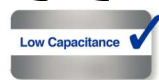
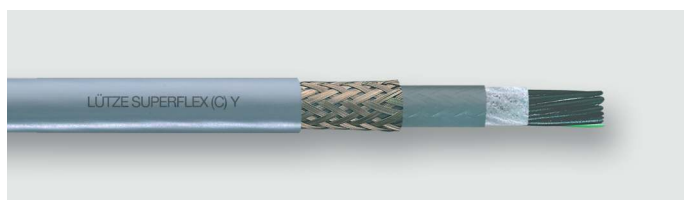


Technical data sheet

High Flexing Control Cable for Continuous Motion Applications · Shielded

LUTZE SUPERFLEX® N (C) PVC



Identification

Type SU N (C) PVC (5G1,0)
Part No. [A1491805](#)

Product version

Datasheet version 00

Use/Application/Properties

- Application
- 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
- 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 (5G1,0)
Number of conductors 5
Cross-section, metric 1 mm²
Cross-section AWG AWG 18

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Part No. [A1491805](#) • Datasheet version: 00

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SYSTEMATIC TECHNOLOGY

Technical data sheet

High Flexing Control Cable for Continuous Motion Applications · Shielded

Jacket material	Special PVC
Jacket color	grey similar to RAL 7001
Outer Ø	9 mm
Outer Ø	0.354 inch
Weight	105 Lbs/Mft
Cu-Index	46 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

Technical data sheet

High Flexing Control Cable for Continuous Motion Applications · Shielded

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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