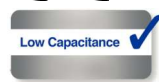
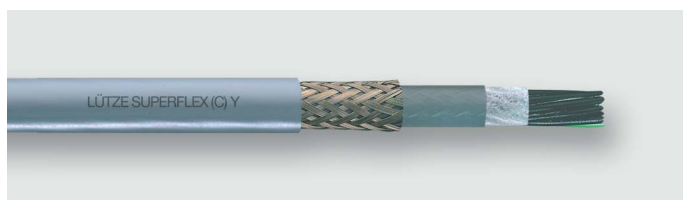


Technical data sheet

High Flexing Control Cable for Continuous Motion Applications · Shielded

LUTZE SUPERFLEX® N (C) PVC



Identification

Type SU N (C) PVC (3G1,0)
Part No. [A1491803](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Shielded multi-conductor high flexing cable suitable for control, monitoring and instrumentation applications with continuous flexing in drag chains• Machine tools, gantry robots, conveyors and other continuous motion application in industrial environments• 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• Sub-jacket for increased flex life in high performance flexing and long cable runs• 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 (C) PVC
Number of conductors/cross-section	(3G1,0)
Number of conductors	3
Cross-section, metric	1 mm ²
Cross-section AWG	AWG 18

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Jacket material	Special PVC
Jacket color	grey similar to RAL 7001
Outer Ø	7.7 mm
Outer Ø	0.303 inch
Weight	74 Lbs/Mft
Cu-Index	31 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
Inner jacket	PVC
Overall shield	Tinned copper wires Braid shield
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	10×D
Minimum bending radius fixed	6×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

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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
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