

Technical data sheet · LÜTZE SUPERFLEX® N PVC

For high requirements



Identification	Type	SU N PVC 7G1,0
	Part-No.	A1481807

Use/Application/Characteristics

Application	• 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	• 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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02.02.2020 – Subject to technical modification

Part-No. A1481807

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Number of conductors/cross-section	7G1.0
Cross-section AWG	AWG 18
Jacket material	Special PVC
Jacket color	grey RAL 7001
Outer Ø	8.5 mm
Outer Ø	0.335 inch
Weight	92 Lbs/Mft
Cu-Index	45 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

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

Element 1

Element construction	AWG 18 / 1,0 mm ²
Insulation resistance at 20 °C	100 MΩ×km

Certifications/Standards

Certifications	cURus AWM I/II A/B 105°C 600V FT1
UL style	AWM 2586

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SYSTEMATIC TECHNOLOGY

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Conformity	CE RoHS 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	UL 1581

General

Note CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU

Symbols



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