

# Technical data sheet - LÜTZE SUPERFLEX® N PVC

## For high requirements



<b>Identification</b>	Type	SU N PVC 18G0,5
	Part-No.	A1481818

### Use/Application/Characteristics

Application	<ul style="list-style-type: none"> <li>• Machine and device construction, transport and conveyor technology, HVAC technology</li> <li>• In dry and damp rooms</li> <li>• As a monitoring, measurement and control cable for industrial applications</li> <li>• For installation in energy chains with constant linear movement</li> </ul>
Characteristics	<ul style="list-style-type: none"> <li>• Very small cable diameters due to special TPE conductor insulation (HGI) according to UL standard</li> <li>• Reduced friction due to high glide conductor insulation (HGI) for high mechanical loads</li> <li>• Flexibility due to super finely stranded wire construction</li> <li>• Low capacitance, very good electrical properties</li> <li>• Especially developed PVC jacket according to UL class 43</li> <li>• Filler without wicking</li> <li>• Low adhesion, abrasion-resistant, nick-resistant, tear resistant</li> <li>• Hydrolysis-resistant, microbe-resistant, and rot-resistant</li> <li>• Use in dry or damp environment</li> <li>• Silicone free</li> <li>• RoHS-compliant</li> </ul>

### Construction

Description	SUPERFLEX® N PVC
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24.02.2019 – Subject to technical modification

Part-No. A1481818

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  
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SYSTEMATIC TECHNOLOGY

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Number of conductors/cross-section	18G1.0
Jacket material	Special PVC
Jacket color	grey RAL 7001
Outer Ø	12.7 mm
Outer Ø	0.5 inches
Weight	31.5 kg/100 m
Weight	211 Lbs/Mft
Cu-Index	17.2 kg/100 m
Cu-Index	116 Lbs/Mft

### Element 1

Element construction	AWG18/18C
Conductor	CU-wire bare
Conductor category	DIN EN 13602 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black with white number print green/yellow
Conductor marking standard	DIN EN 50334
Conductor insulation	FRPP

### overall construction

Overall stranding	conductors twisted without mechanical stress layer pitch optimised
Overall wrapping	Fleece taping
Jacket characteristics	abrasion resistant tough tear resistant microbe resistant hydrolysis-resistant rot-resistant UV resistant (normal lighting conditions) Oil resistant Silicone-free Flame-retardant

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### Technical data

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Rated voltage U <sub>N</sub>	600 V UL AWM 105 °C
Test voltage type	3000 V
Temperature according to UL	105 °C
Temperature range moving	-15 °C ... +90 °C

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Temperature range fixed	-40 °C ... +105 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥5 Mio
Speed	5 m/s
Acceleration	10 m/s <sup>2</sup>

### Element 1

Element construction	AWG18/18C
Insulation resistance at 20 °C	100 MΩ×km

### Approvals/Standards

Approvals	cURus AWM I/II A/B 105°C 600V FT1
UL style	AWM 2586
Conformity	RoHS 2011/65/EU CE REACH
Burning behavior according to	UL VW1, FT1 DIN EN 50265-2-1
Oil resistant according to	UL 4d100C UL Oil Res 80 °C DIN EN 60811-2-1
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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### Symbols



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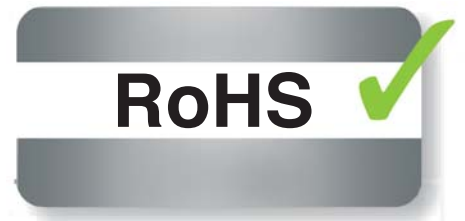
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