

Technical data sheet - LÜTZE SUPERFLEX® N PVC

For high requirements



Identification	Type	SU N PVC 12G1,0
	Part-No.	A1481812

Use/Application/Characteristics

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

Construction

Description	SUPERFLEX® N PVC
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11.05.2019 – Subject to technical modification

Part-No. A1481812

USA: LUTZE INC.

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SYSTEMATIC TECHNOLOGY

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Number of conductors/cross-section	12G1.0
Jacket material	Special PVC
Jacket color	grey RAL 7001
Outer Ø	10.6 mm
Outer Ø	0.417 inches
Weight	141 Lbs/Mft
Cu-Index	77 Lbs/Mft

Element 1

Element construction	AWG 18 / 1,0 mm ²
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 IEC 60228, Class 6
Conductor marking	black with white number print green/yellow
Conductor insulation	Special TPE

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

Technical data

Rated voltage U _N	600 V UL AWM 105 °C
Test voltage type	3000 V
Temperature range moving	-15 °C ... +90 °C
Temperature range fixed	-40 °C ... +105 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D

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Element construction	AWG 18 / 1,0 mm ²
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 2015/863/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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