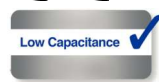


Technical data sheet

High Flexing Control Cable for Continuous Motion Applications · Unshielded

LÜTZE SUPERFLEX® N PVC



Identification

Type SU N PVC 18G1,0
Part No. [A1481818](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Suitable for control, monitoring and instrumentation applications with continuous flexing cycles• Compatible with all major drag chain brands• Compliant with NFPA 79, Article 12.9• Dry and wet conditions |
| Properties | <ul style="list-style-type: none">• Very small cable diameters due to special TPE conductor insulation (HGI) according to UL standard• TPE/PVC combination for high performance flexing and longer cable run• Flexibility ensured through superfine strand construction• Especially developed PVC jacket according to UL class 43• Non-wicking fillers• Abrasion, high wear and tear resistance• Hydrolysis-resistant, microbe-resistant, and rot-resistant• UV resistant• Talc free and silicone free |

Construction

Description	SUPERFLEX® N PVC
Number of conductors/cross-section	18G1.0
Number of conductors	18
Cross-section, metric	1 mm ²
Cross-section AWG	AWG 18
Jacket material	Special PVC
Jacket color	grey similar to RAL 7001
Outer Ø	12.7 mm

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Part No. [A1481818](#) • Datasheet version: 00

page 1 of 3



SYSTEMATIC TECHNOLOGY

Technical data sheet

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Outer Ø	0.5 inch
Weight	211 Lbs/Mft
Cu-Index	116 Lbs/Mft

Construction 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	Non-woven material
Jacket characteristics	Oil resistant

Technical data

Rated voltage U _N	600 V UL AWM 105 °C
Test voltage type	AC 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

Technical Data 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
Conformity	CE RoHS REACH TSCA
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

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General

Note

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