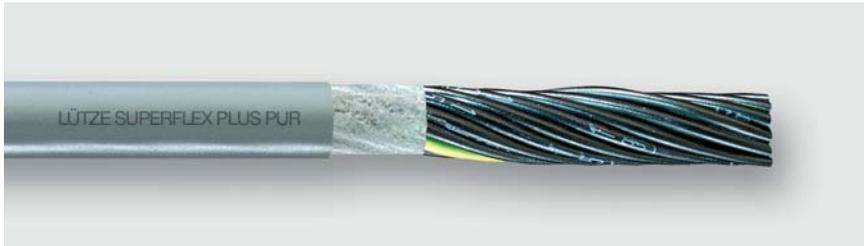


Technical data sheet · LÜTZE SUPERFLEX[®] PLUS N PUR 600 V

For highest requirements



PUR control cables · C-track compatible · unshielded

Identification	Type	SU+N PUR 25G1,5 UL 600V
	Part-No.	113411

Use/Application/Characteristics

Application	<ul style="list-style-type: none"> • Machine and device construction, transport and conveyor technology, HVAC 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
Characteristics	<ul style="list-style-type: none"> • Reduced friction due to high glide conductor insulation (HGI) for high mechanical loads • Low capacitance, very good electrical properties • Flame-retardant, self-extinguishing • Halogen-free, no corrosive gases • Very good flexing strength • Low adhesion, abrasion-resistant, nick-resistant, tear resistant • Hydrolysis-resistant, microbe-resistant, and rot-resistant • Weatherproof, ozone and UV resistant (normal lighting conditions) • Good ruggedness and salt water resistance • Excellent coolant and lubricant resistance • Resistant to most oils, greases, alcohol-free benzines and kerosene • Silicone free • RoHS-compliant

23.11.2019 – Subject to technical modification

Part-No. 113411

USA: LUTZE INC.

13330 South Ridge Drive · Charlotte, NC 28273, USA
 Tel. +1 (704) 504-0222 · Fax +1 (704) 504-0223
 www.lutze.com · info@lutze.com

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



SYSTEMATIC TECHNOLOGY

Technical data sheet - LÜTZE SUPERFLEX[®] PLUS N PUR 600 V

For highest requirements

Construction

Description	SUPERFLEX [®] PLUS N PUR 600V
Number of conductors/cross-section	25G1.5
Jacket material	PUR
Jacket color	grey RAL 7001
Outer Ø	18.2 mm
Outer Ø	0.717 inch
Weight	54 kg/100 m
Weight	346 Lbs/Mft
Cu-Index	36.8 kg/100 m
Cu-Index	247 Lbs/Mft

Element 1

Element construction	25G1.5
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	Fleece taping
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

23.11.2019 – Subject to technical modification

Part-No. 113411

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223
www.lutze.com • info@lutze.com

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



SYSTEMATIC TECHNOLOGY

Technical data sheet - LÜTZE SUPERFLEX[®] PLUS N PUR 600 V

For highest requirements

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
Acceleration	10 m/s ²
Torsion	± 60°
Torsion cycles	≥ 1 Mio
Speed of torsion	60 °/s
Acceleration of torsion	30 °/s ²

Element 1

Element construction	25G1.5
Insulation resistance at 20 °C	1000 MΩ×km
Operating capacitance wire-wire	75 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
------	--

Symbols

23.11.2019 – Subject to technical modification

Part-No. 113411

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223
www.lutze.com • info@lutze.com

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



SYSTEMATIC TECHNOLOGY

Technical data sheet - LÜTZE SUPERFLEX® PLUS N PUR 600 V

For highest requirements



23.11.2019 – Subject to technical modification

Part-No. 113411

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223
www.lutze.com • info@lutze.com

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