

## Technical data sheet

### High Flexing Control Cable for Continuous Motion Applications · Unshielded

#### LÜTZE SUPERFLEX® N PVC



#### Identification

Type SU N PVC 5G1,5  
Part No. [A1481605](#)

#### Product version

Datasheet version 00

#### Use/Application/Properties

- Application
- 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
- 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 5G1.5  
Number of conductors 5  
Cross-section, metric 1.5 mm<sup>2</sup>  
Cross-section AWG AWG 16  
Jacket material Special PVC  
Jacket color grey similar to RAL 7001  
Outer Ø 8.4 mm  
Outer Ø 0.331 inch  
Weight 90 Lbs/Mft  
Cu Index 47 Lbs/Mft

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#### Construction Element 1

Element construction	AWG 16 / 1,5 mm <sup>2</sup>
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 <sub>N</sub>	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×cable OD
Minimum bending radius fixed	4×cable OD

#### Technical Data Element 1

Element construction	AWG 16 / 1,5 mm <sup>2</sup>
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	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

#### General

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