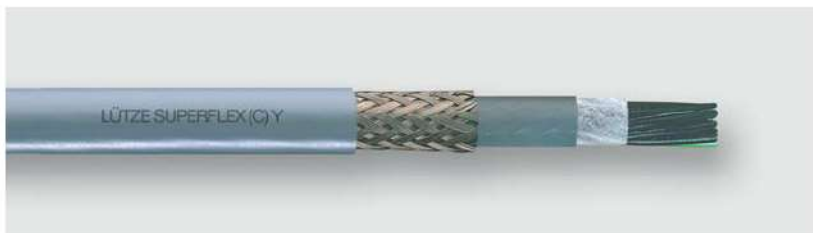


# Technical data sheet · LÜTZE SUPERFLEX® N (C) PVC

## For high requirements



PVC control cables · C-track compatible · shielded

<b>Identification</b>	Type	SU N(C)Y(18G1,0) UL
	Part-No.	A1391818

### 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> <li>• Anywhere where electrical interference fields can influence the signal transmission</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>• Low capacitance, very good electrical properties</li> <li>• Especially developed PVC jacket according to UL class 43</li> <li>• Filler without wick effect</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 (C) PVC
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28.11.2017 – Subject to technical modification

Part-No. A1391818

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

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## For high requirements

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Number of conductors/cross-section	(18G1.0)
Jacket material	Special PVC
Jacket color	grey RAL 7001
Outer Ø	14.9 mm
Outer Ø	0.587 inches
Weight	36.8 kg/100 m
Weight	260 Lbs/Mft
Cu-Index	24 kg/100 m
Cu-Index	161 Lbs/Mft

### Element 1

Element construction	AWG18/18C
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black with black number print green/yellow
Conductor marking standard	DIN EN 50334
Conductor insulation	Special TPE

### overall construction

Overall stranding	Conductors twisted without mechanical stress layer pitch optimised
Overall wrapping	Non-woven material
Inner jacket	PVC
Overall shield	Braid shield Tinned copper wires
Jacket characteristics	abrasion resistant tough Weather resistant hydrolysis-resistant microbe resistant rot-resistant UV resistant (normal lighting conditions) Oil resistant Flame-retardant Silicone-free

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### Technical data

Rated voltage	600 V UL AWM
Test voltage type	AC 3000 V

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## For high requirements

Temperature according to UL	80 °C
Temperature range moving	-5 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	10×D
Minimum bending radius fixed	6×D

### Element 1

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

### Approvals/Standards

Approvals	cURus AWM I/II A/B 80°C 600V FT1
UL style	AWM 2570 AWM 10429
Conformity	CE RoHS REACH
Burning behavior according to	UL VW-1 UL FT1 IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2
Oil resistant according to	UL 4d100C UL Oil Res 80 °C IEC 60811-404
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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