PUR
Number of conductors/cross-section	3G1,0
Number of conductors	3
Cross-section, metric	1 mm²

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Jacket material	PUR
Jacket color	grey similar to RAL 7001
Outer Ø	6.1 mm
Weight	5.35 kg/100 m
Weight	35.85 Lbs/Mft
Cu-Index	3 kg/100 m

Construction Element 1

Element construction	3G1,0
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
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

Technical data

Rated voltage U_0/U	300/500 V
Rated voltage UL	300 V
Test voltage type	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/s²
Torsion cycles	≥ 1 Mio
Torsion	± 60°/m
Speed of torsion	60 °/s
Acceleration of torsion	30 °/s²

Technical Data Element 1

Element construction	3G1,0
Insulation resistance at 20 °C	100 MΩ×km
Conductor resistance	19.5 Ω/km
Operating capacitance wire-wire	70 pF/m

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